

Environmental

Product

Declaration

In accordance with ISO 14025 and EN 15804:2012+A2: 2019



Insulated Wall & Roof Panels with Fire Retarded EPS-FR CORE

from

Metecno Pty Ltd t/a Bondor®



Leaders in Thermal & Architectural Building Solutions

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An EPD should provide current information and maybe updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com

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Bondor Metecno Insulated Sandwich Panels – made for the Sustainable challenge



Key facts

This EPD provides data for 1m² of insulated sandwich panel with an EPS-FR core, manufactured by Bondor in across Australia in Adelaide, Brisbane, Hobart, Melbourne, Perth, Sydney, and Townsville.

This EPD

Published in line with EN 15804 and ISO 14025, providing specific information split by roofing and walling products and detailed by panel thickness.

General information

An Environmental Product Declaration (EPD) is a standardised and verified way of quantifying the environmental impacts of a product based on a consistent set of rules known as a Product Category Rules (PCR). This is a specific EPD. The EPD owner has the sole ownership, liability, and responsibility for this EPD.

EPD's within the same product category from different programmes may not be comparable. EPD of construction products may not be comparable if they do not comply with EN15804. For further information on comparability, see EN 15804 and ISO 14025.

Program information

DECLARATION OWNER



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CEN standard EN 15804+A2:2019/AC2021 serves as the Core Product Category Rules (PCR)

Product category rules (PCR):	PCR 2019:14; Construction products (EN 15804+A2) (1.11)
PCR review was conducted by:	The Technical Committee of the International EPD [®] System. A full list of members available on www.environdec.com for a list of members. The review panel may be contacted via info@environdec.com . Review chair: Claudia A. Peña, University of Concepción, Chile.
Independent third-party verification of the declaration and data, according to ISO 14025:2006:	<input type="checkbox"/> EPD process certification <input checked="" type="checkbox"/> EPD verification
Procedure for follow-up of data during EPD validity involves third party verifier:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Company information

Table 1 | Company Information

Company Data	
Owner of the EPD	Metecno Pty Ltd t/a Bondor Metecno
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Product description

Bondor® panels offer insulated wall and roof panels consisting of two metal facings (predominantly steel) with core material of Fire Retarded Expanded Polystyrene (EPS-FR).

All products are CodeMark® certified and conform to relevant Australian Standards for Structural, Fire and Thermal requirements. The products are suitable for a range of applications from temperature-controlled environments, commercial, architectural and residential applications.

Product information

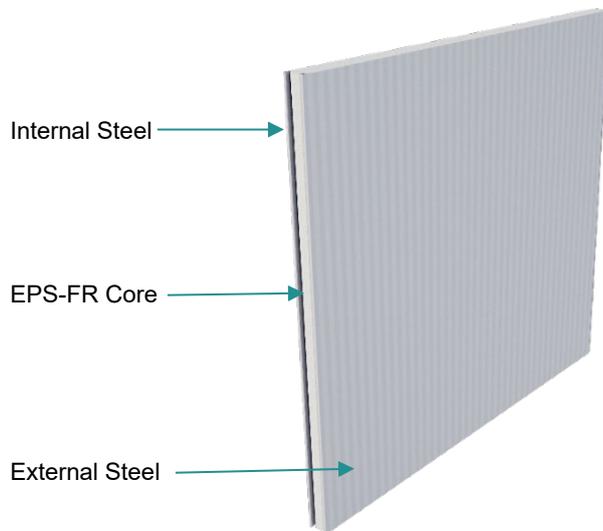
Table 2 | Product Information - Walling

Product type	Product Characteristics	Declared unit	Products included
EPS-FR	Insulated sandwich panel for walling applications with an EPS-FR core	1m ² of panel	BondorPanel® 0.4mm steel
			BondorPanel® 0.6mm steel
			DesignerWall®
			Equitilt® 0.6mm steel
			Equitilt® 0.7mm steel
			InsulWall®
			LuxeWall®

Table 3 | Product Information – Roofing

Product type	Product Characteristics	Declared unit	Products included
EPS-FR	Insulated sandwich panel for roofing applications with an EPS-FR core	1m ² of panel	SolarSpan®
			Solaris Ridge® 0.5mm steel
			Solaris Ridge® 0.6mm steel
			Equideck®
			InsulRoof®
			Solaris Corro® 0.5mm steel
			Solaris Corro® 0.6 mm steel
			CoolRoof®

Insulated EPS-FR core wall panel



Typical EPS-FR wall panel

All wall panels have steel facings and a core material of Expanded Polystyrene with Fire Retardant in a range of thicknesses from 50mm to 250mm. Steel facings can be plain or profiled and panel joints are engineered and can include secret fixed options.

Figure 1: Typical EPS-FR walling panel

EPS-FR Walling product information

BondorPanel[®] is a versatile and high performing insulated wall and ceiling panel used in controlled environments such as cold storage, food preparation areas and clean rooms, but extends its use to transportable offices, wall partitions and many other applications.

DesignerWall[®] is a modular acoustic barrier and feature fence system for retail, commercial and residential projects available in either a prefinished range or a 'texture ready' coating.

Equitilt[®] is an architectural walling panel system installed in a vertical or horizontal orientation combining functionality with creative expression. Equitilt[®] is offered in a variety of metallic or standard COLORBOND[®] colours that can be mixed with surface profiles to deliver a stunning finish to a building's exterior and interior.

InsulWall[®] is a lightweight and structural insulated panel purpose designed to suit the residential housing, modular and renovation market. InsulWall[®] is available in thicknesses to suit 90mm interior walls and 140mm exterior walls and is available for use with the CodeMark[®] certified InsulLiving[®] building system.

LuxeWall[®] is a modern, lightweight residential wall cladding solution developed with a concealed fixing system to fasten to timber and metal stud wall framing.

Insulated EPS-FR core roof panel



Figure 2: Typical EPS-FR roofing panel

Typical EPS-FR roofing panel

All roof panels have steel facings and a core material of Expanded Polystyrene with Fire Retardant in a range of thicknesses from 50mm to 200mm. Roof section comes in trapezoidal, corrugated or standing seam options whilst ceiling side can be plain or profiled.

EPS-FR Roofing product information

SolarSpan[®], **Solaris Ridge**[®] are long-spanning commercial and residential insulated roof panel systems, with a trapezoidal roof profile. These all-in-one roofing solutions are manufactured using Australian-made COLORBOND[®] steel for durability and are installed in a variety of applications including educational facilities, multi-residential housing and retail facilities and are tested for use in cyclonic regions.

Equideck[®] insulated roofing panel system provides a flat and standing-seam like roof profile for durability and delivers a long-spanning and thermally efficient roof.

InsulRoof[®], **Solaris Corro**[®] and **CoolRoof**[®] are long-spanning insulated roof panel systems that features a corrugated roof profile. These all-in-one roofing solutions are ideal for a variety of applications including housing, multi-residential, commercial and industrial roofing applications where a corrugated roof profile is desired.

Recycled content & reuse

The average recycled content of BlueScope[®] steel is 17.4%, an additional 6.8% is reclaimed within the steelmaking, coating and painting operations of BlueScope[®].

Insulated sandwich panel buildings are long lasting, buildings built in the 1960's are still operational in Australia today. Conservatively we have allowed on average 40 years. Insulated panel buildings can be deconstructed and reassembled at another location, or entire buildings can be transported to another location. Insulated panels are often used in modular construction because they can be factory assembled or they can be built in stages as requirements dictate.

Green star and IS rating

This EPD contributes to the achievement of credits under the green building ratings schemes.

- Independently verified
- Cradle to gate with options, including the modules A1-A5, B2, C1-C4 and D.
- Product specific
- Additional Green Star indicators

Environmental Product Declaration

This EPD provides data for 1m² of insulated sandwich panel with an EPS core, manufactured in Australia by Bondor at the Bondor factories in Adelaide, Brisbane, Hobart, Melbourne, Perth, Sydney and Townsville.

This EPD is of the type 'cradle to gate' with modules A4-A5 (construction), B2 (maintenance), C1-C4 (end of life) and module D (reuse, recovery and/or recycling potential). Other life cycle stages are dependent on how the product is used, and should be developed and included as part of a holistic assessment of specific construction works.

Bondor[®] – Panel for the Sustainable Challenge

Bondor Metecno is Australia's largest manufacturer, distributor and installer of Insulated Sandwich Panels (ISP). Bondor was founded in 1951 and joined with the global Metecno Group in 2001. Metecno[®] is one of the largest insulated panel businesses in the world with operations in Europe, North and South America, China, South East Asia, South Asia, Australia, New Zealand and the Pacific.

Bondor Metecno has the most extensive coverage for manufacturing insulated sandwich panel in Australia with operations in every state. Bondor Metecno is the only Australian manufacturer of the three internationally recognised insulated panel types, namely EPS-FR cored, Mineral Wool cored, and PIR cored panels. Our portfolio of products means that we have a solution for any project requirement across thermal, fire, structural and acoustic performance.

Bondor[®] has manufacturing sites in Townsville, Brisbane, Sydney, Melbourne, Launceston, Adelaide and Perth that manufacture EPS-FR core insulated sandwich panels.

The business has invested heavily in research and development including major research programs on sandwich panel performance with Queensland University of Technology and the University of Melbourne. These have included a number of studies into the development and implementation of energy efficient housing and further studies into plastics reduction and recycling in the construction sector.

Inherent advantages of Insulate Sandwich Panels translate into improved sustainability

Our products have a number of inherent advantages over traditional building products in meeting the challenges for an energy efficient and sustainable built environment. The advantages of Insulated Sandwich Panels include:

- Superior thermal performance
- Light weight
- Quick and easy installation
- Continuous insulation with no gaps, crumbling or sagging
- Air tight seal
- Elimination of interstitial condensation with minimal thermal bridging
- Improved spannability over conventional systems, reducing the structural steel and the number of fixing points
- Replacing multiple products in a traditional built-up system with one panel, resulting in reduced material usage, site waste, transport journeys and improving productivity.

Performance advantages of Insulated Sandwich Panel

Performance advantages of Insulated Sandwich Panels include the following:

- Insulated Sandwich Panels provide an energy efficient building envelope without the need to increase the overall thickness of the wall or roof. ISPs are manufactured and installed with an air tight seal, and when mated together they provide superior thermal performance. The performance does not deteriorate as the insulation does not sag or crumble over time. The air tight seal prevents air leakage, significantly reducing the heating and cooling costs over the life of the building.
- Insulated Sandwich Panels conform to Australian Standards for fire performance ranging from Group 1 to Group 2, Bushfire rating of up to BAL-FZ, and non-combustible where required. The panel facings, core type and installation method can be tailored to suit the project requirements and ensure compliance.
- Considering their light weight and ease of construction, Insulated Panels provide impressive acoustic values depending on the core type, with an R_w (Weighted Sound Reduction Index) of between 24 to 30.
- Best-in-class thermal values that are not possible with bulk insulation.
- Bondor Metecno Insulated Sandwich Panels are CodeMark[®] certified and conform to relevant Australian Standards such as AS 1562.1, AS 4284, AS/NZS 1170 series, AS 4040 series, AS/NZS 4859.1 and 2, AS 1366, AS 5637.1, AS 1530 series, and in some cases AS 5113. The international insurance standards include FM 4880, 4881 and 4471. This simplifies the pathway to compliance.

Leading the way on research into the performance of Insulated Sandwich Panel contribution to a sustainable built environment

Bondor Metecno is committed to developing products that are perpetually sustainable throughout their lifecycle, from manufacture, installation and occupancy through to end-of-life disposal. To this end the business has formalised collaboration with a number of research organisations, industry groups and other interested parties to work on means of improving the sustainability of the business and the construction sector overall. This has resulted in a series of studies, process improvements and new products that are progressively being rolled out across the business.

This approach is a non-linear, organic process as we test and develop approaches and solutions that align with Australian conditions, our customers and other key stakeholders.

These developments have included

- Transferring the inherent advantages of Insulated Sandwich Panel from its traditional place in the cold chain, to residential markets:
 - A home studied by QUT with a family of 4 residing for 12 months, with lived experience achieving 9.5-star energy rating, and the cost of heating & cooling being only 44 cents per day (QUT, 2014).
 - Optimised build time, system modularity and simplification:
 - One insulated roof sheet replacing roof sheet, trusses, insulation and ceiling lining
 - One insulated wall panel replacing external cladding, frames, insulation and internal wall lining
- Insulated sandwich panels can be reused, subject to careful deconstruction and appropriate design of the new building
- Component materials of panel can be recycled individually:
 - Steel facings are 100% recyclable
 - EPS- FR core material can be isolated and compacted for re-use in new forms
 - All core materials can be re-used in current forms, with significant research well advanced to reduce amounts to landfill, as a first step to achieving full circularity and meaningful recyclability/re-use of materials



Third party accreditation

Third party accreditation is a key component of ensuring quality and driving business improvement. Bondor Metecno has the largest number of CodeMark[®] accredited products in the panel industry and has a number of products that are approved by Factory Mutual (FM), an insurance company preferred system. These independent verifications ensure stringent criteria are met, and are subject to ongoing review and audits, ensuring our products meet the critical performance requirements which inspire trust in our brands.

Bondor Metecno have partnered in a study with University of Melbourne aimed at reducing plastics in the construction sector. This study focuses on increasing the reuse and recycling opportunities for plastics within our manufacturing process and from the broader construction sector.

Additionally, Bondor Metecno group is heavily invested in and committed to sustainable manufacturing and building practices, and aligned to the Sustainability Leadership Framework as set out by the Chemistry Australia. Bondor Metecno products are manufactured using non ozone depleting substances, and 80% of our product portfolio are either reusable, or completely recyclable. We are a decentralised manufacturer, with multiple plants closer to the market we serve, reducing the emissions derived from long distance transport, and the overall carbon footprint. We actively employ passive energy techniques where practicable, including rainwater harvesting and aligning production with off peak energy demand periods.

Bondor Metecno is a foundation member of our industry body, The Insulated Panels Association of Australasia (IPCA) which has developed the Code of Practice for the industry and is dedicated to improving the quality and consistency of panel and panel installation. IPCA works closely with other industry groups and regulators and was a contributor to the independent industry study In from the Cold which was tasked with reducing the industry's energy and carbon footprint. Bondor Metecno actively contributes to a variety of committees and research groups developing Australian Standards including the panel industry's Code of Practice for Panel installation and the 2011 study of the performance and impacts of the SEQ floods for insulated panel buildings. Supporting these initiatives,

Bondor Metecno is the only panel manufacturer in Australia with a dedicated NATA approved research and development facility. This facility includes a dedicated structural testing unit with a cyclonic testing capability to replicate the most extreme of Australian conditions.

In broad terms Bondor Metecno Group is committed to improving its carbon footprint and the sustainability of the Australian Built Environment as evidenced by:

Sustainable environmental performance

Bondor Metecno is committed to the continual improvement of our environmental policies and maintaining sustainable building practices, evident throughout involvement with Chemistry Australia's. The full range of Bondor Metecno products are designed and tested for Australian conditions and developed with the health of the Australian environment and community in mind. All of our products use non-ozone-depleting gas and substances, with best-in-class thermal efficiency, which saves in energy costs and benefits the environment (QUT, 2014).

Recyclability

The COLORBOND[®] steel skins of all Bondor Metecno insulated panels are 100% recyclable and have been made using BlueScope[®] steel with 10-30% recycled scrap. Where possible, Bondor Metecno actively source production inputs that are either recycled or recyclable to reduce our environmental footprint. We collaborate with supply partners and research institutions on a range of programs to evaluate opportunities for innovation, and continually invest in the latest technologies to support this.

Reusability

Bondor Metecno insulated panels are installed by a combination of screws, rivets and adhesives; and can be easily disassembled to be reused and reconstructed for other applications. The mastic and or silicone sealant which hold the panels together can be easily removed, whilst the screws and rivets which fix the panels to the steel supports and flashings can be unfastened, and panels removed to be reused on other building sites.

Reduction

Bondor Metecno insulated panels significantly contribute to reducing the required energy to maintain the building's temperature within the comfort range, as they provide a building envelope in one highly insulated composite product (QUT, 2014). In comparison to standard framed construction methods with disrupted insulation resulting in heat loss/gain, Bondor Metecno panels deliver continuous insulation significantly minimizing the effect of thermal bridging (QUT, 2014).

Bondor Metecno insulated panels greatly reduce the amount of material used in the construction process, which reduces landfill over standard framed construction methods due to custom project specific lengths minimising site waste. We have a range of initiatives in our production facilities to actively reclaim and convert production waste to minimise our impact on the environment.

Australia's health

Bondor Metecno insulated panels use non-ozone depleting substances in the manufacture of its insulating core, helping to promote sustainable construction to protect Australia's future. These panels provide a consistent level of insulation that is impervious to compression, water vapor, vermin, termites and rot. This decreases the risks of structural damage whilst improving the living quality for Australia.

These insulated panel products also contribute to Australia through their 'buildability'; as they significantly shorten the construction times, which provides economic, social and environmental benefits to the community.

Global experience, local perspective

As Australia's largest manufacturer of Insulated Sandwich Panels, Bondor Metecno allows its customers to benefit from our global experience coupled with local dedication to Australia. Purchasing high performance building products designed specifically for Australian conditions and using Australian materials including BlueScope[®] COLORBOND[®] steel, reduces the users' impact on the environment, whilst supporting Australian industries.

For more information on Bondor Metecno sustainability practices and best-in-class R-values, please contact us.

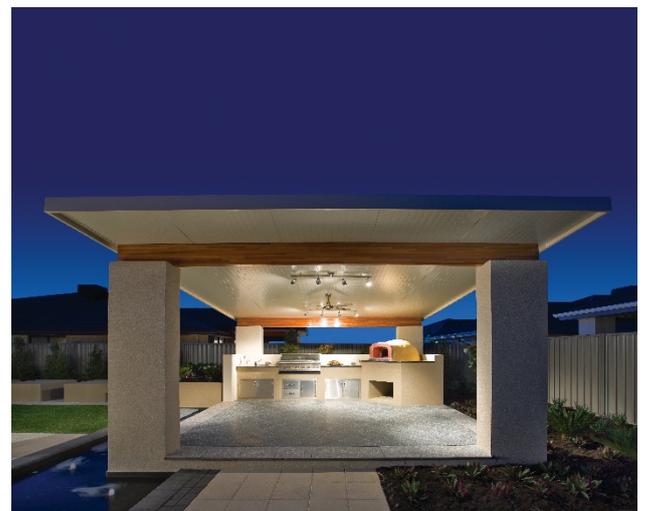
LCA information

Table 4 | LCA Information

Product Characteristics	
Declared Unit	1m ² of panel
Modules Included	A1-A5, B2, C1-C4 and D
Reference Service Life (RSL)	40 years
Geographical Coverage	Australia
Time Period	Calendar year 2021

Declared unit

This EPD is valid for 1m² of sandwich panel with an EPS-FR core and steel facings manufactured at Bondor[®] factories in various cities in Australia.



Life Cycle Assessment (LCA) Methodology

This EPD has been produced in conformance with the requirements of PCR2019:14, General Program Instructions (GPI) and four information modules according to ISO 21930 and EN 15804.

Take care when comparing EPD's

EPD's within the same product category but from different programs may not be comparable

- When comparing EPD data using the comparability requirements in EN 15804, e.g., using equivalent methodology and assumptions such as utilising the same Product Category Rules (PCR).
- When comparing EPD data using the comparability requirements in EN 15804, e.g., using equivalent methodology and assumptions such as utilising the same Product Category Rules (PCR).
- The results for EN 15804:2012+A1:2013 compliant EPDs are not comparable with EN 15804:2012+A2:2019 compliant studies as the methodologies are different. EN 15804:2012+A1:2013 compliant results are given in this document to assist comparability across EPDs and support use in tools such as Green Star.
- LCA provides high-level scientific guidance and differences in data should be substantial to be material. – Understanding the detail is important in comparisons. Expert analysis is required to ensure data is truly comparable, to avoid unintended distortions.

The best way to compare products and materiality of differences is to place them into the context of a structure across the whole life cycle.

Panel Manufacturing



EPS-FR Insulated Walling Manufacturing Process in Australia

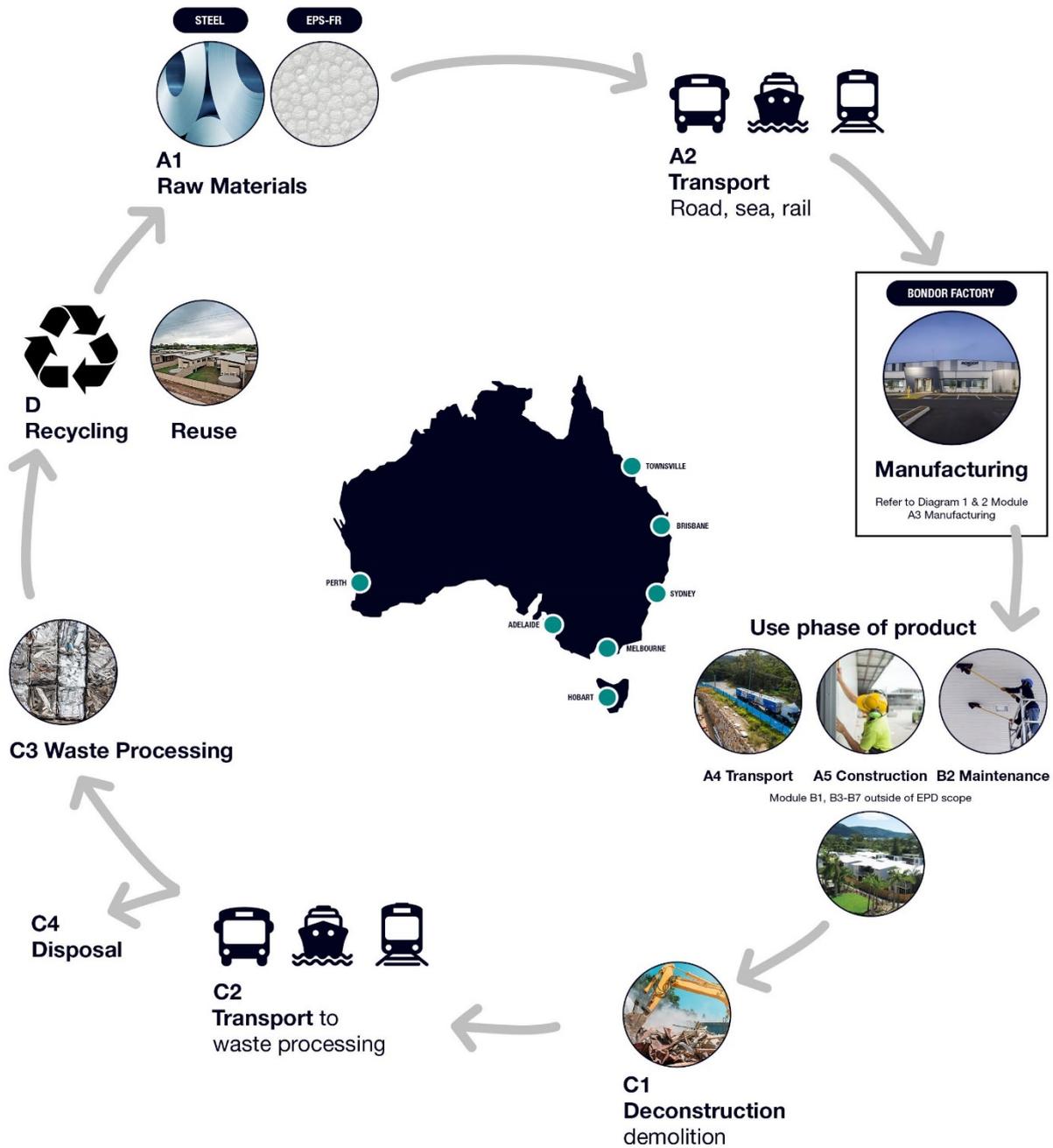


Figure 3: EPS-FR Wall Panel Manufacturing Process in Australia

Panel Manufacturing (Module A3)

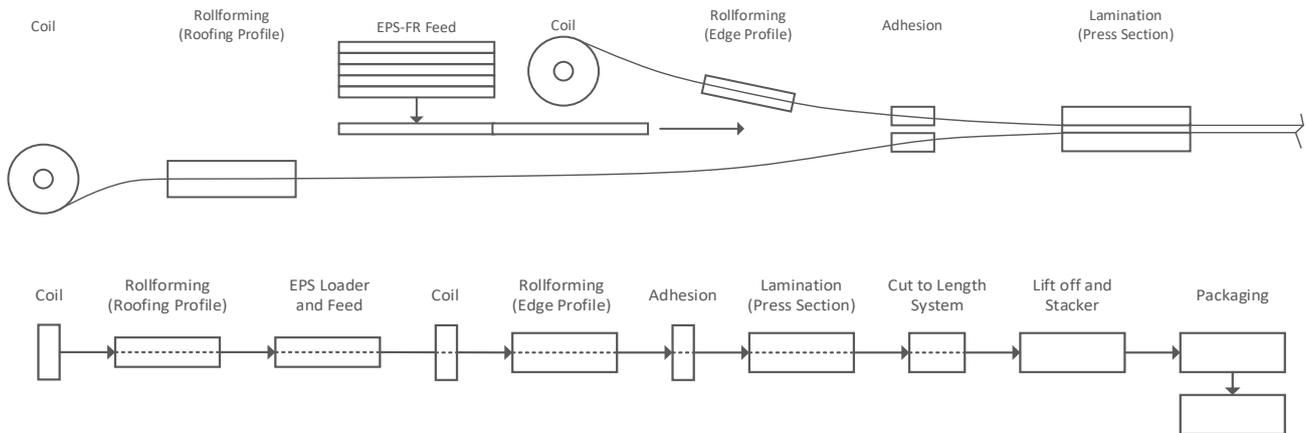


Diagram 1 – Module A3 Manufacturing process in an EPS-FR Wall panel in a Bondor® Factory

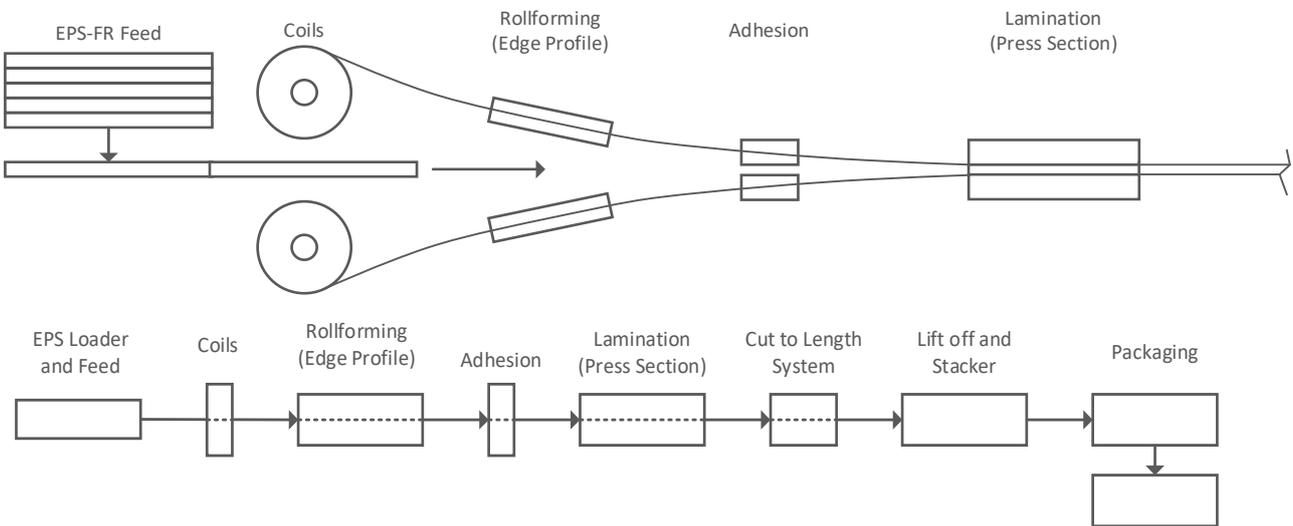


Diagram 2 – Module of A3 Manufacturing process of EPS-FR Roof Panel in a Bondor® Factory

Scope of Declaration

The life cycle of a building product is divided into three process modules according to the General Program Instructions (GPI) and four information modules according to ISO 21930 and EN 15804 and supplemented by a module on potential loads and benefits beyond the building life cycle, as given in Table 5.

Table 5 | The life cycle of a building product

	Product stage			Construction			Use stage							End of life stage			Resource recovery	
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Returbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential	
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
Modules declared	X	X	X	X	X	ND	X	ND	ND	ND	ND	ND	X	X	X	X	X	
Geography	USA/AU/ CN	USA/A U/CN	AU	AU	AU	-	AU	-	-	-	-	-	AU	AU	AU	AU	AU	
Specific data used	>90%					-	-	-	-	-	-	-	-	-	-	-	-	-
Variation products	<10%					-	-	-	-	-	-	-	-	-	-	-	-	-
Variation sites	Not applicable					-	-	-	-	-	-	-	-	-	-	-	-	-

ND = not declared



Cut-off rules

It is common practice in LCA/LCI protocols to propose exclusion limits for inputs and outputs that fall below a threshold % of the total, but with the exception that where the input/output has a “significant” impact it should be included. According to the PCR 2019:14 v1.11, Life cycle inventory data shall according to EN 15804 A2 include a minimum of 95% of total inflows (mass and energy) per module. Inflows not included in the LCA shall be documented in the EPD. Data gaps in included stages in the downstream modules shall be reported in the EPD, including an evaluation of their significance. In accordance with the PCR 2019:14 v1.11, the following system boundaries are applied to manufacturing equipment and employees:

- Environmental impact from infrastructure, construction, production equipment, and tools that are not directly consumed in the production process are not accounted for in the LCI. Capital equipment and buildings typically account for less than a few percent of nearly all LCIs and this is usually smaller than the error in the inventory data itself. For this project, it is assumed that capital equipment makes a negligible contribution to the impacts as per Frischknecht et al. (Frischknecht, 2007) with no further investigation.
- Personnel-related impacts, such as transportation to and from work, are also not accounted for in the LCI. The impacts of employees are also excluded from inventory impacts on the basis that if they were not employed for this production or service function, they would be employed for another. It is very hard to decide what proportion of the impacts from their whole lives should count towards their employment. For this project, the impacts of employees are excluded.
- The transport of scissor lift to and from the installation site is excluded.
- The flame-retardant was not included because of the supplier confidentiality and its quantity is less than 1%. The flame retardant is non-hazardous and hexabromocyclododecane (HBCD) free.
- Besides these exclusions, no energy or mass flows were excluded in this LCA report.

Allocation

According to EN 15804 A2:2019, in a process step where more than one type of product is generated, it is necessary to allocate the environmental stressors (inputs and outputs) from the process to the different products (functional outputs) in order to get product-based inventory data instead of process-based data. An allocation problem also occurs for multi-input processes. In an allocation procedure, the sum of the allocated inputs and outputs to the products shall be equal to the unallocated inputs and outputs of the unit process.

The following stepwise allocation principles shall be applied for multi-input/output allocations:

- The initial allocation step includes dividing up the system sub-processes and collecting the input and output data related to these sub-processes.
- The first (preferably) allocation procedure step for each sub-process is to partition the inputs and outputs of the system into their different products in a way that reflects the underlying physical relationships between them.
- The second (worst case) allocation procedure step is needed when physical relationship alone cannot be established or used as the basis for allocation. In this case, the remaining environmental inputs and outputs from a sub-process must be allocated between the products in a way that reflects other relationships between them, such as the economic value of the products.
- For electricity and gas used in the production of each panel, the total manufacturing electricity and gas consumption was divided by the volume of each produced product type.

Data Quality and Validation

The primary data used for the study is based on direct utility bills or feedstock quantities from Bondor’s procurement records. Primary data was carefully reviewed in order to ensure completeness, accuracy and representativeness of the data supplied. Contribution analysis was used to focus on the key pieces of data contributing to the environmental impact categories. The data was benchmarked against relevant benchmark data in ecoinvent. Overall, the data was deemed to be of high quality for the core module.

Assumptions, Choices, and Limitations

Table 6 | Assumptions or limitations data assessment scheme

Assumption or limitation	Impact on LCA results	Discussion
Insulation foam ingredient composition.	Minor	Information obtained from Bondor® Production Team
Panel distribution	Minor	Information obtained from Bondor® Production Team
Construction energy	Minor	Direct construction energy use is based on conservative estimates, still not significant to the overall results.
Exclusion of employees, capital good and infrastructure	Minor	
Recycling of panels, esp. steel, after use.	Medium	Few panels are believed to be discarded or disposed into landfill after use. The assumption of 6% of panels being disposed of in landfill is based on assumptions as direct data for Australia was not available at the time of reporting. The recycling rate has impact on Module D avoided production calculations,
Maintenance during use	Low	The panels are assumed to be repainted once over 40 years of use. This is considered a conservative estimate.

Compliance with Standards

The methodology and report format has been modified to comply with:

- ISO 14040:2006 and ISO14044:2006+A1:2018 which describe the principles, framework, requirements and provides guidelines for life cycle assessment (LCA).
- ISO 14025:2006 Environmental labels and declarations – Type III environmental declarations -- Principles and procedures, which establishes the principles and specifies the procedures for developing Type III environmental declaration programmes and Type III environmental declarations.
- EN 15804:2012+A1:2013; Sustainability of construction works — Environmental product declarations.
- EN 15804:2012+A2:2019; Sustainability of construction works — Environmental product declarations.
- Product Category Rules (PCR) 2019:14, v1.11 – Construction products – Hereafter referred to as PCR 2019:14.
- General Programme Instructions (GPI) for the International EPD System V3.01 – containing instructions regarding methodology and the content that must be included in EPDs registered under the International EPD System.
- Instructions of EPD Australasia V3.01 – a regional annex to the General Programme Instructions of the International EPD System.

Environmental Performance

The potential environmental impacts, use of resources and waste categories included in this EPD were calculated using the SimaPro v9.4.0.2 tool and are listed in Table 7. The LCA results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds and safety margins or risks.

Table 7 | Life Cycle Impact, Resource and Waste Assessment Categories, Measurements and Methods accordance with EN15804+A2

Impact Category	Abbreviation	Measurement Unit	Assessment Method and Implementation
Global warming potential (fossil)	GWP - Fossil	kg CO ₂ equivalents (GWP100)	Baseline model of 100 years of the IPCC based on IPCC 2013
Global warming potential (biogenic)	GWP - Biogenic	kg CO ₂ equivalents (GWP100)	Baseline model of 100 years of the IPCC based on IPCC 2013
Land use/ land transformation	GWP - luluc	kg CO ₂ equivalents (GWP100)	Baseline model of 100 years of the IPCC based on IPCC 2013
Total global warming potential	GWP - Total	kg CO ₂ equivalents (GWP100)	Baseline model of 100 years of the IPCC based on IPCC 2013
Acidification potential	AP	mol H ⁺ eq.	Accumulated Exceedance, Seppälä et al. 2006, Posch et al., 2008
Eutrophication – aquatic freshwater	EP - freshwater	kg P equivalent	EUTREND model, Struijs et al., 2009b, as implemented in ReCiPe
Eutrophication – aquatic marine	EP - marine	kg N equivalent	EUTREND model, Struijs et al., 2009b, as implemented in ReCiPe
Eutrophication – terrestrial	EP – terrestrial	mol N equivalent	Accumulated Exceedance, Seppälä et al. 2006, Posch et al.
Photochemical ozone creation potential	POCP	kg NMVOC equivalents	LOTOS-EUROS, Van Zelm et al., 2008, as applied in ReCiPe
Abiotic depletion potential (elements)*	ADPE	kg Sb equivalents	CML (v4.1)
Abiotic depletion potential (fossil fuels)*	ADPF	MJ net calorific value	CML (v4.1)
Ozone depletion potential	ODP	kg CFC 11 equivalents	Steady-state ODPs, WMO 2014
Water Depletion Potential*	WDP	m ³ equivalent deprived	Available WATER REMAINING (AWARE) Boulay et al., 2016
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ equivalents (GWP100)	CML (v4.1)

Impact Category	Abbreviation	Measurement Unit	Assessment Method and Implementation
Resource use			
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ, net calorific value	ecoinvent version 3.6 and expanded by PRé Consultants ¹
Use of renewable primary energy resources used as raw materials	PERM	MJ, net calorific value	Manual for direct inputs ²
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	PERT	MJ, net calorific value	ecoinvent version 3.6 and expanded by PRé Consultants
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ, net calorific value	Manual for direct inputs ³
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ, net calorific value	ecoinvent version 3.6 and expanded by PRé Consultants
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	PENRT	MJ, net calorific value	ecoinvent version 3.6 and expanded by PRé Consultants ⁴
Use of secondary material	SM	kg	Manual for direct inputs
Use of renewable secondary fuels	RSF	MJ, net calorific value	Manual for direct inputs
Use of non-renewable secondary fuels	NRSF	MJ, net calorific value	Manual for direct inputs
Use of net fresh water	FW	m ³	ReCiPe 2016
Waste categories			
Hazardous waste disposed	HWD	kg	EDIP 2003 (v1.05)
Non-hazardous waste disposed	NHWD	kg	EDIP 2003 (v1.05) ⁵

¹ Method to calculate Cumulative Energy Demand (CED), based on the method published by Ecoinvent version 2.0 and expanded by PRé Consultants for raw materials available in the SimaPro database.

² Calculated based on the lower heating value of renewable raw materials.

³ Calculated based on the lower heating value of non-renewable raw materials.

⁴ Calculated as sum of *Non-renewable, fossil*, *Non-renewable, nuclear* and *Non-renewable, biomass*.

⁵ Calculated as sum of *Bulk waste* and *Slags/ash*.

Impact Category	Abbreviation	Measurement Unit	Assessment Method and Implementation
Radioactive waste disposed/stored	RWD	kg	EDIP 2003 (v1.05)
Additional environmental impact indicators			
Particulate matter	Potential incidence of disease due to PM emissions (PM)	Disease incidence	SETAC-UNEP, Fantke et al. 2016
Ionising radiation - human health**	Potential Human exposure efficiency relative to U235 (IRP)	kBq U-235 eq	Human Health Effect model
Eco-toxicity (freshwater)*	Potential Comparative Toxic Unit for ecosystems (ETP-fw)	CTUe	USEtox
Human toxicity potential - cancer effects*	Potential Comparative Toxic Unit for humans (HTP-c)	CTUh	USEtox
Human toxicity potential - non cancer effects*	Potential Comparative Toxic Unit for humans (HTP-nc)	CTUh	USEtox
Soil quality*	Potential soil quality index (SQP)	dimensionless	Soil quality index (LANCA®)

*Disclaimer – The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

**Disclaimer – This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Table 8 | Environmental impact indicators in accordance with EN15804+A1

Impact Category	Abbreviation	Measurement Unit (eq. = equivalence)	Assessment Method and Implementation
Global warming potential (GWP100)	GWP	kg CO ₂ eq.	CML (v4.02) based on IPCC AR4
Ozone depletion potential	ODP	kg CFC 11 eq.	CML (v4.02) based on WMO 1999
Acidification potential	AP	kg SO ₂ e eq.	CML (v4.02)
Eutrophication potential	EP	kg PO ₄ ³⁻ eq.	CML (v4.02)
Photochemical ozone creation potential	POCP	kg C ₂ H ₄ eq.	CML (v4.2)
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq.	CML (v4.2)
Abiotic depletion potential for fossil resources	ADPF	MJ net calorific value	CML (v4.2)

Table 9 | Environmental impact indicators in accordance with Green Star v1.3

Impact Category	Abbreviation	Measurement Unit (eq. = equivalence)	Assessment Method and Implementation
Human toxicity cancer	HTPc	CTUh	USEtox – cancer effect
Human toxicity noncancer	HTPnc	CTUh	USEtox – noncancer effect
Land use	LU	kg C deficit-eq.	Soil Organic Matter method
Resource depletion - water	RDW	m ³	Water Stress Indicator
Ionising radiation	IR	kBq U-235-eq.	Human Health Effect model
Particulate matter	PM	kg PM2.5-eq.	RiskPoll

Content Information

Walling product content information

Table 10 | Material content for 1m² of EPS - FR insulated walling panels

Product	Items	Mass (%)	Post-consumer material (%)	Pre-consumer material (%)
BondorPanel® 0.4mm steel	Steel	74-92	8.5	6.5
	Expanded Polystyrene	6-24	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	1	0	0
BondorPanel® 0.6mm steel	Steel	67-89	8.5	6.5
	Expanded Polystyrene	8-31	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	1	0	0
DesignerWall®	Steel	89-92	8.5	6.5
	Expanded Polystyrene	6-9	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	1	0	0
Equitilt® 0.6 mm steel	Steel	74-92	8.5	6.5
	Expanded Polystyrene	6-24	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	1	0	0
Equitilt® 0.7 mm steel	Steel	77-93	8.5	6.5
	Expanded Polystyrene	6-24	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	1	0	0
InsulWall®	Steel	83-88	8.5	6.5
	Expanded Polystyrene	11-16	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	1	0	0
LuxeWall®	Steel	89-92	8.5	6.5
	Expanded Polystyrene	6-9	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	1	0	0

Note: Insulated sandwich panel for walling has two steel skins and an insulating core of Expanded Polystyrene. Steel skins for BondorPanel® are either 0.4mm or 0.6mm COLORBOND® steel. Equitilt® has two steel skins of either 0.6mm or 0.7mm COLORBOND® steel.

None of the products contain one or more substances that are listed in the “Candidate List of Substances of Very High Concern for authorisation”. According to the PCR 2019:14, if one or more substances of the “Candidate List of Substances of Very High Concern (SVHC) for authorisation” are present in a product and their total content exceeds 0.1% of the weight of the product, they need to be reported.

Walling packaging content information

Product stage (Module A1-A3)

Material content

Table 11 | Information for Packaging materials

Panel	Packaging materials	Weight (%) versus the product		Weight (kg)	
		Min	Max	Min	Max
BondorPanel® 0.4mm steel	Expanded Polystyrene Bearers	0.12%	0.53%	1.36E-02	7.50E-02
	Expanded Polystyrene Face Sheets	0.08%	0.35%	9.00E-03	4.95E-02
	Medium Density Fibreboard Base	1.18%	5.23%	1.35E-01	7.44E-01
	Polyethylene Strap	0.02%	0.08%	2.18E-03	1.20E-02
	Spiral Wrap	0.06%	0.27%	7.07E-03	3.89E-02
	Cardboard Angles	0.12%	0.52%	1.34E-02	7.36E-02
	Steel Angles	0.49%	2.20%	5.68E-02	3.13E-01
	Aerocell	0.14%	0.20%	1.95E-02	2.33E-02
BondorPanel® 0.6mm steel	Expanded Polystyrene Bearers	0.17%	0.69%	1.36E-02	7.50E-02
	Expanded Polystyrene Face Sheets	0.11%	0.45%	9.00E-03	4.95E-02
	Medium Density Fibreboard Base	1.65%	6.81%	1.35E-01	7.44E-01
	Polyethylene Strap	0.03%	0.11%	2.18E-03	1.20E-02
	Spiral Wrap	0.09%	0.36%	7.07E-03	3.89E-02
	Cardboard Angles	0.16%	0.67%	1.34E-02	7.36E-02
	Steel Angles	0.69%	2.86%	5.68E-02	3.13E-01
	Aerocell	0.18%	0.28%	1.95E-02	2.33E-02
InsulWall®	Expanded Polystyrene Bearers	0.23%	0.34%	2.73E-02	4.29E-02
	Expanded Polystyrene Face Sheets	0.15%	0.22%	1.80E-02	2.83E-02
	Medium Density Fibreboard Base	2.25%	3.34%	2.71E-01	4.25E-01
	Polyethylene Strap	0.04%	0.05%	4.37E-03	6.86E-03
	Spiral Wrap	0.12%	0.17%	1.41E-02	2.22E-02
	Cardboard Angles	0.22%	0.33%	2.68E-02	4.21E-02
	Steel Angles	0.94%	1.40%	1.14E-01	1.79E-01
	Aerocell	0.17%	0.19%	2.16E-02	2.25E-02
LuxeWall®	Expanded Polystyrene Bearers	0.12%	0.16%	1.36E-02	1.88E-02
	Expanded Polystyrene Face Sheets	0.08%	0.10%	9.00E-03	1.24E-02
	Medium Density Fibreboard Base	1.18%	1.57%	1.35E-01	1.86E-01
	Polyethylene Strap	0.02%	0.03%	2.18E-03	3.00E-03
	Spiral Wrap	0.06%	0.08%	7.07E-03	9.72E-03
	Cardboard Angles	0.12%	0.16%	1.34E-02	1.84E-02
	Steel Angles	0.49%	0.66%	5.68E-02	7.81E-02
	Aerocell	0.19%	0.20%	2.30E-02	2.33E-02

Panel	Packaging materials	Weight (%) versus the product		Weight (kg)	
DesignerWall®	Expanded Polystyrene Bearers	0.12%	0.16%	1.36E-02	1.88E-02
	Expanded Polystyrene Face Sheets	0.08%	0.10%	9.00E-03	1.24E-02
	Medium Density Fibreboard Base	1.18%	1.57%	1.35E-01	1.86E-01
	Polyethylene Strap	0.02%	0.03%	2.18E-03	3.00E-03
	Spiral Wrap	0.06%	0.08%	7.07E-03	9.72E-03
	Cardboard Angles	0.12%	0.16%	1.34E-02	1.84E-02
	Steel Angles	0.49%	0.66%	5.68E-02	7.81E-02
	Aerocell	0.19%	0.20%	2.30E-02	2.33E-02
	Equitilt® 0.6mm steel	Expanded Polystyrene Bearers	0.12%	0.53%	1.36E-02
Expanded Polystyrene Face Sheets		0.08%	0.35%	9.00E-03	4.95E-02
Medium Density Fibreboard Base		1.18%	5.23%	1.35E-01	7.44E-01
Polyethylene Strap		0.02%	0.08%	2.18E-03	1.20E-02
Spiral Wrap		0.06%	0.27%	7.07E-03	3.89E-02
Cardboard Angles		0.12%	0.52%	1.34E-02	7.36E-02
Steel Angles		0.49%	2.20%	5.68E-02	3.13E-01
Aerocell		0.14%	0.20%	1.95E-02	2.33E-02
Equitilt® 0.7mm steel		Expanded Polystyrene Bearers	0.11%	0.48%	1.36E-02
	Expanded Polystyrene Face Sheets	0.07%	0.32%	9.00E-03	4.95E-02
	Medium Density Fibreboard Base	1.05%	4.77%	1.35E-01	7.44E-01
	Polyethylene Strap	0.02%	0.08%	2.18E-03	1.20E-02
	Spiral Wrap	0.05%	0.25%	7.07E-03	3.89E-02
	Cardboard Angles	0.10%	0.47%	1.34E-02	7.36E-02
	Steel Angles	0.44%	2.00%	5.68E-02	3.13E-01
	Aerocell	0.12%	0.18%	1.95E-02	2.33E-02

Roofing product content information

Table 12 | Material content for 1m² of EPS -FR insulated roofing panels

Product	Items	Mass (%)	Post-consumer material (%)	Pre-consumer material (%)
SolarSpan®	Steel	76-91	8.5	6.5
	Expanded Polystyrene	6-22	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	1	0	0
Solaris Ridge® 0.5mm steel	Steel	76-91	8.5	6.5
	Expanded Polystyrene	6-22	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	1	0	0
Solaris Ridge® 0.6mm steel	Steel	74-90	8.5	6.5
	Expanded Polystyrene	7-24	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	1	0	0
InsulRoof®	Steel	73-87	8.5	6.5
	Expanded Polystyrene	6-21	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	0.4	0	0
	Polyurethane	5-6	0	0
Solaris Corro® 0.5mm steel	Steel	73-87	8.5	6.5
	Expanded Polystyrene	6-21	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	0.4	0	0
	Polyurethane	5-6	0	0
Solaris Corro® 0.6mm steel	Steel	71-86	8.5	6.5
	Expanded Polystyrene	7-23	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	0.45	0	0
	Polyurethane	5-6	0	0
Equideck®	Steel	74-92	8.5	6.5
	Expanded Polystyrene	6-24	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	1	0	0
CoolRoof®	Steel	88-91	8.5	6.5
	Expanded Polystyrene	6-9	0	0
	Methyl diphenyl diisocyanate (MDI)	1	0	0
	Polyol	1	0	0

Note: Insulated sandwich panels for roofing have two steel skins and an insulating core material.

The trapezoidal roof products vary:

SolarSpan[®] has one configuration an external roof steel of 0.42 Hi Tensile COLORBOND[®] steel and an internal ceiling sheet of 0.6mm COLORBOND[®].

Solaris Ridge[®] has two configurations the external roof steel is always 0.42 Hi Tensile COLORBOND[®] steel the internal ceiling sheet can be of 0.6mm or 0.5mm COLORBOND[®].

Equideck[®] is made with two steel facings both 0.6mm COLORBOND[®] steel.

InsulRoof[®] has one configuration external steel is always 0.42 Hi Tensile COLORBOND[®] steel and an internal ceiling sheet of 0.6mm COLORBOND[®] steel.

Solaris Corro[®] has two configurations the external roof steel is always 0.42 Hi Tensile COLORBOND[®] steel the internal ceiling sheet can be of 0.6mm or 0.5mm COLORBOND[®].

CoolRoof[®] has an external roof steel of 0.42 Hi Tensile COLORBOND[®] steel and an internal ceiling sheet of 0.6mm COLORBOND[®].

None of the products contain one or more substances that are listed in the “Candidate List of Substances of Very High Concern for authorisation”. According to the PCR 2019:14, if one or more substances of the “Candidate List of Substances of Very High Concern (SVHC) for authorisation” are present in a product and their total content exceeds 0.1% of the weight of the product, they need to be reported.

UN CPC code: 421

Roofing packaging content information

Table 13 | Information for Packaging materials EPS-FR insulated roofing panels

Panel	Packaging materials	Weight (%) versus the product		Weight (kg)	
		Min	Max	Min	Max
SolarSpan®	Expanded Polystyrene Bearers	0.14%	0.48%	1.43E-02	5.00E-02
	Expanded Polystyrene Face Sheets	0.09%	0.32%	9.43E-03	3.30E-02
	Medium Density Fibreboard Base	1.35%	4.74%	1.42E-01	4.96E-01
	Polyethylene Strap	0.02%	0.08%	2.29E-03	8.00E-03
	Spiral Wrap	0.10%	0.35%	1.04E-02	3.66E-02
	Cardboard Angles	0.13%	0.47%	1.40E-02	4.91E-02
	Steel Angles	0.57%	1.99%	5.95E-02	2.08E-01
	Aerocell	0.16%	0.24%	1.88E-02	2.56E-02
Solaris Ridge® 0.5mm steel	Expanded Polystyrene Bearers	0.14%	0.40%	1.43E-02	5.00E-02
	Expanded Polystyrene Face Sheets	0.09%	0.26%	9.43E-03	3.30E-02
	Medium Density Fibreboard Base	1.35%	3.96%	1.42E-01	4.96E-01
	Polyethylene Strap	0.02%	0.06%	2.29E-03	8.00E-03
	Spiral Wrap	0.10%	0.29%	1.04E-02	3.66E-02
	Cardboard Angles	0.13%	0.39%	1.40E-02	4.91E-02
	Steel Angles	0.57%	1.66%	5.95E-02	2.08E-01
	Aerocell	0.15%	0.24%	1.88E-02	2.56E-02
Solaris Ridge® 0.6mm steel	Expanded Polystyrene Bearers	0.15%	0.43%	1.43E-02	5.00E-02
	Expanded Polystyrene Face Sheets	0.10%	0.29%	9.43E-03	3.30E-02
	Medium Density Fibreboard Base	1.49%	4.29%	1.42E-01	4.96E-01
	Polyethylene Strap	0.02%	0.07%	2.29E-03	8.00E-03
	Spiral Wrap	0.11%	0.32%	1.04E-02	3.66E-02
	Cardboard Angles	0.15%	0.42%	1.40E-02	4.91E-02
	Steel Angles	0.63%	1.80%	5.95E-02	2.08E-01
	Aerocell	0.16%	0.26%	1.88E-02	2.56E-02
InsulRoof®	Expanded Polystyrene Bearers	0.15%	0.35%	1.61E-02	4.50E-02
	Expanded Polystyrene Face Sheets	0.10%	0.23%	1.06E-02	2.97E-02
	Medium Density Fibreboard Base	1.45%	3.43%	1.59E-01	4.47E-01
	Polyethylene Strap	0.02%	0.06%	2.57E-03	7.20E-03
	Spiral Wrap	0.09%	0.21%	9.97E-03	2.79E-02
	Cardboard Angles	0.14%	0.34%	1.58E-02	4.42E-02
	Steel Angles	0.61%	1.44%	6.70E-02	1.88E-01
	Aerocell	0.15%	0.28%	2.01E-02	3.20E-02
Solaris Corro® 0.5mm steel	Expanded Polystyrene Bearers	0.15%	0.35%	1.61E-02	4.50E-02
	Expanded Polystyrene Face Sheets	0.10%	0.23%	1.06E-02	2.97E-02
	Medium Density Fibreboard Base	1.45%	3.43%	1.59E-01	4.47E-01

Panel	Packaging materials	Weight (%) versus the product		Weight (kg)	
	Polyethylene Strap	0.02%	0.06%	2.57E-03	7.20E-03
	Spiral Wrap	0.09%	0.21%	9.97E-03	2.79E-02
	Cardboard Angles	0.14%	0.34%	1.58E-02	4.42E-02
	Steel Angles	0.61%	1.44%	6.70E-02	1.88E-01
	Aerocell	0.15%	0.28%	2.01E-02	3.20E-02
Solaris Corro® 0.6mm steel	Expanded Polystyrene Bearers	0.16%	0.37%	1.61E-02	4.50E-02
	Expanded Polystyrene Face Sheets	0.11%	0.25%	1.06E-02	2.97E-02
	Medium Density Fibreboard Base	1.59%	3.70%	1.59E-01	4.47E-01
	Polyethylene Strap	0.03%	0.06%	2.57E-03	7.20E-03
	Spiral Wrap	0.10%	0.23%	9.97E-03	2.79E-02
	Cardboard Angles	0.16%	0.37%	1.58E-02	4.42E-02
	Steel Angles	0.67%	1.55%	6.70E-02	1.88E-01
	Aerocell	0.17%	0.31%	2.01E-02	3.20E-02
CoolRoof®	Expanded Polystyrene Bearers	0.15%	0.26%	1.61E-02	2.81E-02
	Expanded Polystyrene Face Sheets	0.10%	0.17%	1.06E-02	1.86E-02
	Medium Density Fibreboard Base	1.52%	2.58%	1.59E-01	2.79E-01
	Polyethylene Strap	0.02%	0.04%	2.57E-03	4.50E-03
	Spiral Wrap	0.10%	0.16%	9.97E-03	1.74E-02
	Cardboard Angles	0.15%	0.26%	1.58E-02	2.76E-02
	Steel Angles	0.64%	1.08%	6.70E-02	1.17E-01
	Aerocell	0.22%	0.30%	2.25E-02	3.20E-02
Equideck®	Expanded Polystyrene Bearers	0.26%	0.70%	3.00E-02	1.00E-01
	Expanded Polystyrene Face Sheets	0.17%	0.46%	1.98E-02	6.60E-02
	Medium Density Fibreboard Base	2.59%	6.97%	2.98E-01	9.92E-01
	Polyethylene Strap	0.04%	0.11%	4.80E-03	1.60E-02
	Spiral Wrap	0.14%	0.36%	1.56E-02	5.19E-02
	Cardboard Angles	0.26%	0.69%	2.94E-02	9.81E-02
	Steel Angles	1.09%	2.93%	1.25E-01	4.17E-01
	Aerocell	0.12%	0.19%	1.73E-02	2.19E-02
	Steel Angles	0.49%	2.20%	5.68E-02	3.13E-01
	Aerocell	0.14%	0.20%	1.95E-02	2.33E-02

Biogenic carbon

There's no biogenic carbon in the product. The biogenic carbon content in packaging is described in Table 14.

Table 14 | Biogenic carbon content in packaging

Panel	Biogenic Carbon Content in packaging (kg C)						
Bondor Panel®	50 mm	75 mm	100 mm	125 mm	150 mm	200 mm	250 mm
	5.88E-02	8.09E-02	1.18E-01	1.44E-01	1.85E-01	2.59E-01	3.23E-01
SolarSpan®	50 mm	75 mm	100 mm	125 mm	150 mm	175 mm	200 mm
	6.16E-02	7.19E-02	8.63E-02	1.08E-01	1.44E-01	1.73E-01	2.16E-01
Solaris Ridge®	50 mm	75 mm	100 mm	125 mm	150 mm	200 mm	
	6.16E-02	7.19E-02	8.63E-02	1.08E-01	1.44E-01	2.16E-01	
InsulRoof®	50 mm	75 mm	100 mm	125 mm	150 mm	200 mm	
	6.93E-02	1.21E-01	1.21E-01	1.62E-01	1.62E-01	1.94E-01	
Solaris Corro®	50 mm	75 mm	100 mm	125 mm	150 mm	200 mm	
	6.93E-02	1.21E-01	1.21E-01	1.62E-01	1.62E-01	1.94E-01	
InsulWall®	90 mm	140 mm					
	1.18E-01	1.85E-01					
LuxeWall®	50 mm	75 mm					
	5.88E-02	8.09E-02					
DesignerWall®	50 mm	75 mm					
	5.88E-02	8.09E-02					
CoolRoof®	50 mm	75 mm					
	6.93E-02	1.21E-01					
Equideck®	50 mm	75 mm	100 mm	125 mm	150 mm	200 mm	250 mm
	1.29E-01	1.62E-01	1.85E-01	2.16E-01	2.59E-01	3.23E-01	4.31E-01
Equitilt®	50 mm	75 mm	100 mm	125 mm	150 mm	200 mm	250 mm
	5.88E-02	8.09E-02	1.18E-01	1.44E-01	1.85E-01	2.59E-01	3.23E-01

Additional information on release of dangerous substances to indoor air, soil and water

The products are highly inert and are used predominantly in outdoor applications. They do not release any dangerous substances to indoor air, soil, or water.

Transport (Module A4)

The transport distances from manufacturing gate were calculated based on primary data from the percentage of total products shipped to each state with the distance of 20.72 - 325 km. The transport is m² product constrained.

Installation (Module A5)

0.17 kWh of electricity is required for machinery used during the construction for panel under 200 mm and 0.24 kg of diesel is used for scissor lift for panel over 200 mm. The panels are trimmed and prepared before being installed with screws and rivets to hold the structure in place. The installation procedures are the same across all panel products. Most panels/boards are installed without any offcuts. The offcuts are equivalent to 0.09% of panel weight and are neglected due to the small amount. Disposal for packaging materials is included in this module.

Maintenance (Module B2)

The exterior facing (top) panel side is assumed to be repainted once over the 40-year lifespan of the panel with two coating layers.

Table 15 | Maintenance process

Input	Description per functional unit
Maintenance process	Repaint
Maintenance cycle	1 per lifespan of 40 years
Acrylic paint 25 um	1m ²



Disposal / Reuse / Recycling (Module C1-C4)

The scenarios included are currently in use and are representative for one of the most probable alternatives.

Following the use of the panels, Bondor Metecno has limited evidence of what the end-of-life fate for their panels. The recommended cradle to grave environmental profile will be based on the most common scenario as panels are deconstructed and transported to material recovery facilities. The steel is recovered and returned into recycling stream. The included scenarios are based on the most likely outcomes of the products at the end-of-life.

The following assumptions have been used in this study to model panel deconstruction and end of life scenarios:

- Diesel fuel consumption for deconstruction has been calculated based on the gravitational potential energy required to lift a typical panel 10m above ground, assuming 15% diesel energy conversion into effective work.
- 6% of the panels are assumed to be discarded during deconstruction and disposed in landfill.
- 100km delivery distance to landfill, material recovery facility is assumed for waste collection process.
- Material recovery processing is modelled including collection, sorting and processing steel scrap in AusLCI database, assuming
 - 100% of insulation foam from material recovery processing disposed in landfill
 - 100% of steel sheets from material recovery processing returned into the steel recycling stream.

Benefits and loads beyond the system boundary (Module D)

The information in module D may contain technical information as well as LCA results from post-consumer recycling, i.e., environmental benefits or loads resulting from reusable products, recyclable materials and/or useful energy carriers leaving a product system e.g., as secondary materials or fuels. Avoided impacts from co-products from module A to C shall not be included in Module D.

Regarding an assumption that 6% of panels were destroyed during the demolition process, the recovery rate after use is 94%, as mentioned in the previous section, and 100% of the reclaimed steel is recycled.

Environmental information

EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804. For further information about comparability, see EN 15804 and ISO 14025.

Walling

BondorPanel®

BondorPanel® 0.4mm steel - 50mm

Table 16 | Environmental impacts per m² of BondorPanel® 0.4mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.14E+01	2.15E-04	1.45E-01	1.78E+00	1.39E-01	2.02E-03	2.31E+00	1.06E-01	-8.03E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.03E-01	9.20E-09	8.15E-02	2.94E-03	4.85E-04	8.66E-08	7.06E-03	7.14E-05	3.59E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	6.84E-03	1.78E-09	5.90E-05	5.63E-06	2.87E-08	1.67E-08	8.74E-07	1.36E-05	-8.38E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.13E+01	2.15E-04	2.27E-01	1.78E+00	1.40E-01	2.02E-03	2.32E+00	1.06E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	3.83E-07	3.27E-11	4.20E-08	5.04E-08	2.66E-10	3.07E-10	2.26E-08	4.15E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.61E-01	1.69E-06	1.43E-03	9.09E-03	1.02E-03	1.59E-05	1.52E-02	1.15E-04	-7.33E-02
Eutrophication – freshwater	EP - F	kg P eq.	6.25E-04	7.43E-09	-4.74E-06	1.68E-04	5.50E-06	6.99E-08	8.79E-05	1.85E-06	-1.81E-04
Eutrophication – marine	EP - M	kg N eq.	3.67E-02	4.85E-07	2.13E-04	1.55E-03	1.51E-04	4.56E-06	2.44E-03	1.89E-03	-1.47E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.97E-01	5.31E-06	2.32E-03	1.32E-02	1.62E-03	5.00E-05	2.63E-02	4.22E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.24E-01	1.31E-06	6.35E-04	3.85E-03	4.26E-04	1.23E-05	6.82E-03	1.43E-04	-3.98E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	8.86E-04	7.78E-10	2.30E-06	4.06E-06	1.81E-07	7.32E-09	3.13E-06	4.02E-08	-2.35E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.42E+02	3.06E-03	9.75E-01	3.19E+01	6.63E-01	2.88E-02	1.48E+01	3.35E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	8.28E+00	6.37E-05	4.43E-01	3.47E+01	2.28E-02	5.99E-04	1.35E+00	1.37E-02	-5.69E+01

Table 17 | Resource use per m² of BondorPanel® 0.4mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.67E+01	3.10E-05	3.36E-01	3.26E-01	1.20E-01	2.92E-04	1.70E+00	5.39E-03	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	1.67E+01	3.10E-05	3.36E-01	3.26E-01	1.20E-01	2.92E-04	1.70E+00	5.39E-03	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.05E+02	3.06E-03	3.06E+00	3.19E+01	6.63E-01	2.88E-02	1.48E+01	3.35E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	3.78E+01	0.00E+00	-2.34E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.52E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.43E+02	3.06E-03	7.19E-01	3.19E+01	6.63E-01	2.88E-02	1.48E+01	-3.49E+01	-1.05E+02
Use of secondary material	SM	kg	1.27E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	7.98E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.10E-01	3.64E-07	3.33E-04	3.67E-03	1.14E-04	3.43E-06	2.11E-03	1.92E-04	-2.92E-03

Table 18 | Waste generated per m² of BondorPanel® 0.4mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	5.14E-05	4.02E-09	-3.09E-06	1.08E-05	4.50E-07	3.78E-08	7.98E-06	4.78E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	6.58E-01	2.11E-05	2.54E-01	6.54E-02	8.58E-03	1.98E-04	2.33E-01	1.50E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.60E-03	1.60E-11	1.78E-05	6.94E-06	4.39E-09	1.50E-10	8.68E-08	1.92E-06	-9.80E-08

Table 19 | Output flows per m² of BondorPanel® 0.4mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 20 | Additional environmental impacts per m² of BondorPanel® 0.4mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.99E+01	2.10E-04	1.46E-01	1.68E+00	1.37E-01	1.98E-03	2.28E+00	8.08E-02	-6.92E+00
Particulate matter	PM	disease incidence	2.17E-06	1.11E-11	6.68E-09	8.57E-08	8.88E-09	1.05E-10	1.33E-07	2.21E-09	-5.01E-07
Ionising radiation - human health	IRP	kBq U-235 eq	2.42E-01	1.16E-07	1.77E-02	4.85E-02	3.05E-05	1.09E-06	6.05E-04	1.50E-03	-6.80E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.36E+02	1.64E-03	1.28E+00	7.90E+00	3.79E-01	1.55E-02	7.00E+00	5.28E-01	-1.53E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.20E-08	1.04E-13	5.33E-09	7.57E-10	4.32E-11	9.77E-13	6.86E-10	1.45E-11	-2.53E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	4.97E+01	1.05E-03	7.00E-01	5.34E+00	3.50E-01	9.87E-03	5.93E+00	1.74E-01	-1.51E+02
Soil quality	SQP	Pt	3.34E+01	7.95E-04	1.09E+00	6.96E-01	4.26E-01	7.48E-03	6.31E+00	7.13E-01	-1.28E+01

Table 21 | Environmental impacts per m² of BondorPanel® 0.4mm steel - 50mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.00E+01	2.11E-04	1.90E-01	1.72E+00	1.38E-01	1.98E-03	2.29E+00	9.16E-02	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	3.58E-07	2.58E-11	3.70E-08	4.29E-08	2.33E-10	2.43E-10	1.84E-08	3.29E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.24E-01	8.98E-07	4.99E-04	7.45E-03	2.11E-04	8.44E-06	3.57E-03	8.75E-05	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.53E-02	2.05E-07	6.50E-05	1.16E-03	7.30E-05	1.93E-06	1.18E-03	8.04E-04	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.94E-02	6.04E-08	6.21E-05	4.60E-04	4.31E-06	5.68E-07	8.36E-05	1.64E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	8.86E-04	7.78E-10	2.30E-06	4.06E-06	1.81E-07	7.32E-09	3.13E-06	4.02E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.95E+02	3.07E-03	3.56E+00	2.91E+01	1.55E+00	2.89E-02	2.74E+01	3.16E-01	-1.57E+02

Table 22 | Environmental impacts per m² of BondorPanel® 0.4mm steel - 50mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.62E-08	4.81E-15	9.26E-12	3.51E-11	5.02E-12	4.53E-14	7.64E-11	9.43E-13	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.24E-09	1.08E-15	1.32E-12	8.43E-13	8.52E-13	1.02E-14	1.24E-11	1.53E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.06E+01	5.63E-04	4.80E-01	4.93E-01	1.23E-02	5.30E-03	4.01E-01	2.68E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	2.43E-01	1.16E-07	1.77E-02	4.85E-02	3.06E-05	1.09E-06	6.06E-04	1.50E-03	-6.80E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.33E-02	2.10E-07	1.41E-04	9.55E-04	7.30E-05	1.98E-06	1.17E-03	2.68E-05	-8.81E-03
Resource depletion - water	RDW	m ³	1.41E-01	1.03E-06	1.39E-03	8.67E-03	9.97E-04	9.71E-06	1.51E-02	4.39E-04	-7.96E-03

BondorPanel® 0.4mm steel - 75mm

Table 23 | Environmental impacts per m² of BondorPanel® 0.4mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.28E+01	2.64E-04	1.22E-01	1.78E+00	1.39E-01	2.08E-03	2.31E+00	1.46E-01	-8.03E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.58E-01	1.13E-08	1.09E-01	2.94E-03	4.85E-04	8.92E-08	7.06E-03	9.77E-05	3.59E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	7.01E-03	2.19E-09	6.08E-05	5.63E-06	2.87E-08	1.72E-08	8.74E-07	1.77E-05	-8.38E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.27E+01	2.64E-04	2.31E-01	1.78E+00	1.40E-01	2.08E-03	2.32E+00	1.46E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.17E-07	4.03E-11	4.19E-08	5.04E-08	2.66E-10	3.17E-10	2.26E-08	5.25E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.67E-01	2.09E-06	1.39E-03	9.09E-03	1.02E-03	1.64E-05	1.52E-02	1.48E-04	-7.33E-02
Eutrophication – freshwater	EP - F	kg P eq.	6.97E-04	9.16E-09	-1.50E-05	1.68E-04	5.50E-06	7.21E-08	8.79E-05	2.45E-06	-1.81E-04
Eutrophication – marine	EP - M	kg N eq.	3.75E-02	5.97E-07	2.06E-04	1.55E-03	1.51E-04	4.70E-06	2.44E-03	2.62E-03	-1.47E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.06E-01	6.55E-06	2.25E-03	1.32E-02	1.62E-03	5.15E-05	2.63E-02	5.40E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.29E-01	1.62E-06	5.61E-04	3.85E-03	4.26E-04	1.27E-05	6.82E-03	1.86E-04	-3.98E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	8.87E-04	9.58E-10	2.46E-06	4.06E-06	1.81E-07	7.54E-09	3.13E-06	5.29E-08	-2.35E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.89E+02	3.77E-03	1.39E-01	3.19E+01	6.63E-01	2.96E-02	1.48E+01	4.28E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	9.37E+00	7.85E-05	5.74E-01	3.47E+01	2.28E-02	6.17E-04	1.35E+00	1.74E-02	-5.69E+01

Table 24 | Resource use per m² of BondorPanel® 0.4mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.77E+01	3.82E-05	3.69E-01	3.26E-01	1.20E-01	3.01E-04	1.70E+00	7.18E-03	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	1.77E+01	3.82E-05	3.69E-01	3.26E-01	1.20E-01	3.01E-04	1.70E+00	7.18E-03	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.38E+02	3.77E-03	2.93E+00	3.19E+01	6.63E-01	2.96E-02	1.48E+01	4.28E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	5.20E+01	0.00E+00	-3.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.89E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.90E+02	3.77E-03	-2.03E-01	3.19E+01	6.63E-01	2.96E-02	1.48E+01	-4.84E+01	-1.05E+02
Use of secondary material	SM	kg	1.27E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	7.98E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.25E-01	4.49E-07	2.62E-04	3.67E-03	1.14E-04	3.53E-06	2.11E-03	2.44E-04	-2.92E-03

Table 25 | Waste generated per m² of BondorPanel® 0.4mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	5.43E-05	4.95E-09	-5.87E-06	1.08E-05	4.50E-07	3.89E-08	7.98E-06	6.10E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	6.96E-01	2.60E-05	3.18E-01	6.54E-02	8.58E-03	2.05E-04	2.33E-01	1.84E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.60E-03	1.97E-11	1.86E-05	6.94E-06	4.39E-09	1.55E-10	8.68E-08	2.43E-06	-9.80E-08

Table 26 | Output flows per m² of BondorPanel® 0.4mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 27 | Additional environmental impacts per m² of BondorPanel® 0.4mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.11E+01	2.59E-04	1.24E-01	1.68E+00	1.37E-01	2.04E-03	2.28E+00	1.11E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.23E-06	1.37E-11	4.16E-09	8.57E-08	8.88E-09	1.08E-10	1.33E-07	2.83E-09	-5.01E-07
Ionising radiation - human health	IRP	kBq U-235 eq	2.49E-01	1.42E-07	1.96E-02	4.85E-02	3.05E-05	1.12E-06	6.05E-04	1.92E-03	-6.80E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.46E+02	2.02E-03	6.53E-01	7.90E+00	3.79E-01	1.59E-02	7.00E+00	7.10E-01	-1.53E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.41E-08	1.28E-13	6.51E-09	7.57E-10	4.32E-11	1.01E-12	6.86E-10	1.93E-11	-2.53E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	5.95E+01	1.29E-03	8.30E-02	5.34E+00	3.50E-01	1.02E-02	5.93E+00	2.27E-01	-1.51E+02
Soil quality	SQP	Pt	3.86E+01	9.79E-04	1.13E+00	6.96E-01	4.26E-01	7.70E-03	6.31E+00	9.16E-01	-1.28E+01

Table 28 | Environmental impacts per m² of BondorPanel® 0.4mm steel - 75mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.14E+01	2.60E-04	1.84E-01	1.72E+00	1.38E-01	2.04E-03	2.29E+00	1.26E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	3.94E-07	3.18E-11	3.67E-08	4.29E-08	2.33E-10	2.51E-10	1.84E-08	4.16E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.28E-01	1.11E-06	4.45E-04	7.45E-03	2.11E-04	8.70E-06	3.57E-03	1.12E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.59E-02	2.52E-07	3.15E-05	1.16E-03	7.30E-05	1.99E-06	1.18E-03	1.11E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.96E-02	7.44E-08	5.06E-05	4.60E-04	4.31E-06	5.85E-07	8.36E-05	2.24E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	8.87E-04	9.58E-10	2.46E-06	4.06E-06	1.81E-07	7.54E-09	3.13E-06	5.29E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.25E+02	3.78E-03	3.34E+00	2.91E+01	1.55E+00	2.97E-02	2.74E+01	4.03E-01	-1.57E+02

Table 29 | Environmental impacts per m² of BondorPanel® 0.4mm steel - 75mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.68E-08	5.93E-15	8.69E-12	3.51E-11	5.02E-12	4.67E-14	7.64E-11	1.22E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.24E-09	1.33E-15	1.37E-12	8.43E-13	8.52E-13	1.05E-14	1.24E-11	1.96E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.12E+01	6.94E-04	4.85E-01	4.93E-01	1.23E-02	5.46E-03	4.01E-01	3.27E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	2.49E-01	1.43E-07	1.96E-02	4.85E-02	3.06E-05	1.12E-06	6.06E-04	1.93E-03	-6.80E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.39E-02	2.59E-07	1.08E-04	9.55E-04	7.30E-05	2.04E-06	1.17E-03	3.46E-05	-8.81E-03
Resource depletion - water	RDW	m ³	1.75E-01	1.27E-06	1.20E-03	8.67E-03	9.97E-04	1.00E-05	1.51E-02	5.57E-04	-7.96E-03

BondorPanel® 0.4mm steel - 100mm

Table 30 | Environmental impacts per m² of BondorPanel® 0.4mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.44E+01	2.65E-04	8.44E-02	1.78E+00	1.39E-01	2.14E-03	2.31E+00	1.86E-01	-8.03E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-2.59E-01	1.14E-08	1.54E-01	2.94E-03	4.85E-04	9.18E-08	7.06E-03	1.24E-04	3.59E-03
Global warming potential - land use/land transformation	GWP - Luluc	kg CO ₂ eq.	7.28E-03	2.19E-09	6.38E-05	5.63E-06	2.87E-08	1.78E-08	8.74E-07	2.18E-05	-8.38E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.41E+01	2.65E-04	2.39E-01	1.78E+00	1.40E-01	2.14E-03	2.32E+00	1.86E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.65E-07	4.03E-11	4.17E-08	5.04E-08	2.66E-10	3.26E-10	2.26E-08	6.35E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.72E-01	2.09E-06	1.32E-03	9.09E-03	1.02E-03	1.69E-05	1.52E-02	1.81E-04	-7.33E-02
Eutrophication – freshwater	EP - F	kg P eq.	7.92E-04	9.17E-09	-3.20E-05	1.68E-04	5.50E-06	7.42E-08	8.79E-05	3.05E-06	-1.81E-04
Eutrophication – marine	EP - M	kg N eq.	3.84E-02	5.98E-07	1.94E-04	1.55E-03	1.51E-04	4.84E-06	2.44E-03	3.35E-03	-1.47E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.16E-01	6.56E-06	2.13E-03	1.32E-02	1.62E-03	5.30E-05	2.63E-02	6.59E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.34E-01	1.62E-06	4.36E-04	3.85E-03	4.26E-04	1.31E-05	6.82E-03	2.28E-04	-3.98E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	8.89E-04	9.60E-10	2.74E-06	4.06E-06	1.81E-07	7.76E-09	3.13E-06	6.56E-08	-2.35E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.38E+02	3.77E-03	-1.25E+00	3.19E+01	6.63E-01	3.05E-02	1.48E+01	5.21E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	1.06E+01	7.86E-05	7.93E-01	3.47E+01	2.28E-02	6.36E-04	1.35E+00	2.11E-02	-5.69E+01

Table 31 | Resource use per m² of BondorPanel® 0.4mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.92E+01	3.83E-05	4.22E-01	3.26E-01	1.20E-01	3.10E-04	1.70E+00	8.96E-03	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	1.92E+01	3.83E-05	4.22E-01	3.26E-01	1.20E-01	3.10E-04	1.70E+00	8.96E-03	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.72E+02	3.77E-03	2.73E+00	3.19E+01	6.63E-01	3.05E-02	1.48E+01	5.21E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	6.63E+01	0.00E+00	-4.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.25E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.38E+02	3.77E-03	-1.74E+00	3.19E+01	6.63E-01	3.05E-02	1.48E+01	-6.19E+01	-1.05E+02
Use of secondary material	SM	kg	1.27E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	7.98E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.41E-01	4.49E-07	1.43E-04	3.67E-03	1.14E-04	3.63E-06	2.11E-03	2.96E-04	-2.92E-03

Table 32 | Waste generated per m² of BondorPanel® 0.4mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	5.90E-05	4.96E-09	-1.05E-05	1.08E-05	4.50E-07	4.01E-08	7.98E-06	7.42E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	7.50E-01	2.60E-05	4.26E-01	6.54E-02	8.58E-03	2.11E-04	2.33E-01	2.18E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.61E-03	1.97E-11	2.00E-05	6.94E-06	4.39E-09	1.60E-10	8.68E-08	2.94E-06	-9.80E-08

Table 33 | Output flows per m² of BondorPanel® 0.4mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 34 | Additional environmental impacts per m² of BondorPanel® 0.4mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.25E+01	2.59E-04	8.89E-02	1.68E+00	1.37E-01	2.10E-03	2.28E+00	1.41E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.30E-06	1.37E-11	-5.26E-11	8.57E-08	8.88E-09	1.11E-10	1.33E-07	3.45E-09	-5.01E-07
Ionising radiation – human health	IRP	kBq U-235 eq	2.59E-01	1.43E-07	2.27E-02	4.85E-02	3.05E-05	1.15E-06	6.05E-04	2.35E-03	-6.80E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.59E+02	2.03E-03	-3.98E-01	7.90E+00	3.79E-01	1.64E-02	7.00E+00	8.92E-01	-1.53E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.72E-08	1.28E-13	8.46E-09	7.57E-10	4.32E-11	1.04E-12	6.86E-10	2.41E-11	-2.53E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	7.14E+01	1.29E-03	-9.45E-01	5.34E+00	3.50E-01	1.05E-02	5.93E+00	2.80E-01	-1.51E+02
Soil quality	SQP	Pt	4.72E+01	9.81E-04	1.20E+00	6.96E-01	4.26E-01	7.93E-03	6.31E+00	1.12E+00	-1.28E+01

Table 35 | Environmental impacts per m² of BondorPanel® 0.4mm steel – 100mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.28E+01	2.60E-04	1.73E-01	1.72E+00	1.38E-01	2.10E-03	2.29E+00	1.60E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.39E-07	3.19E-11	3.62E-08	4.29E-08	2.33E-10	2.58E-10	1.84E-08	5.03E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.33E-01	1.11E-06	3.55E-04	7.45E-03	2.11E-04	8.96E-06	3.57E-03	1.37E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.65E-02	2.53E-07	-2.42E-05	1.16E-03	7.30E-05	2.05E-06	1.18E-03	1.42E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.00E-02	7.45E-08	3.16E-05	4.60E-04	4.31E-06	6.02E-07	8.36E-05	2.84E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	8.89E-04	9.60E-10	2.74E-06	4.06E-06	1.81E-07	7.76E-09	3.13E-06	6.56E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.56E+02	3.79E-03	2.98E+00	2.91E+01	1.55E+00	3.06E-02	2.74E+01	4.91E-01	-1.57E+02

Table 36 | Environmental impacts per m² of BondorPanel® 0.4mm steel – 100mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.77E-08	5.94E-15	7.74E-12	3.51E-11	5.02E-12	4.80E-14	7.64E-11	1.50E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.24E-09	1.34E-15	1.46E-12	8.43E-13	8.52E-13	1.08E-14	1.24E-11	2.38E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.21E+01	6.95E-04	4.93E-01	4.93E-01	1.23E-02	5.62E-03	4.01E-01	3.85E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	2.59E-01	1.43E-07	2.27E-02	4.85E-02	3.06E-05	1.15E-06	6.06E-04	2.35E-03	-6.80E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.47E-02	2.59E-07	5.29E-05	9.55E-04	7.30E-05	2.10E-06	1.17E-03	4.23E-05	-8.81E-03
Resource depletion – water	RDW	m ³	2.11E-01	1.27E-06	8.94E-04	8.67E-03	9.97E-04	1.03E-05	1.51E-02	6.76E-04	-7.96E-03

BondorPanel® 0.4mm steel – 125mm

Table 37 | Environmental impacts per m² of BondorPanel® 0.4mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.58E+01	1.00E-04	5.76E-02	1.78E+00	1.39E-01	2.20E-03	2.31E+00	2.25E-01	-8.03E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-3.27E-01	4.29E-09	1.86E-01	2.94E-03	4.85E-04	9.44E-08	7.06E-03	1.49E-04	3.59E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	7.48E-03	8.30E-10	6.59E-05	5.63E-06	2.87E-08	1.82E-08	8.74E-07	2.58E-05	-8.38E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.55E+01	1.00E-04	2.44E-01	1.78E+00	1.40E-01	2.20E-03	2.32E+00	2.25E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.03E-07	1.52E-11	4.15E-08	5.04E-08	2.66E-10	3.35E-10	2.26E-08	7.41E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.77E-01	7.90E-07	1.27E-03	9.09E-03	1.02E-03	1.74E-05	1.52E-02	2.12E-04	-7.33E-02
Eutrophication – freshwater	EP – F	kg P eq.	8.70E-04	3.47E-09	-4.41E-05	1.68E-04	5.50E-06	7.63E-08	8.79E-05	3.63E-06	-1.81E-04
Eutrophication – marine	EP – M	kg N eq.	3.93E-02	2.26E-07	1.85E-04	1.55E-03	1.51E-04	4.97E-06	2.44E-03	4.06E-03	-1.47E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.25E-01	2.48E-06	2.05E-03	1.32E-02	1.62E-03	5.45E-05	2.63E-02	7.73E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.38E-01	6.12E-07	3.49E-04	3.85E-03	4.26E-04	1.35E-05	6.82E-03	2.69E-04	-3.98E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	8.91E-04	3.63E-10	2.94E-06	4.06E-06	1.81E-07	7.98E-09	3.13E-06	7.79E-08	-2.35E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	6.85E+02	1.43E-03	-2.24E+00	3.19E+01	6.63E-01	3.14E-02	1.48E+01	6.10E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	1.17E+01	2.97E-05	9.51E-01	3.47E+01	2.28E-02	6.53E-04	1.35E+00	2.47E-02	-5.69E+01

Table 38 | Resource use per m² of BondorPanel® 0.4mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.04E+01	1.45E-05	4.60E-01	3.26E-01	1.20E-01	3.18E-04	1.70E+00	1.07E-02	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	2.04E+01	1.45E-05	4.60E-01	3.26E-01	1.20E-01	3.18E-04	1.70E+00	1.07E-02	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.05E+02	1.43E-03	2.58E+00	3.19E+01	6.63E-01	3.14E-02	1.48E+01	6.10E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	8.05E+01	0.00E+00	-5.41E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.57E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	6.86E+02	1.43E-03	-2.83E+00	3.19E+01	6.63E-01	3.14E-02	1.48E+01	-7.51E+01	-1.05E+02
Use of secondary material	SM	kg	1.27E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	7.98E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.56E-01	1.70E-07	5.86E-05	3.67E-03	1.14E-04	3.74E-06	2.11E-03	3.46E-04	-2.92E-03

Table 39 | Waste generated per m² of BondorPanel® 0.4mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.24E-05	1.87E-09	-1.38E-05	1.08E-05	4.50E-07	4.12E-08	7.98E-06	8.70E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	7.93E-01	9.84E-06	5.12E-01	6.54E-02	8.58E-03	2.16E-04	2.33E-01	2.51E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.61E-03	7.46E-12	2.10E-05	6.94E-06	4.39E-09	1.64E-10	8.68E-08	3.43E-06	-9.80E-08

Table 40 | Output flows per m² of BondorPanel® 0.4mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 41 | Additional environmental impacts per m² of BondorPanel® 0.4mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.38E+01	9.81E-05	6.40E-02	1.68E+00	1.37E-01	2.16E-03	2.28E+00	1.70E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.36E-06	5.19E-12	-3.04E-09	8.57E-08	8.88E-09	1.14E-10	1.33E-07	4.05E-09	-5.01E-07
Ionising radiation – human health	IRP	kBq U-235 eq	2.66E-01	5.39E-08	2.49E-02	4.85E-02	3.05E-05	1.19E-06	6.05E-04	2.76E-03	-6.80E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.70E+02	7.66E-04	-1.14E+00	7.90E+00	3.79E-01	1.69E-02	7.00E+00	1.07E+00	-1.53E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.95E-08	4.85E-14	9.85E-09	7.57E-10	4.32E-11	1.07E-12	6.86E-10	2.88E-11	-2.53E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	8.18E+01	4.90E-04	-1.67E+00	5.34E+00	3.50E-01	1.08E-02	5.93E+00	3.32E-01	-1.51E+02
Soil quality	SQP	Pt	5.33E+01	3.71E-04	1.24E+00	6.96E-01	4.26E-01	8.15E-03	6.31E+00	1.31E+00	-1.28E+01

Table 42 | Environmental impacts per m² of BondorPanel® 0.4mm steel – 125mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.42E+01	9.83E-05	1.66E-01	1.72E+00	1.38E-01	2.16E-03	2.29E+00	1.93E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.77E-07	1.21E-11	3.59E-08	4.29E-08	2.33E-10	2.65E-10	1.84E-08	5.88E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.37E-01	4.19E-07	2.93E-04	7.45E-03	2.11E-04	9.21E-06	3.57E-03	1.62E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.70E-02	9.56E-08	-6.37E-05	1.16E-03	7.30E-05	2.10E-06	1.18E-03	1.72E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.02E-02	2.82E-08	1.81E-05	4.60E-04	4.31E-06	6.19E-07	8.36E-05	3.42E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	8.91E-04	3.63E-10	2.94E-06	4.06E-06	1.81E-07	7.98E-09	3.13E-06	7.79E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.86E+02	1.43E-03	2.72E+00	2.91E+01	1.55E+00	3.15E-02	2.74E+01	5.75E-01	-1.57E+02

Table 43 | Environmental impacts per m² of BondorPanel® 0.4mm steel – 125mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.84E-08	2.25E-15	7.07E-12	3.51E-11	5.02E-12	4.94E-14	7.64E-11	1.77E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.25E-09	5.05E-16	1.53E-12	8.43E-13	8.52E-13	1.11E-14	1.24E-11	2.79E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.28E+01	2.63E-04	5.00E-01	4.93E-01	1.23E-02	5.78E-03	4.01E-01	4.42E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	2.66E-01	5.40E-08	2.49E-02	4.85E-02	3.06E-05	1.19E-06	6.06E-04	2.76E-03	-6.80E-04
Particulate Matter	PM	kg PM _{2.5} -Equiv.	1.53E-02	9.81E-08	1.41E-05	9.55E-04	7.30E-05	2.16E-06	1.17E-03	4.98E-05	-8.81E-03
Resource depletion – water	RDW	m ³	2.46E-01	4.81E-07	6.74E-04	8.67E-03	9.97E-04	1.06E-05	1.51E-02	7.91E-04	-7.96E-03

BondorPanel® 0.4mm steel – 150mm

Table 44 | Environmental impacts per m² of BondorPanel® 0.4mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.73E+01	2.50E-04	1.52E-02	1.78E+00	1.39E-01	2.26E-03	2.31E+00	2.65E-01	-8.03E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-4.42E-01	1.07E-08	2.37E-01	2.94E-03	4.85E-04	9.70E-08	7.06E-03	1.76E-04	3.59E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	7.79E-03	2.08E-09	6.93E-05	5.63E-06	2.87E-08	1.88E-08	8.74E-07	2.99E-05	-8.38E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.69E+01	2.50E-04	2.52E-01	1.78E+00	1.40E-01	2.26E-03	2.32E+00	2.65E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.54E-07	3.81E-11	4.12E-08	5.04E-08	2.66E-10	3.45E-10	2.26E-08	8.51E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.83E-01	1.98E-06	1.20E-03	9.09E-03	1.02E-03	1.79E-05	1.52E-02	2.45E-04	-7.33E-02
Eutrophication – freshwater	EP – F	kg P eq.	9.72E-04	8.67E-09	-6.31E-05	1.68E-04	5.50E-06	7.84E-08	8.79E-05	4.23E-06	-1.81E-04
Eutrophication – marine	EP – M	kg N eq.	4.03E-02	5.66E-07	1.72E-04	1.55E-03	1.51E-04	5.11E-06	2.44E-03	4.78E-03	-1.47E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.35E-01	6.20E-06	1.92E-03	1.32E-02	1.62E-03	5.60E-05	2.63E-02	8.91E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.43E-01	1.53E-06	2.10E-04	3.85E-03	4.26E-04	1.38E-05	6.82E-03	3.11E-04	-3.98E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	8.93E-04	9.08E-10	3.25E-06	4.06E-06	1.81E-07	8.20E-09	3.13E-06	9.05E-08	-2.35E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	7.34E+02	3.57E-03	-3.79E+00	3.19E+01	6.63E-01	3.22E-02	1.48E+01	7.03E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	1.29E+01	7.43E-05	1.19E+00	3.47E+01	2.28E-02	6.72E-04	1.35E+00	2.84E-02	-5.69E+01

Table 45 | Resource use per m² of BondorPanel® 0.4mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.22E+01	3.62E-05	5.20E-01	3.26E-01	1.20E-01	3.27E-04	1.70E+00	1.25E-02	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	2.22E+01	3.62E-05	5.20E-01	3.26E-01	1.20E-01	3.27E-04	1.70E+00	1.25E-02	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.40E+02	3.57E-03	2.35E+00	3.19E+01	6.63E-01	3.22E-02	1.48E+01	7.03E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	9.50E+01	0.00E+00	-6.89E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.93E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	7.35E+02	3.57E-03	-4.55E+00	3.19E+01	6.63E-01	3.22E-02	1.48E+01	-8.86E+01	-1.05E+02
Use of secondary material	SM	kg	1.27E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	7.98E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.72E-01	4.25E-07	-7.42E-05	3.67E-03	1.14E-04	3.84E-06	2.11E-03	3.98E-04	-2.92E-03

Table 46 | Waste generated per m² of BondorPanel® 0.4mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.76E-05	4.69E-09	-1.89E-05	1.08E-05	4.50E-07	4.24E-08	7.98E-06	1.00E-06	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	8.53E-01	2.46E-05	6.32E-01	6.54E-02	8.58E-03	2.23E-04	2.33E-01	2.85E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.62E-03	1.87E-11	2.25E-05	6.94E-06	4.39E-09	1.69E-10	8.68E-08	3.95E-06	-9.80E-08

Table 47 | Output flows per m² of BondorPanel® 0.4mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 48 | Additional environmental impacts per m² of BondorPanel® 0.4mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.52E+01	2.45E-04	2.45E-02	1.68E+00	1.37E-01	2.22E-03	2.28E+00	2.00E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.42E-06	1.30E-11	-7.74E-09	8.57E-08	8.88E-09	1.17E-10	1.33E-07	4.66E-09	-5.01E-07
Ionising radiation – human health	IRP	kBq U-235 eq	2.77E-01	1.35E-07	2.84E-02	4.85E-02	3.05E-05	1.22E-06	6.05E-04	3.18E-03	-6.80E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.84E+02	1.92E-03	-2.31E+00	7.90E+00	3.79E-01	1.73E-02	7.00E+00	1.25E+00	-1.53E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	3.29E-08	1.21E-13	1.20E-08	7.57E-10	4.32E-11	1.10E-12	6.86E-10	3.35E-11	-2.53E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	9.45E+01	1.22E-03	-2.82E+00	5.34E+00	3.50E-01	1.11E-02	5.93E+00	3.84E-01	-1.51E+02
Soil quality	SQP	Pt	6.29E+01	9.27E-04	1.32E+00	6.96E-01	4.26E-01	8.38E-03	6.31E+00	1.52E+00	-1.28E+01

Table 49 | Environmental impacts per m² of BondorPanel® 0.4mm steel – 150mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.56E+01	2.46E-04	1.54E-01	1.72E+00	1.38E-01	2.22E-03	2.29E+00	2.27E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.25E-07	3.02E-11	3.53E-08	4.29E-08	2.33E-10	2.73E-10	1.84E-08	6.75E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.42E-01	1.05E-06	1.93E-04	7.45E-03	2.11E-04	9.47E-06	3.57E-03	1.86E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.77E-02	2.39E-07	-1.26E-04	1.16E-03	7.30E-05	2.16E-06	1.18E-03	2.03E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.05E-02	7.04E-08	-3.22E-06	4.60E-04	4.31E-06	6.36E-07	8.36E-05	4.01E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	8.93E-04	9.08E-10	3.25E-06	4.06E-06	1.81E-07	8.20E-09	3.13E-06	9.06E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.18E+02	3.58E-03	2.32E+00	2.91E+01	1.55E+00	3.24E-02	2.74E+01	6.63E-01	-1.57E+02

Table 50 | Environmental impacts per m² of BondorPanel® 0.4mm steel – 150mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.94E-08	5.62E-15	6.01E-12	3.51E-11	5.02E-12	5.08E-14	7.64E-11	2.04E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.25E-09	1.26E-15	1.63E-12	8.43E-13	8.52E-13	1.14E-14	1.24E-11	3.22E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.38E+01	6.57E-04	5.09E-01	4.93E-01	1.23E-02	5.94E-03	4.01E-01	5.01E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	2.77E-01	1.35E-07	2.84E-02	4.85E-02	3.06E-05	1.22E-06	6.06E-04	3.19E-03	-6.80E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.61E-02	2.45E-07	-4.73E-05	9.55E-04	7.30E-05	2.22E-06	1.17E-03	5.76E-05	-8.81E-03
Resource depletion – water	RDW	m ³	2.82E-01	1.20E-06	3.27E-04	8.67E-03	9.97E-04	1.09E-05	1.51E-02	9.09E-04	-7.96E-03

BondorPanel® 0.4mm steel – 200mm

Table 51 | Environmental impacts per m² of BondorPanel® 0.4mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	5.03E+01	1.56E-04	-8.05E-02	1.78E+00	1.20E-01	2.39E-03	2.31E+00	3.44E-01	-8.03E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-6.46E-01	6.71E-09	3.28E-01	2.94E-03	2.51E-04	1.02E-07	7.06E-03	2.28E-04	3.59E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	8.34E-03	1.30E-09	1.23E-04	5.63E-06	4.79E-05	1.98E-08	8.74E-07	3.80E-05	-8.38E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.97E+01	1.56E-04	2.48E-01	1.78E+00	1.20E-01	2.39E-03	2.32E+00	3.45E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	6.49E-07	2.38E-11	2.37E-07	5.04E-08	1.96E-07	3.63E-10	2.26E-08	1.07E-08	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.94E-01	1.23E-06	1.48E-03	9.09E-03	1.43E-03	1.88E-05	1.52E-02	3.10E-04	-7.33E-02
Eutrophication – freshwater	EP – F	kg P eq.	1.16E-03	5.42E-09	-9.37E-05	1.68E-04	8.97E-06	8.27E-08	8.79E-05	5.43E-06	-1.81E-04
Eutrophication – marine	EP – M	kg N eq.	4.21E-02	3.53E-07	1.80E-04	1.55E-03	1.83E-04	5.39E-06	2.44E-03	6.24E-03	-1.47E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.55E-01	3.87E-06	2.07E-03	1.32E-02	2.01E-03	5.91E-05	2.63E-02	1.13E-03	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.52E-01	9.56E-07	3.57E-04	3.85E-03	8.22E-04	1.46E-05	6.82E-03	3.96E-04	-3.98E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	8.97E-04	5.67E-10	3.79E-06	4.06E-06	1.52E-07	8.65E-09	3.13E-06	1.16E-07	-2.35E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	8.31E+02	2.23E-03	5.66E+00	3.19E+01	1.29E+01	3.40E-02	1.48E+01	8.88E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	1.53E+01	4.64E-05	1.62E+00	3.47E+01	5.79E-03	7.08E-04	1.35E+00	3.58E-02	-5.69E+01

Table 52 | Resource use per m² of BondorPanel® 0.4mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.53E+01	2.26E-05	5.40E-01	3.26E-01	3.12E-02	3.45E-04	1.70E+00	1.60E-02	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy – total	PERT	MJ	2.53E+01	2.26E-05	5.40E-01	3.26E-01	3.12E-02	3.45E-04	1.70E+00	1.60E-02	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	7.08E+02	2.23E-03	1.42E+01	3.19E+01	1.29E+01	3.40E-02	1.48E+01	8.88E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.24E+02	0.00E+00	-9.56E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.16E+02	0.00E+00
Primary non renewable energy – total	PENRT	MJ	8.32E+02	2.23E-03	4.62E+00	3.19E+01	1.29E+01	3.40E-02	1.48E+01	-1.16E+02	-1.05E+02
Use of secondary material	SM	kg	1.27E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	7.98E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	2.03E-01	2.65E-07	-3.47E-04	3.67E-03	7.94E-05	4.05E-06	2.11E-03	5.01E-04	-2.92E-03

Table 53 | Waste generated per m² of BondorPanel® 0.4mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	7.70E-05	2.93E-09	4.09E-06	1.08E-05	3.28E-05	4.47E-08	7.98E-06	1.26E-06	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	9.63E-01	1.54E-05	8.45E-01	6.54E-02	6.11E-03	2.35E-04	2.33E-01	3.54E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.64E-03	1.17E-11	1.12E-04	6.94E-06	8.69E-05	1.78E-10	8.68E-08	4.97E-06	-9.80E-08

Table 54 | Output flows per m² of BondorPanel® 0.4mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 55 | Additional environmental impacts per m² of BondorPanel® 0.4mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.79E+01	1.53E-04	-6.81E-02	1.68E+00	1.15E-01	2.34E-03	2.28E+00	2.60E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.55E-06	8.10E-12	-1.76E-08	8.57E-08	7.51E-09	1.24E-10	1.33E-07	5.90E-09	-5.01E-07
Ionising radiation – human health	IRP	kBq U-235 eq	2.97E-01	8.43E-08	8.90E-02	4.85E-02	5.43E-02	1.29E-06	6.05E-04	4.03E-03	-6.80E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	2.10E+02	1.20E-03	1.53E+00	7.90E+00	6.33E+00	1.83E-02	7.00E+00	1.61E+00	-1.53E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	3.92E-08	7.57E-14	1.60E-08	7.57E-10	8.35E-11	1.16E-12	6.86E-10	4.31E-11	-2.53E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	1.19E+02	7.65E-04	-1.69E+00	5.34E+00	3.54E+00	1.17E-02	5.93E+00	4.90E-01	-1.51E+02
Soil quality	SQP	Pt	8.02E+01	5.79E-04	2.52E+00	6.96E-01	1.49E+00	8.84E-03	6.31E+00	1.92E+00	-1.28E+01

Table 56 | Environmental impacts per m² of BondorPanel® 0.4mm steel – 200mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.85E+01	1.54E-04	1.12E-01	1.72E+00	1.17E-01	2.34E-03	2.29E+00	2.96E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	6.15E-07	1.88E-11	1.89E-07	4.29E-08	1.55E-07	2.87E-10	1.84E-08	8.49E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.51E-01	6.54E-07	1.03E-03	7.45E-03	1.22E-03	9.98E-06	3.57E-03	2.36E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.90E-02	1.49E-07	-2.19E-04	1.16E-03	9.16E-05	2.28E-06	1.18E-03	2.65E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.12E-02	4.40E-08	4.10E-06	4.60E-04	4.99E-05	6.71E-07	8.36E-05	5.21E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	8.97E-04	5.67E-10	3.79E-06	4.06E-06	1.52E-07	8.65E-09	3.13E-06	1.16E-07	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.80E+02	2.24E-03	1.19E+01	2.91E+01	1.19E+01	3.41E-02	2.74E+01	8.37E-01	-1.57E+02

Table 57 | Environmental impacts per m² of BondorPanel® 0.4mm steel – 200mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.13E-08	3.51E-15	4.14E-12	3.51E-11	5.05E-12	5.35E-14	7.64E-11	2.60E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.25E-09	7.89E-16	1.53E-12	8.43E-13	5.62E-13	1.20E-14	1.24E-11	4.07E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.57E+01	4.10E-04	2.63E+00	4.93E-01	2.11E+00	6.26E-03	4.01E-01	6.18E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	2.97E-01	8.43E-08	8.90E-02	4.85E-02	5.43E-02	1.29E-06	6.06E-04	4.03E-03	-6.80E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.76E-02	1.53E-07	-5.79E-05	9.55E-04	1.72E-04	2.34E-06	1.17E-03	7.30E-05	-8.81E-03
Resource depletion – water	RDW	m ³	3.54E-01	7.52E-07	-1.10E-03	8.67E-03	1.91E-04	1.15E-05	1.51E-02	1.15E-03	-7.96E-03

BondorPanel® 0.4mm steel – 250mm

Table 58 | Environmental impacts per m² of BondorPanel® 0.4mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	5.33E+01	1.32E-04	-1.47E-01	1.78E+00	1.20E-01	2.51E-03	2.31E+00	4.24E-01	-8.03E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-8.21E-01	5.65E-09	4.08E-01	2.94E-03	2.51E-04	1.08E-07	7.06E-03	2.81E-04	3.59E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	8.82E-03	1.09E-09	1.29E-04	5.63E-06	4.79E-05	2.08E-08	8.74E-07	4.62E-05	-8.38E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	5.25E+01	1.32E-04	2.61E-01	1.78E+00	1.20E-01	2.51E-03	2.32E+00	4.24E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	7.37E-07	2.01E-11	2.36E-07	5.04E-08	1.96E-07	3.82E-10	2.26E-08	1.29E-08	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	2.05E-01	1.04E-06	1.36E-03	9.09E-03	1.43E-03	1.98E-05	1.52E-02	3.76E-04	-7.33E-02
Eutrophication – freshwater	EP – F	kg P eq.	1.34E-03	4.56E-09	-1.24E-04	1.68E-04	8.97E-06	8.69E-08	8.79E-05	6.63E-06	-1.81E-04
Eutrophication – marine	EP – M	kg N eq.	4.40E-02	2.97E-07	1.59E-04	1.55E-03	1.83E-04	5.67E-06	2.44E-03	7.70E-03	-1.47E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.75E-01	3.26E-06	1.86E-03	1.32E-02	2.01E-03	6.21E-05	2.63E-02	1.36E-03	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.62E-01	8.05E-07	1.38E-04	3.85E-03	8.22E-04	1.53E-05	6.82E-03	4.81E-04	-3.98E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	9.01E-04	4.77E-10	4.28E-06	4.06E-06	1.52E-07	9.10E-09	3.13E-06	1.41E-07	-2.35E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	9.27E+02	1.88E-03	3.21E+00	3.19E+01	1.29E+01	3.58E-02	1.48E+01	1.07E+00	-1.05E+02
Water Depletion Potential	WDP	m ³	1.76E+01	3.91E-05	2.00E+00	3.47E+01	5.79E-03	7.45E-04	1.35E+00	4.32E-02	-5.69E+01

Table 59 | Resource use per m² of BondorPanel® 0.4mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.82E+01	1.90E-05	6.35E-01	3.26E-01	3.12E-02	3.63E-04	1.70E+00	1.96E-02	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy – total	PERT	MJ	2.82E+01	1.90E-05	6.35E-01	3.26E-01	3.12E-02	3.63E-04	1.70E+00	1.96E-02	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	7.76E+02	1.88E-03	1.38E+01	3.19E+01	1.29E+01	3.58E-02	1.48E+01	1.07E+00	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.52E+02	0.00E+00	-1.19E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.44E+02	0.00E+00
Primary non renewable energy – total	PENRT	MJ	9.28E+02	1.88E-03	1.92E+00	3.19E+01	1.29E+01	3.58E-02	1.48E+01	-1.43E+02	-1.05E+02
Use of secondary material	SM	kg	1.27E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	7.98E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	2.34E-01	2.23E-07	-5.56E-04	3.67E-03	7.94E-05	4.26E-06	2.11E-03	6.05E-04	-2.92E-03

Table 60 | Waste generated per m² of BondorPanel® 0.4mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	8.52E-05	2.46E-09	-4.05E-06	1.08E-05	3.28E-05	4.70E-08	7.98E-06	1.53E-06	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	1.06E+00	1.29E-05	1.03E+00	6.54E-02	6.11E-03	2.47E-04	2.33E-01	4.22E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.65E-03	9.82E-12	1.15E-04	6.94E-06	8.69E-05	1.87E-10	8.68E-08	5.99E-06	-9.80E-08

Table 61 | Output flows per m² of BondorPanel® 0.4mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 62 | Additional environmental impacts per m² of BondorPanel® 0.4mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	5.06E+01	1.29E-04	-1.30E-01	1.68E+00	1.15E-01	2.46E-03	2.28E+00	3.20E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.68E-06	6.82E-12	-2.50E-08	8.57E-08	7.51E-09	1.30E-10	1.33E-07	7.13E-09	-5.01E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.15E-01	7.10E-08	9.45E-02	4.85E-02	5.43E-02	1.35E-06	6.05E-04	4.88E-03	-6.80E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	2.34E+02	1.01E-03	-3.20E-01	7.90E+00	6.33E+00	1.92E-02	7.00E+00	1.98E+00	-1.53E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	4.48E-08	6.38E-14	1.95E-08	7.57E-10	8.35E-11	1.22E-12	6.86E-10	5.27E-11	-2.53E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	1.41E+02	6.44E-04	-3.50E+00	5.34E+00	3.54E+00	1.23E-02	5.93E+00	5.96E-01	-1.51E+02
Soil quality	SQP	Pt	9.53E+01	4.88E-04	2.64E+00	6.96E-01	1.49E+00	9.29E-03	6.31E+00	2.32E+00	-1.28E+01

Table 63 | Environmental impacts per m² of BondorPanel® 0.4mm steel – 250mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	5.13E+01	1.29E-04	9.36E-02	1.72E+00	1.17E-01	2.46E-03	2.29E+00	3.64E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	6.99E-07	1.59E-11	1.88E-07	4.29E-08	1.55E-07	3.02E-10	1.84E-08	1.02E-08	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.60E-01	5.51E-07	8.68E-04	7.45E-03	1.22E-03	1.05E-05	3.57E-03	2.86E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.02E-02	1.26E-07	-3.17E-04	1.16E-03	9.16E-05	2.40E-06	1.18E-03	3.27E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.17E-02	3.70E-08	-2.94E-05	4.60E-04	4.99E-05	7.06E-07	8.36E-05	6.40E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	9.01E-04	4.77E-10	4.28E-06	4.06E-06	1.52E-07	9.10E-09	3.13E-06	1.41E-07	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	7.42E+02	1.88E-03	1.13E+01	2.91E+01	1.19E+01	3.59E-02	2.74E+01	1.01E+00	-1.57E+02

Table 64 | Environmental impacts per m² of BondorPanel® 0.4mm steel – 250mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.29E-08	2.95E-15	2.47E-12	3.51E-11	5.05E-12	5.63E-14	7.64E-11	3.15E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.26E-09	6.64E-16	1.69E-12	8.43E-13	5.62E-13	1.27E-14	1.24E-11	4.92E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.73E+01	3.46E-04	2.64E+00	4.93E-01	2.11E+00	6.58E-03	4.01E-01	7.35E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.15E-01	7.10E-08	9.45E-02	4.85E-02	5.43E-02	1.35E-06	6.06E-04	4.88E-03	-6.80E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.90E-02	1.29E-07	-1.54E-04	9.55E-04	1.72E-04	2.46E-06	1.17E-03	8.85E-05	-8.81E-03
Resource depletion – water	RDW	m ³	4.25E-01	6.33E-07	-1.65E-03	8.67E-03	1.91E-04	1.21E-05	1.51E-02	1.38E-03	-7.96E-03

BondorPanel® 0.6mm steel – 50mm

Table 65 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	3.22E+01	2.15E-04	1.45E-01	1.78E+00	1.39E-01	1.42E-03	1.57E+00	1.05E-01	-5.45E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-1.01E-01	9.20E-09	8.15E-02	2.94E-03	4.85E-04	6.10E-08	4.80E-03	7.03E-05	2.43E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	6.17E-03	1.78E-09	5.90E-05	5.63E-06	2.87E-08	1.18E-08	5.93E-07	1.26E-05	-5.69E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	3.21E+01	2.15E-04	2.27E-01	1.78E+00	1.40E-01	1.42E-03	1.58E+00	1.05E-01	-5.45E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	3.22E-07	3.27E-11	4.20E-08	5.04E-08	2.66E-10	2.16E-10	1.53E-08	3.73E-09	-1.10E-08
Acidification potential	AP	mol H ⁺ eq.	1.28E-01	1.69E-06	1.43E-03	9.09E-03	1.02E-03	1.12E-05	1.03E-02	1.05E-04	-4.98E-02
Eutrophication – freshwater	EP – F	kg P eq.	6.10E-04	7.43E-09	-4.74E-06	1.68E-04	5.50E-06	4.92E-08	5.97E-05	1.75E-06	-1.23E-04
Eutrophication – marine	EP – M	kg N eq.	2.87E-02	4.85E-07	2.13E-04	1.55E-03	1.51E-04	3.21E-06	1.66E-03	1.89E-03	-9.99E-03
Eutrophication – terrestrial	EP – T	mol N eq.	3.08E-01	5.31E-06	2.32E-03	1.32E-02	1.62E-03	3.52E-05	1.79E-02	3.85E-04	-1.14E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	9.77E-02	1.31E-06	6.35E-04	3.85E-03	4.26E-04	8.69E-06	4.63E-03	1.32E-04	-2.70E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	8.83E-04	7.78E-10	2.30E-06	4.06E-06	1.81E-07	5.15E-09	2.13E-06	3.78E-08	-1.59E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	4.42E+02	3.06E-03	9.75E-01	3.19E+01	6.63E-01	2.03E-02	1.01E+01	3.05E-01	-7.15E+01
Water Depletion Potential	WDP	m ³	7.70E+00	6.37E-05	4.43E-01	3.47E+01	2.28E-02	4.22E-04	9.15E-01	1.23E-02	-3.86E+01

Table 66 | Resource use per m² of BondorPanel® 0.6mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.53E+01	3.10E-05	3.36E-01	3.26E-01	1.20E-01	2.06E-04	1.15E+00	5.14E-03	-7.89E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy – total	PERT	MJ	1.53E+01	3.10E-05	3.36E-01	3.26E-01	1.20E-01	2.06E-04	1.15E+00	5.14E-03	-7.89E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.05E+02	3.06E-03	3.06E+00	3.19E+01	6.63E-01	2.03E-02	1.01E+01	3.05E-01	-7.15E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	3.78E+01	0.00E+00	-2.34E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.52E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	4.43E+02	3.06E-03	7.19E-01	3.19E+01	6.63E-01	2.03E-02	1.01E+01	-3.49E+01	-7.15E+01
Use of secondary material	SM	kg	8.10E-01	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	7.97E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.02E-01	3.64E-07	3.33E-04	3.67E-03	1.14E-04	2.41E-06	1.43E-03	1.73E-04	-1.98E-03

Table 67 | Waste generated per m² of BondorPanel® 0.6mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	4.45E-05	4.02E-09	-3.09E-06	1.08E-05	4.50E-07	2.66E-08	5.42E-06	4.34E-07	-6.46E-06
Non-hazardous waste disposed	NHWD	kg	5.70E-01	2.11E-05	2.54E-01	6.54E-02	8.58E-03	1.40E-04	1.58E-01	1.30E+00	-8.17E-01
Radioactive waste disposed/stored	RWD	kg	1.49E-03	1.60E-11	1.78E-05	6.94E-06	4.39E-09	1.06E-10	5.90E-08	1.72E-06	-6.66E-08

Table 68 | Output flows per m² of BondorPanel® 0.6mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 69 | Additional environmental impacts per m² of BondorPanel® 0.6mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.09E+01	2.10E-04	1.46E-01	1.68E+00	1.37E-01	1.39E-03	1.55E+00	7.98E-02	-4.70E+00
Particulate matter	PM	disease incidence	1.75E-06	1.11E-11	6.68E-09	8.57E-08	8.88E-09	7.36E-11	9.03E-08	2.01E-09	-3.40E-07
Ionising radiation – human health	IRP	kBq U-235 eq	2.27E-01	1.16E-07	1.77E-02	4.85E-02	3.05E-05	7.66E-07	4.11E-04	1.37E-03	-4.61E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.33E+02	1.64E-03	1.28E+00	7.90E+00	3.79E-01	1.09E-02	4.75E+00	5.09E-01	-1.04E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.18E-08	1.04E-13	5.33E-09	7.57E-10	4.32E-11	6.88E-13	4.66E-10	1.38E-11	-1.72E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	4.78E+01	1.05E-03	7.00E-01	5.34E+00	3.50E-01	6.95E-03	4.03E+00	1.62E-01	-1.02E+02
Soil quality	SQP	Pt	3.01E+01	7.95E-04	1.09E+00	6.96E-01	4.26E-01	5.26E-03	4.28E+00	6.52E-01	-8.66E+00

Table 70 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 50mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.11E+01	2.11E-04	1.90E-01	1.72E+00	1.38E-01	1.40E-03	1.55E+00	9.06E-02	-4.69E+00
Ozone layer depletion	ODP	kg CFC-11 eq	3.10E-07	2.58E-11	3.70E-08	4.29E-08	2.33E-10	1.71E-10	1.25E-08	2.96E-09	-8.80E-09
Acidification potential	AP	kg SO ₂ eq	9.76E-02	8.98E-07	4.99E-04	7.45E-03	2.11E-04	5.95E-06	2.43E-03	8.01E-05	-3.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.24E-02	2.05E-07	6.50E-05	1.16E-03	7.30E-05	1.36E-06	8.00E-04	8.02E-04	-4.24E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.47E-02	6.04E-08	6.21E-05	4.60E-04	4.31E-06	4.00E-07	5.68E-05	1.61E-05	-1.12E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	8.83E-04	7.78E-10	2.30E-06	4.06E-06	1.81E-07	5.15E-09	2.13E-06	3.78E-08	-1.59E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	3.96E+02	3.07E-03	3.56E+00	2.91E+01	1.55E+00	2.03E-02	1.86E+01	2.87E-01	-1.07E+02

Table 71 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 50mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.62E-08	4.81E-15	9.26E-12	3.51E-11	5.02E-12	3.19E-14	5.19E-11	8.70E-13	-2.59E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	1.08E-15	1.32E-12	8.43E-13	8.52E-13	7.17E-15	8.42E-12	1.39E-13	-6.65E-12
Land use	LU	kg C deficit eq.	8.81E+00	5.63E-04	4.80E-01	4.93E-01	1.23E-02	3.73E-03	2.72E-01	2.31E-01	-1.01E+00
Ionising radiation	IR	kBq U235 eq	2.27E-01	1.16E-07	1.77E-02	4.85E-02	3.06E-05	7.67E-07	4.11E-04	1.37E-03	-4.62E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.10E-02	2.10E-07	1.41E-04	9.55E-04	7.30E-05	1.39E-06	7.93E-04	2.46E-05	-5.98E-03
Resource depletion – water	RDW	m ³	1.36E-01	1.03E-06	1.39E-03	8.67E-03	9.97E-04	6.84E-06	1.03E-02	3.96E-04	-5.41E-03

BondorPanel® 0.6mm steel – 75mm

Table 72 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	3.36E+01	2.64E-04	1.22E-01	1.78E+00	1.39E-01	1.48E-03	1.57E+00	1.45E-01	-5.45E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-1.56E-01	1.13E-08	1.09E-01	2.94E-03	4.85E-04	6.36E-08	4.80E-03	9.66E-05	2.43E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	6.33E-03	2.19E-09	6.08E-05	5.63E-06	2.87E-08	1.23E-08	5.93E-07	1.67E-05	-5.69E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	3.34E+01	2.64E-04	2.31E-01	1.78E+00	1.40E-01	1.48E-03	1.58E+00	1.45E-01	-5.45E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	3.56E-07	4.03E-11	4.19E-08	5.04E-08	2.66E-10	2.26E-10	1.53E-08	4.83E-09	-1.10E-08
Acidification potential	AP	mol H ⁺ eq.	1.33E-01	2.09E-06	1.39E-03	9.09E-03	1.02E-03	1.17E-05	1.03E-02	1.38E-04	-4.98E-02
Eutrophication – freshwater	EP – F	kg P eq.	6.82E-04	9.16E-09	-1.50E-05	1.68E-04	5.50E-06	5.14E-08	5.97E-05	2.35E-06	-1.23E-04
Eutrophication – marine	EP – M	kg N eq.	2.95E-02	5.97E-07	2.06E-04	1.55E-03	1.51E-04	3.35E-06	1.66E-03	2.62E-03	-9.99E-03
Eutrophication – terrestrial	EP – T	mol N eq.	3.17E-01	6.55E-06	2.25E-03	1.32E-02	1.62E-03	3.67E-05	1.79E-02	5.03E-04	-1.14E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.02E-01	1.62E-06	5.61E-04	3.85E-03	4.26E-04	9.07E-06	4.63E-03	1.75E-04	-2.70E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	8.84E-04	9.58E-10	2.46E-06	4.06E-06	1.81E-07	5.38E-09	2.13E-06	5.05E-08	-1.59E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	4.89E+02	3.77E-03	1.39E-01	3.19E+01	6.63E-01	2.11E-02	1.01E+01	3.97E-01	-7.15E+01
Water Depletion Potential	WDP	m ³	8.80E+00	7.85E-05	5.74E-01	3.47E+01	2.28E-02	4.40E-04	9.15E-01	1.61E-02	-3.86E+01

Table 73 | Resource use per m² of BondorPanel® 0.6mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.63E+01	3.82E-05	3.69E-01	3.26E-01	1.20E-01	2.15E-04	1.15E+00	6.93E-03	-7.89E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	1.63E+01	3.82E-05	3.69E-01	3.26E-01	1.20E-01	2.15E-04	1.15E+00	6.93E-03	-7.89E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.38E+02	3.77E-03	2.93E+00	3.19E+01	6.63E-01	2.11E-02	1.01E+01	3.97E-01	-7.15E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	5.20E+01	0.00E+00	-3.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.89E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	4.90E+02	3.77E-03	-2.03E-01	3.19E+01	6.63E-01	2.11E-02	1.01E+01	-4.85E+01	-7.15E+01
Use of secondary material	SM	kg	8.10E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	7.97E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.17E-01	4.49E-07	2.62E-04	3.67E-03	1.14E-04	2.52E-06	1.43E-03	2.25E-04	-1.98E-03

Table 74 | Waste generated per m² of BondorPanel® 0.6mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	4.74E-05	4.95E-09	-5.87E-06	1.08E-05	4.50E-07	2.78E-08	5.42E-06	5.66E-07	-6.46E-06
Non-hazardous waste disposed	NHWD	kg	6.08E-01	2.60E-05	3.18E-01	6.54E-02	8.58E-03	1.46E-04	1.58E-01	1.64E+00	-8.17E-01
Radioactive waste disposed/stored	RWD	kg	1.50E-03	1.97E-11	1.86E-05	6.94E-06	4.39E-09	1.11E-10	5.90E-08	2.24E-06	-6.66E-08

Table 75 | Output flows per m² of BondorPanel® 0.6mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 76 | Additional environmental impacts per m² of BondorPanel® 0.6mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.22E+01	2.59E-04	1.24E-01	1.68E+00	1.37E-01	1.45E-03	1.55E+00	1.10E-01	-4.70E+00
Particulate matter	PM	disease incidence	1.81E-06	1.37E-11	4.16E-09	8.57E-08	8.88E-09	7.68E-11	9.03E-08	2.63E-09	-3.40E-07
Ionising radiation – human health	IRP	kBq U-235 eq	2.33E-01	1.42E-07	1.96E-02	4.85E-02	3.05E-05	7.99E-07	4.11E-04	1.80E-03	-4.61E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.44E+02	2.02E-03	6.53E-01	7.90E+00	3.79E-01	1.14E-02	4.75E+00	6.92E-01	-1.04E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.38E-08	1.28E-13	6.51E-09	7.57E-10	4.32E-11	7.18E-13	4.66E-10	1.86E-11	-1.72E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	5.76E+01	1.29E-03	8.30E-02	5.34E+00	3.50E-01	7.25E-03	4.03E+00	2.15E-01	-1.02E+02
Soil quality	SQP	Pt	3.53E+01	9.79E-04	1.13E+00	6.96E-01	4.26E-01	5.49E-03	4.28E+00	8.55E-01	-8.66E+00

Table 77 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 75mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.24E+01	2.60E-04	1.84E-01	1.72E+00	1.38E-01	1.46E-03	1.55E+00	1.25E-01	-4.69E+00
Ozone layer depletion	ODP	kg CFC-11 eq	3.45E-07	3.18E-11	3.67E-08	4.29E-08	2.33E-10	1.79E-10	1.25E-08	3.83E-09	-8.80E-09
Acidification potential	AP	kg SO ₂ eq	1.02E-01	1.11E-06	4.45E-04	7.45E-03	2.11E-04	6.21E-06	2.43E-03	1.05E-04	-3.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.29E-02	2.52E-07	3.15E-05	1.16E-03	7.30E-05	1.42E-06	8.00E-04	1.11E-03	-4.24E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.50E-02	7.44E-08	5.06E-05	4.60E-04	4.31E-06	4.17E-07	5.68E-05	2.21E-05	-1.12E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	8.84E-04	9.58E-10	2.46E-06	4.06E-06	1.81E-07	5.38E-09	2.13E-06	5.05E-08	-1.59E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.25E+02	3.78E-03	3.34E+00	2.91E+01	1.55E+00	2.12E-02	1.86E+01	3.74E-01	-1.07E+02

Table 78 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 75mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.67E-08	5.93E-15	8.69E-12	3.51E-11	5.02E-12	3.33E-14	5.19E-11	1.15E-12	-2.59E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	1.33E-15	1.37E-12	8.43E-13	8.52E-13	7.48E-15	8.42E-12	1.82E-13	-6.65E-12
Land use	LU	kg C deficit eq.	9.37E+00	6.94E-04	4.85E-01	4.93E-01	1.23E-02	3.89E-03	2.72E-01	2.89E-01	-1.01E+00
Ionising radiation	IR	kBq U235 eq	2.33E-01	1.43E-07	1.96E-02	4.85E-02	3.06E-05	8.00E-07	4.11E-04	1.80E-03	-4.62E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.16E-02	2.59E-07	1.08E-04	9.55E-04	7.30E-05	1.45E-06	7.93E-04	3.24E-05	-5.98E-03
Resource depletion – water	RDW	m ³	1.70E-01	1.27E-06	1.20E-03	8.67E-03	9.97E-04	7.13E-06	1.03E-02	5.15E-04	-5.41E-03

BondorPanel® 0.6mm steel – 100mm

Table 79 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	3.51E+01	2.65E-04	8.44E-02	1.78E+00	1.39E-01	1.55E-03	1.57E+00	1.85E-01	-5.45E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-2.58E-01	1.14E-08	1.54E-01	2.94E-03	4.85E-04	6.63E-08	4.80E-03	1.23E-04	2.43E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	6.61E-03	2.19E-09	6.38E-05	5.63E-06	2.87E-08	1.28E-08	5.93E-07	2.08E-05	-5.69E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	3.48E+01	2.65E-04	2.39E-01	1.78E+00	1.40E-01	1.55E-03	1.58E+00	1.85E-01	-5.45E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.04E-07	4.03E-11	4.17E-08	5.04E-08	2.66E-10	2.35E-10	1.53E-08	5.93E-09	-1.10E-08
Acidification potential	AP	mol H ⁺ eq.	1.38E-01	2.09E-06	1.32E-03	9.09E-03	1.02E-03	1.22E-05	1.03E-02	1.71E-04	-4.98E-02
Eutrophication – freshwater	EP – F	kg P eq.	7.77E-04	9.17E-09	-3.20E-05	1.68E-04	5.50E-06	5.35E-08	5.97E-05	2.95E-06	-1.23E-04
Eutrophication – marine	EP – M	kg N eq.	3.05E-02	5.98E-07	1.94E-04	1.55E-03	1.51E-04	3.49E-06	1.66E-03	3.35E-03	-9.99E-03
Eutrophication – terrestrial	EP – T	mol N eq.	3.27E-01	6.56E-06	2.13E-03	1.32E-02	1.62E-03	3.82E-05	1.79E-02	6.21E-04	-1.14E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.07E-01	1.62E-06	4.36E-04	3.85E-03	4.26E-04	9.45E-06	4.63E-03	2.17E-04	-2.70E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	8.86E-04	9.60E-10	2.74E-06	4.06E-06	1.81E-07	5.60E-09	2.13E-06	6.32E-08	-1.59E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	5.38E+02	3.77E-03	-1.25E+00	3.19E+01	6.63E-01	2.20E-02	1.01E+01	4.90E-01	-7.15E+01
Water Depletion Potential	WDP	m ³	9.99E+00	7.86E-05	7.93E-01	3.47E+01	2.28E-02	4.59E-04	9.15E-01	1.98E-02	-3.86E+01

Table 80 | Resource use per m² of BondorPanel® 0.6mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.79E+01	3.83E-05	4.22E-01	3.26E-01	1.20E-01	2.23E-04	1.15E+00	8.71E-03	-7.89E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	1.79E+01	3.83E-05	4.22E-01	3.26E-01	1.20E-01	2.23E-04	1.15E+00	8.71E-03	-7.89E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.72E+02	3.77E-03	2.73E+00	3.19E+01	6.63E-01	2.20E-02	1.01E+01	4.90E-01	-7.15E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	6.63E+01	0.00E+00	-4.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.25E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	5.38E+02	3.77E-03	-1.74E+00	3.19E+01	6.63E-01	2.20E-02	1.01E+01	-6.20E+01	-7.15E+01
Use of secondary material	SM	kg	8.10E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	7.97E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.32E-01	4.49E-07	1.43E-04	3.67E-03	1.14E-04	2.62E-06	1.43E-03	2.77E-04	-1.98E-03

Table 81 | Waste generated per m² of BondorPanel® 0.6mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	5.21E-05	4.96E-09	-1.05E-05	1.08E-05	4.50E-07	2.89E-08	5.42E-06	6.98E-07	-6.46E-06
Non-hazardous waste disposed	NHWD	kg	6.63E-01	2.60E-05	4.26E-01	6.54E-02	8.58E-03	1.52E-04	1.58E-01	1.98E+00	-8.17E-01
Radioactive waste disposed/stored	RWD	kg	1.50E-03	1.97E-11	2.00E-05	6.94E-06	4.39E-09	1.15E-10	5.90E-08	2.75E-06	-6.66E-08

Table 82 | Output flows per m² of BondorPanel® 0.6mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 83 | Additional environmental impacts per m² of BondorPanel® 0.6mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.36E+01	2.59E-04	8.89E-02	1.68E+00	1.37E-01	1.51E-03	1.55E+00	1.40E-01	-4.70E+00
Particulate matter	PM	disease incidence	1.87E-06	1.37E-11	-5.26E-11	8.57E-08	8.88E-09	8.00E-11	9.03E-08	3.25E-09	-3.40E-07
Ionising radiation – human health	IRP	kBq U-235 eq	2.43E-01	1.43E-07	2.27E-02	4.85E-02	3.05E-05	8.32E-07	4.11E-04	2.22E-03	-4.61E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.56E+02	2.03E-03	-3.98E-01	7.90E+00	3.79E-01	1.18E-02	4.75E+00	8.74E-01	-1.04E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.70E-08	1.28E-13	8.46E-09	7.57E-10	4.32E-11	7.48E-13	4.66E-10	2.34E-11	-1.72E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	6.96E+01	1.29E-03	-9.45E-01	5.34E+00	3.50E-01	7.55E-03	4.03E+00	2.68E-01	-1.02E+02
Soil quality	SQP	Pt	4.39E+01	9.81E-04	1.20E+00	6.96E-01	4.26E-01	5.72E-03	4.28E+00	1.06E+00	-8.66E+00

Table 84 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 100mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.39E+01	2.60E-04	1.73E-01	1.72E+00	1.38E-01	1.52E-03	1.55E+00	1.59E-01	-4.69E+00
Ozone layer depletion	ODP	kg CFC-11 eq	3.90E-07	3.19E-11	3.62E-08	4.29E-08	2.33E-10	1.86E-10	1.25E-08	4.70E-09	-8.80E-09
Acidification potential	AP	kg SO ₂ eq	1.06E-01	1.11E-06	3.55E-04	7.45E-03	2.11E-04	6.46E-06	2.43E-03	1.30E-04	-3.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.36E-02	2.53E-07	-2.42E-05	1.16E-03	7.30E-05	1.48E-06	8.00E-04	1.42E-03	-4.24E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.53E-02	7.45E-08	3.16E-05	4.60E-04	4.31E-06	4.35E-07	5.68E-05	2.81E-05	-1.12E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	8.86E-04	9.60E-10	2.74E-06	4.06E-06	1.81E-07	5.60E-09	2.13E-06	6.32E-08	-1.59E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.57E+02	3.79E-03	2.98E+00	2.91E+01	1.55E+00	2.21E-02	1.86E+01	4.62E-01	-1.07E+02

Table 85 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 100mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.77E-08	5.94E-15	7.74E-12	3.51E-11	5.02E-12	3.47E-14	5.19E-11	1.42E-12	-2.59E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	1.34E-15	1.46E-12	8.43E-13	8.52E-13	7.79E-15	8.42E-12	2.24E-13	-6.65E-12
Land use	LU	kg C deficit eq.	1.03E+01	6.95E-04	4.93E-01	4.93E-01	1.23E-02	4.05E-03	2.72E-01	3.48E-01	-1.01E+00
Ionising radiation	IR	kBq U235 eq	2.43E-01	1.43E-07	2.27E-02	4.85E-02	3.06E-05	8.33E-07	4.11E-04	2.22E-03	-4.62E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.23E-02	2.59E-07	5.29E-05	9.55E-04	7.30E-05	1.51E-06	7.93E-04	4.01E-05	-5.98E-03
Resource depletion – water	RDW	m ³	2.06E-01	1.27E-06	8.94E-04	8.67E-03	9.97E-04	7.43E-06	1.03E-02	6.33E-04	-5.41E-03

BondorPanel® 0.6mm steel – 125mm

Table 86 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	3.65E+01	1.00E-04	5.76E-02	1.78E+00	1.39E-01	1.61E-03	1.57E+00	2.24E-01	-5.45E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-3.26E-01	4.29E-09	1.86E-01	2.94E-03	4.85E-04	6.88E-08	4.80E-03	1.48E-04	2.43E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	6.80E-03	8.30E-10	6.59E-05	5.63E-06	2.87E-08	1.33E-08	5.93E-07	2.48E-05	-5.69E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	3.62E+01	1.00E-04	2.44E-01	1.78E+00	1.40E-01	1.61E-03	1.58E+00	2.24E-01	-5.45E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.42E-07	1.52E-11	4.15E-08	5.04E-08	2.66E-10	2.44E-10	1.53E-08	6.99E-09	-1.10E-08
Acidification potential	AP	mol H ⁺ eq.	1.44E-01	7.90E-07	1.27E-03	9.09E-03	1.02E-03	1.27E-05	1.03E-02	2.02E-04	-4.98E-02
Eutrophication – freshwater	EP – F	kg P eq.	8.55E-04	3.47E-09	-4.41E-05	1.68E-04	5.50E-06	5.56E-08	5.97E-05	3.54E-06	-1.23E-04
Eutrophication – marine	EP – M	kg N eq.	3.13E-02	2.26E-07	1.85E-04	1.55E-03	1.51E-04	3.62E-06	1.66E-03	4.05E-03	-9.99E-03
Eutrophication – terrestrial	EP – T	mol N eq.	3.36E-01	2.48E-06	2.05E-03	1.32E-02	1.62E-03	3.97E-05	1.79E-02	7.36E-04	-1.14E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.11E-01	6.12E-07	3.49E-04	3.85E-03	4.26E-04	9.81E-06	4.63E-03	2.58E-04	-2.70E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	8.87E-04	3.63E-10	2.94E-06	4.06E-06	1.81E-07	5.82E-09	2.13E-06	7.55E-08	-1.59E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	5.85E+02	1.43E-03	-2.24E+00	3.19E+01	6.63E-01	2.29E-02	1.01E+01	5.79E-01	-7.15E+01
Water Depletion Potential	WDP	m ³	1.11E+01	2.97E-05	9.51E-01	3.47E+01	2.28E-02	4.76E-04	9.15E-01	2.34E-02	-3.86E+01

Table 87 | Resource use per m² of BondorPanel® 0.6mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.91E+01	1.45E-05	4.60E-01	3.26E-01	1.20E-01	2.32E-04	1.15E+00	1.04E-02	-7.89E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	1.91E+01	1.45E-05	4.60E-01	3.26E-01	1.20E-01	2.32E-04	1.15E+00	1.04E-02	-7.89E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.05E+02	1.43E-03	2.58E+00	3.19E+01	6.63E-01	2.29E-02	1.01E+01	5.79E-01	-7.15E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	8.05E+01	0.00E+00	-5.41E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.57E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	5.86E+02	1.43E-03	-2.83E+00	3.19E+01	6.63E-01	2.29E-02	1.01E+01	-7.51E+01	-7.15E+01
Use of secondary material	SM	kg	8.10E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	7.97E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.47E-01	1.70E-07	5.86E-05	3.67E-03	1.14E-04	2.72E-06	1.43E-03	3.27E-04	-1.98E-03

Table 88 | Waste generated per m² of BondorPanel® 0.6mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	5.55E-05	1.87E-09	-1.38E-05	1.08E-05	4.50E-07	3.00E-08	5.42E-06	8.25E-07	-6.46E-06
Non-hazardous waste disposed	NHWD	kg	7.05E-01	9.84E-06	5.12E-01	6.54E-02	8.58E-03	1.58E-04	1.58E-01	2.32E+00	-8.17E-01
Radioactive waste disposed/stored	RWD	kg	1.51E-03	7.46E-12	2.10E-05	6.94E-06	4.39E-09	1.20E-10	5.90E-08	3.24E-06	-6.66E-08

Table 89 | Output flows per m² of BondorPanel® 0.6mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 90 | Additional environmental impacts per m² of BondorPanel® 0.6mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.49E+01	9.81E-05	6.40E-02	1.68E+00	1.37E-01	1.57E-03	1.55E+00	1.69E-01	-4.70E+00
Particulate matter	PM	disease incidence	1.93E-06	5.19E-12	-3.04E-09	8.57E-08	8.88E-09	8.31E-11	9.03E-08	3.85E-09	-3.40E-07
Ionising radiation – human health	IRP	kBq U-235 eq	2.50E-01	5.39E-08	2.49E-02	4.85E-02	3.05E-05	8.65E-07	4.11E-04	2.63E-03	-4.61E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.67E+02	7.66E-04	-1.14E+00	7.90E+00	3.79E-01	1.23E-02	4.75E+00	1.05E+00	-1.04E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.93E-08	4.85E-14	9.85E-09	7.57E-10	4.32E-11	7.77E-13	4.66E-10	2.81E-11	-1.72E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	8.00E+01	4.90E-04	-1.67E+00	5.34E+00	3.50E-01	7.85E-03	4.03E+00	3.20E-01	-1.02E+02
Soil quality	SQP	Pt	5.00E+01	3.71E-04	1.24E+00	6.96E-01	4.26E-01	5.94E-03	4.28E+00	1.25E+00	-8.66E+00

Table 91 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 125mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.52E+01	9.83E-05	1.66E-01	1.72E+00	1.38E-01	1.58E-03	1.55E+00	1.92E-01	-4.69E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.28E-07	1.21E-11	3.59E-08	4.29E-08	2.33E-10	1.93E-10	1.25E-08	5.54E-09	-8.80E-09
Acidification potential	AP	kg SO ₂ eq	1.11E-01	4.19E-07	2.93E-04	7.45E-03	2.11E-04	6.71E-06	2.43E-03	1.54E-04	-3.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.41E-02	9.56E-08	-6.37E-05	1.16E-03	7.30E-05	1.53E-06	8.00E-04	1.72E-03	-4.24E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.56E-02	2.82E-08	1.81E-05	4.60E-04	4.31E-06	4.51E-07	5.68E-05	3.39E-05	-1.12E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	8.87E-04	3.63E-10	2.94E-06	4.06E-06	1.81E-07	5.82E-09	2.13E-06	7.55E-08	-1.59E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.87E+02	1.43E-03	2.72E+00	2.91E+01	1.55E+00	2.29E-02	1.86E+01	5.47E-01	-1.07E+02

Table 92 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 125mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.83E-08	2.25E-15	7.07E-12	3.51E-11	5.02E-12	3.60E-14	5.19E-11	1.69E-12	-2.59E-10
Human Toxicity non-cancer	HTnc	CTUh	9.24E-09	5.05E-16	1.53E-12	8.43E-13	8.52E-13	8.09E-15	8.42E-12	2.65E-13	-6.65E-12
Land use	LU	kg C deficit eq.	1.10E+01	2.63E-04	5.00E-01	4.93E-01	1.23E-02	4.21E-03	2.72E-01	4.05E-01	-1.01E+00
Ionising radiation	IR	kBq U235 eq	2.50E-01	5.40E-08	2.49E-02	4.85E-02	3.06E-05	8.65E-07	4.11E-04	2.63E-03	-4.62E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.30E-02	9.81E-08	1.41E-05	9.55E-04	7.30E-05	1.57E-06	7.93E-04	4.76E-05	-5.98E-03
Resource depletion – water	RDW	m ³	2.41E-01	4.81E-07	6.74E-04	8.67E-03	9.97E-04	7.72E-06	1.03E-02	7.48E-04	-5.41E-03

BondorPanel® 0.6mm steel – 150mm

Table 93 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	3.81E+01	2.50E-04	1.52E-02	1.78E+00	1.39E-01	1.67E-03	1.57E+00	2.64E-01	-5.45E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-4.41E-01	1.07E-08	2.37E-01	2.94E-03	4.85E-04	7.15E-08	4.80E-03	1.75E-04	2.43E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	7.11E-03	2.08E-09	6.93E-05	5.63E-06	2.87E-08	1.38E-08	5.93E-07	2.89E-05	-5.69E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	3.76E+01	2.50E-04	2.52E-01	1.78E+00	1.40E-01	1.67E-03	1.58E+00	2.64E-01	-5.45E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.93E-07	3.81E-11	4.12E-08	5.04E-08	2.66E-10	2.54E-10	1.53E-08	8.09E-09	-1.10E-08
Acidification potential	AP	mol H ⁺ eq.	1.49E-01	1.98E-06	1.20E-03	9.09E-03	1.02E-03	1.31E-05	1.03E-02	2.35E-04	-4.98E-02
Eutrophication – freshwater	EP – F	kg P eq.	9.57E-04	8.67E-09	-6.31E-05	1.68E-04	5.50E-06	5.77E-08	5.97E-05	4.13E-06	-1.23E-04
Eutrophication – marine	EP – M	kg N eq.	3.23E-02	5.66E-07	1.72E-04	1.55E-03	1.51E-04	3.76E-06	1.66E-03	4.78E-03	-9.99E-03
Eutrophication – terrestrial	EP – T	mol N eq.	3.46E-01	6.20E-06	1.92E-03	1.32E-02	1.62E-03	4.13E-05	1.79E-02	8.54E-04	-1.14E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.16E-01	1.53E-06	2.10E-04	3.85E-03	4.26E-04	1.02E-05	4.63E-03	3.00E-04	-2.70E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	8.90E-04	9.08E-10	3.25E-06	4.06E-06	1.81E-07	6.04E-09	2.13E-06	8.82E-08	-1.59E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	6.34E+02	3.57E-03	-3.79E+00	3.19E+01	6.63E-01	2.37E-02	1.01E+01	6.72E-01	-7.15E+01
Water Depletion Potential	WDP	m ³	1.23E+01	7.43E-05	1.19E+00	3.47E+01	2.28E-02	4.95E-04	9.15E-01	2.71E-02	-3.86E+01

Table 94 | Resource use per m² of BondorPanel® 0.6mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.08E+01	3.62E-05	5.20E-01	3.26E-01	1.20E-01	2.41E-04	1.15E+00	1.22E-02	-7.89E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	2.08E+01	3.62E-05	5.20E-01	3.26E-01	1.20E-01	2.41E-04	1.15E+00	1.22E-02	-7.89E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.40E+02	3.57E-03	2.35E+00	3.19E+01	6.63E-01	2.37E-02	1.01E+01	6.72E-01	-7.15E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	9.50E+01	0.00E+00	-6.89E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.93E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	6.35E+02	3.57E-03	-4.55E+00	3.19E+01	6.63E-01	2.37E-02	1.01E+01	-8.86E+01	-7.15E+01
Use of secondary material	SM	kg	8.10E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	7.97E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.63E-01	4.25E-07	-7.42E-05	3.67E-03	1.14E-04	2.83E-06	1.43E-03	3.79E-04	-1.98E-03

Table 95 | Waste generated per m² of BondorPanel® 0.6mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.07E-05	4.69E-09	-1.89E-05	1.08E-05	4.50E-07	3.12E-08	5.42E-06	9.57E-07	-6.46E-06
Non-hazardous waste disposed	NHWD	kg	7.65E-01	2.46E-05	6.32E-01	6.54E-02	8.58E-03	1.64E-04	1.58E-01	2.66E+00	-8.17E-01
Radioactive waste disposed/stored	RWD	kg	1.52E-03	1.87E-11	2.25E-05	6.94E-06	4.39E-09	1.24E-10	5.90E-08	3.75E-06	-6.66E-08

Table 96 | Output flows per m² of BondorPanel® 0.6mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 97 | Additional environmental impacts per m² of BondorPanel® 0.6mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.63E+01	2.45E-04	2.45E-02	1.68E+00	1.37E-01	1.63E-03	1.55E+00	1.99E-01	-4.70E+00
Particulate matter	PM	disease incidence	2.00E-06	1.30E-11	-7.74E-09	8.57E-08	8.88E-09	8.63E-11	9.03E-08	4.47E-09	-3.40E-07
Ionising radiation – human health	IRP	kBq U-235 eq	2.61E-01	1.35E-07	2.84E-02	4.85E-02	3.05E-05	8.98E-07	4.11E-04	3.05E-03	-4.61E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.81E+02	1.92E-03	-2.31E+00	7.90E+00	3.79E-01	1.28E-02	4.75E+00	1.23E+00	-1.04E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	3.27E-08	1.21E-13	1.20E-08	7.57E-10	4.32E-11	8.07E-13	4.66E-10	3.29E-11	-1.72E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	9.26E+01	1.22E-03	-2.82E+00	5.34E+00	3.50E-01	8.15E-03	4.03E+00	3.72E-01	-1.02E+02
Soil quality	SQP	Pt	5.96E+01	9.27E-04	1.32E+00	6.96E-01	4.26E-01	6.17E-03	4.28E+00	1.45E+00	-8.66E+00

Table 98 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 150mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.67E+01	2.46E-04	1.54E-01	1.72E+00	1.38E-01	1.64E-03	1.55E+00	2.26E-01	-4.69E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.76E-07	3.02E-11	3.53E-08	4.29E-08	2.33E-10	2.01E-10	1.25E-08	6.41E-09	-8.80E-09
Acidification potential	AP	kg SO ₂ eq	1.16E-01	1.05E-06	1.93E-04	7.45E-03	2.11E-04	6.97E-06	2.43E-03	1.79E-04	-3.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.48E-02	2.39E-07	-1.26E-04	1.16E-03	7.30E-05	1.59E-06	8.00E-04	2.03E-03	-4.24E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.59E-02	7.04E-08	-3.22E-06	4.60E-04	4.31E-06	4.69E-07	5.68E-05	3.98E-05	-1.12E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	8.90E-04	9.08E-10	3.25E-06	4.06E-06	1.81E-07	6.04E-09	2.13E-06	8.82E-08	-1.59E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.18E+02	3.58E-03	2.32E+00	2.91E+01	1.55E+00	2.38E-02	1.86E+01	6.34E-01	-1.07E+02

Table 99 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 150mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.93E-08	5.62E-15	6.01E-12	3.51E-11	5.02E-12	3.74E-14	5.19E-11	1.97E-12	-2.59E-10
Human Toxicity non-cancer	HTnc	CTUh	9.24E-09	1.26E-15	1.63E-12	8.43E-13	8.52E-13	8.40E-15	8.42E-12	3.08E-13	-6.65E-12
Land use	LU	kg C deficit eq.	1.20E+01	6.57E-04	5.09E-01	4.93E-01	1.23E-02	4.37E-03	2.72E-01	4.63E-01	-1.01E+00
Ionising radiation	IR	kBq U235 eq	2.62E-01	1.35E-07	2.84E-02	4.85E-02	3.06E-05	8.98E-07	4.11E-04	3.06E-03	-4.62E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.38E-02	2.45E-07	-4.73E-05	9.55E-04	7.30E-05	1.63E-06	7.93E-04	5.54E-05	-5.98E-03
Resource depletion – water	RDW	m ³	2.77E-01	1.20E-06	3.27E-04	8.67E-03	9.97E-04	8.01E-06	1.03E-02	8.67E-04	-5.41E-03

BondorPanel® 0.6mm steel – 200mm

Table 100 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.11E+01	1.56E-04	-8.05E-02	1.78E+00	1.20E-01	1.79E-03	1.57E+00	3.43E-01	-5.45E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-6.45E-01	6.71E-09	3.28E-01	2.94E-03	2.51E-04	7.67E-08	4.80E-03	2.27E-04	2.43E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	7.66E-03	1.30E-09	1.23E-04	5.63E-06	4.79E-05	1.48E-08	5.93E-07	3.71E-05	-5.69E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.04E+01	1.56E-04	2.48E-01	1.78E+00	1.20E-01	1.79E-03	1.58E+00	3.44E-01	-5.45E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.88E-07	2.38E-11	2.37E-07	5.04E-08	1.96E-07	2.72E-10	1.53E-08	1.03E-08	-1.10E-08
Acidification potential	AP	mol H ⁺ eq.	1.60E-01	1.23E-06	1.48E-03	9.09E-03	1.43E-03	1.41E-05	1.03E-02	3.00E-04	-4.98E-02
Eutrophication – freshwater	EP – F	kg P eq.	1.15E-03	5.42E-09	-9.37E-05	1.68E-04	8.97E-06	6.20E-08	5.97E-05	5.33E-06	-1.23E-04
Eutrophication – marine	EP – M	kg N eq.	3.42E-02	3.53E-07	1.80E-04	1.55E-03	1.83E-04	4.04E-06	1.66E-03	6.24E-03	-9.99E-03
Eutrophication – terrestrial	EP – T	mol N eq.	3.66E-01	3.87E-06	2.07E-03	1.32E-02	2.01E-03	4.43E-05	1.79E-02	1.09E-03	-1.14E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.26E-01	9.56E-07	3.57E-04	3.85E-03	8.22E-04	1.09E-05	4.63E-03	3.85E-04	-2.70E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	8.94E-04	5.67E-10	3.79E-06	4.06E-06	1.52E-07	6.49E-09	2.13E-06	1.14E-07	-1.59E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	7.31E+02	2.23E-03	5.66E+00	3.19E+01	1.29E+01	2.55E-02	1.01E+01	8.57E-01	-7.15E+01
Water Depletion Potential	WDP	m ³	1.47E+01	4.64E-05	1.62E+00	3.47E+01	5.79E-03	5.31E-04	9.15E-01	3.45E-02	-3.86E+01

Table 101 | Resource use per m² of BondorPanel® 0.6mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.40E+01	2.26E-05	5.40E-01	3.26E-01	3.12E-02	2.59E-04	1.15E+00	1.58E-02	-7.89E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy – total	PERT	MJ	2.40E+01	2.26E-05	5.40E-01	3.26E-01	3.12E-02	2.59E-04	1.15E+00	1.58E-02	-7.89E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.08E+02	2.23E-03	1.42E+01	3.19E+01	1.29E+01	2.55E-02	1.01E+01	8.57E-01	-7.15E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.24E+02	0.00E+00	-9.56E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.16E+02	0.00E+00
Primary non renewable energy – total	PENRT	MJ	7.32E+02	2.23E-03	4.62E+00	3.19E+01	1.29E+01	2.55E-02	1.01E+01	-1.16E+02	-7.15E+01
Use of secondary material	SM	kg	8.10E-01	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	7.97E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.95E-01	2.65E-07	-3.47E-04	3.67E-03	7.94E-05	3.04E-06	1.43E-03	4.83E-04	-1.98E-03

Table 102 | Waste generated per m² of BondorPanel® 0.6mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	7.01E-05	2.93E-09	4.09E-06	1.08E-05	3.28E-05	3.35E-08	5.42E-06	1.22E-06	-6.46E-06
Non-hazardous waste disposed	NHWD	kg	8.75E-01	1.54E-05	8.45E-01	6.54E-02	6.11E-03	1.76E-04	1.58E-01	3.34E+00	-8.17E-01
Radioactive waste disposed/stored	RWD	kg	1.53E-03	1.17E-11	1.12E-04	6.94E-06	8.69E-05	1.33E-10	5.90E-08	4.78E-06	-6.66E-08

Table 103 | Output flows per m² of BondorPanel® 0.6mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 104 | Additional environmental impacts per m² of BondorPanel® 0.6mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.90E+01	1.53E-04	-6.81E-02	1.68E+00	1.15E-01	1.75E-03	1.55E+00	2.59E-01	-4.70E+00
Particulate matter	PM	disease incidence	2.13E-06	8.10E-12	-1.76E-08	8.57E-08	7.51E-09	9.27E-11	9.03E-08	5.70E-09	-3.40E-07
Ionising radiation – human health	IRP	kBq U-235 eq	2.81E-01	8.43E-08	8.90E-02	4.85E-02	5.43E-02	9.64E-07	4.11E-04	3.90E-03	-4.61E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	2.07E+02	1.20E-03	1.53E+00	7.90E+00	6.33E+00	1.37E-02	4.75E+00	1.60E+00	-1.04E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	3.90E-08	7.57E-14	1.60E-08	7.57E-10	8.35E-11	8.66E-13	4.66E-10	4.24E-11	-1.72E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	1.17E+02	7.65E-04	-1.69E+00	5.34E+00	3.54E+00	8.75E-03	4.03E+00	4.78E-01	-1.02E+02
Soil quality	SQP	Pt	7.69E+01	5.79E-04	2.52E+00	6.96E-01	1.49E+00	6.63E-03	4.28E+00	1.86E+00	-8.66E+00

Table 105 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 200mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.95E+01	1.54E-04	1.12E-01	1.72E+00	1.17E-01	1.76E-03	1.55E+00	2.95E-01	-4.69E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.67E-07	1.88E-11	1.89E-07	4.29E-08	1.55E-07	2.15E-10	1.25E-08	8.15E-09	-8.80E-09
Acidification potential	AP	kg SO ₂ eq	1.25E-01	6.54E-07	1.03E-03	7.45E-03	1.22E-03	7.49E-06	2.43E-03	2.29E-04	-3.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.60E-02	1.49E-07	-2.19E-04	1.16E-03	9.16E-05	1.71E-06	8.00E-04	2.65E-03	-4.24E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.65E-02	4.40E-08	4.10E-06	4.60E-04	4.99E-05	5.03E-07	5.68E-05	5.18E-05	-1.12E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	8.94E-04	5.67E-10	3.79E-06	4.06E-06	1.52E-07	6.49E-09	2.13E-06	1.14E-07	-1.59E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.81E+02	2.24E-03	1.19E+01	2.91E+01	1.19E+01	2.56E-02	1.86E+01	8.09E-01	-1.07E+02

Table 106 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 200mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.12E-08	3.51E-15	4.14E-12	3.51E-11	5.05E-12	4.01E-14	5.19E-11	2.52E-12	-2.59E-10
Human Toxicity non-cancer	HTnc	CTUh	9.24E-09	7.89E-16	1.53E-12	8.43E-13	5.62E-13	9.02E-15	8.42E-12	3.93E-13	-6.65E-12
Land use	LU	kg C deficit eq.	1.38E+01	4.10E-04	2.63E+00	4.93E-01	2.11E+00	4.70E-03	2.72E-01	5.80E-01	-1.01E+00
Ionising radiation	IR	kBq U235 eq	2.82E-01	8.43E-08	8.90E-02	4.85E-02	5.43E-02	9.65E-07	4.11E-04	3.90E-03	-4.62E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.52E-02	1.53E-07	-5.79E-05	9.55E-04	1.72E-04	1.75E-06	7.93E-04	7.08E-05	-5.98E-03
Resource depletion – water	RDW	m ³	3.49E-01	7.52E-07	-1.10E-03	8.67E-03	1.91E-04	8.60E-06	1.03E-02	1.10E-03	-5.41E-03

BondorPanel® 0.6mm steel – 250mm

Table 107 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.40E+01	1.32E-04	-1.47E-01	1.78E+00	1.20E-01	1.91E-03	1.57E+00	4.23E-01	-5.45E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-8.19E-01	5.65E-09	4.08E-01	2.94E-03	2.51E-04	8.20E-08	4.80E-03	2.80E-04	2.43E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	8.15E-03	1.09E-09	1.29E-04	5.63E-06	4.79E-05	1.59E-08	5.93E-07	4.52E-05	-5.69E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.32E+01	1.32E-04	2.61E-01	1.78E+00	1.20E-01	1.91E-03	1.58E+00	4.23E-01	-5.45E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	6.75E-07	2.01E-11	2.36E-07	5.04E-08	1.96E-07	2.91E-10	1.53E-08	1.25E-08	-1.10E-08
Acidification potential	AP	mol H ⁺ eq.	1.71E-01	1.04E-06	1.36E-03	9.09E-03	1.43E-03	1.51E-05	1.03E-02	3.66E-04	-4.98E-02
Eutrophication – freshwater	EP – F	kg P eq.	1.32E-03	4.56E-09	-1.24E-04	1.68E-04	8.97E-06	6.62E-08	5.97E-05	6.53E-06	-1.23E-04
Eutrophication – marine	EP – M	kg N eq.	3.60E-02	2.97E-07	1.59E-04	1.55E-03	1.83E-04	4.32E-06	1.66E-03	7.69E-03	-9.99E-03
Eutrophication – terrestrial	EP – T	mol N eq.	3.85E-01	3.26E-06	1.86E-03	1.32E-02	2.01E-03	4.73E-05	1.79E-02	1.33E-03	-1.14E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.35E-01	8.05E-07	1.38E-04	3.85E-03	8.22E-04	1.17E-05	4.63E-03	4.70E-04	-2.70E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	8.97E-04	4.77E-10	4.28E-06	4.06E-06	1.52E-07	6.93E-09	2.13E-06	1.39E-07	-1.59E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	8.27E+02	1.88E-03	3.21E+00	3.19E+01	1.29E+01	2.73E-02	1.01E+01	1.04E+00	-7.15E+01
Water Depletion Potential	WDP	m ³	1.70E+01	3.91E-05	2.00E+00	3.47E+01	5.79E-03	5.68E-04	9.15E-01	4.19E-02	-3.86E+01

Table 108 | Resource use per m² of BondorPanel® 0.6mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.68E+01	1.90E-05	6.35E-01	3.26E-01	3.12E-02	2.77E-04	1.15E+00	1.94E-02	-7.89E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy – total	PERT	MJ	2.68E+01	1.90E-05	6.35E-01	3.26E-01	3.12E-02	2.77E-04	1.15E+00	1.94E-02	-7.89E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.76E+02	1.88E-03	1.38E+01	3.19E+01	1.29E+01	2.73E-02	1.01E+01	1.04E+00	-7.15E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.52E+02	0.00E+00	-1.19E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.44E+02	0.00E+00
Primary non renewable energy – total	PENRT	MJ	8.28E+02	1.88E-03	1.92E+00	3.19E+01	1.29E+01	2.73E-02	1.01E+01	-1.43E+02	-7.15E+01
Use of secondary material	SM	kg	8.10E-01	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	7.97E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	2.25E-01	2.23E-07	-5.56E-04	3.67E-03	7.94E-05	3.25E-06	1.43E-03	5.87E-04	-1.98E-03

Table 109 | Waste generated per m² of BondorPanel® 0.6mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	7.84E-05	2.46E-09	-4.05E-06	1.08E-05	3.28E-05	3.58E-08	5.42E-06	1.48E-06	-6.46E-06
Non-hazardous waste disposed	NHWD	kg	9.74E-01	1.29E-05	1.03E+00	6.54E-02	6.11E-03	1.88E-04	1.58E-01	4.02E+00	-8.17E-01
Radioactive waste disposed/stored	RWD	kg	1.54E-03	9.82E-12	1.15E-04	6.94E-06	8.69E-05	1.43E-10	5.90E-08	5.80E-06	-6.66E-08

Table 110 | Output flows per m² of BondorPanel® 0.6mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 111 | Additional environmental impacts per m² of BondorPanel® 0.6mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.17E+01	1.29E-04	-1.30E-01	1.68E+00	1.15E-01	1.87E-03	1.55E+00	3.19E-01	-4.70E+00
Particulate matter	PM	disease incidence	2.26E-06	6.82E-12	-2.50E-08	8.57E-08	7.51E-09	9.91E-11	9.03E-08	6.94E-09	-3.40E-07
Ionising radiation – human health	IRP	kBq U-235 eq	2.99E-01	7.10E-08	9.45E-02	4.85E-02	5.43E-02	1.03E-06	4.11E-04	4.75E-03	-4.61E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	2.31E+02	1.01E-03	-3.20E-01	7.90E+00	6.33E+00	1.46E-02	4.75E+00	1.96E+00	-1.04E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	4.46E-08	6.38E-14	1.95E-08	7.57E-10	8.35E-11	9.26E-13	4.66E-10	5.20E-11	-1.72E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	1.39E+02	6.44E-04	-3.50E+00	5.34E+00	3.54E+00	9.35E-03	4.03E+00	5.84E-01	-1.02E+02
Soil quality	SQP	Pt	9.21E+01	4.88E-04	2.64E+00	6.96E-01	1.49E+00	7.08E-03	4.28E+00	2.26E+00	-8.66E+00

Table 112 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 250mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.24E+01	1.29E-04	9.36E-02	1.72E+00	1.17E-01	1.88E-03	1.55E+00	3.63E-01	-4.69E+00
Ozone layer depletion	ODP	kg CFC-11 eq	6.51E-07	1.59E-11	1.88E-07	4.29E-08	1.55E-07	2.30E-10	1.25E-08	9.90E-09	-8.80E-09
Acidification potential	AP	kg SO ₂ eq	1.34E-01	5.51E-07	8.68E-04	7.45E-03	1.22E-03	8.00E-06	2.43E-03	2.79E-04	-3.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.72E-02	1.26E-07	-3.17E-04	1.16E-03	9.16E-05	1.83E-06	8.00E-04	3.27E-03	-4.24E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.71E-02	3.70E-08	-2.94E-05	4.60E-04	4.99E-05	5.38E-07	5.68E-05	6.37E-05	-1.12E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	8.98E-04	4.77E-10	4.28E-06	4.06E-06	1.52E-07	6.93E-09	2.13E-06	1.39E-07	-1.59E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.43E+02	1.88E-03	1.13E+01	2.91E+01	1.19E+01	2.73E-02	1.86E+01	9.84E-01	-1.07E+02

Table 113 | Environmental impacts per m² of BondorPanel® 0.6mm steel – 250mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.28E-08	2.95E-15	2.47E-12	3.51E-11	5.05E-12	4.29E-14	5.19E-11	3.08E-12	-2.59E-10
Human Toxicity non-cancer	HTnc	CTUh	9.25E-09	6.64E-16	1.69E-12	8.43E-13	5.62E-13	9.65E-15	8.42E-12	4.78E-13	-6.65E-12
Land use	LU	kg C deficit eq.	1.55E+01	3.46E-04	2.64E+00	4.93E-01	2.11E+00	5.02E-03	2.72E-01	6.97E-01	-1.01E+00
Ionising radiation	IR	kBq U235 eq	2.99E-01	7.10E-08	9.45E-02	4.85E-02	5.43E-02	1.03E-06	4.11E-04	4.75E-03	-4.62E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.66E-02	1.29E-07	-1.54E-04	9.55E-04	1.72E-04	1.87E-06	7.93E-04	8.63E-05	-5.98E-03
Resource depletion – water	RDW	m ³	4.20E-01	6.33E-07	-1.65E-03	8.67E-03	1.91E-04	9.20E-06	1.03E-02	1.34E-03	-5.41E-03

DesignerWall®

DesignerWall® - 50mm

Table 114 | Environmental impacts per m² of DesignerWall® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.00E+01	6.13E-05	9.30E-02	1.78E+00	1.20E-01	2.02E-03	2.31E+00	1.07E-01	-8.03E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-1.47E-01	2.63E-09	8.05E-02	2.94E-03	2.51E-04	8.66E-08	7.06E-03	7.22E-05	3.59E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	4.86E-03	5.08E-10	9.31E-05	5.63E-06	4.79E-05	1.67E-08	8.74E-07	1.38E-05	-8.38E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	3.98E+01	6.13E-05	1.74E-01	1.78E+00	1.20E-01	2.02E-03	2.32E+00	1.08E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	3.43E-07	9.34E-12	1.98E-07	5.04E-08	1.96E-07	3.08E-10	2.26E-08	4.18E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.53E-01	4.84E-07	1.54E-03	9.09E-03	1.43E-03	1.59E-05	1.52E-02	1.16E-04	-7.33E-02
Eutrophication – freshwater	EP – F	kg P eq.	6.08E-04	2.12E-09	-7.26E-06	1.68E-04	8.97E-06	7.00E-08	8.79E-05	1.87E-06	-1.81E-04
Eutrophication – marine	EP – M	kg N eq.	3.51E-02	1.38E-07	2.03E-04	1.55E-03	1.83E-04	4.56E-06	2.44E-03	1.91E-03	-1.47E-02
Eutrophication – terrestrial	EP – T	mol N eq.	3.80E-01	1.52E-06	2.24E-03	1.32E-02	2.01E-03	5.00E-05	2.63E-02	4.25E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.19E-01	3.75E-07	7.37E-04	3.85E-03	8.22E-04	1.24E-05	6.82E-03	1.44E-04	-3.98E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	9.58E-05	2.22E-10	1.77E-06	4.06E-06	1.52E-07	7.32E-09	3.13E-06	4.05E-08	-2.35E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	5.22E+02	8.74E-04	1.09E+01	3.19E+01	1.29E+01	2.88E-02	1.48E+01	3.38E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	7.56E+00	1.82E-05	4.07E-01	3.47E+01	5.79E-03	6.00E-04	1.35E+00	1.38E-02	-5.69E+01

Table 115 | Resource use per m² of DesignerWall® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.73E+01	8.87E-06	2.29E-01	3.26E-01	3.12E-02	2.92E-04	1.70E+00	5.44E-03	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy – total	PERT	MJ	1.73E+01	8.87E-06	2.29E-01	3.26E-01	3.12E-02	2.92E-04	1.70E+00	5.44E-03	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.85E+02	8.74E-04	1.30E+01	3.19E+01	1.29E+01	2.88E-02	1.48E+01	3.38E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	3.78E+01	0.00E+00	-2.34E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.56E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	5.23E+02	8.74E-04	1.07E+01	3.19E+01	1.29E+01	2.88E-02	1.48E+01	-3.53E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.05E-01	1.04E-07	5.48E-05	3.67E-03	7.94E-05	3.43E-06	2.11E-03	1.93E-04	-2.92E-03

Table 116 | Waste generated per m² of DesignerWall® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	4.69E-05	1.15E-09	2.49E-05	1.08E-05	3.28E-05	3.78E-08	7.98E-06	4.82E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	8.64E-01	6.03E-06	2.47E-01	6.54E-02	6.11E-03	1.99E-04	2.33E-01	1.51E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.56E-03	4.57E-12	9.04E-05	6.94E-06	8.69E-05	1.51E-10	8.68E-08	1.93E-06	-9.80E-08

Table 117 | Output flows per m² of DesignerWall® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 118 | Additional environmental impacts per m² of DesignerWall® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.85E+01	6.01E-05	9.22E-02	1.68E+00	1.15E-01	1.98E-03	2.28E+00	8.17E-02	-6.92E+00
Particulate matter	PM	disease incidence	1.90E-06	3.18E-12	3.32E-09	8.57E-08	7.51E-09	1.05E-10	1.33E-07	2.23E-09	-5.00E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.29E-01	3.30E-08	6.26E-02	4.85E-02	5.43E-02	1.09E-06	6.05E-04	1.51E-03	-6.80E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.34E+02	4.69E-04	5.75E+00	7.90E+00	6.33E+00	1.55E-02	7.00E+00	5.33E-01	-1.53E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.19E-08	2.97E-14	5.33E-09	7.57E-10	8.35E-11	9.78E-13	6.86E-10	1.47E-11	-2.53E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	4.84E+01	3.00E-04	2.95E+00	5.34E+00	3.54E+00	9.88E-03	5.93E+00	1.76E-01	-1.51E+02
Soil quality	SQP	Pt	3.12E+01	2.27E-04	1.84E+00	6.96E-01	1.49E+00	7.48E-03	6.31E+00	7.19E-01	-1.28E+01

Table 119 | Environmental impacts per m² of DesignerWall® - 50mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.87E+01	6.02E-05	1.38E-01	1.72E+00	1.17E-01	1.98E-03	2.29E+00	9.26E-02	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	3.27E-07	7.38E-12	1.56E-07	4.29E-08	1.55E-07	2.43E-10	1.84E-08	3.31E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.18E-01	2.57E-07	1.26E-03	7.45E-03	1.22E-03	8.45E-06	3.57E-03	8.82E-05	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.47E-02	5.86E-08	5.01E-05	1.16E-03	9.16E-05	1.93E-06	1.18E-03	8.13E-04	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.79E-02	1.72E-08	2.57E-05	4.60E-04	4.99E-05	5.68E-07	8.36E-05	1.66E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	9.58E-05	2.22E-10	1.77E-06	4.06E-06	1.52E-07	7.32E-09	3.13E-06	4.06E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.76E+02	8.77E-04	1.17E+01	2.91E+01	1.19E+01	2.89E-02	2.74E+01	3.18E-01	-1.57E+02

Table 120 | Environmental impacts per m² of DesignerWall® - 50mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.61E-08	1.38E-15	6.49E-12	3.51E-11	5.05E-12	4.53E-14	7.64E-11	9.51E-13	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.22E-09	3.09E-16	8.62E-13	8.43E-13	5.62E-13	1.02E-14	1.24E-11	1.55E-13	-9.79E-12
Land use	LU	kg C deficit eq.	9.05E+00	1.61E-04	2.21E+00	4.93E-01	2.11E+00	5.30E-03	4.01E-01	2.70E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.29E-01	3.31E-08	6.26E-02	4.85E-02	5.43E-02	1.09E-06	6.06E-04	1.51E-03	-6.80E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.20E-02	6.01E-08	2.00E-04	9.55E-04	1.72E-04	1.98E-06	1.17E-03	2.70E-05	-8.81E-03
Resource depletion – water	RDW	m ³	1.34E-01	2.95E-07	5.72E-05	8.67E-03	1.91E-04	9.71E-06	1.51E-02	4.42E-04	-7.96E-03

DesignerWall® - 75mm

Table 121 | Environmental impacts per m² of DesignerWall® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.04E+01	4.41E-05	7.02E-02	1.78E+00	1.20E-01	2.08E-03	2.31E+00	1.47E-01	-8.03E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-2.02E-01	1.89E-09	1.08E-01	2.94E-03	2.51E-04	8.93E-08	7.06E-03	9.85E-05	3.59E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	5.02E-03	3.65E-10	9.49E-05	5.63E-06	4.79E-05	1.73E-08	8.74E-07	1.79E-05	-8.38E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.02E+01	4.41E-05	1.78E-01	1.78E+00	1.20E-01	2.08E-03	2.32E+00	1.48E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	2.16E-07	6.71E-12	1.97E-07	5.04E-08	1.96E-07	3.17E-10	2.26E-08	5.28E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.52E-01	3.48E-07	1.50E-03	9.09E-03	1.43E-03	1.64E-05	1.52E-02	1.49E-04	-7.33E-02
Eutrophication – freshwater	EP – F	kg P eq.	6.47E-04	1.53E-09	-1.75E-05	1.68E-04	8.97E-06	7.21E-08	8.79E-05	2.47E-06	-1.81E-04
Eutrophication – marine	EP – M	kg N eq.	3.46E-02	9.95E-08	1.95E-04	1.55E-03	1.83E-04	4.70E-06	2.44E-03	2.64E-03	-1.47E-02
Eutrophication – terrestrial	EP – T	mol N eq.	3.74E-01	1.09E-06	2.16E-03	1.32E-02	2.01E-03	5.15E-05	2.63E-02	5.44E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.19E-01	2.69E-07	6.63E-04	3.85E-03	8.22E-04	1.27E-05	6.82E-03	1.87E-04	-3.98E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	9.38E-05	1.60E-10	1.93E-06	4.06E-06	1.52E-07	7.55E-09	3.13E-06	5.33E-08	-2.35E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	5.54E+02	6.28E-04	1.01E+01	3.19E+01	1.29E+01	2.97E-02	1.48E+01	4.31E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	8.32E+00	1.31E-05	5.38E-01	3.47E+01	5.79E-03	6.18E-04	1.35E+00	1.75E-02	-5.69E+01

Table 122 | Resource use per m² of DesignerWall® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.82E+01	6.37E-06	2.62E-01	3.26E-01	3.12E-02	3.01E-04	1.70E+00	7.23E-03	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy – total	PERT	MJ	1.82E+01	6.37E-06	2.62E-01	3.26E-01	3.12E-02	3.01E-04	1.70E+00	7.23E-03	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.03E+02	6.28E-04	1.29E+01	3.19E+01	1.29E+01	2.97E-02	1.48E+01	4.31E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	5.20E+01	0.00E+00	-3.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.93E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	5.55E+02	6.28E-04	9.76E+00	3.19E+01	1.29E+01	2.97E-02	1.48E+01	-4.88E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.17E-01	7.48E-08	-1.66E-05	3.67E-03	7.94E-05	3.53E-06	2.11E-03	2.45E-04	-2.92E-03

Table 123 | Waste generated per m² of DesignerWall® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	3.18E-05	8.25E-10	2.22E-05	1.08E-05	3.28E-05	3.90E-08	7.98E-06	6.14E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	7.57E-01	4.33E-06	3.12E-01	6.54E-02	6.11E-03	2.05E-04	2.33E-01	1.85E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.57E-03	3.28E-12	9.12E-05	6.94E-06	8.69E-05	1.55E-10	8.68E-08	2.44E-06	-9.80E-08

Table 124 | Output flows per m² of DesignerWall® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 125 | Additional environmental impacts per m² of DesignerWall® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.88E+01	4.32E-05	7.10E-02	1.68E+00	1.15E-01	2.04E-03	2.28E+00	1.12E-01	-6.92E+00
Particulate matter	PM	disease incidence	1.88E-06	2.28E-12	7.94E-10	8.57E-08	7.51E-09	1.08E-10	1.33E-07	2.85E-09	-5.00E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.35E-01	2.37E-08	6.44E-02	4.85E-02	5.43E-02	1.12E-06	6.05E-04	1.94E-03	-6.80E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.37E+02	3.37E-04	5.12E+00	7.90E+00	6.33E+00	1.59E-02	7.00E+00	7.16E-01	-1.53E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.34E-08	2.13E-14	6.51E-09	7.57E-10	8.35E-11	1.01E-12	6.86E-10	1.95E-11	-2.53E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	5.33E+01	2.15E-04	2.33E+00	5.34E+00	3.54E+00	1.02E-02	5.93E+00	2.29E-01	-1.51E+02
Soil quality	SQP	Pt	3.27E+01	1.63E-04	1.88E+00	6.96E-01	1.49E+00	7.71E-03	6.31E+00	9.22E-01	-1.28E+01

Table 126 | Environmental impacts per m² of DesignerWall® - 75mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.90E+01	4.33E-05	1.32E-01	1.72E+00	1.17E-01	2.04E-03	2.29E+00	1.27E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	2.34E-07	5.31E-12	1.55E-07	4.29E-08	1.55E-07	2.51E-10	1.84E-08	4.19E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.19E-01	1.84E-07	1.21E-03	7.45E-03	1.22E-03	8.71E-06	3.57E-03	1.13E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.46E-02	4.21E-08	1.66E-05	1.16E-03	9.16E-05	1.99E-06	1.18E-03	1.12E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.80E-02	1.24E-08	1.43E-05	4.60E-04	4.99E-05	5.86E-07	8.36E-05	2.26E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	9.39E-05	1.60E-10	1.93E-06	4.06E-06	1.52E-07	7.55E-09	3.13E-06	5.33E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.91E+02	6.30E-04	1.15E+01	2.91E+01	1.19E+01	2.98E-02	2.74E+01	4.06E-01	-1.57E+02

Table 127 | Environmental impacts per m² of DesignerWall® - 75mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.67E-08	9.88E-16	5.91E-12	3.51E-11	5.05E-12	4.67E-14	7.64E-11	1.23E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.22E-09	2.22E-16	9.18E-13	8.43E-13	5.62E-13	1.05E-14	1.24E-11	1.97E-13	-9.79E-12
Land use	LU	kg C deficit eq.	6.93E+00	1.16E-04	2.22E+00	4.93E-01	2.11E+00	5.46E-03	4.01E-01	3.28E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.35E-01	2.38E-08	6.44E-02	4.85E-02	5.43E-02	1.12E-06	6.06E-04	1.94E-03	-6.80E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.18E-02	4.32E-08	1.67E-04	9.55E-04	1.72E-04	2.04E-06	1.17E-03	3.48E-05	-8.81E-03
Resource depletion – water	RDW	m ³	1.62E-01	2.12E-07	-1.29E-04	8.67E-03	1.91E-04	1.00E-05	1.51E-02	5.61E-04	-7.96E-03

Equitilt®

Equitilt® 0.6mm steel – 50mm

Table 128 | Environmental impacts per m² of Equitilt® 0.6mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.07E+01	2.28E-04	1.45E-01	1.78E+00	1.39E-01	2.02E-03	2.31E+00	1.06E-01	-8.03E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-1.46E-01	9.77E-09	8.15E-02	2.94E-03	4.85E-04	8.66E-08	7.06E-03	7.14E-05	3.59E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	4.87E-03	1.89E-09	5.90E-05	5.63E-06	2.87E-08	1.67E-08	8.74E-07	1.36E-05	-8.38E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.05E+01	2.28E-04	2.27E-01	1.78E+00	1.40E-01	2.02E-03	2.32E+00	1.06E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.52E-07	3.47E-11	4.20E-08	5.04E-08	2.66E-10	3.07E-10	2.26E-08	4.15E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.57E-01	1.80E-06	1.43E-03	9.09E-03	1.02E-03	1.59E-05	1.52E-02	1.15E-04	-7.33E-02
Eutrophication – freshwater	EP – F	kg P eq.	6.31E-04	7.89E-09	-4.74E-06	1.68E-04	5.50E-06	6.99E-08	8.79E-05	1.85E-06	-1.81E-04
Eutrophication – marine	EP – M	kg N eq.	3.60E-02	5.15E-07	2.13E-04	1.55E-03	1.51E-04	4.56E-06	2.44E-03	1.89E-03	-1.47E-02
Eutrophication – terrestrial	EP – T	mol N eq.	3.90E-01	5.64E-06	2.32E-03	1.32E-02	1.62E-03	5.00E-05	2.63E-02	4.22E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.21E-01	1.39E-06	6.35E-04	3.85E-03	4.26E-04	1.23E-05	6.82E-03	1.43E-04	-3.98E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	9.80E-05	8.26E-10	2.30E-06	4.06E-06	1.81E-07	7.32E-09	3.13E-06	4.02E-08	-2.35E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	5.32E+02	3.25E-03	9.75E-01	3.19E+01	6.63E-01	2.88E-02	1.48E+01	3.35E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	7.79E+00	6.76E-05	4.43E-01	3.47E+01	2.28E-02	5.99E-04	1.35E+00	1.37E-02	-5.69E+01

Table 129 | Resource use per m² of Equitilt® 0.6mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.74E+01	3.30E-05	3.36E-01	3.26E-01	1.20E-01	2.92E-04	1.70E+00	5.39E-03	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy – total	PERT	MJ	1.74E+01	3.30E-05	3.36E-01	3.26E-01	1.20E-01	2.92E-04	1.70E+00	5.39E-03	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.95E+02	3.25E-03	3.06E+00	3.19E+01	6.63E-01	2.88E-02	1.48E+01	3.35E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	3.78E+01	0.00E+00	-2.34E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.52E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	5.33E+02	3.25E-03	7.19E-01	3.19E+01	6.63E-01	2.88E-02	1.48E+01	-3.49E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.06E-01	3.87E-07	3.33E-04	3.67E-03	1.14E-04	3.43E-06	2.11E-03	1.92E-04	-2.92E-03

Table 130 | Waste generated per m² of Equitilt® 0.6mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	5.89E-05	4.27E-09	-3.09E-06	1.08E-05	4.50E-07	3.78E-08	7.98E-06	4.78E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	9.61E-01	2.24E-05	2.54E-01	6.54E-02	8.58E-03	1.98E-04	2.33E-01	1.50E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.56E-03	1.70E-11	1.78E-05	6.94E-06	4.39E-09	1.50E-10	8.68E-08	1.92E-06	-9.80E-08

Table 131 | Output flows per m² of Equitilt® 0.6mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 132 | Additional environmental impacts per m² of Equitilt® 0.6mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.92E+01	2.23E-04	1.46E-01	1.68E+00	1.37E-01	1.98E-03	2.28E+00	8.08E-02	-6.92E+00
Particulate matter	PM	disease incidence	1.96E-06	1.18E-11	6.68E-09	8.57E-08	8.88E-09	1.05E-10	1.33E-07	2.21E-09	-5.01E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.29E-01	1.23E-07	1.77E-02	4.85E-02	3.05E-05	1.09E-06	6.05E-04	1.50E-03	-6.80E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.39E+02	1.74E-03	1.28E+00	7.90E+00	3.79E-01	1.55E-02	7.00E+00	5.28E-01	-1.53E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.22E-08	1.10E-13	5.33E-09	7.57E-10	4.32E-11	9.77E-13	6.86E-10	1.45E-11	-2.53E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	5.17E+01	1.11E-03	7.00E-01	5.34E+00	3.50E-01	9.87E-03	5.93E+00	1.74E-01	-1.51E+02
Soil quality	SQP	Pt	3.36E+01	8.44E-04	1.09E+00	6.96E-01	4.26E-01	7.48E-03	6.31E+00	7.13E-01	-1.28E+01

Table 133 | Environmental impacts per m² of Equitilt® 0.6mm steel – 50mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.93E+01	2.24E-04	1.90E-01	1.72E+00	1.38E-01	1.98E-03	2.29E+00	9.16E-02	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.13E-07	2.74E-11	3.70E-08	4.29E-08	2.33E-10	2.43E-10	1.84E-08	3.29E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.20E-01	9.53E-07	4.99E-04	7.45E-03	2.11E-04	8.44E-06	3.57E-03	8.75E-05	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.51E-02	2.18E-07	6.50E-05	1.16E-03	7.30E-05	1.93E-06	1.18E-03	8.04E-04	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.81E-02	6.41E-08	6.21E-05	4.60E-04	4.31E-06	5.68E-07	8.36E-05	1.64E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	9.80E-05	8.26E-10	2.30E-06	4.06E-06	1.81E-07	7.32E-09	3.13E-06	4.02E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.85E+02	3.26E-03	3.56E+00	2.91E+01	1.55E+00	2.89E-02	2.74E+01	3.16E-01	-1.57E+02

Table 134 | Environmental impacts per m² of Equitilt® 0.6mm steel – 50mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.61E-08	5.11E-15	9.26E-12	3.51E-11	5.02E-12	4.53E-14	7.64E-11	9.43E-13	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.22E-09	1.15E-15	1.32E-12	8.43E-13	8.52E-13	1.02E-14	1.24E-11	1.53E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.08E+01	5.98E-04	4.80E-01	4.93E-01	1.23E-02	5.30E-03	4.01E-01	2.68E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.30E-01	1.23E-07	1.77E-02	4.85E-02	3.06E-05	1.09E-06	6.06E-04	1.50E-03	-6.80E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.25E-02	2.23E-07	1.41E-04	9.55E-04	7.30E-05	1.98E-06	1.17E-03	2.68E-05	-8.81E-03
Resource depletion – water	RDW	m ³	1.38E-01	1.10E-06	1.39E-03	8.67E-03	9.97E-04	9.71E-06	1.51E-02	4.39E-04	-7.96E-03

Equitilt® 0.6mm steel – 75mm

Table 135 | Environmental impacts per m² of Equitilt® 0.6mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.21E+01	2.83E-04	1.22E-01	1.78E+00	1.39E-01	2.08E-03	2.31E+00	1.46E-01	-8.03E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-2.02E-01	1.21E-08	1.09E-01	2.94E-03	4.85E-04	8.92E-08	7.06E-03	9.77E-05	3.59E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	5.04E-03	2.34E-09	6.08E-05	5.63E-06	2.87E-08	1.72E-08	8.74E-07	1.77E-05	-8.38E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.19E+01	2.83E-04	2.31E-01	1.78E+00	1.40E-01	2.08E-03	2.32E+00	1.46E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.86E-07	4.30E-11	4.19E-08	5.04E-08	2.66E-10	3.17E-10	2.26E-08	5.25E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.62E-01	2.23E-06	1.39E-03	9.09E-03	1.02E-03	1.64E-05	1.52E-02	1.48E-04	-7.33E-02
Eutrophication – freshwater	EP – F	kg P eq.	7.03E-04	9.79E-09	-1.50E-05	1.68E-04	5.50E-06	7.21E-08	8.79E-05	2.45E-06	-1.81E-04
Eutrophication – marine	EP – M	kg N eq.	3.68E-02	6.38E-07	2.06E-04	1.55E-03	1.51E-04	4.70E-06	2.44E-03	2.62E-03	-1.47E-02
Eutrophication – terrestrial	EP – T	mol N eq.	3.99E-01	7.00E-06	2.25E-03	1.32E-02	1.62E-03	5.15E-05	2.63E-02	5.40E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.25E-01	1.73E-06	5.61E-04	3.85E-03	4.26E-04	1.27E-05	6.82E-03	1.86E-04	-3.98E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	9.93E-05	1.02E-09	2.46E-06	4.06E-06	1.81E-07	7.54E-09	3.13E-06	5.29E-08	-2.35E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	5.79E+02	4.03E-03	1.39E-01	3.19E+01	6.63E-01	2.96E-02	1.48E+01	4.28E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	8.89E+00	8.39E-05	5.74E-01	3.47E+01	2.28E-02	6.17E-04	1.35E+00	1.74E-02	-5.69E+01

Table 136 | Resource use per m² of Equitilt® 0.6mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.84E+01	4.09E-05	3.69E-01	3.26E-01	1.20E-01	3.01E-04	1.70E+00	7.18E-03	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	1.84E+01	4.09E-05	3.69E-01	3.26E-01	1.20E-01	3.01E-04	1.70E+00	7.18E-03	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.28E+02	4.03E-03	2.93E+00	3.19E+01	6.63E-01	2.96E-02	1.48E+01	4.28E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	5.20E+01	0.00E+00	-3.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.89E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	5.80E+02	4.03E-03	-2.03E-01	3.19E+01	6.63E-01	2.96E-02	1.48E+01	-4.84E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.21E-01	4.80E-07	2.62E-04	3.67E-03	1.14E-04	3.53E-06	2.11E-03	2.44E-04	-2.92E-03

Table 137 | Waste generated per m² of Equitilt® 0.6mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.18E-05	5.29E-09	-5.87E-06	1.08E-05	4.50E-07	3.89E-08	7.98E-06	6.10E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	9.99E-01	2.78E-05	3.18E-01	6.54E-02	8.58E-03	2.05E-04	2.33E-01	1.84E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.57E-03	2.11E-11	1.86E-05	6.94E-06	4.39E-09	1.55E-10	8.68E-08	2.43E-06	-9.80E-08

Table 138 | Output flows per m² of Equitilt® 0.6mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 139 | Additional environmental impacts per m² of Equitilt® 0.6mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.04E+01	2.77E-04	1.24E-01	1.68E+00	1.37E-01	2.04E-03	2.28E+00	1.11E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.01E-06	1.46E-11	4.16E-09	8.57E-08	8.88E-09	1.08E-10	1.33E-07	2.83E-09	-5.01E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.36E-01	1.52E-07	1.96E-02	4.85E-02	3.05E-05	1.12E-06	6.05E-04	1.92E-03	-6.80E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.50E+02	2.16E-03	6.53E-01	7.90E+00	3.79E-01	1.59E-02	7.00E+00	7.10E-01	-1.53E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.43E-08	1.37E-13	6.51E-09	7.57E-10	4.32E-11	1.01E-12	6.86E-10	1.93E-11	-2.53E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	6.15E+01	1.38E-03	8.30E-02	5.34E+00	3.50E-01	1.02E-02	5.93E+00	2.27E-01	-1.51E+02
Soil quality	SQP	Pt	3.88E+01	1.05E-03	1.13E+00	6.96E-01	4.26E-01	7.70E-03	6.31E+00	9.16E-01	-1.28E+01

Table 140 | Environmental impacts per m² of Equitilt® 0.6mm steel – 75mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.07E+01	2.78E-04	1.84E-01	1.72E+00	1.38E-01	2.04E-03	2.29E+00	1.26E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.48E-07	3.40E-11	3.67E-08	4.29E-08	2.33E-10	2.51E-10	1.84E-08	4.16E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.24E-01	1.18E-06	4.45E-04	7.45E-03	2.11E-04	8.70E-06	3.57E-03	1.12E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.57E-02	2.70E-07	3.15E-05	1.16E-03	7.30E-05	1.99E-06	1.18E-03	1.11E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.83E-02	7.95E-08	5.06E-05	4.60E-04	4.31E-06	5.85E-07	8.36E-05	2.24E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	9.93E-05	1.02E-09	2.46E-06	4.06E-06	1.81E-07	7.54E-09	3.13E-06	5.29E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.15E+02	4.04E-03	3.34E+00	2.91E+01	1.55E+00	2.97E-02	2.74E+01	4.03E-01	-1.57E+02

Table 141 | Environmental impacts per m² of Equitilt® 0.6mm steel – 75mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.67E-08	6.34E-15	8.69E-12	3.51E-11	5.02E-12	4.67E-14	7.64E-11	1.22E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	1.43E-15	1.37E-12	8.43E-13	8.52E-13	1.05E-14	1.24E-11	1.96E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.14E+01	7.42E-04	4.85E-01	4.93E-01	1.23E-02	5.46E-03	4.01E-01	3.27E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.36E-01	1.52E-07	1.96E-02	4.85E-02	3.06E-05	1.12E-06	6.06E-04	1.93E-03	-6.80E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.31E-02	2.77E-07	1.08E-04	9.55E-04	7.30E-05	2.04E-06	1.17E-03	3.46E-05	-8.81E-03
Resource depletion – water	RDW	m ³ equiv.	1.72E-01	1.36E-06	1.20E-03	8.67E-03	9.97E-04	1.00E-05	1.51E-02	5.57E-04	-7.96E-03

Equitilt® 0.6mm steel – 100mm

Table 142 | Environmental impacts per m² of Equitilt® 0.6mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.36E+01	2.83E-04	8.44E-02	1.78E+00	1.39E-01	2.14E-03	2.31E+00	1.86E-01	-8.03E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-3.03E-01	1.21E-08	1.54E-01	2.94E-03	4.85E-04	9.18E-08	7.06E-03	1.24E-04	3.59E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	5.31E-03	2.34E-09	6.38E-05	5.63E-06	2.87E-08	1.78E-08	8.74E-07	2.18E-05	-8.38E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.33E+01	2.83E-04	2.39E-01	1.78E+00	1.40E-01	2.14E-03	2.32E+00	1.86E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.33E-07	4.30E-11	4.17E-08	5.04E-08	2.66E-10	3.26E-10	2.26E-08	6.35E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.68E-01	2.23E-06	1.32E-03	9.09E-03	1.02E-03	1.69E-05	1.52E-02	1.81E-04	-7.33E-02
Eutrophication – freshwater	EP – F	kg P eq.	7.97E-04	9.78E-09	-3.20E-05	1.68E-04	5.50E-06	7.42E-08	8.79E-05	3.05E-06	-1.81E-04
Eutrophication – marine	EP – M	kg N eq.	3.78E-02	6.38E-07	1.94E-04	1.55E-03	1.51E-04	4.84E-06	2.44E-03	3.35E-03	-1.47E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.09E-01	6.99E-06	2.13E-03	1.32E-02	1.62E-03	5.30E-05	2.63E-02	6.59E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.30E-01	1.73E-06	4.36E-04	3.85E-03	4.26E-04	1.31E-05	6.82E-03	2.28E-04	-3.98E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	1.01E-04	1.02E-09	2.74E-06	4.06E-06	1.81E-07	7.76E-09	3.13E-06	6.56E-08	-2.35E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	6.27E+02	4.02E-03	-1.25E+00	3.19E+01	6.63E-01	3.05E-02	1.48E+01	5.21E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	1.01E+01	8.38E-05	7.93E-01	3.47E+01	2.28E-02	6.36E-04	1.35E+00	2.11E-02	-5.69E+01

Table 143 | Resource use per m² of Equitilt® 0.6mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.00E+01	4.09E-05	4.22E-01	3.26E-01	1.20E-01	3.10E-04	1.70E+00	8.96E-03	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	2.00E+01	4.09E-05	4.22E-01	3.26E-01	1.20E-01	3.10E-04	1.70E+00	8.96E-03	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.62E+02	4.02E-03	2.73E+00	3.19E+01	6.63E-01	3.05E-02	1.48E+01	5.21E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	6.63E+01	0.00E+00	-4.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.25E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	6.28E+02	4.02E-03	-1.74E+00	3.19E+01	6.63E-01	3.05E-02	1.48E+01	-6.19E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.37E-01	4.79E-07	1.43E-04	3.67E-03	1.14E-04	3.63E-06	2.11E-03	2.96E-04	-2.92E-03

Table 144 | Waste generated per m² of Equitilt® 0.6mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.64E-05	5.29E-09	-1.05E-05	1.08E-05	4.50E-07	4.01E-08	7.98E-06	7.42E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	1.05E+00	2.78E-05	4.26E-01	6.54E-02	8.58E-03	2.11E-04	2.33E-01	2.18E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.57E-03	2.11E-11	2.00E-05	6.94E-06	4.39E-09	1.60E-10	8.68E-08	2.94E-06	-9.80E-08

Table 145 | Output flows per m² of Equitilt® 0.6mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 146 | Additional environmental impacts per m² of Equitilt® 0.6mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.18E+01	2.77E-04	8.89E-02	1.68E+00	1.37E-01	2.10E-03	2.28E+00	1.41E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.08E-06	1.46E-11	-5.26E-11	8.57E-08	8.88E-09	1.11E-10	1.33E-07	3.45E-09	-5.01E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.46E-01	1.52E-07	2.27E-02	4.85E-02	3.05E-05	1.15E-06	6.05E-04	2.35E-03	-6.80E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.63E+02	2.16E-03	-3.98E-01	7.90E+00	3.79E-01	1.64E-02	7.00E+00	8.92E-01	-1.53E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.74E-08	1.37E-13	8.46E-09	7.57E-10	4.32E-11	1.04E-12	6.86E-10	2.41E-11	-2.53E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	7.35E+01	1.38E-03	-9.45E-01	5.34E+00	3.50E-01	1.05E-02	5.93E+00	2.80E-01	-1.51E+02
Soil quality	SQP	Pt	4.74E+01	1.05E-03	1.20E+00	6.96E-01	4.26E-01	7.93E-03	6.31E+00	1.12E+00	-1.28E+01

Table 147 | Environmental impacts per m² of Equitilt® 0.6mm steel – 100mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.21E+01	2.77E-04	1.73E-01	1.72E+00	1.38E-01	2.10E-03	2.29E+00	1.60E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.93E-07	3.40E-11	3.62E-08	4.29E-08	2.33E-10	2.58E-10	1.84E-08	5.03E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.29E-01	1.18E-06	3.55E-04	7.45E-03	2.11E-04	8.96E-06	3.57E-03	1.37E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.63E-02	2.70E-07	-2.42E-05	1.16E-03	7.30E-05	2.05E-06	1.18E-03	1.42E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.86E-02	7.94E-08	3.16E-05	4.60E-04	4.31E-06	6.02E-07	8.36E-05	2.84E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.01E-04	1.02E-09	2.74E-06	4.06E-06	1.81E-07	7.76E-09	3.13E-06	6.56E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.46E+02	4.04E-03	2.98E+00	2.91E+01	1.55E+00	3.06E-02	2.74E+01	4.91E-01	-1.57E+02

Table 148 | Environmental impacts per m² of Equitilt® 0.6mm steel – 100mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.76E-08	6.34E-15	7.74E-12	3.51E-11	5.02E-12	4.80E-14	7.64E-11	1.50E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	1.42E-15	1.46E-12	8.43E-13	8.52E-13	1.08E-14	1.24E-11	2.38E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.23E+01	7.41E-04	4.93E-01	4.93E-01	1.23E-02	5.62E-03	4.01E-01	3.85E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.46E-01	1.52E-07	2.27E-02	4.85E-02	3.06E-05	1.15E-06	6.06E-04	2.35E-03	-6.80E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.39E-02	2.77E-07	5.29E-05	9.55E-04	7.30E-05	2.10E-06	1.17E-03	4.23E-05	-8.81E-03
Resource depletion – water	RDW	m ³	2.08E-01	1.36E-06	8.94E-04	8.67E-03	9.97E-04	1.03E-05	1.51E-02	6.76E-04	-7.96E-03

Equitilt® 0.6mm steel – 125mm

Table 149 | Environmental impacts per m² of Equitilt® 0.6mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.50E+01	1.07E-04	5.76E-02	1.78E+00	1.39E-01	2.20E-03	2.31E+00	2.25E-01	-8.03E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-3.71E-01	4.61E-09	1.86E-01	2.94E-03	4.85E-04	9.44E-08	7.06E-03	1.49E-04	3.59E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	5.51E-03	8.91E-10	6.59E-05	5.63E-06	2.87E-08	1.82E-08	8.74E-07	2.58E-05	-8.38E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.47E+01	1.07E-04	2.44E-01	1.78E+00	1.40E-01	2.20E-03	2.32E+00	2.25E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.71E-07	1.64E-11	4.15E-08	5.04E-08	2.66E-10	3.35E-10	2.26E-08	7.41E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.73E-01	8.48E-07	1.27E-03	9.09E-03	1.02E-03	1.74E-05	1.52E-02	2.12E-04	-7.33E-02
Eutrophication – freshwater	EP – F	kg P eq.	8.76E-04	3.72E-09	-4.41E-05	1.68E-04	5.50E-06	7.63E-08	8.79E-05	3.63E-06	-1.81E-04
Eutrophication – marine	EP – M	kg N eq.	3.86E-02	2.43E-07	1.85E-04	1.55E-03	1.51E-04	4.97E-06	2.44E-03	4.06E-03	-1.47E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.18E-01	2.66E-06	2.05E-03	1.32E-02	1.62E-03	5.45E-05	2.63E-02	7.73E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.35E-01	6.57E-07	3.49E-04	3.85E-03	4.26E-04	1.35E-05	6.82E-03	2.69E-04	-3.98E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	1.03E-04	3.89E-10	2.94E-06	4.06E-06	1.81E-07	7.98E-09	3.13E-06	7.79E-08	-2.35E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	6.75E+02	1.53E-03	-2.24E+00	3.19E+01	6.63E-01	3.14E-02	1.48E+01	6.10E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	1.12E+01	3.19E-05	9.51E-01	3.47E+01	2.28E-02	6.53E-04	1.35E+00	2.47E-02	-5.69E+01

Table 150 | Resource use per m² of Equitilt® 0.6mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.12E+01	1.55E-05	4.60E-01	3.26E-01	1.20E-01	3.18E-04	1.70E+00	1.07E-02	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	2.12E+01	1.55E-05	4.60E-01	3.26E-01	1.20E-01	3.18E-04	1.70E+00	1.07E-02	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.95E+02	1.53E-03	2.58E+00	3.19E+01	6.63E-01	3.14E-02	1.48E+01	6.10E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	8.05E+01	0.00E+00	-5.41E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.57E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	6.75E+02	1.53E-03	-2.83E+00	3.19E+01	6.63E-01	3.14E-02	1.48E+01	-7.51E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.52E-01	1.82E-07	5.86E-05	3.67E-03	1.14E-04	3.74E-06	2.11E-03	3.46E-04	-2.92E-03

Table 151 | Waste generated per m² of Equitilt® 0.6mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.98E-05	2.01E-09	-1.38E-05	1.08E-05	4.50E-07	4.12E-08	7.98E-06	8.70E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	1.10E+00	1.06E-05	5.12E-01	6.54E-02	8.58E-03	2.16E-04	2.33E-01	2.51E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.58E-03	8.01E-12	2.10E-05	6.94E-06	4.39E-09	1.64E-10	8.68E-08	3.43E-06	-9.80E-08

Table 152 | Output flows per m² of Equitilt® 0.6mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 153 | Additional environmental impacts per m² of Equitilt® 0.6mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.31E+01	1.05E-04	6.40E-02	1.68E+00	1.37E-01	2.16E-03	2.28E+00	1.70E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.14E-06	5.57E-12	-3.04E-09	8.57E-08	8.88E-09	1.14E-10	1.33E-07	4.05E-09	-5.01E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.53E-01	5.79E-08	2.49E-02	4.85E-02	3.05E-05	1.19E-06	6.05E-04	2.76E-03	-6.80E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.74E+02	8.22E-04	-1.14E+00	7.90E+00	3.79E-01	1.69E-02	7.00E+00	1.07E+00	-1.53E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.97E-08	5.20E-14	9.85E-09	7.57E-10	4.32E-11	1.07E-12	6.86E-10	2.88E-11	-2.53E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	8.39E+01	5.25E-04	-1.67E+00	5.34E+00	3.50E-01	1.08E-02	5.93E+00	3.32E-01	-1.51E+02
Soil quality	SQP	Pt	5.35E+01	3.98E-04	1.24E+00	6.96E-01	4.26E-01	8.15E-03	6.31E+00	1.31E+00	-1.28E+01

Table 154 | Environmental impacts per m² of Equitilt® 0.6mm steel – 125mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.35E+01	1.06E-04	1.66E-01	1.72E+00	1.38E-01	2.16E-03	2.29E+00	1.93E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.30E-07	1.29E-11	3.59E-08	4.29E-08	2.33E-10	2.65E-10	1.84E-08	5.88E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.33E-01	4.49E-07	2.93E-04	7.45E-03	2.11E-04	9.21E-06	3.57E-03	1.62E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.68E-02	1.03E-07	-6.37E-05	1.16E-03	7.30E-05	2.10E-06	1.18E-03	1.72E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.89E-02	3.02E-08	1.81E-05	4.60E-04	4.31E-06	6.19E-07	8.36E-05	3.42E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.03E-04	3.89E-10	2.94E-06	4.06E-06	1.81E-07	7.98E-09	3.13E-06	7.79E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.76E+02	1.54E-03	2.72E+00	2.91E+01	1.55E+00	3.15E-02	2.74E+01	5.75E-01	-1.57E+02

Table 155 | Environmental impacts per m² of Equitilt® 0.6mm steel – 125mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.83E-08	2.41E-15	7.07E-12	3.51E-11	5.02E-12	4.94E-14	7.64E-11	1.77E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	5.42E-16	1.53E-12	8.43E-13	8.52E-13	1.11E-14	1.24E-11	2.79E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.30E+01	2.82E-04	5.00E-01	4.93E-01	1.23E-02	5.78E-03	4.01E-01	4.42E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.53E-01	5.79E-08	2.49E-02	4.85E-02	3.06E-05	1.19E-06	6.06E-04	2.76E-03	-6.80E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.45E-02	1.05E-07	1.41E-05	9.55E-04	7.30E-05	2.16E-06	1.17E-03	4.98E-05	-8.81E-03
Resource depletion – water	RDW	m ³	2.43E-01	5.17E-07	6.74E-04	8.67E-03	9.97E-04	1.06E-05	1.51E-02	7.91E-04	-7.96E-03

Equitilt® 0.6mm steel – 150mm

Table 156 | Environmental impacts per m² of Equitilt® 0.6mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.65E+01	2.66E-04	1.52E-02	1.78E+00	1.39E-01	2.26E-03	2.31E+00	2.65E-01	-8.03E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-4.86E-01	1.14E-08	2.37E-01	2.94E-03	4.85E-04	9.70E-08	7.06E-03	1.76E-04	3.59E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	5.81E-03	2.21E-09	6.93E-05	5.63E-06	2.87E-08	1.88E-08	8.74E-07	2.99E-05	-8.38E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.61E+01	2.66E-04	2.52E-01	1.78E+00	1.40E-01	2.26E-03	2.32E+00	2.65E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	6.22E-07	4.05E-11	4.12E-08	5.04E-08	2.66E-10	3.45E-10	2.26E-08	8.51E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.79E-01	2.10E-06	1.20E-03	9.09E-03	1.02E-03	1.79E-05	1.52E-02	2.45E-04	-7.33E-02
Eutrophication – freshwater	EP – F	kg P eq.	9.77E-04	9.22E-09	-6.31E-05	1.68E-04	5.50E-06	7.84E-08	8.79E-05	4.23E-06	-1.81E-04
Eutrophication – marine	EP – M	kg N eq.	3.96E-02	6.01E-07	1.72E-04	1.55E-03	1.51E-04	5.11E-06	2.44E-03	4.78E-03	-1.47E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.28E-01	6.59E-06	1.92E-03	1.32E-02	1.62E-03	5.60E-05	2.63E-02	8.91E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.40E-01	1.63E-06	2.10E-04	3.85E-03	4.26E-04	1.38E-05	6.82E-03	3.11E-04	-3.98E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	1.05E-04	9.65E-10	3.25E-06	4.06E-06	1.81E-07	8.20E-09	3.13E-06	9.05E-08	-2.35E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	7.24E+02	3.79E-03	-3.79E+00	3.19E+01	6.63E-01	3.22E-02	1.48E+01	7.03E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	1.24E+01	7.90E-05	1.19E+00	3.47E+01	2.28E-02	6.72E-04	1.35E+00	2.84E-02	-5.69E+01

Table 157 | Resource use per m² of Equitilt® 0.6mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.29E+01	3.85E-05	5.20E-01	3.26E-01	1.20E-01	3.27E-04	1.70E+00	1.25E-02	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	2.29E+01	3.85E-05	5.20E-01	3.26E-01	1.20E-01	3.27E-04	1.70E+00	1.25E-02	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.29E+02	3.79E-03	2.35E+00	3.19E+01	6.63E-01	3.22E-02	1.48E+01	7.03E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	9.50E+01	0.00E+00	-6.89E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.93E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	7.24E+02	3.79E-03	-4.55E+00	3.19E+01	6.63E-01	3.22E-02	1.48E+01	-8.86E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.67E-01	4.52E-07	-7.42E-05	3.67E-03	1.14E-04	3.84E-06	2.11E-03	3.98E-04	-2.92E-03

Table 158 | Waste generated per m² of Equitilt® 0.6mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	7.49E-05	4.98E-09	-1.89E-05	1.08E-05	4.50E-07	4.24E-08	7.98E-06	1.00E-06	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	1.16E+00	2.62E-05	6.32E-01	6.54E-02	8.58E-03	2.23E-04	2.33E-01	2.85E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.59E-03	1.98E-11	2.25E-05	6.94E-06	4.39E-09	1.69E-10	8.68E-08	3.95E-06	-9.80E-08

Table 159 | Output flows per m² of Equitilt® 0.6mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 160 | Additional environmental impacts per m² of Equitilt® 0.6mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.45E+01	2.61E-04	2.45E-02	1.68E+00	1.37E-01	2.22E-03	2.28E+00	2.00E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.21E-06	1.38E-11	-7.74E-09	8.57E-08	8.88E-09	1.17E-10	1.33E-07	4.66E-09	-5.01E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.64E-01	1.43E-07	2.84E-02	4.85E-02	3.05E-05	1.22E-06	6.05E-04	3.18E-03	-6.80E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.87E+02	2.04E-03	-2.31E+00	7.90E+00	3.79E-01	1.73E-02	7.00E+00	1.25E+00	-1.53E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	3.32E-08	1.29E-13	1.20E-08	7.57E-10	4.32E-11	1.10E-12	6.86E-10	3.35E-11	-2.53E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	9.65E+01	1.30E-03	-2.82E+00	5.34E+00	3.50E-01	1.11E-02	5.93E+00	3.84E-01	-1.51E+02
Soil quality	SQP	Pt	6.31E+01	9.86E-04	1.32E+00	6.96E-01	4.26E-01	8.38E-03	6.31E+00	1.52E+00	-1.28E+01

Table 161 | Environmental impacts per m² of Equitilt® 0.6mm steel – 150mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.49E+01	2.61E-04	1.54E-01	1.72E+00	1.38E-01	2.22E-03	2.29E+00	2.27E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.78E-07	3.21E-11	3.53E-08	4.29E-08	2.33E-10	2.73E-10	1.84E-08	6.75E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.38E-01	1.11E-06	1.93E-04	7.45E-03	2.11E-04	9.47E-06	3.57E-03	1.86E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.75E-02	2.54E-07	-1.26E-04	1.16E-03	7.30E-05	2.16E-06	1.18E-03	2.03E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.92E-02	7.49E-08	-3.22E-06	4.60E-04	4.31E-06	6.36E-07	8.36E-05	4.01E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.05E-04	9.65E-10	3.25E-06	4.06E-06	1.81E-07	8.20E-09	3.13E-06	9.06E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.08E+02	3.81E-03	2.32E+00	2.91E+01	1.55E+00	3.24E-02	2.74E+01	6.63E-01	-1.57E+02

Table 162 | Environmental impacts per m² of Equitilt® 0.6mm steel – 150mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.93E-08	5.97E-15	6.01E-12	3.51E-11	5.02E-12	5.08E-14	7.64E-11	2.04E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	1.34E-15	1.63E-12	8.43E-13	8.52E-13	1.14E-14	1.24E-11	3.22E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.40E+01	6.98E-04	5.09E-01	4.93E-01	1.23E-02	5.94E-03	4.01E-01	5.01E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.64E-01	1.44E-07	2.84E-02	4.85E-02	3.06E-05	1.22E-06	6.06E-04	3.19E-03	-6.80E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.53E-02	2.61E-07	-4.73E-05	9.55E-04	7.30E-05	2.22E-06	1.17E-03	5.76E-05	-8.81E-03
Resource depletion – water	RDW	m ³	2.79E-01	1.28E-06	3.27E-04	8.67E-03	9.97E-04	1.09E-05	1.51E-02	9.09E-04	-7.96E-03

Equitilt® 0.6mm steel – 200mm

Table 163 | Environmental impacts per m² of Equitilt® 0.6mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.79E+01	1.67E-04	-8.05E-02	1.78E+00	1.20E-01	2.39E-03	2.31E+00	3.44E-01	-8.03E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-6.90E-01	7.16E-09	3.28E-01	2.94E-03	2.51E-04	1.02E-07	7.06E-03	2.28E-04	3.59E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	6.35E-03	1.38E-09	1.23E-04	5.63E-06	4.79E-05	1.98E-08	8.74E-07	3.80E-05	-8.38E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.72E+01	1.67E-04	2.48E-01	1.78E+00	1.20E-01	2.39E-03	2.32E+00	3.45E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.46E-07	2.54E-11	2.37E-07	5.04E-08	1.96E-07	3.63E-10	2.26E-08	1.07E-08	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.80E-01	1.32E-06	1.48E-03	9.09E-03	1.43E-03	1.88E-05	1.52E-02	3.10E-04	-7.33E-02
Eutrophication – freshwater	EP – F	kg P eq.	1.11E-03	5.78E-09	-9.37E-05	1.68E-04	8.97E-06	8.27E-08	8.79E-05	5.43E-06	-1.81E-04
Eutrophication – marine	EP – M	kg N eq.	3.92E-02	3.77E-07	1.80E-04	1.55E-03	1.83E-04	5.39E-06	2.44E-03	6.24E-03	-1.47E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.23E-01	4.13E-06	2.07E-03	1.32E-02	2.01E-03	5.91E-05	2.63E-02	1.13E-03	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.43E-01	1.02E-06	3.57E-04	3.85E-03	8.22E-04	1.46E-05	6.82E-03	3.96E-04	-3.98E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	1.04E-04	6.05E-10	3.79E-06	4.06E-06	1.52E-07	8.65E-09	3.13E-06	1.16E-07	-2.35E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	7.96E+02	2.38E-03	5.66E+00	3.19E+01	1.29E+01	3.40E-02	1.48E+01	8.88E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	1.42E+01	4.95E-05	1.62E+00	3.47E+01	5.79E-03	7.08E-04	1.35E+00	3.58E-02	-5.69E+01

Table 164 | Resource use per m² of Equitilt® 0.6mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.58E+01	2.42E-05	5.40E-01	3.26E-01	3.12E-02	3.45E-04	1.70E+00	1.60E-02	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy – total	PERT	MJ	2.58E+01	2.42E-05	5.40E-01	3.26E-01	3.12E-02	3.45E-04	1.70E+00	1.60E-02	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.73E+02	2.38E-03	1.42E+01	3.19E+01	1.29E+01	3.40E-02	1.48E+01	8.88E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.24E+02	0.00E+00	-9.56E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.16E+02	0.00E+00
Primary non renewable energy – total	PENRT	MJ	7.97E+02	2.38E-03	4.62E+00	3.19E+01	1.29E+01	3.40E-02	1.48E+01	-1.16E+02	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.95E-01	2.83E-07	-3.47E-04	3.67E-03	7.94E-05	4.05E-06	2.11E-03	5.01E-04	-2.92E-03

Table 165 | Waste generated per m² of Equitilt® 0.6mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	5.43E-05	3.12E-09	4.09E-06	1.08E-05	3.28E-05	4.47E-08	7.98E-06	1.26E-06	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	1.02E+00	1.64E-05	8.45E-01	6.54E-02	6.11E-03	2.35E-04	2.33E-01	3.54E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.60E-03	1.24E-11	1.12E-04	6.94E-06	8.69E-05	1.78E-10	8.68E-08	4.97E-06	-9.80E-08

Table 166 | Output flows per m² of Equitilt® 0.6mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 167 | Additional environmental impacts per m² of Equitilt® 0.6mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.56E+01	1.64E-04	-6.81E-02	1.68E+00	1.15E-01	2.34E-03	2.28E+00	2.60E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.20E-06	8.65E-12	-1.76E-08	8.57E-08	7.51E-09	1.24E-10	1.33E-07	5.90E-09	-5.01E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.83E-01	9.00E-08	8.90E-02	4.85E-02	5.43E-02	1.29E-06	6.05E-04	4.03E-03	-6.80E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	2.00E+02	1.28E-03	1.53E+00	7.90E+00	6.33E+00	1.83E-02	7.00E+00	1.61E+00	-1.53E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	3.85E-08	8.08E-14	1.60E-08	7.57E-10	8.35E-11	1.16E-12	6.86E-10	4.31E-11	-2.53E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	1.12E+02	8.16E-04	-1.69E+00	5.34E+00	3.54E+00	1.17E-02	5.93E+00	4.90E-01	-1.51E+02
Soil quality	SQP	Pt	7.43E+01	6.18E-04	2.52E+00	6.96E-01	1.49E+00	8.84E-03	6.31E+00	1.92E+00	-1.28E+01

Table 168 | Environmental impacts per m² of Equitilt® 0.6mm steel – 200mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.61E+01	1.64E-04	1.12E-01	1.72E+00	1.17E-01	2.34E-03	2.29E+00	2.96E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.54E-07	2.01E-11	1.89E-07	4.29E-08	1.55E-07	2.87E-10	1.84E-08	8.49E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.42E-01	6.98E-07	1.03E-03	7.45E-03	1.22E-03	9.98E-06	3.57E-03	2.36E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.77E-02	1.59E-07	-2.19E-04	1.16E-03	9.16E-05	2.28E-06	1.18E-03	2.65E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.95E-02	4.70E-08	4.10E-06	4.60E-04	4.99E-05	6.71E-07	8.36E-05	5.21E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.04E-04	6.05E-10	3.79E-06	4.06E-06	1.52E-07	8.65E-09	3.13E-06	1.16E-07	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.46E+02	2.39E-03	1.19E+01	2.91E+01	1.19E+01	3.41E-02	2.74E+01	8.37E-01	-1.57E+02

Table 169 | Environmental impacts per m² of Equitilt® 0.6mm steel – 200mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.11E-08	3.75E-15	4.14E-12	3.51E-11	5.05E-12	5.35E-14	7.64E-11	2.60E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	8.42E-16	1.53E-12	8.43E-13	5.62E-13	1.20E-14	1.24E-11	4.07E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.14E+01	4.38E-04	2.63E+00	4.93E-01	2.11E+00	6.26E-03	4.01E-01	6.18E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.83E-01	9.00E-08	8.90E-02	4.85E-02	5.43E-02	1.29E-06	6.06E-04	4.03E-03	-6.80E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.54E-02	1.64E-07	-5.79E-05	9.55E-04	1.72E-04	2.34E-06	1.17E-03	7.30E-05	-8.81E-03
Resource depletion – water	RDW	m ³	3.41E-01	8.03E-07	-1.10E-03	8.67E-03	1.91E-04	1.15E-05	1.51E-02	1.15E-03	-7.96E-03

Equitilt® 0.6mm steel – 250mm

Table 170 | Environmental impacts per m² of Equitilt® 0.6mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	5.25E+01	1.40E-04	-1.47E-01	1.78E+00	1.20E-01	2.52E-03	2.33E+00	4.25E-01	-8.08E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-8.65E-01	6.01E-09	4.08E-01	2.94E-03	2.51E-04	1.08E-07	7.11E-03	2.81E-04	3.61E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	6.85E-03	1.16E-09	1.29E-04	5.63E-06	4.79E-05	2.09E-08	8.80E-07	4.63E-05	-8.43E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	5.17E+01	1.40E-04	2.61E-01	1.78E+00	1.20E-01	2.52E-03	2.34E+00	4.25E-01	-8.08E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	8.03E-07	2.13E-11	2.36E-07	5.04E-08	1.96E-07	3.84E-10	2.27E-08	1.29E-08	-1.63E-08
Acidification potential	AP	mol H ⁺ eq.	2.01E-01	1.11E-06	1.36E-03	9.09E-03	1.43E-03	1.99E-05	1.53E-02	3.76E-04	-7.38E-02
Eutrophication – freshwater	EP – F	kg P eq.	1.34E-03	4.85E-09	-1.24E-04	1.68E-04	8.97E-06	8.74E-08	8.85E-05	6.64E-06	-1.83E-04
Eutrophication – marine	EP – M	kg N eq.	4.33E-02	3.17E-07	1.59E-04	1.55E-03	1.83E-04	5.70E-06	2.46E-03	7.71E-03	-1.48E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.67E-01	3.47E-06	1.86E-03	1.32E-02	2.01E-03	6.25E-05	2.65E-02	1.37E-03	-1.68E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.58E-01	8.57E-07	1.38E-04	3.85E-03	8.22E-04	1.54E-05	6.87E-03	4.81E-04	-4.00E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	1.13E-04	5.08E-10	4.28E-06	4.06E-06	1.52E-07	9.15E-09	3.15E-06	1.41E-07	-2.36E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	9.17E+02	2.00E-03	3.21E+00	3.19E+01	1.29E+01	3.59E-02	1.49E+01	1.07E+00	-1.06E+02
Water Depletion Potential	WDP	m ³	1.71E+01	4.16E-05	2.00E+00	3.47E+01	5.79E-03	7.49E-04	1.36E+00	4.33E-02	-5.73E+01

Table 171 | Resource use per m² of Equitilt® 0.6mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.89E+01	2.03E-05	6.35E-01	3.26E-01	3.12E-02	3.65E-04	1.71E+00	1.96E-02	-1.17E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy – total	PERT	MJ	2.89E+01	2.03E-05	6.35E-01	3.26E-01	3.12E-02	3.65E-04	1.71E+00	1.96E-02	-1.17E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	7.65E+02	2.00E-03	1.38E+01	3.19E+01	1.29E+01	3.59E-02	1.49E+01	1.07E+00	-1.06E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.52E+02	0.00E+00	-1.19E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.44E+02	0.00E+00
Primary non renewable energy – total	PENRT	MJ	9.18E+02	2.00E-03	1.92E+00	3.19E+01	1.29E+01	3.59E-02	1.49E+01	-1.43E+02	-1.06E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	2.29E-01	2.38E-07	-5.56E-04	3.67E-03	7.94E-05	4.28E-06	2.12E-03	6.06E-04	-2.94E-03

Table 172 | Waste generated per m² of Equitilt® 0.6mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	9.25E-05	2.62E-09	-4.05E-06	1.08E-05	3.28E-05	4.72E-08	8.03E-06	1.53E-06	-9.57E-06
Non-hazardous waste disposed	NHWD	kg	1.36E+00	1.38E-05	1.03E+00	6.54E-02	6.11E-03	2.48E-04	2.35E-01	4.23E+00	-1.21E+00
Radioactive waste disposed/stored	RWD	kg	1.61E-03	1.04E-11	1.15E-04	6.94E-06	8.69E-05	1.88E-10	8.74E-08	6.00E-06	-9.87E-08

Table 173 | Output flows per m² of Equitilt® 0.6mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 174 | Additional environmental impacts per m² of Equitilt® 0.6mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.99E+01	1.37E-04	-1.30E-01	1.68E+00	1.15E-01	2.47E-03	2.30E+00	3.21E-01	-6.97E+00
Particulate matter	PM	disease incidence	2.47E-06	7.26E-12	-2.50E-08	8.57E-08	7.51E-09	1.31E-10	1.34E-07	7.15E-09	-5.04E-07
Ionising radiation – human health	IRP	kBq U-235 eq	4.02E-01	7.55E-08	9.45E-02	4.85E-02	5.43E-02	1.36E-06	6.09E-04	4.89E-03	-6.84E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	2.37E+02	1.07E-03	-3.20E-01	7.90E+00	6.33E+00	1.93E-02	7.05E+00	1.98E+00	-1.54E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	4.50E-08	6.79E-14	1.95E-08	7.57E-10	8.35E-11	1.22E-12	6.91E-10	5.28E-11	-2.55E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	1.43E+02	6.85E-04	-3.50E+00	5.34E+00	3.54E+00	1.23E-02	5.97E+00	5.97E-01	-1.52E+02
Soil quality	SQP	Pt	9.55E+01	5.19E-04	2.64E+00	6.96E-01	1.49E+00	9.34E-03	6.35E+00	2.33E+00	-1.28E+01

Table 175 | Environmental impacts per m² of Equitilt® 0.6mm steel – 250mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	5.06E+01	1.38E-04	9.36E-02	1.72E+00	1.17E-01	2.48E-03	2.31E+00	3.65E-01	-6.95E+00
Ozone layer depletion	ODP	kg CFC-11 eq	7.52E-07	1.69E-11	1.88E-07	4.29E-08	1.55E-07	3.04E-10	1.86E-08	1.02E-08	-1.31E-08
Acidification potential	AP	kg SO ₂ eq	1.56E-01	5.86E-07	8.68E-04	7.45E-03	1.22E-03	1.06E-05	3.60E-03	2.87E-04	-4.57E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.99E-02	1.34E-07	-3.17E-04	1.16E-03	9.16E-05	2.41E-06	1.19E-03	3.27E-03	-6.29E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.04E-02	3.94E-08	-2.94E-05	4.60E-04	4.99E-05	7.10E-07	8.42E-05	6.41E-05	-1.66E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.13E-04	5.08E-10	4.28E-06	4.06E-06	1.52E-07	9.15E-09	3.15E-06	1.42E-07	-2.36E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	7.32E+02	2.00E-03	1.13E+01	2.91E+01	1.19E+01	3.61E-02	2.76E+01	1.01E+00	-1.58E+02

Table 176 | Environmental impacts per m² of Equitilt® 0.6mm steel – 250mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.28E-08	3.14E-15	2.47E-12	3.51E-11	5.05E-12	5.66E-14	7.70E-11	3.15E-12	-3.84E-10
Human Toxicity non-cancer	HTnc	CTUh	9.24E-09	7.07E-16	1.69E-12	8.43E-13	5.62E-13	1.27E-14	1.25E-11	4.92E-13	-9.86E-12
Land use	LU	kg C deficit eq.	1.75E+01	3.68E-04	2.64E+00	4.93E-01	2.11E+00	6.62E-03	4.04E-01	7.36E-01	-1.50E+00
Ionising radiation	IR	kBq U235 eq	4.02E-01	7.56E-08	9.45E-02	4.85E-02	5.43E-02	1.36E-06	6.10E-04	4.89E-03	-6.85E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.81E-02	1.37E-07	-1.54E-04	9.55E-04	1.72E-04	2.47E-06	1.18E-03	8.87E-05	-8.87E-03
Resource depletion – water	RDW	m ³	4.22E-01	6.74E-07	-1.65E-03	8.67E-03	1.91E-04	1.21E-05	1.52E-02	1.39E-03	-8.02E-03

Equitilt® 0.7mm steel – 50mm

Table 177 | Environmental impacts per m² of Equitilt® 0.7mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.44E+01	2.28E-04	1.45E-01	1.78E+00	1.39E-01	2.27E-03	2.62E+00	1.07E-01	-9.09E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-1.47E-01	9.77E-09	8.15E-02	2.94E-03	4.85E-04	9.72E-08	8.00E-03	7.19E-05	4.06E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	5.12E-03	1.89E-09	5.90E-05	5.63E-06	2.87E-08	1.88E-08	9.90E-07	1.40E-05	-9.49E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.43E+01	2.28E-04	2.27E-01	1.78E+00	1.40E-01	2.27E-03	2.63E+00	1.07E-01	-9.09E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.86E-07	3.47E-11	4.20E-08	5.04E-08	2.66E-10	3.45E-10	2.56E-08	4.32E-09	-1.84E-08
Acidification potential	AP	mol H ⁺ eq.	1.71E-01	1.80E-06	1.43E-03	9.09E-03	1.02E-03	1.79E-05	1.72E-02	1.19E-04	-8.30E-02
Eutrophication – freshwater	EP – F	kg P eq.	6.39E-04	7.89E-09	-4.74E-06	1.68E-04	5.50E-06	7.85E-08	9.96E-05	1.89E-06	-2.06E-04
Eutrophication – marine	EP – M	kg N eq.	3.92E-02	5.15E-07	2.13E-04	1.55E-03	1.51E-04	5.12E-06	2.77E-03	1.89E-03	-1.67E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.26E-01	5.64E-06	2.32E-03	1.32E-02	1.62E-03	5.61E-05	2.98E-02	4.37E-04	-1.89E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.32E-01	1.39E-06	6.35E-04	3.85E-03	4.26E-04	1.39E-05	7.73E-03	1.48E-04	-4.50E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	9.73E-05	8.26E-10	2.30E-06	4.06E-06	1.81E-07	8.21E-09	3.55E-06	4.12E-08	-2.66E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	5.73E+02	3.25E-03	9.75E-01	3.19E+01	6.63E-01	3.23E-02	1.68E+01	3.48E-01	-1.19E+02
Water Depletion Potential	WDP	m ³	8.02E+00	6.76E-05	4.43E-01	3.47E+01	2.28E-02	6.72E-04	1.53E+00	1.42E-02	-6.44E+01

Table 178 | Resource use per m² of Equitilt® 0.7mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.77E+01	3.30E-05	3.36E-01	3.26E-01	1.20E-01	3.28E-04	1.92E+00	5.49E-03	-1.32E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy – total	PERT	MJ	1.77E+01	3.30E-05	3.36E-01	3.26E-01	1.20E-01	3.28E-04	1.92E+00	5.49E-03	-1.32E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.35E+02	3.25E-03	3.06E+00	3.19E+01	6.63E-01	3.23E-02	1.68E+01	3.48E-01	-1.19E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	3.78E+01	0.00E+00	-2.34E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.52E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	5.73E+02	3.25E-03	7.19E-01	3.19E+01	6.63E-01	3.23E-02	1.68E+01	-3.48E+01	-1.19E+02
Use of secondary material	SM	kg	1.50E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.11E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.09E-01	3.87E-07	3.33E-04	3.67E-03	1.14E-04	3.84E-06	2.39E-03	1.99E-04	-3.31E-03

Table 179 | Waste generated per m² of Equitilt® 0.7mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.27E-05	4.27E-09	-3.09E-06	1.08E-05	4.50E-07	4.24E-08	9.04E-06	4.96E-07	-1.08E-05
Non-hazardous waste disposed	NHWD	kg	9.95E-01	2.24E-05	2.54E-01	6.54E-02	8.58E-03	2.23E-04	2.64E-01	1.58E+00	-1.36E+00
Radioactive waste disposed/stored	RWD	kg	1.57E-03	1.70E-11	1.78E-05	6.94E-06	4.39E-09	1.69E-10	9.84E-08	1.99E-06	-1.11E-07

Table 180 | Output flows per m² of Equitilt® 0.7mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E+01	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 181 | Additional environmental impacts per m² of Equitilt® 0.7mm steel – 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.28E+01	2.23E-04	1.46E-01	1.68E+00	1.37E-01	2.22E-03	2.59E+00	8.12E-02	-7.84E+00
Particulate matter	PM	disease incidence	2.13E-06	1.18E-11	6.68E-09	8.57E-08	8.88E-09	1.17E-10	1.51E-07	2.29E-09	-5.67E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.30E-01	1.23E-07	1.77E-02	4.85E-02	3.05E-05	1.22E-06	6.85E-04	1.55E-03	-7.70E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.41E+02	1.74E-03	1.28E+00	7.90E+00	3.79E-01	1.73E-02	7.93E+00	5.35E-01	-1.74E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.23E-08	1.10E-13	5.33E-09	7.57E-10	4.32E-11	1.10E-12	7.77E-10	1.48E-11	-2.86E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	5.28E+01	1.11E-03	7.00E-01	5.34E+00	3.50E-01	1.11E-02	6.72E+00	1.79E-01	-1.71E+02
Soil quality	SQP	Pt	3.51E+01	8.44E-04	1.09E+00	6.96E-01	4.26E-01	8.39E-03	7.15E+00	7.38E-01	-1.44E+01

Table 182 | Environmental impacts per m² of Equitilt® 0.7mm steel – 50mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.30E+01	2.24E-04	1.90E-01	1.72E+00	1.38E-01	2.22E-03	2.59E+00	9.20E-02	-7.82E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.40E-07	2.74E-11	3.70E-08	4.29E-08	2.33E-10	2.73E-10	2.09E-08	3.43E-09	-1.47E-08
Acidification potential	AP	kg SO ₂ eq	1.30E-01	9.53E-07	4.99E-04	7.45E-03	2.11E-04	9.48E-06	4.05E-03	9.05E-05	-5.14E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.63E-02	2.18E-07	6.50E-05	1.16E-03	7.30E-05	2.16E-06	1.33E-03	8.04E-04	-7.08E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.00E-02	6.41E-08	6.21E-05	4.60E-04	4.31E-06	6.37E-07	9.47E-05	1.65E-05	-1.87E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	9.74E-05	8.26E-10	2.30E-06	4.06E-06	1.81E-07	8.21E-09	3.55E-06	4.12E-08	-2.66E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.26E+02	3.26E-03	3.56E+00	2.91E+01	1.55E+00	3.24E-02	3.10E+01	3.28E-01	-1.78E+02

Table 183 | Environmental impacts per m² of Equitilt® 0.7mm steel – 50mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.62E-08	5.11E-15	9.26E-12	3.51E-11	5.02E-12	5.08E-14	8.66E-11	9.73E-13	-4.32E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	1.15E-15	1.32E-12	8.43E-13	8.52E-13	1.14E-14	1.40E-11	1.59E-13	-1.11E-11
Land use	LU	kg C deficit eq.	1.17E+01	5.98E-04	4.80E-01	4.93E-01	1.23E-02	5.94E-03	4.54E-01	2.84E-01	-1.69E+00
Ionising radiation	IR	kBq U235 eq	3.31E-01	1.23E-07	1.77E-02	4.85E-02	3.06E-05	1.22E-06	6.86E-04	1.55E-03	-7.70E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.35E-02	2.23E-07	1.41E-04	9.55E-04	7.30E-05	2.22E-06	1.32E-03	2.77E-05	-9.98E-03
Resource depletion – water	RDW	m ³	1.40E-01	1.10E-06	1.39E-03	8.67E-03	9.97E-04	1.09E-05	1.71E-02	4.56E-04	-9.02E-03

Equitilt® 0.7mm steel – 75mm

Table 184 | Environmental impacts per m² of Equitilt® 0.7mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.58E+01	2.83E-04	1.22E-01	1.78E+00	1.39E-01	2.33E-03	2.62E+00	1.47E-01	-9.09E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-2.02E-01	1.21E-08	1.09E-01	2.94E-03	4.85E-04	9.98E-08	8.00E-03	9.82E-05	4.06E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	5.28E-03	2.34E-09	6.08E-05	5.63E-06	2.87E-08	1.93E-08	9.90E-07	1.81E-05	-9.49E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.56E+01	2.83E-04	2.31E-01	1.78E+00	1.40E-01	2.33E-03	2.63E+00	1.47E-01	-9.09E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.20E-07	4.30E-11	4.19E-08	5.04E-08	2.66E-10	3.54E-10	2.56E-08	5.43E-09	-1.84E-08
Acidification potential	AP	mol H ⁺ eq.	1.76E-01	2.23E-06	1.39E-03	9.09E-03	1.02E-03	1.84E-05	1.72E-02	1.52E-04	-8.30E-02
Eutrophication – freshwater	EP – F	kg P eq.	7.11E-04	9.79E-09	-1.50E-05	1.68E-04	5.50E-06	8.06E-08	9.96E-05	2.49E-06	-2.06E-04
Eutrophication – marine	EP – M	kg N eq.	4.01E-02	6.38E-07	2.06E-04	1.55E-03	1.51E-04	5.26E-06	2.77E-03	2.62E-03	-1.67E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.35E-01	7.00E-06	2.25E-03	1.32E-02	1.62E-03	5.76E-05	2.98E-02	5.56E-04	-1.89E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.36E-01	1.73E-06	5.61E-04	3.85E-03	4.26E-04	1.42E-05	7.73E-03	1.90E-04	-4.50E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	9.86E-05	1.02E-09	2.46E-06	4.06E-06	1.81E-07	8.44E-09	3.55E-06	5.39E-08	-2.66E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	6.19E+02	4.03E-03	1.39E-01	3.19E+01	6.63E-01	3.32E-02	1.68E+01	4.41E-01	-1.19E+02
Water Depletion Potential	WDP	m ³	9.12E+00	8.39E-05	5.74E-01	3.47E+01	2.28E-02	6.91E-04	1.53E+00	1.79E-02	-6.44E+01

Table 185 | Resource use per m² of Equitilt® 0.7mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.87E+01	4.09E-05	3.69E-01	3.26E-01	1.20E-01	3.37E-04	1.92E+00	7.28E-03	-1.32E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	1.87E+01	4.09E-05	3.69E-01	3.26E-01	1.20E-01	3.37E-04	1.92E+00	7.28E-03	-1.32E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.68E+02	4.03E-03	2.93E+00	3.19E+01	6.63E-01	3.32E-02	1.68E+01	4.41E-01	-1.19E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	5.20E+01	0.00E+00	-3.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.89E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	6.20E+02	4.03E-03	-2.03E-01	3.19E+01	6.63E-01	3.32E-02	1.68E+01	-4.84E+01	-1.19E+02
Use of secondary material	SM	kg	1.50E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.11E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.24E-01	4.80E-07	2.62E-04	3.67E-03	1.14E-04	3.95E-06	2.39E-03	2.51E-04	-3.31E-03

Table 186 | Waste generated per m² of Equitilt® 0.7mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.56E-05	5.29E-09	-5.87E-06	1.08E-05	4.50E-07	4.36E-08	9.04E-06	6.28E-07	-1.08E-05
Non-hazardous waste disposed	NHWD	kg	1.03E+00	2.78E-05	3.18E-01	6.54E-02	8.58E-03	2.29E-04	2.64E-01	1.92E+00	-1.36E+00
Radioactive waste disposed/stored	RWD	kg	1.58E-03	2.11E-11	1.86E-05	6.94E-06	4.39E-09	1.74E-10	9.84E-08	2.51E-06	-1.11E-07

Table 187 | Output flows per m² of Equitilt® 0.7mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E+01	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 188 | Additional environmental impacts per m² of Equitilt® 0.7mm steel – 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.41E+01	2.77E-04	1.24E-01	1.68E+00	1.37E-01	2.28E-03	2.59E+00	1.11E-01	-7.84E+00
Particulate matter	PM	disease incidence	2.19E-06	1.46E-11	4.16E-09	8.57E-08	8.88E-09	1.21E-10	1.51E-07	2.91E-09	-5.67E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.37E-01	1.52E-07	1.96E-02	4.85E-02	3.05E-05	1.25E-06	6.85E-04	1.98E-03	-7.70E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.51E+02	2.16E-03	6.53E-01	7.90E+00	3.79E-01	1.78E-02	7.93E+00	7.18E-01	-1.74E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.44E-08	1.37E-13	6.51E-09	7.57E-10	4.32E-11	1.13E-12	7.77E-10	1.96E-11	-2.86E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	6.26E+01	1.38E-03	8.30E-02	5.34E+00	3.50E-01	1.14E-02	6.72E+00	2.32E-01	-1.71E+02
Soil quality	SQP	Pt	4.03E+01	1.05E-03	1.13E+00	6.96E-01	4.26E-01	8.62E-03	7.15E+00	9.41E-01	-1.44E+01

Table 189 | Environmental impacts per m² of Equitilt® 0.7mm steel – 75mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.43E+01	2.78E-04	1.84E-01	1.72E+00	1.38E-01	2.29E-03	2.59E+00	1.26E-01	-7.82E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.75E-07	3.40E-11	3.67E-08	4.29E-08	2.33E-10	2.80E-10	2.09E-08	4.30E-09	-1.47E-08
Acidification potential	AP	kg SO ₂ eq	1.34E-01	1.18E-06	4.45E-04	7.45E-03	2.11E-04	9.74E-06	4.05E-03	1.16E-04	-5.14E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.69E-02	2.70E-07	3.15E-05	1.16E-03	7.30E-05	2.22E-06	1.33E-03	1.11E-03	-7.08E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.02E-02	7.95E-08	5.06E-05	4.60E-04	4.31E-06	6.55E-07	9.47E-05	2.25E-05	-1.87E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	9.86E-05	1.02E-09	2.46E-06	4.06E-06	1.81E-07	8.44E-09	3.55E-06	5.39E-08	-2.66E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.55E+02	4.04E-03	3.34E+00	2.91E+01	1.55E+00	3.33E-02	3.10E+01	4.15E-01	-1.78E+02

Table 190 | Environmental impacts per m² of Equitilt® 0.7mm steel – 75mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.67E-08	6.34E-15	8.69E-12	3.51E-11	5.02E-12	5.22E-14	8.66E-11	1.25E-12	-4.32E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	1.43E-15	1.37E-12	8.43E-13	8.52E-13	1.17E-14	1.40E-11	2.02E-13	-1.11E-11
Land use	LU	kg C deficit eq.	1.23E+01	7.42E-04	4.85E-01	4.93E-01	1.23E-02	6.11E-03	4.54E-01	3.42E-01	-1.69E+00
Ionising radiation	IR	kBq U235 eq	3.37E-01	1.52E-07	1.96E-02	4.85E-02	3.06E-05	1.25E-06	6.86E-04	1.98E-03	-7.70E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.41E-02	2.77E-07	1.08E-04	9.55E-04	7.30E-05	2.28E-06	1.32E-03	3.55E-05	-9.98E-03
Resource depletion – water	RDW	m ³	1.74E-01	1.36E-06	1.20E-03	8.67E-03	9.97E-04	1.12E-05	1.71E-02	5.75E-04	-9.02E-03

Equitilt® 0.7mm steel – 100mm

Table 191 | Environmental impacts per m² of Equitilt® 0.7mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.73E+01	2.83E-04	8.44E-02	1.78E+00	1.39E-01	2.39E-03	2.62E+00	1.87E-01	-9.09E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-3.04E-01	1.21E-08	1.54E-01	2.94E-03	4.85E-04	1.02E-07	8.00E-03	1.24E-04	4.06E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	5.56E-03	2.34E-09	6.38E-05	5.63E-06	2.87E-08	1.98E-08	9.90E-07	2.22E-05	-9.49E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.71E+01	2.83E-04	2.39E-01	1.78E+00	1.40E-01	2.39E-03	2.63E+00	1.87E-01	-9.09E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.67E-07	4.30E-11	4.17E-08	5.04E-08	2.66E-10	3.64E-10	2.56E-08	6.52E-09	-1.84E-08
Acidification potential	AP	mol H ⁺ eq.	1.82E-01	2.23E-06	1.32E-03	9.09E-03	1.02E-03	1.88E-05	1.72E-02	1.85E-04	-8.30E-02
Eutrophication – freshwater	EP – F	kg P eq.	8.05E-04	9.78E-09	-3.20E-05	1.68E-04	5.50E-06	8.27E-08	9.96E-05	3.09E-06	-2.06E-04
Eutrophication – marine	EP – M	kg N eq.	4.10E-02	6.38E-07	1.94E-04	1.55E-03	1.51E-04	5.40E-06	2.77E-03	3.35E-03	-1.67E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.45E-01	6.99E-06	2.13E-03	1.32E-02	1.62E-03	5.91E-05	2.98E-02	6.74E-04	-1.89E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.41E-01	1.73E-06	4.36E-04	3.85E-03	4.26E-04	1.46E-05	7.73E-03	2.32E-04	-4.50E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	1.01E-04	1.02E-09	2.74E-06	4.06E-06	1.81E-07	8.66E-09	3.55E-06	6.66E-08	-2.66E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	6.68E+02	4.02E-03	-1.25E+00	3.19E+01	6.63E-01	3.40E-02	1.68E+01	5.34E-01	-1.19E+02
Water Depletion Potential	WDP	m ³	1.03E+01	8.38E-05	7.93E-01	3.47E+01	2.28E-02	7.09E-04	1.53E+00	2.16E-02	-6.44E+01

Table 192 | Resource use per m² of Equitilt® 0.7mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.03E+01	4.09E-05	4.22E-01	3.26E-01	1.20E-01	3.46E-04	1.92E+00	9.07E-03	-1.32E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	2.03E+01	4.09E-05	4.22E-01	3.26E-01	1.20E-01	3.46E-04	1.92E+00	9.07E-03	-1.32E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.02E+02	4.02E-03	2.73E+00	3.19E+01	6.63E-01	3.40E-02	1.68E+01	5.34E-01	-1.19E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	6.63E+01	0.00E+00	-4.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.25E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	6.69E+02	4.02E-03	-1.74E+00	3.19E+01	6.63E-01	3.40E-02	1.68E+01	-6.19E+01	-1.19E+02
Use of secondary material	SM	kg	1.50E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.11E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.39E-01	4.79E-07	1.43E-04	3.67E-03	1.14E-04	4.05E-06	2.39E-03	3.03E-04	-3.31E-03

Table 193 | Waste generated per m² of Equitilt® 0.7mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	7.03E-05	5.29E-09	-1.05E-05	1.08E-05	4.50E-07	4.47E-08	9.04E-06	7.60E-07	-1.08E-05
Non-hazardous waste disposed	NHWD	kg	1.09E+00	2.78E-05	4.26E-01	6.54E-02	8.58E-03	2.35E-04	2.64E-01	2.26E+00	-1.36E+00
Radioactive waste disposed/stored	RWD	kg	1.58E-03	2.11E-11	2.00E-05	6.94E-06	4.39E-09	1.78E-10	9.84E-08	3.02E-06	-1.11E-07

Table 194 | Output flows per m² of Equitilt® 0.7mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E+01	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 195 | Additional environmental impacts per m² of Equitilt® 0.7mm steel – 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.54E+01	2.77E-04	8.89E-02	1.68E+00	1.37E-01	2.34E-03	2.59E+00	1.41E-01	-7.84E+00
Particulate matter	PM	disease incidence	2.25E-06	1.46E-11	-5.26E-11	8.57E-08	8.88E-09	1.24E-10	1.51E-07	3.53E-09	-5.67E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.47E-01	1.52E-07	2.27E-02	4.85E-02	3.05E-05	1.29E-06	6.85E-04	2.40E-03	-7.70E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.64E+02	2.16E-03	-3.98E-01	7.90E+00	3.79E-01	1.83E-02	7.93E+00	9.00E-01	-1.74E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.75E-08	1.37E-13	8.46E-09	7.57E-10	4.32E-11	1.16E-12	7.77E-10	2.44E-11	-2.86E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	7.46E+01	1.38E-03	-9.45E-01	5.34E+00	3.50E-01	1.17E-02	6.72E+00	2.85E-01	-1.71E+02
Soil quality	SQP	Pt	4.89E+01	1.05E-03	1.20E+00	6.96E-01	4.26E-01	8.85E-03	7.15E+00	1.14E+00	-1.44E+01

Table 196 | Environmental impacts per m² of Equitilt® 0.7mm steel – 100mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.57E+01	2.77E-04	1.73E-01	1.72E+00	1.38E-01	2.35E-03	2.59E+00	1.61E-01	-7.82E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.20E-07	3.40E-11	3.62E-08	4.29E-08	2.33E-10	2.88E-10	2.09E-08	5.17E-09	-1.47E-08
Acidification potential	AP	kg SO ₂ eq	1.39E-01	1.18E-06	3.55E-04	7.45E-03	2.11E-04	9.99E-06	4.05E-03	1.40E-04	-5.14E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.75E-02	2.70E-07	-2.42E-05	1.16E-03	7.30E-05	2.28E-06	1.33E-03	1.42E-03	-7.08E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.05E-02	7.94E-08	3.16E-05	4.60E-04	4.31E-06	6.72E-07	9.47E-05	2.85E-05	-1.87E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.01E-04	1.02E-09	2.74E-06	4.06E-06	1.81E-07	8.66E-09	3.55E-06	6.66E-08	-2.66E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.87E+02	4.04E-03	2.98E+00	2.91E+01	1.55E+00	3.42E-02	3.10E+01	5.03E-01	-1.78E+02

Table 197 | Environmental impacts per m² of Equitilt® 0.7mm steel – 100mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.77E-08	6.34E-15	7.74E-12	3.51E-11	5.02E-12	5.36E-14	8.66E-11	1.53E-12	-4.32E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	1.42E-15	1.46E-12	8.43E-13	8.52E-13	1.20E-14	1.40E-11	2.44E-13	-1.11E-11
Land use	LU	kg C deficit eq.	1.32E+01	7.41E-04	4.93E-01	4.93E-01	1.23E-02	6.27E-03	4.54E-01	4.01E-01	-1.69E+00
Ionising radiation	IR	kBq U235 eq	3.47E-01	1.52E-07	2.27E-02	4.85E-02	3.06E-05	1.29E-06	6.86E-04	2.40E-03	-7.70E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.48E-02	2.77E-07	5.29E-05	9.55E-04	7.30E-05	2.34E-06	1.32E-03	4.32E-05	-9.98E-03
Resource depletion – water	RDW	m ³	2.10E-01	1.36E-06	8.94E-04	8.67E-03	9.97E-04	1.15E-05	1.71E-02	6.93E-04	-9.02E-03

Equitilt® 0.7mm steel – 125mm

Table 198 | Environmental impacts per m² of Equitilt® 0.7mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.88E+01	1.07E-04	5.76E-02	1.78E+00	1.39E-01	2.45E-03	2.62E+00	2.25E-01	-9.09E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-3.72E-01	4.61E-09	1.86E-01	2.94E-03	4.85E-04	1.05E-07	8.00E-03	1.50E-04	4.06E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	5.75E-03	8.91E-10	6.59E-05	5.63E-06	2.87E-08	2.03E-08	9.90E-07	2.62E-05	-9.49E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.84E+01	1.07E-04	2.44E-01	1.78E+00	1.40E-01	2.45E-03	2.63E+00	2.25E-01	-9.09E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	6.05E-07	1.64E-11	4.15E-08	5.04E-08	2.66E-10	3.73E-10	2.56E-08	7.59E-09	-1.84E-08
Acidification potential	AP	mol H ⁺ eq.	1.87E-01	8.48E-07	1.27E-03	9.09E-03	1.02E-03	1.93E-05	1.72E-02	2.16E-04	-8.30E-02
Eutrophication – freshwater	EP – F	kg P eq.	8.84E-04	3.72E-09	-4.41E-05	1.68E-04	5.50E-06	8.48E-08	9.96E-05	3.67E-06	-2.06E-04
Eutrophication – marine	EP – M	kg N eq.	4.19E-02	2.43E-07	1.85E-04	1.55E-03	1.51E-04	5.53E-06	2.77E-03	4.06E-03	-1.67E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.54E-01	2.66E-06	2.05E-03	1.32E-02	1.62E-03	6.06E-05	2.98E-02	7.89E-04	-1.89E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.46E-01	6.57E-07	3.49E-04	3.85E-03	4.26E-04	1.50E-05	7.73E-03	2.73E-04	-4.50E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	1.02E-04	3.89E-10	2.94E-06	4.06E-06	1.81E-07	8.88E-09	3.55E-06	7.89E-08	-2.66E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	7.15E+02	1.53E-03	-2.24E+00	3.19E+01	6.63E-01	3.49E-02	1.68E+01	6.23E-01	-1.19E+02
Water Depletion Potential	WDP	m ³	1.14E+01	3.19E-05	9.51E-01	3.47E+01	2.28E-02	7.27E-04	1.53E+00	2.52E-02	-6.44E+01

Table 199 | Resource use per m² of Equitilt® 0.7mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.15E+01	1.55E-05	4.60E-01	3.26E-01	1.20E-01	3.54E-04	1.92E+00	1.08E-02	-1.32E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	2.15E+01	1.55E-05	4.60E-01	3.26E-01	1.20E-01	3.54E-04	1.92E+00	1.08E-02	-1.32E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.35E+02	1.53E-03	2.58E+00	3.19E+01	6.63E-01	3.49E-02	1.68E+01	6.23E-01	-1.19E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	8.05E+01	0.00E+00	-5.41E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.57E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	7.16E+02	1.53E-03	-2.83E+00	3.19E+01	6.63E-01	3.49E-02	1.68E+01	-7.50E+01	-1.19E+02
Use of secondary material	SM	kg	1.50E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.11E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.54E-01	1.82E-07	5.86E-05	3.67E-03	1.14E-04	4.16E-06	2.39E-03	3.54E-04	-3.31E-03

Table 200 | Waste generated per m² of Equitilt® 0.7mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	7.36E-05	2.01E-09	-1.38E-05	1.08E-05	4.50E-07	4.58E-08	9.04E-06	8.88E-07	-1.08E-05
Non-hazardous waste disposed	NHWD	kg	1.13E+00	1.06E-05	5.12E-01	6.54E-02	8.58E-03	2.41E-04	2.64E-01	2.60E+00	-1.36E+00
Radioactive waste disposed/stored	RWD	kg	1.59E-03	8.01E-12	2.10E-05	6.94E-06	4.39E-09	1.83E-10	9.84E-08	3.51E-06	-1.11E-07

Table 201 | Output flows per m² of Equitilt® 0.7mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E+01	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 202 | Additional environmental impacts per m² of Equitilt® 0.7mm steel – 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.67E+01	1.05E-04	6.40E-02	1.68E+00	1.37E-01	2.40E-03	2.59E+00	1.71E-01	-7.84E+00
Particulate matter	PM	disease incidence	2.31E-06	5.57E-12	-3.04E-09	8.57E-08	8.88E-09	1.27E-10	1.51E-07	4.13E-09	-5.67E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.54E-01	5.79E-08	2.49E-02	4.85E-02	3.05E-05	1.32E-06	6.85E-04	2.81E-03	-7.70E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.75E+02	8.22E-04	-1.14E+00	7.90E+00	3.79E-01	1.87E-02	7.93E+00	1.08E+00	-1.74E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	2.99E-08	5.20E-14	9.85E-09	7.57E-10	4.32E-11	1.19E-12	7.77E-10	2.90E-11	-2.86E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	8.49E+01	5.25E-04	-1.67E+00	5.34E+00	3.50E-01	1.20E-02	6.72E+00	3.36E-01	-1.71E+02
Soil quality	SQP	Pt	5.50E+01	3.98E-04	1.24E+00	6.96E-01	4.26E-01	9.07E-03	7.15E+00	1.34E+00	-1.44E+01

Table 203 | Environmental impacts per m² of Equitilt® 0.7mm steel – 125mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.71E+01	1.06E-04	1.66E-01	1.72E+00	1.38E-01	2.40E-03	2.59E+00	1.94E-01	-7.82E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.58E-07	1.29E-11	3.59E-08	4.29E-08	2.33E-10	2.95E-10	2.09E-08	6.02E-09	-1.47E-08
Acidification potential	AP	kg SO ₂ eq	1.43E-01	4.49E-07	2.93E-04	7.45E-03	2.11E-04	1.02E-05	4.05E-03	1.65E-04	-5.14E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.80E-02	1.03E-07	-6.37E-05	1.16E-03	7.30E-05	2.34E-06	1.33E-03	1.72E-03	-7.08E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.08E-02	3.02E-08	1.81E-05	4.60E-04	4.31E-06	6.89E-07	9.47E-05	3.43E-05	-1.87E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.02E-04	3.89E-10	2.94E-06	4.06E-06	1.81E-07	8.88E-09	3.55E-06	7.89E-08	-2.66E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.17E+02	1.54E-03	2.72E+00	2.91E+01	1.55E+00	3.50E-02	3.10E+01	5.87E-01	-1.78E+02

Table 204 | Environmental impacts per m² of Equitilt® 0.7mm steel – 125mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.83E-08	2.41E-15	7.07E-12	3.51E-11	5.02E-12	5.49E-14	8.66E-11	1.80E-12	-4.32E-10
Human Toxicity non-cancer	HTnc	CTUh	9.24E-09	5.42E-16	1.53E-12	8.43E-13	8.52E-13	1.23E-14	1.40E-11	2.85E-13	-1.11E-11
Land use	LU	kg C deficit eq.	1.39E+01	2.82E-04	5.00E-01	4.93E-01	1.23E-02	6.43E-03	4.54E-01	4.58E-01	-1.69E+00
Ionising radiation	IR	kBq U235 eq	3.54E-01	5.79E-08	2.49E-02	4.85E-02	3.06E-05	1.32E-06	6.86E-04	2.82E-03	-7.70E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.55E-02	1.05E-07	1.41E-05	9.55E-04	7.30E-05	2.40E-06	1.32E-03	5.07E-05	-9.98E-03
WSI	WSI	m ³ equiv.	2.45E-01	5.17E-07	6.74E-04	8.67E-03	9.97E-04	1.18E-05	1.71E-02	8.08E-04	-9.02E-03

Equitilt® 0.7mm steel – 150mm

Table 205 | Environmental impacts per m² of Equitilt® 0.7mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	5.03E+01	2.66E-04	1.52E-02	1.78E+00	1.39E-01	2.51E-03	2.62E+00	2.65E-01	-9.09E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-4.86E-01	1.14E-08	2.37E-01	2.94E-03	4.85E-04	1.08E-07	8.00E-03	1.76E-04	4.06E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	6.06E-03	2.21E-09	6.93E-05	5.63E-06	2.87E-08	2.08E-08	9.90E-07	3.03E-05	-9.49E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	4.98E+01	2.66E-04	2.52E-01	1.78E+00	1.40E-01	2.51E-03	2.63E+00	2.65E-01	-9.09E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	6.56E-07	4.05E-11	4.12E-08	5.04E-08	2.66E-10	3.82E-10	2.56E-08	8.68E-09	-1.84E-08
Acidification potential	AP	mol H ⁺ eq.	1.93E-01	2.10E-06	1.20E-03	9.09E-03	1.02E-03	1.98E-05	1.72E-02	2.49E-04	-8.30E-02
Eutrophication – freshwater	EP – F	kg P eq.	9.85E-04	9.22E-09	-6.31E-05	1.68E-04	5.50E-06	8.69E-08	9.96E-05	4.27E-06	-2.06E-04
Eutrophication – marine	EP – M	kg N eq.	4.28E-02	6.01E-07	1.72E-04	1.55E-03	1.51E-04	5.67E-06	2.77E-03	4.79E-03	-1.67E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.65E-01	6.59E-06	1.92E-03	1.32E-02	1.62E-03	6.21E-05	2.98E-02	9.07E-04	-1.89E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.50E-01	1.63E-06	2.10E-04	3.85E-03	4.26E-04	1.53E-05	7.73E-03	3.16E-04	-4.50E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	1.04E-04	9.65E-10	3.25E-06	4.06E-06	1.81E-07	9.10E-09	3.55E-06	9.15E-08	-2.66E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	7.64E+02	3.79E-03	-3.79E+00	3.19E+01	6.63E-01	3.58E-02	1.68E+01	7.16E-01	-1.19E+02
Water Depletion Potential	WDP	m ³	1.26E+01	7.90E-05	1.19E+00	3.47E+01	2.28E-02	7.45E-04	1.53E+00	2.89E-02	-6.44E+01

Table 206 | Resource use per m² of Equitilt® 0.7mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.32E+01	3.85E-05	5.20E-01	3.26E-01	1.20E-01	3.63E-04	1.92E+00	1.26E-02	-1.32E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	2.32E+01	3.85E-05	5.20E-01	3.26E-01	1.20E-01	3.63E-04	1.92E+00	1.26E-02	-1.32E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.70E+02	3.79E-03	2.35E+00	3.19E+01	6.63E-01	3.58E-02	1.68E+01	7.16E-01	-1.19E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	9.50E+01	0.00E+00	-6.89E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.93E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	7.65E+02	3.79E-03	-4.55E+00	3.19E+01	6.63E-01	3.58E-02	1.68E+01	-8.86E+01	-1.19E+02
Use of secondary material	SM	kg	1.50E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.11E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.70E-01	4.52E-07	-7.42E-05	3.67E-03	1.14E-04	4.26E-06	2.39E-03	4.05E-04	-3.31E-03

Table 207 | Waste generated per m² of Equitilt® 0.7mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	7.88E-05	4.98E-09	-1.89E-05	1.08E-05	4.50E-07	4.70E-08	9.04E-06	1.02E-06	-1.08E-05
Non-hazardous waste disposed	NHWD	kg	1.19E+00	2.62E-05	6.32E-01	6.54E-02	8.58E-03	2.47E-04	2.64E-01	2.94E+00	-1.36E+00
Radioactive waste disposed/stored	RWD	kg	1.60E-03	1.98E-11	2.25E-05	6.94E-06	4.39E-09	1.87E-10	9.84E-08	4.02E-06	-1.11E-07

Table 208 | Output flows per m² of Equitilt® 0.7mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E+01	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 209 | Additional environmental impacts per m² of Equitilt® 0.7mm steel – 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.81E+01	2.61E-04	2.45E-02	1.68E+00	1.37E-01	2.46E-03	2.59E+00	2.01E-01	-7.84E+00
Particulate matter	PM	disease incidence	2.38E-06	1.38E-11	-7.74E-09	8.57E-08	8.88E-09	1.30E-10	1.51E-07	4.75E-09	-5.67E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.65E-01	1.43E-07	2.84E-02	4.85E-02	3.05E-05	1.35E-06	6.85E-04	3.24E-03	-7.70E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	1.89E+02	2.04E-03	-2.31E+00	7.90E+00	3.79E-01	1.92E-02	7.93E+00	1.26E+00	-1.74E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	3.33E-08	1.29E-13	1.20E-08	7.57E-10	4.32E-11	1.22E-12	7.77E-10	3.38E-11	-2.86E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	9.76E+01	1.30E-03	-2.82E+00	5.34E+00	3.50E-01	1.23E-02	6.72E+00	3.89E-01	-1.71E+02
Soil quality	SQP	Pt	6.46E+01	9.86E-04	1.32E+00	6.96E-01	4.26E-01	9.30E-03	7.15E+00	1.54E+00	-1.44E+01

Table 210 | Environmental impacts per m² of Equitilt® 0.7mm steel – 150mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.86E+01	2.61E-04	1.54E-01	1.72E+00	1.38E-01	2.47E-03	2.59E+00	2.28E-01	-7.82E+00
Ozone layer depletion	ODP	kg CFC-11 eq	6.05E-07	3.21E-11	3.53E-08	4.29E-08	2.33E-10	3.02E-10	2.09E-08	6.89E-09	-1.47E-08
Acidification potential	AP	kg SO ₂ eq	1.48E-01	1.11E-06	1.93E-04	7.45E-03	2.11E-04	1.05E-05	4.05E-03	1.90E-04	-5.14E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.87E-02	2.54E-07	-1.26E-04	1.16E-03	7.30E-05	2.40E-06	1.33E-03	2.03E-03	-7.08E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.11E-02	7.49E-08	-3.22E-06	4.60E-04	4.31E-06	7.06E-07	9.47E-05	4.03E-05	-1.87E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.04E-04	9.65E-10	3.25E-06	4.06E-06	1.81E-07	9.10E-09	3.55E-06	9.16E-08	-2.66E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.49E+02	3.81E-03	2.32E+00	2.91E+01	1.55E+00	3.59E-02	3.10E+01	6.75E-01	-1.78E+02

Table 211 | Environmental impacts per m² of Equitilt® 0.7mm steel – 150mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.93E-08	5.97E-15	6.01E-12	3.51E-11	5.02E-12	5.63E-14	8.66E-11	2.07E-12	-4.32E-10
Human Toxicity non-cancer	HTnc	CTUh	9.24E-09	1.34E-15	1.63E-12	8.43E-13	8.52E-13	1.27E-14	1.40E-11	3.28E-13	-1.11E-11
Land use	LU	kg C deficit eq.	1.49E+01	6.98E-04	5.09E-01	4.93E-01	1.23E-02	6.59E-03	4.54E-01	5.16E-01	-1.69E+00
Ionising radiation	IR	kBq U235 eq	3.65E-01	1.44E-07	2.84E-02	4.85E-02	3.06E-05	1.35E-06	6.86E-04	3.24E-03	-7.70E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.63E-02	2.61E-07	-4.73E-05	9.55E-04	7.30E-05	2.46E-06	1.32E-03	5.85E-05	-9.98E-03
Resource depletion – water	RDW	m ³	2.81E-01	1.28E-06	3.27E-04	8.67E-03	9.97E-04	1.21E-05	1.71E-02	9.27E-04	-9.02E-03

Equitilt® 0.7mm steel – 200mm

Table 212 | Environmental impacts per m² of Equitilt® 0.7mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	5.15E+01	1.67E-04	-8.05E-02	1.78E+00	1.20E-01	2.63E-03	2.62E+00	3.45E-01	-9.09E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-6.90E-01	7.16E-09	3.28E-01	2.94E-03	2.51E-04	1.13E-07	8.00E-03	2.29E-04	4.06E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	6.60E-03	1.38E-09	1.23E-04	5.63E-06	4.79E-05	2.18E-08	9.90E-07	3.84E-05	-9.49E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	5.08E+01	1.67E-04	2.48E-01	1.78E+00	1.20E-01	2.63E-03	2.63E+00	3.45E-01	-9.09E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.46E-07	2.54E-11	2.37E-07	5.04E-08	1.96E-07	4.01E-10	2.56E-08	1.09E-08	-1.84E-08
Acidification potential	AP	mol H ⁺ eq.	1.92E-01	1.32E-06	1.48E-03	9.09E-03	1.43E-03	2.08E-05	1.72E-02	3.14E-04	-8.30E-02
Eutrophication – freshwater	EP – F	kg P eq.	1.11E-03	5.78E-09	-9.37E-05	1.68E-04	8.97E-06	9.12E-08	9.96E-05	5.47E-06	-2.06E-04
Eutrophication – marine	EP – M	kg N eq.	4.22E-02	3.77E-07	1.80E-04	1.55E-03	1.83E-04	5.95E-06	2.77E-03	6.24E-03	-1.67E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.56E-01	4.13E-06	2.07E-03	1.32E-02	2.01E-03	6.52E-05	2.98E-02	1.14E-03	-1.89E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.53E-01	1.02E-06	3.57E-04	3.85E-03	8.22E-04	1.61E-05	7.73E-03	4.00E-04	-4.50E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	1.02E-04	6.05E-10	3.79E-06	4.06E-06	1.52E-07	9.54E-09	3.55E-06	1.17E-07	-2.66E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	8.34E+02	2.38E-03	5.66E+00	3.19E+01	1.29E+01	3.75E-02	1.68E+01	9.01E-01	-1.19E+02
Water Depletion Potential	WDP	m ³	1.44E+01	4.95E-05	1.62E+00	3.47E+01	5.79E-03	7.82E-04	1.53E+00	3.63E-02	-6.44E+01

Table 213 | Resource use per m² of Equitilt® 0.7mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.61E+01	2.42E-05	5.40E-01	3.26E-01	3.12E-02	3.81E-04	1.92E+00	1.61E-02	-1.32E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy – total	PERT	MJ	2.61E+01	2.42E-05	5.40E-01	3.26E-01	3.12E-02	3.81E-04	1.92E+00	1.61E-02	-1.32E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	7.10E+02	2.38E-03	1.42E+01	3.19E+01	1.29E+01	3.75E-02	1.68E+01	9.01E-01	-1.19E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.24E+02	0.00E+00	-9.56E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.16E+02	0.00E+00
Primary non renewable energy – total	PENRT	MJ	8.34E+02	2.38E-03	4.62E+00	3.19E+01	1.29E+01	3.75E-02	1.68E+01	-1.16E+02	-1.19E+02
Use of secondary material	SM	kg	1.50E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.11E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.97E-01	2.83E-07	-3.47E-04	3.67E-03	7.94E-05	4.47E-06	2.39E-03	5.09E-04	-3.31E-03

Table 214 | Waste generated per m² of Equitilt® 0.7mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	5.43E-05	3.12E-09	4.09E-06	1.08E-05	3.28E-05	4.93E-08	9.04E-06	1.28E-06	-1.08E-05
Non-hazardous waste disposed	NHWD	kg	1.02E+00	1.64E-05	8.45E-01	6.54E-02	6.11E-03	2.59E-04	2.64E-01	3.62E+00	-1.36E+00
Radioactive waste disposed/stored	RWD	kg	1.61E-03	1.24E-11	1.12E-04	6.94E-06	8.69E-05	1.96E-10	9.84E-08	5.05E-06	-1.11E-07

Table 215 | Output flows per m² of Equitilt® 0.7mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E+01	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 216 | Additional environmental impacts per m² of Equitilt® 0.7mm steel – 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.90E+01	1.64E-04	-6.81E-02	1.68E+00	1.15E-01	2.58E-03	2.59E+00	2.61E-01	-7.84E+00
Particulate matter	PM	disease incidence	2.36E-06	8.65E-12	-1.76E-08	8.57E-08	7.51E-09	1.36E-10	1.51E-07	5.98E-09	-5.67E-07
Ionising radiation – human health	IRP	kBq U-235 eq	3.84E-01	9.00E-08	8.90E-02	4.85E-02	5.43E-02	1.42E-06	6.85E-04	4.08E-03	-7.70E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	2.00E+02	1.28E-03	1.53E+00	7.90E+00	6.33E+00	2.02E-02	7.93E+00	1.62E+00	-1.74E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	3.85E-08	8.08E-14	1.60E-08	7.57E-10	8.35E-11	1.28E-12	7.77E-10	4.34E-11	-2.86E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	1.12E+02	8.16E-04	-1.69E+00	5.34E+00	3.54E+00	1.29E-02	6.72E+00	4.95E-01	-1.71E+02
Soil quality	SQP	Pt	7.50E+01	6.18E-04	2.52E+00	6.96E-01	1.49E+00	9.75E-03	7.15E+00	1.95E+00	-1.44E+01

Table 217 | Environmental impacts per m² of Equitilt® 0.7mm steel – 200mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.96E+01	1.64E-04	1.12E-01	1.72E+00	1.17E-01	2.59E-03	2.59E+00	2.96E-01	-7.82E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.54E-07	2.01E-11	1.89E-07	4.29E-08	1.55E-07	3.17E-10	2.09E-08	8.63E-09	-1.47E-08
Acidification potential	AP	kg SO ₂ eq	1.52E-01	6.98E-07	1.03E-03	7.45E-03	1.22E-03	1.10E-05	4.05E-03	2.39E-04	-5.14E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.87E-02	1.59E-07	-2.19E-04	1.16E-03	9.16E-05	2.51E-06	1.33E-03	2.65E-03	-7.08E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.14E-02	4.70E-08	4.10E-06	4.60E-04	4.99E-05	7.41E-07	9.47E-05	5.22E-05	-1.87E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.02E-04	6.05E-10	3.79E-06	4.06E-06	1.52E-07	9.54E-09	3.55E-06	1.17E-07	-2.66E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.83E+02	2.39E-03	1.19E+01	2.91E+01	1.19E+01	3.76E-02	3.10E+01	8.49E-01	-1.78E+02

Table 218 | Environmental impacts per m² of Equitilt® 0.7mm steel – 200mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.11E-08	3.75E-15	4.14E-12	3.51E-11	5.05E-12	5.91E-14	8.66E-11	2.63E-12	-4.32E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	8.42E-16	1.53E-12	8.43E-13	5.62E-13	1.33E-14	1.40E-11	4.12E-13	-1.11E-11
Land use	LU	kg C deficit eq.	1.17E+01	4.38E-04	2.63E+00	4.93E-01	2.11E+00	6.91E-03	4.54E-01	6.33E-01	-1.69E+00
Ionising radiation	IR	kBq U235 eq	3.84E-01	9.00E-08	8.90E-02	4.85E-02	5.43E-02	1.42E-06	6.86E-04	4.09E-03	-7.70E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.62E-02	1.64E-07	-5.79E-05	9.55E-04	1.72E-04	2.58E-06	1.32E-03	7.39E-05	-9.98E-03
Resource depletion – water	RDW	m ³	3.42E-01	8.03E-07	-1.10E-03	8.67E-03	1.91E-04	1.27E-05	1.71E-02	1.16E-03	-9.02E-03

Equitilt® 0.7mm steel – 250mm

Table 219 | Environmental impacts per m² of Equitilt® 0.7mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	5.63E+01	1.40E-04	-1.47E-01	1.78E+00	1.20E-01	2.77E-03	2.64E+00	4.25E-01	-9.15E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-8.65E-01	6.01E-09	4.08E-01	2.94E-03	2.51E-04	1.19E-07	8.05E-03	2.82E-04	4.09E-03
Global warming potential – land use/ land transformation	GWP – Luluc	kg CO ₂ eq.	7.10E-03	1.16E-09	1.29E-04	5.63E-06	4.79E-05	2.30E-08	9.96E-07	4.67E-05	-9.55E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	5.54E+01	1.40E-04	2.61E-01	1.78E+00	1.20E-01	2.77E-03	2.65E+00	4.25E-01	-9.14E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	8.37E-07	2.13E-11	2.36E-07	5.04E-08	1.96E-07	4.22E-10	2.57E-08	1.31E-08	-1.85E-08
Acidification potential	AP	mol H ⁺ eq.	2.15E-01	1.11E-06	1.36E-03	9.09E-03	1.43E-03	2.19E-05	1.73E-02	3.80E-04	-8.36E-02
Eutrophication – freshwater	EP – F	kg P eq.	1.35E-03	4.85E-09	-1.24E-04	1.68E-04	8.97E-06	9.60E-08	1.00E-04	6.68E-06	-2.07E-04
Eutrophication – marine	EP – M	kg N eq.	4.65E-02	3.17E-07	1.59E-04	1.55E-03	1.83E-04	6.26E-06	2.78E-03	7.71E-03	-1.68E-02
Eutrophication – terrestrial	EP – T	mol N eq.	5.04E-01	3.47E-06	1.86E-03	1.32E-02	2.01E-03	6.86E-05	3.00E-02	1.38E-03	-1.91E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.69E-01	8.57E-07	1.38E-04	3.85E-03	8.22E-04	1.69E-05	7.78E-03	4.86E-04	-4.53E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	1.12E-04	5.08E-10	4.28E-06	4.06E-06	1.52E-07	1.00E-08	3.57E-06	1.42E-07	-2.68E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	9.57E+02	2.00E-03	3.21E+00	3.19E+01	1.29E+01	3.95E-02	1.69E+01	1.09E+00	-1.20E+02
Water Depletion Potential	WDP	m ³	1.73E+01	4.16E-05	2.00E+00	3.47E+01	5.79E-03	8.22E-04	1.54E+00	4.38E-02	-6.48E+01

Table 220 | Resource use per m² of Equitilt® 0.7mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.92E+01	2.03E-05	6.35E-01	3.26E-01	3.12E-02	4.01E-04	1.93E+00	1.98E-02	-1.32E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy – total	PERT	MJ	2.92E+01	2.03E-05	6.35E-01	3.26E-01	3.12E-02	4.01E-04	1.93E+00	1.98E-02	-1.32E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	8.06E+02	2.00E-03	1.38E+01	3.19E+01	1.29E+01	3.95E-02	1.69E+01	1.09E+00	-1.20E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.52E+02	0.00E+00	-1.19E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.44E+02	0.00E+00
Primary non renewable energy – total	PENRT	MJ	9.58E+02	2.00E-03	1.92E+00	3.19E+01	1.29E+01	3.95E-02	1.69E+01	-1.43E+02	-1.20E+02
Use of secondary material	SM	kg	1.50E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.11E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	2.32E-01	2.38E-07	-5.56E-04	3.67E-03	7.94E-05	4.70E-06	2.40E-03	6.14E-04	-3.33E-03

Table 221 | Waste generated per m² of Equitilt® 0.7mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	9.63E-05	2.62E-09	-4.05E-06	1.08E-05	3.28E-05	5.19E-08	9.09E-06	1.55E-06	-1.08E-05
Non-hazardous waste disposed	NHWD	kg	1.40E+00	1.38E-05	1.03E+00	6.54E-02	6.11E-03	2.72E-04	2.66E-01	4.31E+00	-1.37E+00
Radioactive waste disposed/stored	RWD	kg	1.62E-03	1.04E-11	1.15E-04	6.94E-06	8.69E-05	2.07E-10	9.90E-08	6.08E-06	-1.12E-07

Table 222 | Output flows per m² of Equitilt® 0.7mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E+01	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy – electricity	EE – e	MJ	0.00E+00								
Exported energy – thermal	EE – t	MJ	0.00E+00								

Table 223 | Additional environmental impacts per m² of Equitilt® 0.7mm steel – 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	5.35E+01	1.37E-04	-1.30E-01	1.68E+00	1.15E-01	2.71E-03	2.60E+00	3.21E-01	-7.88E+00
Particulate matter	PM	disease incidence	2.64E-06	7.26E-12	-2.50E-08	8.57E-08	7.51E-09	1.44E-10	1.52E-07	7.23E-09	-5.70E-07
Ionising radiation – human health	IRP	kBq U-235 eq	4.03E-01	7.55E-08	9.45E-02	4.85E-02	5.43E-02	1.49E-06	6.90E-04	4.94E-03	-7.75E-04
Ecotoxicity – freshwater	ETP – fw	CTUe	2.39E+02	1.07E-03	-3.20E-01	7.90E+00	6.33E+00	2.12E-02	7.98E+00	1.99E+00	-1.75E+02
Human toxicity potential – cancer effects	HTP – c	CTUh	4.51E-08	6.79E-14	1.95E-08	7.57E-10	8.35E-11	1.34E-12	7.82E-10	5.31E-11	-2.88E-09
Human toxicity potential – non cancer effects	HTP – nc	CTUh	1.44E+02	6.85E-04	-3.50E+00	5.34E+00	3.54E+00	1.35E-02	6.76E+00	6.02E-01	-1.72E+02
Soil quality	SQP	Pt	9.70E+01	5.19E-04	2.64E+00	6.96E-01	1.49E+00	1.03E-02	7.19E+00	2.35E+00	-1.45E+01

Table 224 | Environmental impacts per m² of Equitilt® 0.7mm steel – 250mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	5.42E+01	1.38E-04	9.36E-02	1.72E+00	1.17E-01	2.72E-03	2.61E+00	3.65E-01	-7.86E+00
Ozone layer depletion	ODP	kg CFC-11 eq	7.79E-07	1.69E-11	1.88E-07	4.29E-08	1.55E-07	3.34E-10	2.10E-08	1.04E-08	-1.48E-08
Acidification potential	AP	kg SO ₂ eq	1.67E-01	5.86E-07	8.68E-04	7.45E-03	1.22E-03	1.16E-05	4.07E-03	2.90E-04	-5.17E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.11E-02	1.34E-07	-3.17E-04	1.16E-03	9.16E-05	2.65E-06	1.34E-03	3.27E-03	-7.12E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.23E-02	3.94E-08	-2.94E-05	4.60E-04	4.99E-05	7.79E-07	9.53E-05	6.43E-05	-1.88E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.12E-04	5.08E-10	4.28E-06	4.06E-06	1.52E-07	1.00E-08	3.57E-06	1.43E-07	-2.68E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	7.73E+02	2.00E-03	1.13E+01	2.91E+01	1.19E+01	3.96E-02	3.12E+01	1.03E+00	-1.79E+02

Table 225 | Environmental impacts per m² of Equitilt® 0.7mm steel – 250mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.28E-08	3.14E-15	2.47E-12	3.51E-11	5.05E-12	6.21E-14	8.71E-11	3.19E-12	-4.34E-10
Human Toxicity non-cancer	HTnc	CTUh	9.25E-09	7.07E-16	1.69E-12	8.43E-13	5.62E-13	1.40E-14	1.41E-11	4.98E-13	-1.12E-11
Land use	LU	kg C deficit eq.	1.84E+01	3.68E-04	2.64E+00	4.93E-01	2.11E+00	7.27E-03	4.57E-01	7.52E-01	-1.70E+00
Ionising radiation	IR	kBq U235 eq	4.03E-01	7.56E-08	9.45E-02	4.85E-02	5.43E-02	1.49E-06	6.90E-04	4.95E-03	-7.75E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.91E-02	1.37E-07	-1.54E-04	9.55E-04	1.72E-04	2.71E-06	1.33E-03	8.96E-05	-1.00E-02
Resource depletion – water	RDW	m ³	4.24E-01	6.74E-07	-1.65E-03	8.67E-03	1.91E-04	1.33E-05	1.73E-02	1.40E-03	-9.08E-03

InsulWall®

InsulWall® - 90mm

Table 226 | Environmental impacts per m² of InsulWall® - 90mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential – fossil	GWP – Fossil	kg CO ₂ eq.	4.39E+01	1.69E-04	8.44E-02	1.78E+00	1.39E-01	2.12E-03	2.31E+00	1.70E-01	-8.03E+00
Global warming potential – biogenic	GWP – Biogenic	kg CO ₂ eq.	-3.08E-01	7.23E-09	1.54E-01	2.94E-03	4.85E-04	9.08E-08	7.06E-03	1.13E-04	3.59E-03
Global warming potential – land use/land transformation	GWP – Luluc	kg CO ₂ eq.	5.32E-03	1.40E-09	6.38E-05	5.63E-06	2.87E-08	1.75E-08	8.74E-07	2.02E-05	-8.38E-07
Global warming potential – total	GWP – Total	kg CO₂ eq.	3.97E+01	1.69E-04	2.39E-01	1.78E+00	1.40E-01	2.12E-03	2.32E+00	1.70E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	6.64E-07	2.57E-11	4.17E-08	5.04E-08	2.66E-10	3.22E-10	2.26E-08	5.91E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.71E-01	1.33E-06	1.32E-03	9.09E-03	1.02E-03	1.67E-05	1.52E-02	1.67E-04	-7.33E-02
Eutrophication – freshwater	EP – F	kg P eq.	8.10E-04	5.84E-09	-3.20E-05	1.68E-04	5.50E-06	7.33E-08	8.79E-05	2.81E-06	-1.81E-04
Eutrophication – marine	EP – M	kg N eq.	1.89E-02	3.81E-07	1.94E-04	1.55E-03	1.51E-04	4.78E-06	2.44E-03	3.06E-03	-1.47E-02
Eutrophication – terrestrial	EP – T	mol N eq.	4.18E-01	4.17E-06	2.13E-03	1.32E-02	1.62E-03	5.24E-05	2.63E-02	6.11E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.28E-01	1.03E-06	4.36E-04	3.85E-03	4.26E-04	1.29E-05	6.82E-03	2.11E-04	-3.98E-02
Abiotic depletion potential – minerals and metals	ADP	kg Sb eq.	1.04E-04	6.11E-10	2.74E-06	4.06E-06	1.81E-07	7.67E-09	3.13E-06	6.05E-08	-2.35E-06
Abiotic depletion potential – fossil fuels	ADPF	MJ	6.05E+02	2.40E-03	-1.25E+00	3.19E+01	6.63E-01	3.02E-02	1.48E+01	4.84E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	8.47E+00	5.00E-05	7.93E-01	3.47E+01	2.28E-02	6.28E-04	1.35E+00	1.96E-02	-5.69E+01

Table 227 | Resource use per m² of InsulWall® - 90mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.01E+01	2.44E-05	4.22E-01	3.26E-01	1.20E-01	3.06E-04	1.70E+00	8.25E-03	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy – total	PERT	MJ	2.01E+01	2.44E-05	4.22E-01	3.26E-01	1.20E-01	3.06E-04	1.70E+00	8.25E-03	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.62E+02	2.40E-03	2.73E+00	3.19E+01	6.63E-01	3.02E-02	1.48E+01	4.84E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	6.09E+01	0.00E+00	-4.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-5.70E+01	0.00E+00
Primary non renewable energy – total	PENRT	MJ	6.23E+02	2.40E-03	-1.74E+00	3.19E+01	6.63E-01	3.02E-02	1.48E+01	-5.65E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.33E-01	2.86E-07	1.43E-04	3.67E-03	1.14E-04	3.59E-06	2.11E-03	2.75E-04	-2.92E-03

Table 228 | Waste generated per m² of InsulWall® - 90mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	8.14E-05	3.16E-09	-1.05E-05	1.08E-05	4.50E-07	3.96E-08	7.98E-06	6.89E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	1.17E+00	1.66E-05	4.26E-01	6.54E-02	8.58E-03	2.08E-04	2.33E-01	2.05E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.57E-03	1.26E-11	2.00E-05	6.94E-06	4.39E-09	1.58E-10	8.68E-08	2.73E-06	-9.80E-08

Table 229 | Output flows per m² of InsulWall® - 90mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 230 | Additional environmental impacts per m² of InsulWall® - 90mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.22E+01	1.65E-04	8.89E-02	1.68E+00	1.37E-01	2.07E-03	2.28E+00	1.29E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.13E-06	8.73E-12	-5.26E-11	8.57E-08	8.88E-09	1.10E-10	1.33E-07	3.20E-09	-5.00E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.46E-01	9.09E-08	2.27E-02	4.85E-02	3.05E-05	1.14E-06	6.05E-04	2.18E-03	-6.80E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.66E+02	1.29E-03	-3.98E-01	7.90E+00	3.79E-01	1.62E-02	7.00E+00	8.19E-01	-1.53E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.77E-08	8.16E-14	8.46E-09	7.57E-10	4.32E-11	1.03E-12	6.86E-10	2.22E-11	-2.53E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	7.51E+01	8.24E-04	-9.45E-01	5.34E+00	3.50E-01	1.04E-02	5.93E+00	2.59E-01	-1.51E+02
Soil quality	SQP	Pt	4.67E+01	6.24E-04	1.20E+00	6.96E-01	4.26E-01	7.84E-03	6.31E+00	1.04E+00	-1.28E+01

Table 231 | Environmental impacts per m² of InsulWall® - 90mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.24E+01	1.66E-04	1.73E-01	1.72E+00	1.38E-01	2.08E-03	2.29E+00	1.46E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.92E-07	2.03E-11	3.62E-08	4.29E-08	2.33E-10	2.55E-10	1.84E-08	4.68E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.30E-01	7.05E-07	3.55E-04	7.45E-03	2.11E-04	8.86E-06	3.57E-03	1.27E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.15E-02	1.61E-07	-2.42E-05	1.16E-03	7.30E-05	2.02E-06	1.18E-03	1.30E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.82E-02	4.74E-08	3.16E-05	4.60E-04	4.31E-06	5.95E-07	8.36E-05	2.60E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	9.98E-05	6.11E-10	2.74E-06	4.06E-06	1.81E-07	7.67E-09	3.13E-06	6.05E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.58E+02	2.41E-03	2.98E+00	2.91E+01	1.55E+00	3.03E-02	2.74E+01	4.56E-01	-1.57E+02

Table 232 | Environmental impacts per m² of InsulWall® - 90mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.76E-08	3.78E-15	7.74E-12	3.51E-11	5.02E-12	4.75E-14	7.64E-11	1.39E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	8.50E-16	1.46E-12	8.43E-13	8.52E-13	1.07E-14	1.24E-11	2.21E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.35E+01	4.42E-04	4.93E-01	4.93E-01	1.23E-02	5.56E-03	4.01E-01	3.62E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	2.41E-01	9.09E-08	2.27E-02	4.85E-02	3.06E-05	1.14E-06	6.06E-04	2.18E-03	-6.80E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.23E-02	1.65E-07	5.29E-05	9.55E-04	7.30E-05	2.07E-06	1.17E-03	3.92E-05	-8.81E-03
Resource depletion - water	RDW	m ³	2.01E-01	8.11E-07	8.94E-04	8.67E-03	9.97E-04	1.02E-05	1.51E-02	6.28E-04	-7.96E-03

InsulWall® - 140mm

Table 233 | Environmental impacts per m² of InsulWall® - 140mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.69E+01	2.71E-04	1.52E-02	1.78E+00	1.39E-01	2.24E-03	2.31E+00	2.49E-01	-8.03E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-4.91E-01	1.16E-08	2.37E-01	2.94E-03	4.85E-04	9.60E-08	7.06E-03	1.65E-04	3.59E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	5.82E-03	2.25E-09	6.93E-05	5.63E-06	2.87E-08	1.86E-08	8.74E-07	2.82E-05	-8.38E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.25E+01	2.71E-04	2.52E-01	1.78E+00	1.40E-01	2.24E-03	2.32E+00	2.49E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	7.53E-07	4.13E-11	4.12E-08	5.04E-08	2.66E-10	3.41E-10	2.26E-08	8.07E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.82E-01	2.14E-06	1.20E-03	9.09E-03	1.02E-03	1.77E-05	1.52E-02	2.32E-04	-7.33E-02
Eutrophication – freshwater	EP - F	kg P eq.	9.90E-04	9.40E-09	-6.31E-05	1.68E-04	5.50E-06	7.75E-08	8.79E-05	3.99E-06	-1.81E-04
Eutrophication – marine	EP - M	kg N eq.	2.07E-02	6.13E-07	1.72E-04	1.55E-03	1.51E-04	5.06E-06	2.44E-03	4.49E-03	-1.47E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.38E-01	6.72E-06	1.92E-03	1.32E-02	1.62E-03	5.54E-05	2.63E-02	8.44E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.38E-01	1.66E-06	2.10E-04	3.85E-03	4.26E-04	1.37E-05	6.82E-03	2.94E-04	-3.98E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.08E-04	9.83E-10	3.25E-06	4.06E-06	1.81E-07	8.11E-09	3.13E-06	8.55E-08	-2.35E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	7.01E+02	3.87E-03	-3.79E+00	3.19E+01	6.63E-01	3.19E-02	1.48E+01	6.66E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	1.08E+01	8.05E-05	1.19E+00	3.47E+01	2.28E-02	6.64E-04	1.35E+00	2.69E-02	-5.69E+01

Table 234 | Resource use per m² of InsulWall® - 140mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.30E+01	3.92E-05	5.20E-01	3.26E-01	1.20E-01	3.24E-04	1.70E+00	1.18E-02	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.30E+01	3.92E-05	5.20E-01	3.26E-01	1.20E-01	3.24E-04	1.70E+00	1.18E-02	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.30E+02	3.87E-03	2.35E+00	3.19E+01	6.63E-01	3.19E-02	1.48E+01	6.66E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	8.95E+01	0.00E+00	-6.89E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.38E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	7.19E+02	3.87E-03	-4.55E+00	3.19E+01	6.63E-01	3.19E-02	1.48E+01	-8.32E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.64E-01	4.60E-07	-7.42E-05	3.67E-03	1.14E-04	3.80E-06	2.11E-03	3.77E-04	-2.92E-03

Table 235 | Waste generated per m² of InsulWall® - 140mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	9.00E-05	5.08E-09	-1.89E-05	1.08E-05	4.50E-07	4.19E-08	7.98E-06	9.48E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	1.27E+00	2.67E-05	6.32E-01	6.54E-02	8.58E-03	2.20E-04	2.33E-01	2.72E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.59E-03	2.02E-11	2.25E-05	6.94E-06	4.39E-09	1.67E-10	8.68E-08	3.74E-06	-9.80E-08

Table 236 | Output flows per m² of InsulWall® - 140mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 237 | Additional environmental impacts per m² of InsulWall® - 140mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.49E+01	2.66E-04	2.45E-02	1.68E+00	1.37E-01	2.19E-03	2.28E+00	1.88E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.26E-06	1.41E-11	-7.74E-09	8.57E-08	8.88E-09	1.16E-10	1.33E-07	4.42E-09	-5.00E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.64E-01	1.46E-07	2.84E-02	4.85E-02	3.05E-05	1.21E-06	6.05E-04	3.01E-03	-6.80E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.91E+02	2.08E-03	-2.31E+00	7.90E+00	3.79E-01	1.71E-02	7.00E+00	1.18E+00	-1.53E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	3.34E-08	1.31E-13	1.20E-08	7.57E-10	4.32E-11	1.08E-12	6.86E-10	3.16E-11	-2.53E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	9.81E+01	1.33E-03	-2.82E+00	5.34E+00	3.50E-01	1.09E-02	5.93E+00	3.63E-01	-1.51E+02
Soil quality	SQP	Pt	6.24E+01	1.00E-03	1.32E+00	6.96E-01	4.26E-01	8.29E-03	6.31E+00	1.43E+00	-1.28E+01

Table 238 | Environmental impacts per m² of InsulWall® - 140mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.53E+01	2.66E-04	1.54E-01	1.72E+00	1.38E-01	2.20E-03	2.29E+00	2.14E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	6.78E-07	3.27E-11	3.53E-08	4.29E-08	2.33E-10	2.70E-10	1.84E-08	6.40E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.39E-01	1.14E-06	1.93E-04	7.45E-03	2.11E-04	9.36E-06	3.57E-03	1.76E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.27E-02	2.59E-07	-1.26E-04	1.16E-03	7.30E-05	2.14E-06	1.18E-03	1.91E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.87E-02	7.63E-08	-3.22E-06	4.60E-04	4.31E-06	6.30E-07	8.36E-05	3.77E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.04E-04	9.83E-10	3.25E-06	4.06E-06	1.81E-07	8.11E-09	3.13E-06	8.55E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.20E+02	3.88E-03	2.32E+00	2.91E+01	1.55E+00	3.20E-02	2.74E+01	6.28E-01	-1.57E+02

Table 239 | Environmental impacts per m² of InsulWall® - 140mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.92E-08	6.09E-15	6.01E-12	3.51E-11	5.02E-12	5.02E-14	7.64E-11	1.93E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.24E-09	1.37E-15	1.63E-12	8.43E-13	8.52E-13	1.13E-14	1.24E-11	3.05E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.52E+01	7.12E-04	5.09E-01	4.93E-01	1.23E-02	5.87E-03	4.01E-01	4.77E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	2.59E-01	1.46E-07	2.84E-02	4.85E-02	3.06E-05	1.21E-06	6.06E-04	3.02E-03	-6.80E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.37E-02	2.66E-07	-4.73E-05	9.55E-04	7.30E-05	2.19E-06	1.17E-03	5.45E-05	-8.81E-03
Resource depletion - water	RDW	m ³	2.72E-01	1.30E-06	3.27E-04	8.67E-03	9.97E-04	1.08E-05	1.51E-02	8.62E-04	-7.96E-03

LuxeWall®

LuxeWall® - 50mm

Table 240 | Environmental impacts per m² of LuxeWall® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	3.98E+01	8.59E-05	1.45E-01	1.78E+00	1.39E-01	2.02E-03	2.31E+00	1.06E-01	-8.03E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.47E-01	3.68E-09	8.15E-02	2.94E-03	4.85E-04	8.66E-08	7.06E-03	7.14E-05	3.59E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	4.86E-03	7.12E-10	5.90E-05	5.63E-06	2.87E-08	1.67E-08	8.74E-07	1.36E-05	-8.38E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	3.97E+01	8.59E-05	2.27E-01	1.78E+00	1.40E-01	2.02E-03	2.32E+00	1.06E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	3.12E-07	1.31E-11	4.20E-08	5.04E-08	2.66E-10	3.07E-10	2.26E-08	4.15E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.52E-01	6.77E-07	1.43E-03	9.09E-03	1.02E-03	1.59E-05	1.52E-02	1.15E-04	-7.33E-02
Eutrophication – freshwater	EP - F	kg P eq.	6.02E-04	2.97E-09	-4.74E-06	1.68E-04	5.50E-06	6.99E-08	8.79E-05	1.85E-06	-1.81E-04
Eutrophication – marine	EP - M	kg N eq.	3.48E-02	1.94E-07	2.13E-04	1.55E-03	1.51E-04	4.56E-06	2.44E-03	1.89E-03	-1.47E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.77E-01	2.13E-06	2.32E-03	1.32E-02	1.62E-03	5.00E-05	2.63E-02	4.22E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.18E-01	5.25E-07	6.35E-04	3.85E-03	4.26E-04	1.23E-05	6.82E-03	1.43E-04	-3.98E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	9.52E-05	3.11E-10	2.30E-06	4.06E-06	1.81E-07	7.32E-09	3.13E-06	4.02E-08	-2.35E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.19E+02	1.22E-03	9.75E-01	3.19E+01	6.63E-01	2.88E-02	1.48E+01	3.35E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	7.50E+00	2.55E-05	4.43E-01	3.47E+01	2.28E-02	5.99E-04	1.35E+00	1.37E-02	-5.69E+01

Table 241 | Resource use per m² of LuxeWall® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.73E+01	1.24E-05	3.36E-01	3.26E-01	1.20E-01	2.92E-04	1.70E+00	5.39E-03	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	1.73E+01	1.24E-05	3.36E-01	3.26E-01	1.20E-01	2.92E-04	1.70E+00	5.39E-03	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.82E+02	1.22E-03	3.06E+00	3.19E+01	6.63E-01	2.88E-02	1.48E+01	3.35E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	3.78E+01	0.00E+00	-2.34E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.52E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.20E+02	1.22E-03	7.19E-01	3.19E+01	6.63E-01	2.88E-02	1.48E+01	-3.49E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.04E-01	1.46E-07	3.33E-04	3.67E-03	1.14E-04	3.43E-06	2.11E-03	1.92E-04	-2.92E-03

Table 242 | Waste generated per m² of LuxeWall® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	4.35E-05	1.61E-09	-3.09E-06	1.08E-05	4.50E-07	3.78E-08	7.98E-06	4.78E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	8.36E-01	8.44E-06	2.54E-01	6.54E-02	8.58E-03	1.98E-04	2.33E-01	1.50E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.56E-03	6.40E-12	1.78E-05	6.94E-06	4.39E-09	1.50E-10	8.68E-08	1.92E-06	-9.80E-08

Table 243 | Output flows per m² of LuxeWall® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 244 | Additional environmental impacts per m² of LuxeWall® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.83E+01	8.41E-05	1.46E-01	1.68E+00	1.37E-01	1.98E-03	2.28E+00	8.08E-02	-6.92E+00
Particulate matter	PM	disease incidence	1.88E-06	4.45E-12	6.68E-09	8.57E-08	8.88E-09	1.05E-10	1.33E-07	2.21E-09	-5.00E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.29E-01	4.63E-08	1.77E-02	4.85E-02	3.05E-05	1.09E-06	6.05E-04	1.50E-03	-6.80E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.33E+02	6.57E-04	1.28E+00	7.90E+00	3.79E-01	1.55E-02	7.00E+00	5.28E-01	-1.53E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.18E-08	4.16E-14	5.33E-09	7.57E-10	4.32E-11	9.77E-13	6.86E-10	1.45E-11	-2.53E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	4.75E+01	4.20E-04	7.00E-01	5.34E+00	3.50E-01	9.87E-03	5.93E+00	1.74E-01	-1.51E+02
Soil quality	SQP	Pt	3.05E+01	3.18E-04	1.09E+00	6.96E-01	4.26E-01	7.47E-03	6.31E+00	7.13E-01	-1.28E+01

Table 245 | Environmental impacts per m² of LuxeWall® - 50mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.85E+01	8.43E-05	1.90E-01	1.72E+00	1.38E-01	1.98E-03	2.29E+00	9.16E-02	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	3.03E-07	1.03E-11	3.70E-08	4.29E-08	2.33E-10	2.43E-10	1.84E-08	3.29E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.17E-01	3.59E-07	4.99E-04	7.45E-03	2.11E-04	8.44E-06	3.57E-03	8.75E-05	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.46E-02	8.20E-08	6.50E-05	1.16E-03	7.30E-05	1.93E-06	1.18E-03	8.04E-04	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.79E-02	2.41E-08	6.21E-05	4.60E-04	4.31E-06	5.68E-07	8.36E-05	1.64E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	9.52E-05	3.11E-10	2.30E-06	4.06E-06	1.81E-07	7.32E-09	3.13E-06	4.02E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.73E+02	1.23E-03	3.56E+00	2.91E+01	1.55E+00	2.89E-02	2.74E+01	3.16E-01	-1.57E+02

Table 246 | Environmental impacts per m² of LuxeWall® - 50mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.61E-08	1.93E-15	9.26E-12	3.51E-11	5.02E-12	4.53E-14	7.64E-11	9.43E-13	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.22E-09	4.33E-16	1.32E-12	8.43E-13	8.52E-13	1.02E-14	1.24E-11	1.53E-13	-9.79E-12
Land use	LU	kg C deficit eq.	8.54E+00	2.25E-04	4.80E-01	4.93E-01	1.23E-02	5.30E-03	4.01E-01	2.68E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.29E-01	4.63E-08	1.77E-02	4.85E-02	3.06E-05	1.09E-06	6.06E-04	1.50E-03	-6.80E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.18E-02	8.41E-08	1.41E-04	9.55E-04	7.30E-05	1.98E-06	1.17E-03	2.68E-05	-8.81E-03
Resource depletion - water	RDW	m ³	1.33E-01	4.13E-07	1.39E-03	8.67E-03	9.97E-04	9.71E-06	1.51E-02	4.39E-04	-7.96E-03

LuxeWall® - 75mm

Table 247 | Environmental impacts per m² of LuxeWall® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.12E+01	1.57E-04	1.23E-01	1.78E+00	1.39E-01	2.08E-03	2.31E+00	1.45E-01	-8.03E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-2.02E-01	6.75E-09	1.09E-01	2.94E-03	4.85E-04	8.91E-08	7.06E-03	9.70E-05	3.59E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	5.03E-03	1.30E-09	6.08E-05	5.63E-06	2.87E-08	1.72E-08	8.74E-07	1.76E-05	-8.38E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.10E+01	1.57E-04	2.31E-01	1.78E+00	1.40E-01	2.08E-03	2.32E+00	1.45E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	3.47E-07	2.40E-11	4.19E-08	5.04E-08	2.66E-10	3.17E-10	2.26E-08	5.22E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.57E-01	1.24E-06	1.39E-03	9.09E-03	1.02E-03	1.64E-05	1.52E-02	1.47E-04	-7.33E-02
Eutrophication – freshwater	EP - F	kg P eq.	6.74E-04	5.45E-09	-1.49E-05	1.68E-04	5.50E-06	7.20E-08	8.79E-05	2.43E-06	-1.81E-04
Eutrophication – marine	EP - M	kg N eq.	3.57E-02	3.55E-07	2.06E-04	1.55E-03	1.51E-04	4.69E-06	2.44E-03	2.60E-03	-1.47E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.86E-01	3.90E-06	2.25E-03	1.32E-02	1.62E-03	5.15E-05	2.63E-02	5.37E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.22E-01	9.62E-07	5.62E-04	3.85E-03	4.26E-04	1.27E-05	6.82E-03	1.84E-04	-3.98E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	9.65E-05	5.70E-10	2.46E-06	4.06E-06	1.81E-07	7.53E-09	3.13E-06	5.25E-08	-2.35E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.66E+02	2.24E-03	1.41E-01	3.19E+01	6.63E-01	2.96E-02	1.48E+01	4.26E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	8.60E+00	4.67E-05	5.77E-01	3.47E+01	2.28E-02	6.17E-04	1.35E+00	1.73E-02	-5.69E+01

Table 248 | Resource use per m² of LuxeWall® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.83E+01	2.28E-05	3.69E-01	3.26E-01	1.20E-01	3.01E-04	1.70E+00	7.13E-03	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	1.83E+01	2.28E-05	3.69E-01	3.26E-01	1.20E-01	3.01E-04	1.70E+00	7.13E-03	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.15E+02	2.24E-03	2.94E+00	3.19E+01	6.63E-01	2.96E-02	1.48E+01	4.26E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	5.20E+01	0.00E+00	-3.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.85E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.67E+02	2.24E-03	-2.01E-01	3.19E+01	6.63E-01	2.96E-02	1.48E+01	-4.80E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.19E-01	2.67E-07	2.62E-04	3.67E-03	1.14E-04	3.53E-06	2.11E-03	2.42E-04	-2.92E-03

Table 249 | Waste generated per m² of LuxeWall® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	4.64E-05	2.95E-09	-5.86E-06	1.08E-05	4.50E-07	3.89E-08	7.98E-06	6.06E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	8.74E-01	1.55E-05	3.28E-01	6.54E-02	8.58E-03	2.04E-04	2.33E-01	1.83E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.57E-03	1.17E-11	1.86E-05	6.94E-06	4.39E-09	1.55E-10	8.68E-08	2.41E-06	-9.80E-08

Table 250 | Output flows per m² of LuxeWall® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 251 | Additional environmental impacts per m² of LuxeWall® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.96E+01	1.54E-04	1.24E-01	1.68E+00	1.37E-01	2.04E-03	2.28E+00	1.10E-01	-6.92E+00
Particulate matter	PM	disease incidence	1.94E-06	8.15E-12	4.17E-09	8.57E-08	8.88E-09	1.08E-10	1.33E-07	2.81E-09	-5.00E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.35E-01	8.48E-08	1.96E-02	4.85E-02	3.05E-05	1.12E-06	6.05E-04	1.91E-03	-6.80E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.43E+02	1.20E-03	6.62E-01	7.90E+00	3.79E-01	1.59E-02	7.00E+00	7.05E-01	-1.53E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.38E-08	7.62E-14	6.51E-09	7.57E-10	4.32E-11	1.01E-12	6.86E-10	1.92E-11	-2.53E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	5.73E+01	7.69E-04	9.14E-02	5.34E+00	3.50E-01	1.02E-02	5.93E+00	2.26E-01	-1.51E+02
Soil quality	SQP	Pt	3.57E+01	5.83E-04	1.13E+00	6.96E-01	4.26E-01	7.70E-03	6.31E+00	9.10E-01	-1.28E+01

Table 252 | Environmental impacts per m² of LuxeWall® - 75mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.98E+01	1.55E-04	1.84E-01	1.72E+00	1.38E-01	2.04E-03	2.29E+00	1.25E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	3.38E-07	1.90E-11	3.68E-08	4.29E-08	2.33E-10	2.50E-10	1.84E-08	4.14E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.21E-01	6.58E-07	4.46E-04	7.45E-03	2.11E-04	8.70E-06	3.57E-03	1.12E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.51E-02	1.50E-07	3.17E-05	1.16E-03	7.30E-05	1.98E-06	1.18E-03	1.10E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.82E-02	4.43E-08	5.07E-05	4.60E-04	4.31E-06	5.85E-07	8.36E-05	2.22E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	9.65E-05	5.70E-10	2.47E-06	4.06E-06	1.81E-07	7.53E-09	3.13E-06	5.26E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.02E+02	2.25E-03	3.34E+00	2.91E+01	1.55E+00	2.97E-02	2.74E+01	4.01E-01	-1.57E+02

Table 253 | Environmental impacts per m² of LuxeWall® - 75mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.67E-08	3.53E-15	8.70E-12	3.51E-11	5.02E-12	4.66E-14	7.64E-11	1.21E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.22E-09	7.94E-16	1.37E-12	8.43E-13	8.52E-13	1.05E-14	1.24E-11	1.95E-13	-9.79E-12
Land use	LU	kg C deficit eq.	9.10E+00	4.13E-04	4.85E-01	4.93E-01	1.23E-02	5.45E-03	4.01E-01	3.25E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.35E-01	8.48E-08	1.96E-02	4.85E-02	3.06E-05	1.12E-06	6.06E-04	1.91E-03	-6.80E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.24E-02	1.54E-07	1.08E-04	9.55E-04	7.30E-05	2.04E-06	1.17E-03	3.44E-05	-8.81E-03
Resource depletion - water	RDW	m ³	1.67E-01	7.57E-07	1.21E-03	8.67E-03	9.97E-04	9.99E-06	1.51E-02	5.54E-04	-7.96E-03

Roofing

SolarSpan®

SolarSpan® - 50mm

Table 254 | Environmental impacts per m² of SolarSpan® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	3.82E+01	3.26E-04	1.42E-01	1.78E+00	1.39E-01	1.83E-03	2.08E+00	1.06E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.55E-01	1.40E-08	8.56E-02	2.94E-03	4.85E-04	7.86E-08	6.35E-03	7.10E-05	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	4.76E-03	2.70E-09	5.93E-05	5.63E-06	2.87E-08	1.52E-08	7.86E-07	1.33E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	3.81E+01	3.26E-04	2.27E-01	1.78E+00	1.40E-01	1.83E-03	2.09E+00	1.06E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.49E-07	4.96E-11	4.20E-08	5.04E-08	2.66E-10	2.79E-10	2.03E-08	4.02E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.49E-01	2.57E-06	1.42E-03	9.09E-03	1.02E-03	1.45E-05	1.37E-02	1.12E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	6.33E-04	1.13E-08	-6.30E-06	1.68E-04	5.50E-06	6.35E-08	7.91E-05	1.82E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	3.40E-02	7.36E-07	2.12E-04	1.55E-03	1.51E-04	4.14E-06	2.20E-03	1.89E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.67E-01	8.07E-06	2.31E-03	1.32E-02	1.62E-03	4.54E-05	2.37E-02	4.10E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.14E-01	1.99E-06	6.24E-04	3.85E-03	4.26E-04	1.12E-05	6.14E-03	1.40E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.02E-04	1.18E-09	2.32E-06	4.06E-06	1.81E-07	6.64E-09	2.82E-06	3.94E-08	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.07E+02	4.64E-03	8.47E-01	3.19E+01	6.63E-01	2.61E-02	1.33E+01	3.26E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	7.77E+00	9.67E-05	4.63E-01	3.47E+01	2.28E-02	5.44E-04	1.21E+00	1.32E-02	-5.12E+01

Table 255 | Resource use per m² of SolarSpan® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.77E+01	4.72E-05	3.41E-01	3.26E-01	1.20E-01	2.65E-04	1.53E+00	5.31E-03	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	1.77E+01	4.72E-05	3.41E-01	3.26E-01	1.20E-01	2.65E-04	1.53E+00	5.31E-03	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.70E+02	4.64E-03	3.04E+00	3.19E+01	6.63E-01	2.61E-02	1.33E+01	3.26E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	3.80E+01	0.00E+00	-2.46E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.52E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.08E+02	4.64E-03	5.78E-01	3.19E+01	6.63E-01	2.61E-02	1.33E+01	-3.49E+01	-9.47E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.06E-01	5.53E-07	3.22E-04	3.67E-03	1.14E-04	3.11E-06	1.90E-03	1.86E-04	-2.62E-03

Table 256 | Waste generated per m² of SolarSpan® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	5.92E-05	6.10E-09	-3.52E-06	1.08E-05	4.50E-07	3.43E-08	7.18E-06	4.64E-07	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	9.76E-01	3.20E-05	2.64E-01	6.54E-02	8.58E-03	1.80E-04	2.10E-01	1.44E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.61E-03	2.43E-11	1.79E-05	6.94E-06	4.39E-09	1.37E-10	7.81E-08	1.86E-06	-8.82E-08

Table 257 | Output flows per m² of SolarSpan® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 258 | Additional environmental impacts per m² of SolarSpan® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.68E+01	3.19E-04	1.42E-01	1.68E+00	1.37E-01	1.79E-03	2.05E+00	8.05E-02	-6.22E+00
Particulate matter	PM	disease incidence	1.85E-06	1.69E-11	6.30E-09	8.57E-08	8.88E-09	9.49E-11	1.20E-07	2.15E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.39E-01	1.76E-07	1.80E-02	4.85E-02	3.05E-05	9.87E-07	5.44E-04	1.46E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.40E+02	2.49E-03	1.19E+00	7.90E+00	3.79E-01	1.40E-02	6.30E+00	5.22E-01	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.24E-08	1.58E-13	5.51E-09	7.57E-10	4.32E-11	8.87E-13	6.17E-10	1.43E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	5.23E+01	1.59E-03	6.06E-01	5.34E+00	3.50E-01	8.96E-03	5.34E+00	1.70E-01	-1.36E+02
Soil quality	SQP	Pt	3.38E+01	1.21E-03	1.09E+00	6.96E-01	4.26E-01	6.78E-03	5.67E+00	6.94E-01	-1.15E+01

Table 259 | Environmental impacts per m² of SolarSpan® - 50mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.70E+01	3.20E-04	1.90E-01	1.72E+00	1.38E-01	1.80E-03	2.06E+00	9.13E-02	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.10E-07	3.93E-11	3.70E-08	4.29E-08	2.33E-10	2.21E-10	1.66E-08	3.19E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.13E-01	1.36E-06	4.90E-04	7.45E-03	2.11E-04	7.66E-06	3.21E-03	8.52E-05	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.44E-02	3.11E-07	5.99E-05	1.16E-03	7.30E-05	1.75E-06	1.06E-03	8.03E-04	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.68E-02	9.17E-08	6.03E-05	4.60E-04	4.31E-06	5.15E-07	7.52E-05	1.63E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.02E-04	1.18E-09	2.32E-06	4.06E-06	1.81E-07	6.64E-09	2.82E-06	3.95E-08	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.61E+02	4.66E-03	3.53E+00	2.91E+01	1.55E+00	2.62E-02	2.46E+01	3.07E-01	-1.41E+02

Table 260 | Environmental impacts per m² of SolarSpan® - 50mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.62E-08	7.31E-15	9.17E-12	3.51E-11	5.02E-12	4.11E-14	6.88E-11	9.20E-13	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	9.22E-09	1.64E-15	1.32E-12	8.43E-13	8.52E-13	9.24E-15	1.12E-11	1.49E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.06E+01	8.55E-04	4.81E-01	4.93E-01	1.23E-02	4.81E-03	3.61E-01	2.56E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	3.39E-01	1.76E-07	1.80E-02	4.85E-02	3.06E-05	9.88E-07	5.45E-04	1.46E-03	-6.12E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.20E-02	3.19E-07	1.36E-04	9.55E-04	7.30E-05	1.79E-06	1.05E-03	2.61E-05	-7.93E-03
Resource depletion - water	RDW	m ³	1.38E-01	1.57E-06	1.36E-03	8.67E-03	9.97E-04	8.81E-06	1.36E-02	4.25E-04	-7.16E-03

SolarSpan® - 75mm

Table 261 | Environmental impacts per m² of SolarSpan® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	3.96E+01	3.75E-04	1.30E-01	1.78E+00	1.39E-01	1.89E-03	2.08E+00	1.46E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.73E-01	1.61E-08	9.95E-02	2.94E-03	4.85E-04	8.12E-08	6.35E-03	9.74E-05	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	4.85E-03	3.10E-09	6.02E-05	5.63E-06	2.87E-08	1.57E-08	7.86E-07	1.74E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	3.94E+01	3.75E-04	2.30E-01	1.78E+00	1.40E-01	1.89E-03	2.09E+00	1.46E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.72E-07	5.70E-11	4.19E-08	5.04E-08	2.66E-10	2.88E-10	2.03E-08	5.12E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.54E-01	2.95E-06	1.40E-03	9.09E-03	1.02E-03	1.49E-05	1.37E-02	1.45E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	6.87E-04	1.30E-08	-1.15E-05	1.68E-04	5.50E-06	6.56E-08	7.91E-05	2.42E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	3.47E-02	8.46E-07	2.08E-04	1.55E-03	1.51E-04	4.28E-06	2.20E-03	2.62E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.76E-01	9.27E-06	2.27E-03	1.32E-02	1.62E-03	4.69E-05	2.37E-02	5.29E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.18E-01	2.29E-06	5.86E-04	3.85E-03	4.26E-04	1.16E-05	6.14E-03	1.82E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.03E-04	1.36E-09	2.41E-06	4.06E-06	1.81E-07	6.86E-09	2.82E-06	5.22E-08	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.53E+02	5.34E-03	4.23E-01	3.19E+01	6.63E-01	2.70E-02	1.33E+01	4.19E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	8.93E+00	1.11E-04	5.30E-01	3.47E+01	2.28E-02	5.62E-04	1.21E+00	1.70E-02	-5.12E+01

Table 262 | Resource use per m² of SolarSpan® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.82E+01	5.42E-05	3.58E-01	3.26E-01	1.20E-01	2.74E-04	1.53E+00	7.10E-03	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	1.82E+01	5.42E-05	3.58E-01	3.26E-01	1.20E-01	2.74E-04	1.53E+00	7.10E-03	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.02E+02	5.34E-03	2.98E+00	3.19E+01	6.63E-01	2.70E-02	1.33E+01	4.19E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	5.20E+01	0.00E+00	-2.87E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.89E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.54E+02	5.34E-03	1.10E-01	3.19E+01	6.63E-01	2.70E-02	1.33E+01	-4.84E+01	-9.47E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.20E-01	6.36E-07	2.86E-04	3.67E-03	1.14E-04	3.21E-06	1.90E-03	2.38E-04	-2.62E-03

Table 263 | Waste generated per m² of SolarSpan® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.08E-05	7.01E-09	-4.93E-06	1.08E-05	4.50E-07	3.54E-08	7.18E-06	5.96E-07	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.00E+00	3.68E-05	2.96E-01	6.54E-02	8.58E-03	1.86E-04	2.10E-01	1.78E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.61E-03	2.79E-11	1.83E-05	6.94E-06	4.39E-09	1.41E-10	7.81E-08	2.37E-06	-8.82E-08

Table 264 | Output flows per m² of SolarSpan® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 265 | Additional environmental impacts per m² of SolarSpan® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.80E+01	3.67E-04	1.31E-01	1.68E+00	1.37E-01	1.86E-03	2.05E+00	1.11E-01	-6.22E+00
Particulate matter	PM	disease incidence	1.90E-06	1.94E-11	5.01E-09	8.57E-08	8.88E-09	9.81E-11	1.20E-07	2.77E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.42E-01	2.02E-07	1.89E-02	4.85E-02	3.05E-05	1.02E-06	5.44E-04	1.88E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.48E+02	2.87E-03	8.67E-01	7.90E+00	3.79E-01	1.45E-02	6.30E+00	7.04E-01	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.36E-08	1.81E-13	6.11E-09	7.57E-10	4.32E-11	9.17E-13	6.17E-10	1.91E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	6.04E+01	1.83E-03	2.92E-01	5.34E+00	3.50E-01	9.26E-03	5.34E+00	2.24E-01	-1.36E+02
Soil quality	SQP	Pt	3.62E+01	1.39E-03	1.11E+00	6.96E-01	4.26E-01	7.01E-03	5.67E+00	8.97E-01	-1.15E+01

Table 266 | Environmental impacts per m² of SolarSpan® - 75mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.83E+01	3.68E-04	1.86E-01	1.72E+00	1.38E-01	1.86E-03	2.06E+00	1.26E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.37E-07	4.51E-11	3.68E-08	4.29E-08	2.33E-10	2.28E-10	1.66E-08	4.06E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.17E-01	1.57E-06	4.63E-04	7.45E-03	2.11E-04	7.92E-06	3.21E-03	1.10E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.48E-02	3.58E-07	4.29E-05	1.16E-03	7.30E-05	1.81E-06	1.06E-03	1.11E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.70E-02	1.05E-07	5.45E-05	4.60E-04	4.31E-06	5.33E-07	7.52E-05	2.23E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.03E-04	1.36E-09	2.41E-06	4.06E-06	1.81E-07	6.86E-09	2.82E-06	5.22E-08	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.89E+02	5.36E-03	3.41E+00	2.91E+01	1.55E+00	2.71E-02	2.46E+01	3.94E-01	-1.41E+02

Table 267 | Environmental impacts per m² of SolarSpan® - 75mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.65E-08	8.40E-15	8.88E-12	3.51E-11	5.02E-12	4.25E-14	6.88E-11	1.20E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	9.22E-09	1.89E-15	1.35E-12	8.43E-13	8.52E-13	9.55E-15	1.12E-11	1.92E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.09E+01	9.83E-04	4.83E-01	4.93E-01	1.23E-02	4.97E-03	3.61E-01	3.15E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	3.42E-01	2.02E-07	1.89E-02	4.85E-02	3.06E-05	1.02E-06	5.45E-04	1.89E-03	-6.12E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.25E-02	3.67E-07	1.19E-04	9.55E-04	7.30E-05	1.85E-06	1.05E-03	3.39E-05	-7.93E-03
Resource depletion - water	RDW	m ³	1.70E-01	1.80E-06	1.27E-03	8.67E-03	9.97E-04	9.11E-06	1.36E-02	5.44E-04	-7.16E-03

SolarSpan® - 100mm

Table 268 | Environmental impacts per m² of SolarSpan® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.09E+01	6.01E-04	1.16E-01	1.78E+00	1.39E-01	1.96E-03	2.08E+00	1.86E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-2.04E-01	2.58E-08	1.16E-01	2.94E-03	4.85E-04	8.38E-08	6.35E-03	1.24E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	4.96E-03	4.98E-09	6.13E-05	5.63E-06	2.87E-08	1.62E-08	7.86E-07	2.15E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.07E+01	6.01E-04	2.32E-01	1.78E+00	1.40E-01	1.96E-03	2.09E+00	1.86E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.99E-07	9.15E-11	4.19E-08	5.04E-08	2.66E-10	2.98E-10	2.03E-08	6.22E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.59E-01	4.74E-06	1.38E-03	9.09E-03	1.02E-03	1.54E-05	1.37E-02	1.77E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	7.47E-04	2.08E-08	-1.78E-05	1.68E-04	5.50E-06	6.77E-08	7.91E-05	3.02E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	3.55E-02	1.36E-06	2.04E-04	1.55E-03	1.51E-04	4.42E-06	2.20E-03	3.35E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.84E-01	1.49E-05	2.23E-03	1.32E-02	1.62E-03	4.84E-05	2.37E-02	6.47E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.23E-01	3.67E-06	5.40E-04	3.85E-03	4.26E-04	1.20E-05	6.14E-03	2.25E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.04E-04	2.18E-09	2.51E-06	4.06E-06	1.81E-07	7.09E-09	2.82E-06	6.48E-08	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.98E+02	8.56E-03	-9.63E-02	3.19E+01	6.63E-01	2.79E-02	1.33E+01	5.11E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	9.85E+00	1.78E-04	6.11E-01	3.47E+01	2.28E-02	5.80E-04	1.21E+00	2.07E-02	-5.12E+01

Table 269 | Resource use per m² of SolarSpan® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.89E+01	8.69E-05	3.78E-01	3.26E-01	1.20E-01	2.83E-04	1.53E+00	8.88E-03	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	1.89E+01	8.69E-05	3.78E-01	3.26E-01	1.20E-01	2.83E-04	1.53E+00	8.88E-03	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.33E+02	8.56E-03	2.90E+00	3.19E+01	6.63E-01	2.79E-02	1.33E+01	5.11E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	6.58E+01	0.00E+00	-3.36E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.25E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.99E+02	8.56E-03	-4.63E-01	3.19E+01	6.63E-01	2.79E-02	1.33E+01	-6.19E+01	-9.47E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.34E-01	1.02E-06	2.42E-04	3.67E-03	1.14E-04	3.32E-06	1.90E-03	2.90E-04	-2.62E-03

Table 270 | Waste generated per m² of SolarSpan® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.28E-05	1.12E-08	-6.65E-06	1.08E-05	4.50E-07	3.66E-08	7.18E-06	7.28E-07	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.03E+00	5.91E-05	3.36E-01	6.54E-02	8.58E-03	1.92E-04	2.10E-01	2.12E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.61E-03	4.48E-11	1.89E-05	6.94E-06	4.39E-09	1.46E-10	7.81E-08	2.88E-06	-8.82E-08

Table 271 | Output flows per m² of SolarSpan® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 272 | Additional environmental impacts per m² of SolarSpan® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.93E+01	5.89E-04	1.18E-01	1.68E+00	1.37E-01	1.92E-03	2.05E+00	1.41E-01	-6.22E+00
Particulate matter	PM	disease incidence	1.96E-06	3.11E-11	3.44E-09	8.57E-08	8.88E-09	1.01E-10	1.20E-07	3.39E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.46E-01	3.24E-07	2.01E-02	4.85E-02	3.05E-05	1.05E-06	5.44E-04	2.31E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.58E+02	4.60E-03	4.75E-01	7.90E+00	3.79E-01	1.50E-02	6.30E+00	8.86E-01	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.51E-08	2.91E-13	6.84E-09	7.57E-10	4.32E-11	9.47E-13	6.17E-10	2.39E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	6.91E+01	2.94E-03	-9.11E-02	5.34E+00	3.50E-01	9.56E-03	5.34E+00	2.76E-01	-1.36E+02
Soil quality	SQP	Pt	3.96E+01	2.23E-03	1.14E+00	6.96E-01	4.26E-01	7.24E-03	5.67E+00	1.10E+00	-1.15E+01

Table 273 | Environmental impacts per m² of SolarSpan® - 100mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.95E+01	5.90E-04	1.82E-01	1.72E+00	1.38E-01	1.92E-03	2.06E+00	1.60E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.67E-07	7.24E-11	3.67E-08	4.29E-08	2.33E-10	2.35E-10	1.66E-08	4.93E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.21E-01	2.51E-06	4.30E-04	7.45E-03	2.11E-04	8.18E-06	3.21E-03	1.35E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.53E-02	5.74E-07	2.21E-05	1.16E-03	7.30E-05	1.87E-06	1.06E-03	1.42E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.73E-02	1.69E-07	4.74E-05	4.60E-04	4.31E-06	5.50E-07	7.52E-05	2.83E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.04E-04	2.18E-09	2.51E-06	4.06E-06	1.81E-07	7.09E-09	2.82E-06	6.49E-08	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.18E+02	8.59E-03	3.28E+00	2.91E+01	1.55E+00	2.80E-02	2.46E+01	4.82E-01	-1.41E+02

Table 274 | Environmental impacts per m² of SolarSpan® - 100mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.69E-08	1.35E-14	8.53E-12	3.51E-11	5.02E-12	4.39E-14	6.88E-11	1.47E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	3.03E-15	1.39E-12	8.43E-13	8.52E-13	9.86E-15	1.12E-11	2.34E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.13E+01	1.58E-03	4.86E-01	4.93E-01	1.23E-02	5.13E-03	3.61E-01	3.74E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	3.46E-01	3.24E-07	2.01E-02	4.85E-02	3.06E-05	1.05E-06	5.45E-04	2.31E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.31E-02	5.89E-07	9.85E-05	9.55E-04	7.30E-05	1.91E-06	1.05E-03	4.16E-05	-7.93E-03
Resource depletion - water	RDW	m ³	2.03E-01	2.89E-06	1.15E-03	8.67E-03	9.97E-04	9.40E-06	1.36E-02	6.63E-04	-7.16E-03

SolarSpan® - 125mm

Table 275 | Environmental impacts per m² of SolarSpan® - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.23E+01	5.29E-04	9.37E-02	1.78E+00	1.39E-01	2.02E-03	2.08E+00	2.24E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-2.58E-01	2.27E-08	1.43E-01	2.94E-03	4.85E-04	8.64E-08	6.35E-03	1.49E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	5.12E-03	4.38E-09	6.31E-05	5.63E-06	2.87E-08	1.67E-08	7.86E-07	2.55E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.21E+01	5.29E-04	2.37E-01	1.78E+00	1.40E-01	2.02E-03	2.09E+00	2.25E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.33E-07	8.05E-11	4.17E-08	5.04E-08	2.66E-10	3.07E-10	2.03E-08	7.28E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.64E-01	4.17E-06	1.34E-03	9.09E-03	1.02E-03	1.59E-05	1.37E-02	2.09E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	8.19E-04	1.83E-08	-2.79E-05	1.68E-04	5.50E-06	6.98E-08	7.91E-05	3.60E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	3.63E-02	1.19E-06	1.97E-04	1.55E-03	1.51E-04	4.55E-06	2.20E-03	4.06E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.92E-01	1.31E-05	2.16E-03	1.32E-02	1.62E-03	4.99E-05	2.37E-02	7.62E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.27E-01	3.23E-06	4.67E-04	3.85E-03	4.26E-04	1.23E-05	6.14E-03	2.66E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.05E-04	1.92E-09	2.68E-06	4.06E-06	1.81E-07	7.30E-09	2.82E-06	7.71E-08	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.45E+02	7.53E-03	-9.18E-01	3.19E+01	6.63E-01	2.87E-02	1.33E+01	6.01E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	1.10E+01	1.57E-04	7.43E-01	3.47E+01	2.28E-02	5.98E-04	1.21E+00	2.43E-02	-5.12E+01

Table 276 | Resource use per m² of SolarSpan® - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.99E+01	7.65E-05	4.09E-01	3.26E-01	1.20E-01	2.91E-04	1.53E+00	1.06E-02	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	1.99E+01	7.65E-05	4.09E-01	3.26E-01	1.20E-01	2.91E-04	1.53E+00	1.06E-02	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.66E+02	7.53E-03	2.78E+00	3.19E+01	6.63E-01	2.87E-02	1.33E+01	6.01E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	7.99E+01	0.00E+00	-4.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.57E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.46E+02	7.53E-03	-1.37E+00	3.19E+01	6.63E-01	2.87E-02	1.33E+01	-7.51E+01	-9.47E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.49E-01	8.97E-07	1.71E-04	3.67E-03	1.14E-04	3.42E-06	1.90E-03	3.40E-04	-2.62E-03

Table 277 | Waste generated per m² of SolarSpan® - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.58E-05	9.90E-09	-9.39E-06	1.08E-05	4.50E-07	3.77E-08	7.18E-06	8.56E-07	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.07E+00	5.20E-05	4.10E-01	6.54E-02	8.58E-03	1.98E-04	2.10E-01	2.45E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.62E-03	3.94E-11	1.97E-05	6.94E-06	4.39E-09	1.50E-10	7.81E-08	3.37E-06	-8.82E-08

Table 278 | Output flows per m² of SolarSpan® - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 279 | Additional environmental impacts per m² of SolarSpan® - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.05E+01	5.18E-04	9.76E-02	1.68E+00	1.37E-01	1.97E-03	2.05E+00	1.70E-01	-6.22E+00
Particulate matter	PM	disease incidence	2.02E-06	2.74E-11	9.60E-10	8.57E-08	8.88E-09	1.04E-10	1.20E-07	3.98E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.52E-01	2.85E-07	2.20E-02	4.85E-02	3.05E-05	1.09E-06	5.44E-04	2.72E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.68E+02	4.05E-03	-1.39E-01	7.90E+00	3.79E-01	1.54E-02	6.30E+00	1.06E+00	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.72E-08	2.56E-13	8.00E-09	7.57E-10	4.32E-11	9.76E-13	6.17E-10	2.85E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	7.89E+01	2.59E-03	-6.92E-01	5.34E+00	3.50E-01	9.85E-03	5.34E+00	3.28E-01	-1.36E+02
Soil quality	SQP	Pt	4.46E+01	1.96E-03	1.18E+00	6.96E-01	4.26E-01	7.46E-03	5.67E+00	1.29E+00	-1.15E+01

Table 280 | Environmental impacts per m² of SolarSpan® - 125mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.09E+01	5.19E-04	1.76E-01	1.72E+00	1.38E-01	1.98E-03	2.06E+00	1.93E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.02E-07	6.37E-11	3.64E-08	4.29E-08	2.33E-10	2.43E-10	1.66E-08	5.77E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.25E-01	2.21E-06	3.78E-04	7.45E-03	2.11E-04	8.43E-06	3.21E-03	1.59E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.58E-02	5.05E-07	-1.08E-05	1.16E-03	7.30E-05	1.92E-06	1.06E-03	1.72E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.75E-02	1.49E-07	3.62E-05	4.60E-04	4.31E-06	5.67E-07	7.52E-05	3.41E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.05E-04	1.92E-09	2.68E-06	4.06E-06	1.81E-07	7.30E-09	2.82E-06	7.72E-08	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.47E+02	7.56E-03	3.07E+00	2.91E+01	1.55E+00	2.88E-02	2.46E+01	5.66E-01	-1.41E+02

Table 281 | Environmental impacts per m² of SolarSpan® - 125mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.74E-08	1.19E-14	7.98E-12	3.51E-11	5.02E-12	4.52E-14	6.88E-11	1.74E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	2.67E-15	1.44E-12	8.43E-13	8.52E-13	1.02E-14	1.12E-11	2.75E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.18E+01	1.39E-03	4.92E-01	4.93E-01	1.23E-02	5.29E-03	3.61E-01	4.30E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	3.52E-01	2.85E-07	2.20E-02	4.85E-02	3.06E-05	1.09E-06	5.45E-04	2.72E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.37E-02	5.18E-07	6.62E-05	9.55E-04	7.30E-05	1.97E-06	1.05E-03	4.91E-05	-7.93E-03
Resource depletion - water	RDW	m ³	2.37E-01	2.54E-06	9.69E-04	8.67E-03	9.97E-04	9.69E-06	1.36E-02	7.78E-04	-7.16E-03

SolarSpan® - 150mm

Table 282 | Environmental impacts per m² of SolarSpan® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.38E+01	3.67E-04	5.62E-02	1.78E+00	1.39E-01	2.08E-03	2.08E+00	2.64E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-3.57E-01	1.57E-08	1.88E-01	2.94E-03	4.85E-04	8.90E-08	6.35E-03	1.75E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	5.39E-03	3.04E-09	6.60E-05	5.63E-06	2.87E-08	1.72E-08	7.86E-07	2.96E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.35E+01	3.67E-04	2.44E-01	1.78E+00	1.40E-01	2.08E-03	2.09E+00	2.64E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.79E-07	5.59E-11	4.15E-08	5.04E-08	2.66E-10	3.16E-10	2.03E-08	8.38E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.69E-01	2.89E-06	1.27E-03	9.09E-03	1.02E-03	1.64E-05	1.37E-02	2.42E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	9.12E-04	1.27E-08	-4.47E-05	1.68E-04	5.50E-06	7.19E-08	7.91E-05	4.20E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	3.73E-02	8.29E-07	1.85E-04	1.55E-03	1.51E-04	4.69E-06	2.20E-03	4.78E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.02E-01	9.08E-06	2.05E-03	1.32E-02	1.62E-03	5.14E-05	2.37E-02	8.80E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.32E-01	2.24E-06	3.44E-04	3.85E-03	4.26E-04	1.27E-05	6.14E-03	3.08E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.07E-04	1.33E-09	2.95E-06	4.06E-06	1.81E-07	7.53E-09	2.82E-06	8.98E-08	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.94E+02	5.23E-03	-2.29E+00	3.19E+01	6.63E-01	2.96E-02	1.33E+01	6.93E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	1.22E+01	1.09E-04	9.59E-01	3.47E+01	2.28E-02	6.16E-04	1.21E+00	2.80E-02	-5.12E+01

Table 283 | Resource use per m² of SolarSpan® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.15E+01	5.31E-05	4.62E-01	3.26E-01	1.20E-01	3.00E-04	1.53E+00	1.24E-02	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.15E+01	5.31E-05	4.62E-01	3.26E-01	1.20E-01	3.00E-04	1.53E+00	1.24E-02	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.00E+02	5.23E-03	2.57E+00	3.19E+01	6.63E-01	2.96E-02	1.33E+01	6.93E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	9.43E+01	0.00E+00	-5.46E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.93E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.94E+02	5.23E-03	-2.89E+00	3.19E+01	6.63E-01	2.96E-02	1.33E+01	-8.86E+01	-9.47E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.65E-01	6.23E-07	5.41E-05	3.67E-03	1.14E-04	3.52E-06	1.90E-03	3.92E-04	-2.62E-03

Table 284 | Waste generated per m² of SolarSpan® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	7.07E-05	6.87E-09	-1.40E-05	1.08E-05	4.50E-07	3.89E-08	7.18E-06	9.87E-07	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.12E+00	3.61E-05	5.16E-01	6.54E-02	8.58E-03	2.04E-04	2.10E-01	2.79E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.63E-03	2.73E-11	2.11E-05	6.94E-06	4.39E-09	1.55E-10	7.81E-08	3.89E-06	-8.82E-08

Table 285 | Output flows per m² of SolarSpan® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 286 | Additional environmental impacts per m² of SolarSpan® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.19E+01	3.59E-04	6.27E-02	1.68E+00	1.37E-01	2.03E-03	2.05E+00	2.00E-01	-6.22E+00
Particulate matter	PM	disease incidence	2.08E-06	1.90E-11	-3.19E-09	8.57E-08	8.88E-09	1.08E-10	1.20E-07	4.60E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.62E-01	1.98E-07	2.50E-02	4.85E-02	3.05E-05	1.12E-06	5.44E-04	3.14E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.81E+02	2.81E-03	-1.18E+00	7.90E+00	3.79E-01	1.59E-02	6.30E+00	1.24E+00	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	3.02E-08	1.78E-13	9.93E-09	7.57E-10	4.32E-11	1.01E-12	6.17E-10	3.33E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	9.10E+01	1.79E-03	-1.71E+00	5.34E+00	3.50E-01	1.02E-02	5.34E+00	3.81E-01	-1.36E+02
Soil quality	SQP	Pt	5.30E+01	1.36E-03	1.25E+00	6.96E-01	4.26E-01	7.69E-03	5.67E+00	1.50E+00	-1.15E+01

Table 287 | Environmental impacts per m² of SolarSpan® - 150mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.23E+01	3.60E-04	1.66E-01	1.72E+00	1.38E-01	2.04E-03	2.06E+00	2.27E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.46E-07	4.42E-11	3.59E-08	4.29E-08	2.33E-10	2.50E-10	1.66E-08	6.64E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.30E-01	1.53E-06	2.89E-04	7.45E-03	2.11E-04	8.69E-06	3.21E-03	1.84E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.64E-02	3.50E-07	-6.58E-05	1.16E-03	7.30E-05	1.98E-06	1.06E-03	2.03E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.78E-02	1.03E-07	1.74E-05	4.60E-04	4.31E-06	5.84E-07	7.52E-05	4.00E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.07E-04	1.33E-09	2.95E-06	4.06E-06	1.81E-07	7.53E-09	2.82E-06	8.98E-08	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.79E+02	5.24E-03	2.71E+00	2.91E+01	1.55E+00	2.97E-02	2.46E+01	6.54E-01	-1.41E+02

Table 288 | Environmental impacts per m² of SolarSpan® - 150mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.83E-08	8.23E-15	7.04E-12	3.51E-11	5.02E-12	4.66E-14	6.88E-11	2.02E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	1.85E-15	1.53E-12	8.43E-13	8.52E-13	1.05E-14	1.12E-11	3.17E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.27E+01	9.63E-04	5.00E-01	4.93E-01	1.23E-02	5.45E-03	3.61E-01	4.89E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	3.62E-01	1.98E-07	2.51E-02	4.85E-02	3.06E-05	1.12E-06	5.45E-04	3.15E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.45E-02	3.59E-07	1.20E-05	9.55E-04	7.30E-05	2.03E-06	1.05E-03	5.69E-05	-7.93E-03
Resource depletion - water	RDW	m ³	2.73E-01	1.76E-06	6.62E-04	8.67E-03	9.97E-04	9.98E-06	1.36E-02	8.96E-04	-7.16E-03

SolarSpan® - 175mm

Table 289 | Environmental impacts per m² of SolarSpan® - 175mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.53E+01	4.61E-05	2.62E-02	1.78E+00	1.39E-01	2.14E-03	2.08E+00	3.03E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-4.33E-01	1.98E-09	2.24E-01	2.94E-03	4.85E-04	9.16E-08	6.35E-03	2.01E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	5.60E-03	3.82E-10	6.84E-05	5.63E-06	2.87E-08	1.77E-08	7.86E-07	3.35E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.48E+01	4.61E-05	2.50E-01	1.78E+00	1.40E-01	2.14E-03	2.09E+00	3.03E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	6.19E-07	7.02E-12	4.13E-08	5.04E-08	2.66E-10	3.25E-10	2.03E-08	9.44E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.74E-01	3.64E-07	1.22E-03	9.09E-03	1.02E-03	1.69E-05	1.37E-02	2.74E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	9.93E-04	1.60E-09	-5.81E-05	1.68E-04	5.50E-06	7.40E-08	7.91E-05	4.78E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	3.81E-02	1.04E-07	1.75E-04	1.55E-03	1.51E-04	4.83E-06	2.20E-03	5.49E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.11E-01	1.14E-06	1.95E-03	1.32E-02	1.62E-03	5.29E-05	2.37E-02	9.95E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.36E-01	2.82E-07	2.46E-04	3.85E-03	4.26E-04	1.31E-05	6.14E-03	3.49E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.08E-04	1.67E-10	3.17E-06	4.06E-06	1.81E-07	7.74E-09	2.82E-06	1.02E-07	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	7.40E+02	6.57E-04	-3.39E+00	3.19E+01	6.63E-01	3.04E-02	1.33E+01	7.83E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	1.33E+01	1.37E-05	1.13E+00	3.47E+01	2.28E-02	6.34E-04	1.21E+00	3.16E-02	-5.12E+01

Table 290 | Resource use per m² of SolarSpan® - 175mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.27E+01	6.67E-06	5.05E-01	3.26E-01	1.20E-01	3.09E-04	1.53E+00	1.41E-02	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.27E+01	6.67E-06	5.05E-01	3.26E-01	1.20E-01	3.09E-04	1.53E+00	1.41E-02	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.32E+02	6.57E-04	2.41E+00	3.19E+01	6.63E-01	3.04E-02	1.33E+01	7.83E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.08E+02	0.00E+00	-6.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.03E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	7.40E+02	6.57E-04	-4.10E+00	3.19E+01	6.63E-01	3.04E-02	1.33E+01	-1.02E+02	-9.47E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.79E-01	7.82E-08	-3.98E-05	3.67E-03	1.14E-04	3.63E-06	1.90E-03	4.42E-04	-2.62E-03

Table 291 | Waste generated per m² of SolarSpan® - 175mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	7.47E-05	8.63E-10	-1.76E-05	1.08E-05	4.50E-07	4.00E-08	7.18E-06	1.12E-06	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.17E+00	4.53E-06	6.01E-01	6.54E-02	8.58E-03	2.10E-04	2.10E-01	3.12E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.63E-03	3.44E-12	2.21E-05	6.94E-06	4.39E-09	1.59E-10	7.81E-08	4.38E-06	-8.82E-08

Table 292 | Output flows per m² of SolarSpan® - 175mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 293 | Additional environmental impacts per m² of SolarSpan® - 175mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.32E+01	4.52E-05	3.47E-02	1.68E+00	1.37E-01	2.09E-03	2.05E+00	2.29E-01	-6.22E+00
Particulate matter	PM	disease incidence	2.15E-06	2.39E-12	-6.52E-09	8.57E-08	8.88E-09	1.11E-10	1.20E-07	5.20E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.70E-01	2.48E-08	2.75E-02	4.85E-02	3.05E-05	1.15E-06	5.44E-04	3.56E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.92E+02	3.53E-04	-2.01E+00	7.90E+00	3.79E-01	1.64E-02	6.30E+00	1.42E+00	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	3.27E-08	2.23E-14	1.15E-08	7.57E-10	4.32E-11	1.03E-12	6.17E-10	3.80E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.02E+02	2.25E-04	-2.52E+00	5.34E+00	3.50E-01	1.04E-02	5.34E+00	4.32E-01	-1.36E+02
Soil quality	SQP	Pt	5.97E+01	1.71E-04	1.30E+00	6.96E-01	4.26E-01	7.91E-03	5.67E+00	1.69E+00	-1.15E+01

Table 294 | Environmental impacts per m² of SolarSpan® - 175mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.37E+01	4.53E-05	1.57E-01	1.72E+00	1.38E-01	2.10E-03	2.06E+00	2.60E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.85E-07	5.55E-12	3.55E-08	4.29E-08	2.33E-10	2.57E-10	1.66E-08	7.49E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.34E-01	1.93E-07	2.19E-04	7.45E-03	2.11E-04	8.94E-06	3.21E-03	2.08E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.70E-02	4.40E-08	-1.10E-04	1.16E-03	7.30E-05	2.04E-06	1.06E-03	2.33E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.81E-02	1.30E-08	2.31E-06	4.60E-04	4.31E-06	6.01E-07	7.52E-05	4.58E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.08E-04	1.67E-10	3.17E-06	4.06E-06	1.81E-07	7.74E-09	2.82E-06	1.02E-07	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.08E+02	6.59E-04	2.42E+00	2.91E+01	1.55E+00	3.05E-02	2.46E+01	7.39E-01	-1.41E+02

Table 295 | Environmental impacts per m² of SolarSpan® - 175mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.91E-08	1.03E-15	6.28E-12	3.51E-11	5.02E-12	4.79E-14	6.88E-11	2.29E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	2.32E-16	1.61E-12	8.43E-13	8.52E-13	1.08E-14	1.12E-11	3.59E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.34E+01	1.21E-04	5.06E-01	4.93E-01	1.23E-02	5.61E-03	3.61E-01	5.46E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	3.70E-01	2.49E-08	2.75E-02	4.85E-02	3.06E-05	1.15E-06	5.45E-04	3.56E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.51E-02	4.51E-08	-3.13E-05	9.55E-04	7.30E-05	2.09E-06	1.05E-03	6.44E-05	-7.93E-03
Resource depletion - water	RDW	m ³	3.07E-01	2.22E-07	4.17E-04	8.67E-03	9.97E-04	1.03E-05	1.36E-02	1.01E-03	-7.16E-03

SolarSpan® - 200mm

Table 296 | Environmental impacts per m² of SolarSpan® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.68E+01	6.30E-04	-3.81E-02	1.78E+00	1.20E-01	2.20E-03	2.08E+00	3.44E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-5.54E-01	2.70E-08	2.77E-01	2.94E-03	2.51E-04	9.43E-08	6.35E-03	2.28E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	5.92E-03	5.22E-09	1.20E-04	5.63E-06	4.79E-05	1.82E-08	7.86E-07	3.77E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.63E+01	6.30E-04	2.39E-01	1.78E+00	1.20E-01	2.20E-03	2.09E+00	3.44E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	6.72E-07	9.59E-11	2.37E-07	5.04E-08	1.96E-07	3.35E-10	2.03E-08	1.06E-08	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.80E-01	4.97E-06	1.55E-03	9.09E-03	1.43E-03	1.74E-05	1.37E-02	3.07E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.10E-03	2.18E-08	-7.47E-05	1.68E-04	8.97E-06	7.62E-08	7.91E-05	5.40E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	3.91E-02	1.42E-06	1.94E-04	1.55E-03	1.83E-04	4.97E-06	2.20E-03	6.24E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.22E-01	1.56E-05	2.20E-03	1.32E-02	2.01E-03	5.45E-05	2.37E-02	1.12E-03	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.41E-01	3.85E-06	4.96E-04	3.85E-03	8.22E-04	1.34E-05	6.14E-03	3.92E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.11E-04	2.28E-09	3.48E-06	4.06E-06	1.52E-07	7.97E-09	2.82E-06	1.15E-07	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	7.90E+02	8.97E-03	7.22E+00	3.19E+01	1.29E+01	3.13E-02	1.33E+01	8.78E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	1.46E+01	1.87E-04	1.37E+00	3.47E+01	5.79E-03	6.53E-04	1.21E+00	3.54E-02	-5.12E+01

Table 297 | Resource use per m² of SolarSpan® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.46E+01	9.11E-05	4.80E-01	3.26E-01	3.12E-02	3.18E-04	1.53E+00	1.60E-02	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	2.46E+01	9.11E-05	4.80E-01	3.26E-01	3.12E-02	3.18E-04	1.53E+00	1.60E-02	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.68E+02	8.97E-03	1.44E+01	3.19E+01	1.29E+01	3.13E-02	1.33E+01	8.78E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.23E+02	0.00E+00	-8.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.16E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	7.91E+02	8.97E-03	6.33E+00	3.19E+01	1.29E+01	3.13E-02	1.33E+01	-1.16E+02	-9.47E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.96E-01	1.07E-06	-2.14E-04	3.67E-03	7.94E-05	3.73E-06	1.90E-03	4.96E-04	-2.62E-03

Table 298 | Waste generated per m² of SolarSpan® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	8.05E-05	1.18E-08	9.25E-06	1.08E-05	3.28E-05	4.12E-08	7.18E-06	1.25E-06	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.23E+00	6.19E-05	7.25E-01	6.54E-02	6.11E-03	2.16E-04	2.10E-01	3.47E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.64E-03	4.69E-11	1.11E-04	6.94E-06	8.69E-05	1.64E-10	7.81E-08	4.91E-06	-8.82E-08

Table 299 | Output flows per m² of SolarSpan® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 300 | Additional environmental impacts per m² of SolarSpan® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.46E+01	6.17E-04	-2.86E-02	1.68E+00	1.15E-01	2.15E-03	2.05E+00	2.60E-01	-6.22E+00
Particulate matter	PM	disease incidence	2.21E-06	3.26E-11	-1.29E-08	8.57E-08	7.51E-09	1.14E-10	1.20E-07	5.84E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.81E-01	3.39E-07	8.55E-02	4.85E-02	5.43E-02	1.19E-06	5.44E-04	3.99E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	2.07E+02	4.82E-03	2.70E+00	7.90E+00	6.33E+00	1.68E-02	6.30E+00	1.61E+00	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	3.63E-08	3.05E-13	1.38E-08	7.57E-10	8.35E-11	1.07E-12	6.17E-10	4.29E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.15E+02	3.08E-03	-5.42E-01	5.34E+00	3.54E+00	1.08E-02	5.34E+00	4.87E-01	-1.36E+02
Soil quality	SQP	Pt	6.98E+01	2.33E-03	2.45E+00	6.96E-01	1.49E+00	8.15E-03	5.67E+00	1.90E+00	-1.15E+01

Table 301 | Environmental impacts per m² of SolarSpan® - 200mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.52E+01	6.18E-04	1.24E-01	1.72E+00	1.17E-01	2.16E-03	2.06E+00	2.96E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	6.35E-07	7.58E-11	1.90E-07	4.29E-08	1.55E-07	2.65E-10	1.66E-08	8.38E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.39E-01	2.63E-06	1.13E-03	7.45E-03	1.22E-03	9.20E-06	3.21E-03	2.34E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.77E-02	6.01E-07	-1.57E-04	1.16E-03	9.16E-05	2.10E-06	1.06E-03	2.65E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.85E-02	1.77E-07	2.54E-05	4.60E-04	4.99E-05	6.19E-07	7.52E-05	5.20E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.11E-04	2.28E-09	3.48E-06	4.06E-06	1.52E-07	7.97E-09	2.82E-06	1.15E-07	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.41E+02	9.00E-03	1.23E+01	2.91E+01	1.19E+01	3.14E-02	2.46E+01	8.28E-01	-1.41E+02

Table 302 | Environmental impacts per m² of SolarSpan® - 200mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.01E-08	1.41E-14	5.21E-12	3.51E-11	5.05E-12	4.93E-14	6.88E-11	2.57E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	9.24E-09	3.17E-15	1.43E-12	8.43E-13	5.62E-13	1.11E-14	1.12E-11	4.02E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.45E+01	1.65E-03	2.62E+00	4.93E-01	2.11E+00	5.77E-03	3.61E-01	6.06E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	3.82E-01	3.39E-07	8.55E-02	4.85E-02	5.43E-02	1.19E-06	5.45E-04	3.99E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.59E-02	6.16E-07	3.45E-06	9.55E-04	1.72E-04	2.15E-06	1.05E-03	7.23E-05	-7.93E-03
Resource depletion - water	RDW	m ³	3.45E-01	3.03E-06	-7.54E-04	8.67E-03	1.91E-04	1.06E-05	1.36E-02	1.13E-03	-7.16E-03

Solaris Ridge®

Solaris Ridge® 0.5mm steel - 50mm

Table 303 | Environmental impacts per m² of Solaris Ridge® 0.5mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	3.75E+01	2.92E-04	1.42E-01	1.78E+00	1.39E-01	1.83E-03	2.08E+00	1.06E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.47E-01	1.25E-08	8.56E-02	2.94E-03	4.85E-04	7.86E-08	6.35E-03	7.10E-05	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	4.07E-03	2.42E-09	5.93E-05	5.63E-06	2.87E-08	1.52E-08	7.86E-07	1.33E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	3.73E+01	2.92E-04	2.27E-01	1.78E+00	1.40E-01	1.83E-03	2.09E+00	1.06E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.79E-07	4.44E-11	4.20E-08	5.04E-08	2.66E-10	2.79E-10	2.03E-08	4.02E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.45E-01	2.30E-06	1.42E-03	9.09E-03	1.02E-03	1.45E-05	1.37E-02	1.12E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	6.36E-04	1.01E-08	-6.30E-06	1.68E-04	5.50E-06	6.35E-08	7.91E-05	1.82E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	3.21E-02	6.58E-07	2.12E-04	1.55E-03	1.51E-04	4.14E-06	2.20E-03	1.89E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.47E-01	7.21E-06	2.31E-03	1.32E-02	1.62E-03	4.54E-05	2.37E-02	4.10E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.07E-01	1.78E-06	6.24E-04	3.85E-03	4.26E-04	1.12E-05	6.14E-03	1.40E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.13E-04	1.06E-09	2.32E-06	4.06E-06	1.81E-07	6.64E-09	2.82E-06	3.94E-08	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	4.82E+02	4.15E-03	8.47E-01	3.19E+01	6.63E-01	2.61E-02	1.33E+01	3.26E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	7.56E+00	8.65E-05	4.63E-01	3.47E+01	2.28E-02	5.44E-04	1.21E+00	1.32E-02	-5.12E+01

Table 304 | Resource use per m² of Solaris Ridge® 0.5mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.99E+01	4.22E-05	3.41E-01	3.26E-01	1.20E-01	2.65E-04	1.53E+00	5.31E-03	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	1.99E+01	4.22E-05	3.41E-01	3.26E-01	1.20E-01	2.65E-04	1.53E+00	5.31E-03	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.45E+02	4.15E-03	3.04E+00	3.19E+01	6.63E-01	2.61E-02	1.33E+01	3.26E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	3.80E+01	0.00E+00	-2.46E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.52E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	4.83E+02	4.15E-03	5.78E-01	3.19E+01	6.63E-01	2.61E-02	1.33E+01	-3.49E+01	-9.47E+01
Use of secondary material	SM	kg	1.55E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	1.91E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.06E-01	4.95E-07	3.22E-04	3.67E-03	1.14E-04	3.11E-06	1.90E-03	1.86E-04	-2.62E-03

Table 305 | Waste generated per m² of Solaris Ridge® 0.5mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.23E-05	5.45E-09	-3.52E-06	1.08E-05	4.50E-07	3.43E-08	7.18E-06	4.64E-07	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.06E+00	2.87E-05	2.64E-01	6.54E-02	8.58E-03	1.80E-04	2.10E-01	1.44E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.75E-03	2.17E-11	1.79E-05	6.94E-06	4.39E-09	1.37E-10	7.81E-08	1.86E-06	-8.82E-08

Table 306 | Output flows per m² of Solaris Ridge® 0.5mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 307 | Additional environmental impacts per m² of Solaris Ridge® 0.5mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.62E+01	2.86E-04	1.42E-01	1.68E+00	1.37E-01	1.79E-03	2.05E+00	8.05E-02	-6.22E+00
Particulate matter	PM	disease incidence	1.81E-06	1.51E-11	6.30E-09	8.57E-08	8.88E-09	9.49E-11	1.20E-07	2.15E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.75E-01	1.57E-07	1.80E-02	4.85E-02	3.05E-05	9.87E-07	5.44E-04	1.46E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.41E+02	2.23E-03	1.19E+00	7.90E+00	3.79E-01	1.40E-02	6.30E+00	5.22E-01	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.25E-08	1.41E-13	5.51E-09	7.57E-10	4.32E-11	8.87E-13	6.17E-10	1.43E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	5.33E+01	1.42E-03	6.06E-01	5.34E+00	3.50E-01	8.96E-03	5.34E+00	1.70E-01	-1.36E+02
Soil quality	SQP	Pt	3.54E+01	1.08E-03	1.09E+00	6.96E-01	4.26E-01	6.78E-03	5.67E+00	6.94E-01	-1.15E+01

Table 308 | Environmental impacts per m² of Solaris Ridge® 0.5mm steel - 50mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.63E+01	2.86E-04	1.90E-01	1.72E+00	1.38E-01	1.80E-03	2.06E+00	9.13E-02	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.34E-07	3.51E-11	3.70E-08	4.29E-08	2.33E-10	2.21E-10	1.66E-08	3.19E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.10E-01	1.22E-06	4.90E-04	7.45E-03	2.11E-04	7.66E-06	3.21E-03	8.52E-05	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.38E-02	2.78E-07	5.99E-05	1.16E-03	7.30E-05	1.75E-06	1.06E-03	8.03E-04	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.53E-02	8.20E-08	6.03E-05	4.60E-04	4.31E-06	5.15E-07	7.52E-05	1.63E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.13E-04	1.06E-09	2.32E-06	4.06E-06	1.81E-07	6.64E-09	2.82E-06	3.95E-08	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.36E+02	4.17E-03	3.53E+00	2.91E+01	1.55E+00	2.62E-02	2.46E+01	3.07E-01	-1.41E+02

Table 309 | Environmental impacts per m² of Solaris Ridge® 0.5mm steel - 50mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.63E-08	6.54E-15	9.17E-12	3.51E-11	5.02E-12	4.11E-14	6.88E-11	9.20E-13	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	9.26E-09	1.47E-15	1.32E-12	8.43E-13	8.52E-13	9.24E-15	1.12E-11	1.49E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.08E+01	7.65E-04	4.81E-01	4.93E-01	1.23E-02	4.81E-03	3.61E-01	2.56E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	3.75E-01	1.57E-07	1.80E-02	4.85E-02	3.06E-05	9.88E-07	5.45E-04	1.46E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.18E-02	2.85E-07	1.36E-04	9.55E-04	7.30E-05	1.79E-06	1.05E-03	2.61E-05	-7.93E-03
Resource depletion - water	RDW	m ³	1.38E-01	1.40E-06	1.36E-03	8.67E-03	9.97E-04	8.81E-06	1.36E-02	4.25E-04	-7.16E-03

Solaris Ridge® 0.5mm steel - 75mm

Table 310 | Environmental impacts per m² of Solaris Ridge® 0.5mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	3.88E+01	3.69E-04	1.30E-01	1.78E+00	1.39E-01	1.89E-03	2.08E+00	1.46E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.65E-01	1.58E-08	9.95E-02	2.94E-03	4.85E-04	8.12E-08	6.35E-03	9.74E-05	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	4.15E-03	3.06E-09	6.02E-05	5.63E-06	2.87E-08	1.57E-08	7.86E-07	1.74E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	3.87E+01	3.69E-04	2.30E-01	1.78E+00	1.40E-01	1.89E-03	2.09E+00	1.46E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.02E-07	5.61E-11	4.19E-08	5.04E-08	2.66E-10	2.88E-10	2.03E-08	5.12E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.50E-01	2.91E-06	1.40E-03	9.09E-03	1.02E-03	1.49E-05	1.37E-02	1.45E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	6.90E-04	1.28E-08	-1.15E-05	1.68E-04	5.50E-06	6.56E-08	7.91E-05	2.42E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	3.28E-02	8.33E-07	2.08E-04	1.55E-03	1.51E-04	4.28E-06	2.20E-03	2.62E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.55E-01	9.13E-06	2.27E-03	1.32E-02	1.62E-03	4.69E-05	2.37E-02	5.29E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.11E-01	2.25E-06	5.86E-04	3.85E-03	4.26E-04	1.16E-05	6.14E-03	1.82E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.13E-04	1.34E-09	2.41E-06	4.06E-06	1.81E-07	6.86E-09	2.82E-06	5.22E-08	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.28E+02	5.25E-03	4.23E-01	3.19E+01	6.63E-01	2.70E-02	1.33E+01	4.19E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	8.72E+00	1.09E-04	5.30E-01	3.47E+01	2.28E-02	5.62E-04	1.21E+00	1.70E-02	-5.12E+01

Table 311 | Resource use per m² of Solaris Ridge® 0.5mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.04E+01	5.33E-05	3.58E-01	3.26E-01	1.20E-01	2.74E-04	1.53E+00	7.10E-03	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	2.04E+01	5.33E-05	3.58E-01	3.26E-01	1.20E-01	2.74E-04	1.53E+00	7.10E-03	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.77E+02	5.25E-03	2.98E+00	3.19E+01	6.63E-01	2.70E-02	1.33E+01	4.19E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	5.20E+01	0.00E+00	-2.87E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.89E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.29E+02	5.25E-03	1.10E-01	3.19E+01	6.63E-01	2.70E-02	1.33E+01	-4.84E+01	-9.47E+01
Use of secondary material	SM	kg	1.55E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	1.91E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.20E-01	6.26E-07	2.86E-04	3.67E-03	1.14E-04	3.21E-06	1.90E-03	2.38E-04	-2.62E-03

Table 312 | Waste generated per m² of Solaris Ridge® 0.5mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.38E-05	6.90E-09	-4.93E-06	1.08E-05	4.50E-07	3.54E-08	7.18E-06	5.96E-07	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.08E+00	3.62E-05	2.96E-01	6.54E-02	8.58E-03	1.86E-04	2.10E-01	1.78E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.76E-03	2.75E-11	1.83E-05	6.94E-06	4.39E-09	1.41E-10	7.81E-08	2.37E-06	-8.82E-08

Table 313 | Output flows per m² of Solaris Ridge® 0.5mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 314 | Additional environmental impacts per m² of Solaris Ridge® 0.5mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.74E+01	3.61E-04	1.31E-01	1.68E+00	1.37E-01	1.86E-03	2.05E+00	1.11E-01	-6.22E+00
Particulate matter	PM	disease incidence	1.86E-06	1.91E-11	5.01E-09	8.57E-08	8.88E-09	9.81E-11	1.20E-07	2.77E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.78E-01	1.99E-07	1.89E-02	4.85E-02	3.05E-05	1.02E-06	5.44E-04	1.88E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.50E+02	2.82E-03	8.67E-01	7.90E+00	3.79E-01	1.45E-02	6.30E+00	7.04E-01	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.37E-08	1.79E-13	6.11E-09	7.57E-10	4.32E-11	9.17E-13	6.17E-10	1.91E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	6.13E+01	1.80E-03	2.92E-01	5.34E+00	3.50E-01	9.26E-03	5.34E+00	2.24E-01	-1.36E+02
Soil quality	SQP	Pt	3.79E+01	1.37E-03	1.11E+00	6.96E-01	4.26E-01	7.01E-03	5.67E+00	8.97E-01	-1.15E+01

Table 315 | Environmental impacts per m² of Solaris Ridge® 0.5mm steel - 75mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.76E+01	3.62E-04	1.86E-01	1.72E+00	1.38E-01	1.86E-03	2.06E+00	1.26E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.61E-07	4.44E-11	3.68E-08	4.29E-08	2.33E-10	2.28E-10	1.66E-08	4.06E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.14E-01	1.54E-06	4.63E-04	7.45E-03	2.11E-04	7.92E-06	3.21E-03	1.10E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.42E-02	3.52E-07	4.29E-05	1.16E-03	7.30E-05	1.81E-06	1.06E-03	1.11E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.55E-02	1.04E-07	5.45E-05	4.60E-04	4.31E-06	5.33E-07	7.52E-05	2.23E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.13E-04	1.34E-09	2.41E-06	4.06E-06	1.81E-07	6.86E-09	2.82E-06	5.22E-08	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.64E+02	5.27E-03	3.41E+00	2.91E+01	1.55E+00	2.71E-02	2.46E+01	3.94E-01	-1.41E+02

Table 316 | Environmental impacts per m² of Solaris Ridge® 0.5mm steel - 75mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.66E-08	8.27E-15	8.88E-12	3.51E-11	5.02E-12	4.25E-14	6.88E-11	1.20E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	9.26E-09	1.86E-15	1.35E-12	8.43E-13	8.52E-13	9.55E-15	1.12E-11	1.92E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.10E+01	9.67E-04	4.83E-01	4.93E-01	1.23E-02	4.97E-03	3.61E-01	3.15E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	3.78E-01	1.99E-07	1.89E-02	4.85E-02	3.06E-05	1.02E-06	5.45E-04	1.89E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.24E-02	3.61E-07	1.19E-04	9.55E-04	7.30E-05	1.85E-06	1.05E-03	3.39E-05	-7.93E-03
Resource depletion - water	RDW	m ³	1.71E-01	1.77E-06	1.27E-03	8.67E-03	9.97E-04	9.11E-06	1.36E-02	5.44E-04	-7.16E-03

Solaris Ridge® 0.5mm steel - 100mm

Table 317 | Environmental impacts per m² of Solaris Ridge® 0.5mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.02E+01	3.07E-04	1.16E-01	1.78E+00	1.39E-01	1.96E-03	2.08E+00	1.86E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.97E-01	1.31E-08	1.16E-01	2.94E-03	4.85E-04	8.38E-08	6.35E-03	1.24E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	4.26E-03	2.54E-09	6.13E-05	5.63E-06	2.87E-08	1.62E-08	7.86E-07	2.15E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.00E+01	3.07E-04	2.32E-01	1.78E+00	1.40E-01	1.96E-03	2.09E+00	1.86E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.29E-07	4.67E-11	4.19E-08	5.04E-08	2.66E-10	2.98E-10	2.03E-08	6.22E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.54E-01	2.42E-06	1.38E-03	9.09E-03	1.02E-03	1.54E-05	1.37E-02	1.77E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	7.50E-04	1.06E-08	-1.78E-05	1.68E-04	5.50E-06	6.77E-08	7.91E-05	3.02E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	3.36E-02	6.92E-07	2.04E-04	1.55E-03	1.51E-04	4.42E-06	2.20E-03	3.35E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.63E-01	7.59E-06	2.23E-03	1.32E-02	1.62E-03	4.84E-05	2.37E-02	6.47E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.15E-01	1.87E-06	5.40E-04	3.85E-03	4.26E-04	1.20E-05	6.14E-03	2.25E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.14E-04	1.11E-09	2.51E-06	4.06E-06	1.81E-07	7.09E-09	2.82E-06	6.48E-08	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.74E+02	4.37E-03	-9.63E-02	3.19E+01	6.63E-01	2.79E-02	1.33E+01	5.11E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	9.63E+00	9.10E-05	6.11E-01	3.47E+01	2.28E-02	5.80E-04	1.21E+00	2.07E-02	-5.12E+01

Table 318 | Resource use per m² of Solaris Ridge® 0.5mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.11E+01	4.44E-05	3.78E-01	3.26E-01	1.20E-01	2.83E-04	1.53E+00	8.88E-03	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.11E+01	4.44E-05	3.78E-01	3.26E-01	1.20E-01	2.83E-04	1.53E+00	8.88E-03	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.08E+02	4.37E-03	2.90E+00	3.19E+01	6.63E-01	2.79E-02	1.33E+01	5.11E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	6.58E+01	0.00E+00	-3.36E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.25E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.74E+02	4.37E-03	-4.63E-01	3.19E+01	6.63E-01	2.79E-02	1.33E+01	-6.19E+01	-9.47E+01
Use of secondary material	SM	kg	1.55E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	1.91E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.34E-01	5.20E-07	2.42E-04	3.67E-03	1.14E-04	3.32E-06	1.90E-03	2.90E-04	-2.62E-03

Table 319 | Waste generated per m² of Solaris Ridge® 0.5mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.59E-05	5.74E-09	-6.65E-06	1.08E-05	4.50E-07	3.66E-08	7.18E-06	7.28E-07	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.11E+00	3.01E-05	3.36E-01	6.54E-02	8.58E-03	1.92E-04	2.10E-01	2.12E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.76E-03	2.29E-11	1.89E-05	6.94E-06	4.39E-09	1.46E-10	7.81E-08	2.88E-06	-8.82E-08

Table 320 | Output flows per m² of Solaris Ridge[®] 0.5mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 321 | Additional environmental impacts per m² of Solaris Ridge[®] 0.5mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.86E+01	3.00E-04	1.18E-01	1.68E+00	1.37E-01	1.92E-03	2.05E+00	1.41E-01	-6.22E+00
Particulate matter	PM	disease incidence	1.92E-06	1.59E-11	3.44E-09	8.57E-08	8.88E-09	1.01E-10	1.20E-07	3.39E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.82E-01	1.65E-07	2.01E-02	4.85E-02	3.05E-05	1.05E-06	5.44E-04	2.31E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.59E+02	2.35E-03	4.75E-01	7.90E+00	3.79E-01	1.50E-02	6.30E+00	8.86E-01	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.52E-08	1.48E-13	6.84E-09	7.57E-10	4.32E-11	9.47E-13	6.17E-10	2.39E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	7.00E+01	1.50E-03	-9.11E-02	5.34E+00	3.50E-01	9.56E-03	5.34E+00	2.76E-01	-1.36E+02
Soil quality	SQP	Pt	4.12E+01	1.14E-03	1.14E+00	6.96E-01	4.26E-01	7.24E-03	5.67E+00	1.10E+00	-1.15E+01

Table 322 | Environmental impacts per m² of Solaris Ridge[®] 0.5mm steel - 100mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.89E+01	3.01E-04	1.82E-01	1.72E+00	1.38E-01	1.92E-03	2.06E+00	1.60E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.91E-07	3.69E-11	3.67E-08	4.29E-08	2.33E-10	2.35E-10	1.66E-08	4.93E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.18E-01	1.28E-06	4.30E-04	7.45E-03	2.11E-04	8.18E-06	3.21E-03	1.35E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.47E-02	2.93E-07	2.21E-05	1.16E-03	7.30E-05	1.87E-06	1.06E-03	1.42E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.58E-02	8.62E-08	4.74E-05	4.60E-04	4.31E-06	5.50E-07	7.52E-05	2.83E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.14E-04	1.11E-09	2.51E-06	4.06E-06	1.81E-07	7.09E-09	2.82E-06	6.49E-08	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.93E+02	4.38E-03	3.28E+00	2.91E+01	1.55E+00	2.80E-02	2.46E+01	4.82E-01	-1.41E+02

Table 323 | Environmental impacts per m² of Solaris Ridge[®] 0.5mm steel - 100mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.70E-08	6.88E-15	8.53E-12	3.51E-11	5.02E-12	4.39E-14	6.88E-11	1.47E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	9.27E-09	1.55E-15	1.39E-12	8.43E-13	8.52E-13	9.86E-15	1.12E-11	2.34E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.14E+01	8.04E-04	4.86E-01	4.93E-01	1.23E-02	5.13E-03	3.61E-01	3.74E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	3.82E-01	1.65E-07	2.01E-02	4.85E-02	3.06E-05	1.05E-06	5.45E-04	2.31E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.30E-02	3.00E-07	9.85E-05	9.55E-04	7.30E-05	1.91E-06	1.05E-03	4.16E-05	-7.93E-03
Resource depletion - water	RDW	m ³	2.03E-01	1.47E-06	1.15E-03	8.67E-03	9.97E-04	9.40E-06	1.36E-02	6.63E-04	-7.16E-03

Solaris Ridge® 0.5mm steel - 125mm

Table 324 | Environmental impacts per m² of Solaris Ridge® 0.5mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.16E+01	2.60E-04	9.37E-02	1.78E+00	1.39E-01	2.02E-03	2.08E+00	2.24E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-2.50E-01	1.12E-08	1.43E-01	2.94E-03	4.85E-04	8.64E-08	6.35E-03	1.49E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	4.42E-03	2.16E-09	6.31E-05	5.63E-06	2.87E-08	1.67E-08	7.86E-07	2.55E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.13E+01	2.60E-04	2.37E-01	1.78E+00	1.40E-01	2.02E-03	2.09E+00	2.25E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.63E-07	3.96E-11	4.17E-08	5.04E-08	2.66E-10	3.07E-10	2.03E-08	7.28E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.60E-01	2.05E-06	1.34E-03	9.09E-03	1.02E-03	1.59E-05	1.37E-02	2.09E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	8.21E-04	9.01E-09	-2.79E-05	1.68E-04	5.50E-06	6.98E-08	7.91E-05	3.60E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	3.44E-02	5.88E-07	1.97E-04	1.55E-03	1.51E-04	4.55E-06	2.20E-03	4.06E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.72E-01	6.44E-06	2.16E-03	1.32E-02	1.62E-03	4.99E-05	2.37E-02	7.62E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.20E-01	1.59E-06	4.67E-04	3.85E-03	4.26E-04	1.23E-05	6.14E-03	2.66E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.15E-04	9.43E-10	2.68E-06	4.06E-06	1.81E-07	7.30E-09	2.82E-06	7.71E-08	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.20E+02	3.71E-03	-9.18E-01	3.19E+01	6.63E-01	2.87E-02	1.33E+01	6.01E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	1.07E+01	7.72E-05	7.43E-01	3.47E+01	2.28E-02	5.98E-04	1.21E+00	2.43E-02	-5.12E+01

Table 325 | Resource use per m² of Solaris Ridge® 0.5mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.21E+01	3.76E-05	4.09E-01	3.26E-01	1.20E-01	2.91E-04	1.53E+00	1.06E-02	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.21E+01	3.76E-05	4.09E-01	3.26E-01	1.20E-01	2.91E-04	1.53E+00	1.06E-02	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.41E+02	3.71E-03	2.78E+00	3.19E+01	6.63E-01	2.87E-02	1.33E+01	6.01E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	7.99E+01	0.00E+00	-4.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.57E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.21E+02	3.71E-03	-1.37E+00	3.19E+01	6.63E-01	2.87E-02	1.33E+01	-7.51E+01	-9.47E+01
Use of secondary material	SM	kg	1.55E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	1.91E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.49E-01	4.42E-07	1.71E-04	3.67E-03	1.14E-04	3.42E-06	1.90E-03	3.40E-04	-2.62E-03

Table 326 | Waste generated per m² of Solaris Ridge® 0.5mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.89E-05	4.87E-09	-9.39E-06	1.08E-05	4.50E-07	3.77E-08	7.18E-06	8.56E-07	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.15E+00	2.56E-05	4.10E-01	6.54E-02	8.58E-03	1.98E-04	2.10E-01	2.45E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.76E-03	1.94E-11	1.97E-05	6.94E-06	4.39E-09	1.50E-10	7.81E-08	3.37E-06	-8.82E-08

Table 327 | Output flows per m² of Solaris Ridge[®] 0.5mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 328 | Additional environmental impacts per m² of Solaris Ridge[®] 0.5mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.99E+01	2.55E-04	9.76E-02	1.68E+00	1.37E-01	1.97E-03	2.05E+00	1.70E-01	-6.22E+00
Particulate matter	PM	disease incidence	1.98E-06	1.35E-11	9.60E-10	8.57E-08	8.88E-09	1.04E-10	1.20E-07	3.98E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.88E-01	1.40E-07	2.20E-02	4.85E-02	3.05E-05	1.09E-06	5.44E-04	2.72E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.69E+02	1.99E-03	-1.39E-01	7.90E+00	3.79E-01	1.54E-02	6.30E+00	1.06E+00	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.73E-08	1.26E-13	8.00E-09	7.57E-10	4.32E-11	9.76E-13	6.17E-10	2.85E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	7.98E+01	1.27E-03	-6.92E-01	5.34E+00	3.50E-01	9.85E-03	5.34E+00	3.28E-01	-1.36E+02
Soil quality	SQP	Pt	4.63E+01	9.64E-04	1.18E+00	6.96E-01	4.26E-01	7.46E-03	5.67E+00	1.29E+00	-1.15E+01

Table 329 | Environmental impacts per m² of Solaris Ridge[®] 0.5mm steel - 125mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.02E+01	2.56E-04	1.76E-01	1.72E+00	1.38E-01	1.98E-03	2.06E+00	1.93E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.26E-07	3.13E-11	3.64E-08	4.29E-08	2.33E-10	2.43E-10	1.66E-08	5.77E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.22E-01	1.09E-06	3.78E-04	7.45E-03	2.11E-04	8.43E-06	3.21E-03	1.59E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.52E-02	2.48E-07	-1.08E-05	1.16E-03	7.30E-05	1.92E-06	1.06E-03	1.72E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.61E-02	7.32E-08	3.62E-05	4.60E-04	4.31E-06	5.67E-07	7.52E-05	3.41E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.15E-04	9.43E-10	2.68E-06	4.06E-06	1.81E-07	7.30E-09	2.82E-06	7.72E-08	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.23E+02	3.72E-03	3.07E+00	2.91E+01	1.55E+00	2.88E-02	2.46E+01	5.66E-01	-1.41E+02

Table 330 | Environmental impacts per m² of Solaris Ridge[®] 0.5mm steel - 125mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.75E-08	5.84E-15	7.98E-12	3.51E-11	5.02E-12	4.52E-14	6.88E-11	1.74E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	9.27E-09	1.31E-15	1.44E-12	8.43E-13	8.52E-13	1.02E-14	1.12E-11	2.75E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.20E+01	6.83E-04	4.92E-01	4.93E-01	1.23E-02	5.29E-03	3.61E-01	4.30E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	3.88E-01	1.40E-07	2.20E-02	4.85E-02	3.06E-05	1.09E-06	5.45E-04	2.72E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.36E-02	2.55E-07	6.62E-05	9.55E-04	7.30E-05	1.97E-06	1.05E-03	4.91E-05	-7.93E-03
Resource depletion - water	RDW	m ³	2.37E-01	1.25E-06	9.69E-04	8.67E-03	9.97E-04	9.69E-06	1.36E-02	7.78E-04	-7.16E-03

Solaris Ridge® 0.5mm steel - 150mm

Table 331 | Environmental impacts per m² of Solaris Ridge® 0.5mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.31E+01	6.99E-04	5.62E-02	1.78E+00	1.39E-01	2.08E-03	2.08E+00	2.64E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-3.49E-01	3.00E-08	1.88E-01	2.94E-03	4.85E-04	8.90E-08	6.35E-03	1.75E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	4.69E-03	5.79E-09	6.60E-05	5.63E-06	2.87E-08	1.72E-08	7.86E-07	2.96E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.27E+01	6.99E-04	2.44E-01	1.78E+00	1.40E-01	2.08E-03	2.09E+00	2.64E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	6.09E-07	1.06E-10	4.15E-08	5.04E-08	2.66E-10	3.16E-10	2.03E-08	8.38E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.65E-01	5.51E-06	1.27E-03	9.09E-03	1.02E-03	1.64E-05	1.37E-02	2.42E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	9.15E-04	2.42E-08	-4.47E-05	1.68E-04	5.50E-06	7.19E-08	7.91E-05	4.20E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	3.53E-02	1.58E-06	1.85E-04	1.55E-03	1.51E-04	4.69E-06	2.20E-03	4.78E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.82E-01	1.73E-05	2.05E-03	1.32E-02	1.62E-03	5.14E-05	2.37E-02	8.80E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.24E-01	4.27E-06	3.44E-04	3.85E-03	4.26E-04	1.27E-05	6.14E-03	3.08E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.17E-04	2.53E-09	2.95E-06	4.06E-06	1.81E-07	7.53E-09	2.82E-06	8.98E-08	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.69E+02	9.96E-03	-2.29E+00	3.19E+01	6.63E-01	2.96E-02	1.33E+01	6.93E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	1.19E+01	2.07E-04	9.59E-01	3.47E+01	2.28E-02	6.16E-04	1.21E+00	2.80E-02	-5.12E+01

Table 332 | Resource use per m² of Solaris Ridge® 0.5mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.37E+01	1.01E-04	4.62E-01	3.26E-01	1.20E-01	3.00E-04	1.53E+00	1.24E-02	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.37E+01	1.01E-04	4.62E-01	3.26E-01	1.20E-01	3.00E-04	1.53E+00	1.24E-02	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.75E+02	9.96E-03	2.57E+00	3.19E+01	6.63E-01	2.96E-02	1.33E+01	6.93E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	9.43E+01	0.00E+00	-5.46E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.93E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.69E+02	9.96E-03	-2.89E+00	3.19E+01	6.63E-01	2.96E-02	1.33E+01	-8.86E+01	-9.47E+01
Use of secondary material	SM	kg	1.55E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	1.91E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.64E-01	1.19E-06	5.41E-05	3.67E-03	1.14E-04	3.52E-06	1.90E-03	3.92E-04	-2.62E-03

Table 333 | Waste generated per m² of Solaris Ridge® 0.5mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	7.38E-05	1.31E-08	-1.40E-05	1.08E-05	4.50E-07	3.89E-08	7.18E-06	9.87E-07	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.20E+00	6.87E-05	5.16E-01	6.54E-02	8.58E-03	2.04E-04	2.10E-01	2.79E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.77E-03	5.21E-11	2.11E-05	6.94E-06	4.39E-09	1.55E-10	7.81E-08	3.89E-06	-8.82E-08

Table 334 | Output flows per m² of Solaris Ridge[®] 0.5mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 335 | Additional environmental impacts per m² of Solaris Ridge[®] 0.5mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.12E+01	6.85E-04	6.27E-02	1.68E+00	1.37E-01	2.03E-03	2.05E+00	2.00E-01	-6.22E+00
Particulate matter	PM	disease incidence	2.04E-06	3.62E-11	-3.19E-09	8.57E-08	8.88E-09	1.08E-10	1.20E-07	4.60E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.98E-01	3.77E-07	2.50E-02	4.85E-02	3.05E-05	1.12E-06	5.44E-04	3.14E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.82E+02	5.35E-03	-1.18E+00	7.90E+00	3.79E-01	1.59E-02	6.30E+00	1.24E+00	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	3.03E-08	3.38E-13	9.93E-09	7.57E-10	4.32E-11	1.01E-12	6.17E-10	3.33E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	9.19E+01	3.42E-03	-1.71E+00	5.34E+00	3.50E-01	1.02E-02	5.34E+00	3.81E-01	-1.36E+02
Soil quality	SQP	Pt	5.47E+01	2.59E-03	1.25E+00	6.96E-01	4.26E-01	7.69E-03	5.67E+00	1.50E+00	-1.15E+01

Table 336 | Environmental impacts per m² of Solaris Ridge[®] 0.5mm steel - 150mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.17E+01	6.86E-04	1.66E-01	1.72E+00	1.38E-01	2.04E-03	2.06E+00	2.27E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.70E-07	8.42E-11	3.59E-08	4.29E-08	2.33E-10	2.50E-10	1.66E-08	6.64E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.27E-01	2.92E-06	2.89E-04	7.45E-03	2.11E-04	8.69E-06	3.21E-03	1.84E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.58E-02	6.67E-07	-6.58E-05	1.16E-03	7.30E-05	1.98E-06	1.06E-03	2.03E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C ₂ H ₄ eq	1.64E-02	1.97E-07	1.74E-05	4.60E-04	4.31E-06	5.84E-07	7.52E-05	4.00E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.17E-04	2.53E-09	2.95E-06	4.06E-06	1.81E-07	7.53E-09	2.82E-06	8.98E-08	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.54E+02	9.99E-03	2.71E+00	2.91E+01	1.55E+00	2.97E-02	2.46E+01	6.54E-01	-1.41E+02

Table 337 | Environmental impacts per m² of Solaris Ridge[®] 0.5mm steel - 150mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.84E-08	1.57E-14	7.04E-12	3.51E-11	5.02E-12	4.66E-14	6.88E-11	2.02E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	9.27E-09	3.52E-15	1.53E-12	8.43E-13	8.52E-13	1.05E-14	1.12E-11	3.17E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.29E+01	1.83E-03	5.00E-01	4.93E-01	1.23E-02	5.45E-03	3.61E-01	4.89E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	3.98E-01	3.77E-07	2.51E-02	4.85E-02	3.06E-05	1.12E-06	5.45E-04	3.15E-03	-6.12E-04
Particulate Matter	PM	kg PM _{2.5} -Equiv.	1.43E-02	6.85E-07	1.20E-05	9.55E-04	7.30E-05	2.03E-06	1.05E-03	5.69E-05	-7.93E-03
Resource depletion - water	RDW	m ³	2.73E-01	3.36E-06	6.62E-04	8.67E-03	9.97E-04	9.98E-06	1.36E-02	8.96E-04	-7.16E-03

Solaris Ridge® 0.5mm steel - 200mm

Table 338 | Environmental impacts per m² of Solaris Ridge® 0.5mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.43E+01	4.09E-04	-3.81E-02	1.78E+00	1.20E-01	2.20E-03	2.08E+00	3.44E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-5.47E-01	1.75E-08	2.77E-01	2.94E-03	2.51E-04	9.43E-08	6.35E-03	2.28E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	5.22E-03	3.39E-09	1.20E-04	5.63E-06	4.79E-05	1.82E-08	7.86E-07	3.77E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.37E+01	4.09E-04	2.39E-01	1.78E+00	1.20E-01	2.20E-03	2.09E+00	3.44E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.07E-07	6.23E-11	2.37E-07	5.04E-08	1.96E-07	3.35E-10	2.03E-08	1.06E-08	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.65E-01	3.23E-06	1.55E-03	9.09E-03	1.43E-03	1.74E-05	1.37E-02	3.07E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.04E-03	1.42E-08	-7.47E-05	1.68E-04	8.97E-06	7.62E-08	7.91E-05	5.40E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	3.48E-02	9.24E-07	1.94E-04	1.55E-03	1.83E-04	4.97E-06	2.20E-03	6.24E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.75E-01	1.01E-05	2.20E-03	1.32E-02	2.01E-03	5.45E-05	2.37E-02	1.12E-03	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.27E-01	2.50E-06	4.96E-04	3.85E-03	8.22E-04	1.34E-05	6.14E-03	3.92E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.15E-04	1.48E-09	3.48E-06	4.06E-06	1.52E-07	7.97E-09	2.82E-06	1.15E-07	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	7.39E+02	5.83E-03	7.22E+00	3.19E+01	1.29E+01	3.13E-02	1.33E+01	8.78E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	1.37E+01	1.21E-04	1.37E+00	3.47E+01	5.79E-03	6.53E-04	1.21E+00	3.54E-02	-5.12E+01

Table 339 | Resource use per m² of Solaris Ridge® 0.5mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.65E+01	5.92E-05	4.80E-01	3.26E-01	3.12E-02	3.18E-04	1.53E+00	1.60E-02	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	2.65E+01	5.92E-05	4.80E-01	3.26E-01	3.12E-02	3.18E-04	1.53E+00	1.60E-02	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.16E+02	5.83E-03	1.44E+01	3.19E+01	1.29E+01	3.13E-02	1.33E+01	8.78E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.23E+02	0.00E+00	-8.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.16E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	7.40E+02	5.83E-03	6.33E+00	3.19E+01	1.29E+01	3.13E-02	1.33E+01	-1.16E+02	-9.47E+01
Use of secondary material	SM	kg	1.55E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	1.91E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.91E-01	6.94E-07	-2.14E-04	3.67E-03	7.94E-05	3.73E-06	1.90E-03	4.96E-04	-2.62E-03

Table 340 | Waste generated per m² of Solaris Ridge® 0.5mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	5.10E-05	7.65E-09	9.25E-06	1.08E-05	3.28E-05	4.12E-08	7.18E-06	1.25E-06	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.05E+00	4.02E-05	7.25E-01	6.54E-02	6.11E-03	2.16E-04	2.10E-01	3.47E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.78E-03	3.05E-11	1.11E-04	6.94E-06	8.69E-05	1.64E-10	7.81E-08	4.91E-06	-8.82E-08

Table 341 | Output flows per m² of Solaris Ridge[®] 0.5mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 342 | Additional environmental impacts per m² of Solaris Ridge[®] 0.5mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.22E+01	4.01E-04	-2.86E-02	1.68E+00	1.15E-01	2.15E-03	2.05E+00	2.60E-01	-6.22E+00
Particulate matter	PM	disease incidence	2.02E-06	2.12E-11	-1.29E-08	8.57E-08	7.51E-09	1.14E-10	1.20E-07	5.84E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	4.16E-01	2.20E-07	8.55E-02	4.85E-02	5.43E-02	1.19E-06	5.44E-04	3.99E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.94E+02	3.13E-03	2.70E+00	7.90E+00	6.33E+00	1.68E-02	6.30E+00	1.61E+00	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	3.54E-08	1.98E-13	1.38E-08	7.57E-10	8.35E-11	1.07E-12	6.17E-10	4.29E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.07E+02	2.00E-03	-5.42E-01	5.34E+00	3.54E+00	1.08E-02	5.34E+00	4.87E-01	-1.36E+02
Soil quality	SQP	Pt	6.49E+01	1.51E-03	2.45E+00	6.96E-01	1.49E+00	8.15E-03	5.67E+00	1.90E+00	-1.15E+01

Table 343 | Environmental impacts per m² of Solaris Ridge[®] 0.5mm steel - 200mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.27E+01	4.02E-04	1.24E-01	1.72E+00	1.17E-01	2.16E-03	2.06E+00	2.96E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.25E-07	4.92E-11	1.90E-07	4.29E-08	1.55E-07	2.65E-10	1.66E-08	8.38E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.31E-01	1.71E-06	1.13E-03	7.45E-03	1.22E-03	9.20E-06	3.21E-03	2.34E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.59E-02	3.90E-07	-1.57E-04	1.16E-03	9.16E-05	2.10E-06	1.06E-03	2.65E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.66E-02	1.15E-07	2.54E-05	4.60E-04	4.99E-05	6.19E-07	7.52E-05	5.20E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.16E-04	1.48E-09	3.48E-06	4.06E-06	1.52E-07	7.97E-09	2.82E-06	1.15E-07	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.90E+02	5.85E-03	1.23E+01	2.91E+01	1.19E+01	3.14E-02	2.46E+01	8.28E-01	-1.41E+02

Table 344 | Environmental impacts per m² of Solaris Ridge[®] 0.5mm steel - 200mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.02E-08	9.17E-15	5.21E-12	3.51E-11	5.05E-12	4.93E-14	6.88E-11	2.57E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	9.27E-09	2.06E-15	1.43E-12	8.43E-13	5.62E-13	1.11E-14	1.12E-11	4.02E-13	-8.81E-12
Land use	LU	kg C deficit eq.	9.77E+00	1.07E-03	2.62E+00	4.93E-01	2.11E+00	5.77E-03	3.61E-01	6.06E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	4.16E-01	2.20E-07	8.55E-02	4.85E-02	5.43E-02	1.19E-06	5.45E-04	3.99E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.43E-02	4.00E-07	3.45E-06	9.55E-04	1.72E-04	2.15E-06	1.05E-03	7.23E-05	-7.93E-03
Resource depletion - water	RDW	m ³	3.34E-01	1.97E-06	-7.54E-04	8.67E-03	1.91E-04	1.06E-05	1.36E-02	1.13E-03	-7.16E-03

Solaris Ridge® 0.6mm steel - 50mm

Table 345 | Environmental impacts per m² of Solaris Ridge® 0.6mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	3.36E+01	2.92E-04	1.42E-01	1.78E+00	1.39E-01	1.66E-03	1.86E+00	1.06E-01	-6.47E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.46E-01	1.25E-08	8.56E-02	2.94E-03	4.85E-04	7.11E-08	5.69E-03	7.07E-05	2.89E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	3.63E-03	2.42E-09	5.93E-05	5.63E-06	2.87E-08	1.37E-08	7.04E-07	1.30E-05	-6.75E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	3.35E+01	2.92E-04	2.27E-01	1.78E+00	1.40E-01	1.66E-03	1.87E+00	1.06E-01	-6.47E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.49E-07	4.44E-11	4.20E-08	5.04E-08	2.66E-10	2.52E-10	1.82E-08	3.89E-09	-1.31E-08
Acidification potential	AP	mol H ⁺ eq.	1.30E-01	2.30E-06	1.42E-03	9.09E-03	1.02E-03	1.31E-05	1.23E-02	1.09E-04	-5.91E-02
Eutrophication – freshwater	EP - F	kg P eq.	6.28E-04	1.01E-08	-6.30E-06	1.68E-04	5.50E-06	5.74E-08	7.08E-05	1.79E-06	-1.46E-04
Eutrophication – marine	EP - M	kg N eq.	2.87E-02	6.58E-07	2.12E-04	1.55E-03	1.51E-04	3.74E-06	1.97E-03	1.89E-03	-1.19E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.09E-01	7.21E-06	2.31E-03	1.32E-02	1.62E-03	4.10E-05	2.12E-02	3.99E-04	-1.35E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	9.57E-02	1.78E-06	6.24E-04	3.85E-03	4.26E-04	1.01E-05	5.50E-03	1.37E-04	-3.20E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	9.99E-05	1.06E-09	2.32E-06	4.06E-06	1.81E-07	6.01E-09	2.52E-06	3.87E-08	-1.89E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	4.38E+02	4.15E-03	8.47E-01	3.19E+01	6.63E-01	2.36E-02	1.19E+01	3.17E-01	-8.48E+01
Water Depletion Potential	WDP	m ³	7.15E+00	8.65E-05	4.63E-01	3.47E+01	2.28E-02	4.92E-04	1.09E+00	1.29E-02	-4.58E+01

Table 346 | Resource use per m² of Solaris Ridge® 0.6mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.79E+01	4.22E-05	3.41E-01	3.26E-01	1.20E-01	2.40E-04	1.37E+00	5.24E-03	-9.36E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	1.79E+01	4.22E-05	3.41E-01	3.26E-01	1.20E-01	2.40E-04	1.37E+00	5.24E-03	-9.36E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.01E+02	4.15E-03	3.04E+00	3.19E+01	6.63E-01	2.36E-02	1.19E+01	3.17E-01	-8.48E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	3.80E+01	0.00E+00	-2.46E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.52E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	4.39E+02	4.15E-03	5.78E-01	3.19E+01	6.63E-01	2.36E-02	1.19E+01	-3.49E+01	-8.48E+01
Use of secondary material	SM	kg	1.45E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	1.31E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	9.70E-02	4.95E-07	3.22E-04	3.67E-03	1.14E-04	2.81E-06	1.70E-03	1.80E-04	-2.35E-03

Table 347 | Waste generated per m² of Solaris Ridge® 0.6mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	5.90E-05	5.45E-09	-3.52E-06	1.08E-05	4.50E-07	3.10E-08	6.43E-06	4.51E-07	-7.66E-06
Non-hazardous waste disposed	NHWD	kg	9.49E-01	2.87E-05	2.64E-01	6.54E-02	8.58E-03	1.63E-04	1.88E-01	1.38E+00	-9.69E-01
Radioactive waste disposed/stored	RWD	kg	1.50E-03	2.17E-11	1.79E-05	6.94E-06	4.39E-09	1.24E-10	7.00E-08	1.80E-06	-7.90E-08

Table 348 | Output flows per m² of Solaris Ridge® 0.6mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 349 | Additional environmental impacts per m² of Solaris Ridge® 0.6mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.25E+01	2.86E-04	1.42E-01	1.68E+00	1.37E-01	1.62E-03	1.84E+00	8.02E-02	-5.58E+00
Particulate matter	PM	disease incidence	1.63E-06	1.51E-11	6.30E-09	8.57E-08	8.88E-09	8.59E-11	1.07E-07	2.09E-09	-4.03E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.32E-01	1.57E-07	1.80E-02	4.85E-02	3.05E-05	8.93E-07	4.88E-04	1.42E-03	-5.48E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.40E+02	2.23E-03	1.19E+00	7.90E+00	3.79E-01	1.27E-02	5.64E+00	5.16E-01	-1.23E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.24E-08	1.41E-13	5.51E-09	7.57E-10	4.32E-11	8.03E-13	5.53E-10	1.41E-11	-2.04E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	5.24E+01	1.42E-03	6.06E-01	5.34E+00	3.50E-01	8.11E-03	4.78E+00	1.67E-01	-1.22E+02
Soil quality	SQP	Pt	3.37E+01	1.08E-03	1.09E+00	6.96E-01	4.26E-01	6.14E-03	5.08E+00	6.76E-01	-1.03E+01

Table 350 | Environmental impacts per m² of Solaris Ridge® 0.6mm steel - 50mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.26E+01	2.86E-04	1.90E-01	1.72E+00	1.38E-01	1.63E-03	1.85E+00	9.10E-02	-5.56E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.11E-07	3.51E-11	3.70E-08	4.29E-08	2.33E-10	2.00E-10	1.49E-08	3.09E-09	-1.04E-08
Acidification potential	AP	kg SO ₂ eq	9.84E-02	1.22E-06	4.90E-04	7.45E-03	2.11E-04	6.94E-06	2.88E-03	8.30E-05	-3.65E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.25E-02	2.78E-07	5.99E-05	1.16E-03	7.30E-05	1.58E-06	9.50E-04	8.03E-04	-5.03E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.35E-02	8.20E-08	6.03E-05	4.60E-04	4.31E-06	4.66E-07	6.74E-05	1.62E-05	-1.33E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.00E-04	1.06E-09	2.32E-06	4.06E-06	1.81E-07	6.01E-09	2.52E-06	3.88E-08	-1.89E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	3.93E+02	4.17E-03	3.53E+00	2.91E+01	1.55E+00	2.37E-02	2.21E+01	2.98E-01	-1.27E+02

Table 351 | Environmental impacts per m² of Solaris Ridge® 0.6mm steel - 50mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.62E-08	6.54E-15	9.17E-12	3.51E-11	5.02E-12	3.72E-14	6.16E-11	8.99E-13	-3.07E-10
Human Toxicity non-cancer	HTnc	CTUh	9.26E-09	1.47E-15	1.32E-12	8.43E-13	8.52E-13	8.36E-15	9.99E-12	1.45E-13	-7.89E-12
Land use	LU	kg C deficit eq.	9.87E+00	7.65E-04	4.81E-01	4.93E-01	1.23E-02	4.35E-03	3.23E-01	2.45E-01	-1.20E+00
Ionising radiation	IR	kBq U235 eq	3.32E-01	1.57E-07	1.80E-02	4.85E-02	3.06E-05	8.94E-07	4.88E-04	1.42E-03	-5.48E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.08E-02	2.85E-07	1.36E-04	9.55E-04	7.30E-05	1.62E-06	9.42E-04	2.55E-05	-7.10E-03
Resource depletion - water	RDW	m ³	1.35E-01	1.40E-06	1.36E-03	8.67E-03	9.97E-04	7.97E-06	1.22E-02	4.13E-04	-6.42E-03

Solaris Ridge® 0.6mm steel - 75mm

Table 352 | Environmental impacts per m² of Solaris Ridge® 0.6mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	3.50E+01	3.69E-04	1.30E-01	1.78E+00	1.39E-01	1.72E-03	1.86E+00	1.46E-01	-6.47E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.64E-01	1.58E-08	9.95E-02	2.94E-03	4.85E-04	7.37E-08	5.69E-03	9.71E-05	2.89E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	3.71E-03	3.06E-09	6.02E-05	5.63E-06	2.87E-08	1.43E-08	7.04E-07	1.71E-05	-6.75E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	3.48E+01	3.69E-04	2.30E-01	1.78E+00	1.40E-01	1.72E-03	1.87E+00	1.46E-01	-6.47E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.73E-07	5.61E-11	4.19E-08	5.04E-08	2.66E-10	2.62E-10	1.82E-08	5.00E-09	-1.31E-08
Acidification potential	AP	mol H ⁺ eq.	1.35E-01	2.91E-06	1.40E-03	9.09E-03	1.02E-03	1.36E-05	1.23E-02	1.42E-04	-5.91E-02
Eutrophication – freshwater	EP - F	kg P eq.	6.82E-04	1.28E-08	-1.15E-05	1.68E-04	5.50E-06	5.96E-08	7.08E-05	2.39E-06	-1.46E-04
Eutrophication – marine	EP - M	kg N eq.	2.94E-02	8.33E-07	2.08E-04	1.55E-03	1.51E-04	3.88E-06	1.97E-03	2.62E-03	-1.19E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.17E-01	9.13E-06	2.27E-03	1.32E-02	1.62E-03	4.26E-05	2.12E-02	5.18E-04	-1.35E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	9.99E-02	2.25E-06	5.86E-04	3.85E-03	4.26E-04	1.05E-05	5.50E-03	1.79E-04	-3.20E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.01E-04	1.34E-09	2.41E-06	4.06E-06	1.81E-07	6.23E-09	2.52E-06	5.15E-08	-1.89E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	4.84E+02	5.25E-03	4.23E-01	3.19E+01	6.63E-01	2.45E-02	1.19E+01	4.10E-01	-8.48E+01
Water Depletion Potential	WDP	m ³	8.31E+00	1.09E-04	5.30E-01	3.47E+01	2.28E-02	5.10E-04	1.09E+00	1.66E-02	-4.58E+01

Table 353 | Resource use per m² of Solaris Ridge® 0.6mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.84E+01	5.33E-05	3.58E-01	3.26E-01	1.20E-01	2.49E-04	1.37E+00	7.03E-03	-9.36E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	1.84E+01	5.33E-05	3.58E-01	3.26E-01	1.20E-01	2.49E-04	1.37E+00	7.03E-03	-9.36E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.33E+02	5.25E-03	2.98E+00	3.19E+01	6.63E-01	2.45E-02	1.19E+01	4.10E-01	-8.48E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	5.20E+01	0.00E+00	-2.87E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.89E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	4.85E+02	5.25E-03	1.10E-01	3.19E+01	6.63E-01	2.45E-02	1.19E+01	-4.84E+01	-8.48E+01
Use of secondary material	SM	kg	1.45E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	1.31E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.11E-01	6.26E-07	2.86E-04	3.67E-03	1.14E-04	2.92E-06	1.70E-03	2.33E-04	-2.35E-03

Table 354 | Waste generated per m² of Solaris Ridge® 0.6mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.05E-05	6.90E-09	-4.93E-06	1.08E-05	4.50E-07	3.22E-08	6.43E-06	5.83E-07	-7.66E-06
Non-hazardous waste disposed	NHWD	kg	9.74E-01	3.62E-05	2.96E-01	6.54E-02	8.58E-03	1.69E-04	1.88E-01	1.72E+00	-9.69E-01
Radioactive waste disposed/stored	RWD	kg	1.50E-03	2.75E-11	1.83E-05	6.94E-06	4.39E-09	1.28E-10	7.00E-08	2.31E-06	-7.90E-08

Table 355 | Output flows per m² of Solaris Ridge® 0.6mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 356 | Additional environmental impacts per m² of Solaris Ridge® 0.6mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.37E+01	3.61E-04	1.31E-01	1.68E+00	1.37E-01	1.68E-03	1.84E+00	1.10E-01	-5.58E+00
Particulate matter	PM	disease incidence	1.68E-06	1.91E-11	5.01E-09	8.57E-08	8.88E-09	8.91E-11	1.07E-07	2.71E-09	-4.03E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.35E-01	1.99E-07	1.89E-02	4.85E-02	3.05E-05	9.26E-07	4.88E-04	1.85E-03	-5.48E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.48E+02	2.82E-03	8.67E-01	7.90E+00	3.79E-01	1.32E-02	5.64E+00	6.99E-01	-1.23E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.36E-08	1.79E-13	6.11E-09	7.57E-10	4.32E-11	8.33E-13	5.53E-10	1.89E-11	-2.04E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	6.05E+01	1.80E-03	2.92E-01	5.34E+00	3.50E-01	8.41E-03	4.78E+00	2.20E-01	-1.22E+02
Soil quality	SQP	Pt	3.62E+01	1.37E-03	1.11E+00	6.96E-01	4.26E-01	6.37E-03	5.08E+00	8.79E-01	-1.03E+01

Table 357 | Environmental impacts per m² of Solaris Ridge® 0.6mm steel - 75mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.39E+01	3.62E-04	1.86E-01	1.72E+00	1.38E-01	1.69E-03	1.85E+00	1.25E-01	-5.56E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.38E-07	4.44E-11	3.68E-08	4.29E-08	2.33E-10	2.07E-10	1.49E-08	3.96E-09	-1.04E-08
Acidification potential	AP	kg SO ₂ eq	1.02E-01	1.54E-06	4.63E-04	7.45E-03	2.11E-04	7.19E-06	2.88E-03	1.08E-04	-3.65E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.30E-02	3.52E-07	4.29E-05	1.16E-03	7.30E-05	1.64E-06	9.50E-04	1.11E-03	-5.03E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.38E-02	1.04E-07	5.45E-05	4.60E-04	4.31E-06	4.84E-07	6.74E-05	2.22E-05	-1.33E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.01E-04	1.34E-09	2.41E-06	4.06E-06	1.81E-07	6.23E-09	2.52E-06	5.15E-08	-1.89E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.21E+02	5.27E-03	3.41E+00	2.91E+01	1.55E+00	2.46E-02	2.21E+01	3.86E-01	-1.27E+02

Table 358 | Environmental impacts per m² of Solaris Ridge® 0.6mm steel - 75mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.65E-08	8.27E-15	8.88E-12	3.51E-11	5.02E-12	3.86E-14	6.16E-11	1.18E-12	-3.07E-10
Human Toxicity non-cancer	HTnc	CTUh	9.26E-09	1.86E-15	1.35E-12	8.43E-13	8.52E-13	8.67E-15	9.99E-12	1.87E-13	-7.89E-12
Land use	LU	kg C deficit eq.	1.01E+01	9.67E-04	4.83E-01	4.93E-01	1.23E-02	4.51E-03	3.23E-01	3.04E-01	-1.20E+00
Ionising radiation	IR	kBq U235 eq	3.35E-01	1.99E-07	1.89E-02	4.85E-02	3.06E-05	9.27E-07	4.88E-04	1.85E-03	-5.48E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.14E-02	3.61E-07	1.19E-04	9.55E-04	7.30E-05	1.68E-06	9.42E-04	3.33E-05	-7.10E-03
Resource depletion - water	RDW	m ³	1.67E-01	1.77E-06	1.27E-03	8.67E-03	9.97E-04	8.27E-06	1.22E-02	5.32E-04	-6.42E-03

Solaris Ridge® 0.6mm steel - 100mm

Table 359 | Environmental impacts per m² of Solaris Ridge® 0.6mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	3.63E+01	3.07E-04	1.16E-01	1.78E+00	1.39E-01	1.78E-03	1.86E+00	1.85E-01	-6.47E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.95E-01	1.31E-08	1.16E-01	2.94E-03	4.85E-04	7.64E-08	5.69E-03	1.23E-04	2.89E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	3.82E-03	2.54E-09	6.13E-05	5.63E-06	2.87E-08	1.48E-08	7.04E-07	2.12E-05	-6.75E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	3.62E+01	3.07E-04	2.32E-01	1.78E+00	1.40E-01	1.78E-03	1.87E+00	1.86E-01	-6.47E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.00E-07	4.67E-11	4.19E-08	5.04E-08	2.66E-10	2.71E-10	1.82E-08	6.09E-09	-1.31E-08
Acidification potential	AP	mol H ⁺ eq.	1.40E-01	2.42E-06	1.38E-03	9.09E-03	1.02E-03	1.40E-05	1.23E-02	1.75E-04	-5.91E-02
Eutrophication – freshwater	EP - F	kg P eq.	7.42E-04	1.06E-08	-1.78E-05	1.68E-04	5.50E-06	6.17E-08	7.08E-05	2.99E-06	-1.46E-04
Eutrophication – marine	EP - M	kg N eq.	3.02E-02	6.92E-07	2.04E-04	1.55E-03	1.51E-04	4.02E-06	1.97E-03	3.35E-03	-1.19E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.25E-01	7.59E-06	2.23E-03	1.32E-02	1.62E-03	4.41E-05	2.12E-02	6.36E-04	-1.35E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.04E-01	1.87E-06	5.40E-04	3.85E-03	4.26E-04	1.09E-05	5.50E-03	2.21E-04	-3.20E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.01E-04	1.11E-09	2.51E-06	4.06E-06	1.81E-07	6.46E-09	2.52E-06	6.41E-08	-1.89E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.30E+02	4.37E-03	-9.63E-02	3.19E+01	6.63E-01	2.54E-02	1.19E+01	5.02E-01	-8.48E+01
Water Depletion Potential	WDP	m ³	9.23E+00	9.10E-05	6.11E-01	3.47E+01	2.28E-02	5.29E-04	1.09E+00	2.03E-02	-4.58E+01

Table 360 | Resource use per m² of Solaris Ridge® 0.6mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.91E+01	4.44E-05	3.78E-01	3.26E-01	1.20E-01	2.58E-04	1.37E+00	8.81E-03	-9.36E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	1.91E+01	4.44E-05	3.78E-01	3.26E-01	1.20E-01	2.58E-04	1.37E+00	8.81E-03	-9.36E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.64E+02	4.37E-03	2.90E+00	3.19E+01	6.63E-01	2.54E-02	1.19E+01	5.02E-01	-8.48E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	6.58E+01	0.00E+00	-3.36E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.25E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.30E+02	4.37E-03	-4.63E-01	3.19E+01	6.63E-01	2.54E-02	1.19E+01	-6.20E+01	-8.48E+01
Use of secondary material	SM	kg	1.45E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	1.31E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.25E-01	5.20E-07	2.42E-04	3.67E-03	1.14E-04	3.02E-06	1.70E-03	2.84E-04	-2.35E-03

Table 361 | Waste generated per m² of Solaris Ridge® 0.6mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.26E-05	5.74E-09	-6.65E-06	1.08E-05	4.50E-07	3.33E-08	6.43E-06	7.15E-07	-7.66E-06
Non-hazardous waste disposed	NHWD	kg	1.00E+00	3.01E-05	3.36E-01	6.54E-02	8.58E-03	1.75E-04	1.88E-01	2.06E+00	-9.69E-01
Radioactive waste disposed/stored	RWD	kg	1.51E-03	2.29E-11	1.89E-05	6.94E-06	4.39E-09	1.33E-10	7.00E-08	2.82E-06	-7.90E-08

Table 362 | Output flows per m² of Solaris Ridge[®] 0.6mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 363 | Additional environmental impacts per m² of Solaris Ridge[®] 0.6mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.49E+01	3.00E-04	1.18E-01	1.68E+00	1.37E-01	1.74E-03	1.84E+00	1.40E-01	-5.58E+00
Particulate matter	PM	disease incidence	1.74E-06	1.59E-11	3.44E-09	8.57E-08	8.88E-09	9.23E-11	1.07E-07	3.33E-09	-4.03E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.39E-01	1.65E-07	2.01E-02	4.85E-02	3.05E-05	9.60E-07	4.88E-04	2.27E-03	-5.48E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.58E+02	2.35E-03	4.75E-01	7.90E+00	3.79E-01	1.36E-02	5.64E+00	8.81E-01	-1.23E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.51E-08	1.48E-13	6.84E-09	7.57E-10	4.32E-11	8.62E-13	5.53E-10	2.37E-11	-2.04E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	6.91E+01	1.50E-03	-9.11E-02	5.34E+00	3.50E-01	8.71E-03	4.78E+00	2.73E-01	-1.22E+02
Soil quality	SQP	Pt	3.95E+01	1.14E-03	1.14E+00	6.96E-01	4.26E-01	6.60E-03	5.08E+00	1.08E+00	-1.03E+01

Table 364 | Environmental impacts per m² of Solaris Ridge[®] 0.6mm steel - 100mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.52E+01	3.01E-04	1.82E-01	1.72E+00	1.38E-01	1.75E-03	1.85E+00	1.59E-01	-5.56E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.68E-07	3.69E-11	3.67E-08	4.29E-08	2.33E-10	2.14E-10	1.49E-08	4.83E-09	-1.04E-08
Acidification potential	AP	kg SO ₂ eq	1.06E-01	1.28E-06	4.30E-04	7.45E-03	2.11E-04	7.45E-06	2.88E-03	1.33E-04	-3.65E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.34E-02	2.93E-07	2.21E-05	1.16E-03	7.30E-05	1.70E-06	9.50E-04	1.42E-03	-5.03E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.40E-02	8.62E-08	4.74E-05	4.60E-04	4.31E-06	5.01E-07	6.74E-05	2.82E-05	-1.33E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.02E-04	1.11E-09	2.51E-06	4.06E-06	1.81E-07	6.46E-09	2.52E-06	6.42E-08	-1.89E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.50E+02	4.38E-03	3.28E+00	2.91E+01	1.55E+00	2.55E-02	2.21E+01	4.73E-01	-1.27E+02

Table 365 | Environmental impacts per m² of Solaris Ridge[®] 0.6mm steel - 100mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.69E-08	6.88E-15	8.53E-12	3.51E-11	5.02E-12	4.00E-14	6.16E-11	1.45E-12	-3.07E-10
Human Toxicity non-cancer	HTnc	CTUh	9.26E-09	1.55E-15	1.39E-12	8.43E-13	8.52E-13	8.98E-15	9.99E-12	2.30E-13	-7.89E-12
Land use	LU	kg C deficit eq.	1.05E+01	8.04E-04	4.86E-01	4.93E-01	1.23E-02	4.67E-03	3.23E-01	3.63E-01	-1.20E+00
Ionising radiation	IR	kBq U235 eq	3.39E-01	1.65E-07	2.01E-02	4.85E-02	3.06E-05	9.60E-07	4.88E-04	2.27E-03	-5.48E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.20E-02	3.00E-07	9.85E-05	9.55E-04	7.30E-05	1.74E-06	9.42E-04	4.10E-05	-7.10E-03
Resource depletion - water	RDW	m ³	2.00E-01	1.47E-06	1.15E-03	8.67E-03	9.97E-04	8.56E-06	1.22E-02	6.50E-04	-6.42E-03

Solaris Ridge® 0.6mm steel - 125mm

Table 366 | Environmental impacts per m² of Solaris Ridge® 0.6mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	3.78E+01	2.60E-04	9.37E-02	1.78E+00	1.39E-01	1.84E-03	1.86E+00	2.24E-01	-6.47E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-2.49E-01	1.12E-08	1.43E-01	2.94E-03	4.85E-04	7.89E-08	5.69E-03	1.49E-04	2.89E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	3.99E-03	2.16E-09	6.31E-05	5.63E-06	2.87E-08	1.53E-08	7.04E-07	2.52E-05	-6.75E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	3.75E+01	2.60E-04	2.37E-01	1.78E+00	1.40E-01	1.84E-03	1.87E+00	2.24E-01	-6.47E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.33E-07	3.96E-11	4.17E-08	5.04E-08	2.66E-10	2.80E-10	1.82E-08	7.16E-09	-1.31E-08
Acidification potential	AP	mol H ⁺ eq.	1.45E-01	2.05E-06	1.34E-03	9.09E-03	1.02E-03	1.45E-05	1.23E-02	2.06E-04	-5.91E-02
Eutrophication – freshwater	EP - F	kg P eq.	8.14E-04	9.01E-09	-2.79E-05	1.68E-04	5.50E-06	6.38E-08	7.08E-05	3.57E-06	-1.46E-04
Eutrophication – marine	EP - M	kg N eq.	3.10E-02	5.88E-07	1.97E-04	1.55E-03	1.51E-04	4.16E-06	1.97E-03	4.05E-03	-1.19E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.34E-01	6.44E-06	2.16E-03	1.32E-02	1.62E-03	4.56E-05	2.12E-02	7.51E-04	-1.35E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.08E-01	1.59E-06	4.67E-04	3.85E-03	4.26E-04	1.13E-05	5.50E-03	2.62E-04	-3.20E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.03E-04	9.43E-10	2.68E-06	4.06E-06	1.81E-07	6.67E-09	2.52E-06	7.64E-08	-1.89E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.76E+02	3.71E-03	-9.18E-01	3.19E+01	6.63E-01	2.62E-02	1.19E+01	5.92E-01	-8.48E+01
Water Depletion Potential	WDP	m ³	1.03E+01	7.72E-05	7.43E-01	3.47E+01	2.28E-02	5.46E-04	1.09E+00	2.39E-02	-4.58E+01

Table 367 | Resource use per m² of Solaris Ridge® 0.6mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.01E+01	3.76E-05	4.09E-01	3.26E-01	1.20E-01	2.66E-04	1.37E+00	1.05E-02	-9.36E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.01E+01	3.76E-05	4.09E-01	3.26E-01	1.20E-01	2.66E-04	1.37E+00	1.05E-02	-9.36E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.97E+02	3.71E-03	2.78E+00	3.19E+01	6.63E-01	2.62E-02	1.19E+01	5.92E-01	-8.48E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	7.99E+01	0.00E+00	-4.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.57E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.77E+02	3.71E-03	-1.37E+00	3.19E+01	6.63E-01	2.62E-02	1.19E+01	-7.51E+01	-8.48E+01
Use of secondary material	SM	kg	1.45E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	1.31E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.40E-01	4.42E-07	1.71E-04	3.67E-03	1.14E-04	3.12E-06	1.70E-03	3.35E-04	-2.35E-03

Table 368 | Waste generated per m² of Solaris Ridge® 0.6mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.56E-05	4.87E-09	-9.39E-06	1.08E-05	4.50E-07	3.45E-08	6.43E-06	8.43E-07	-7.66E-06
Non-hazardous waste disposed	NHWD	kg	1.04E+00	2.56E-05	4.10E-01	6.54E-02	8.58E-03	1.81E-04	1.88E-01	2.39E+00	-9.69E-01
Radioactive waste disposed/stored	RWD	kg	1.51E-03	1.94E-11	1.97E-05	6.94E-06	4.39E-09	1.37E-10	7.00E-08	3.32E-06	-7.90E-08

Table 369 | Output flows per m² of Solaris Ridge® 0.6mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 370 | Additional environmental impacts per m² of Solaris Ridge® 0.6mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.62E+01	2.55E-04	9.76E-02	1.68E+00	1.37E-01	1.80E-03	1.84E+00	1.70E-01	-5.58E+00
Particulate matter	PM	disease incidence	1.80E-06	1.35E-11	9.60E-10	8.57E-08	8.88E-09	9.54E-11	1.07E-07	3.93E-09	-4.03E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.45E-01	1.40E-07	2.20E-02	4.85E-02	3.05E-05	9.92E-07	4.88E-04	2.68E-03	-5.48E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.68E+02	1.99E-03	-1.39E-01	7.90E+00	3.79E-01	1.41E-02	5.64E+00	1.06E+00	-1.23E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.72E-08	1.26E-13	8.00E-09	7.57E-10	4.32E-11	8.91E-13	5.53E-10	2.83E-11	-2.04E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	7.89E+01	1.27E-03	-6.92E-01	5.34E+00	3.50E-01	9.00E-03	4.78E+00	3.24E-01	-1.22E+02
Soil quality	SQP	Pt	4.46E+01	9.64E-04	1.18E+00	6.96E-01	4.26E-01	6.82E-03	5.08E+00	1.28E+00	-1.03E+01

Table 371 | Environmental impacts per m² of Solaris Ridge® 0.6mm steel - 125mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.65E+01	2.56E-04	1.76E-01	1.72E+00	1.38E-01	1.81E-03	1.85E+00	1.93E-01	-5.56E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.02E-07	3.13E-11	3.64E-08	4.29E-08	2.33E-10	2.22E-10	1.49E-08	5.68E-09	-1.04E-08
Acidification potential	AP	kg SO ₂ eq	1.11E-01	1.09E-06	3.78E-04	7.45E-03	2.11E-04	7.70E-06	2.88E-03	1.57E-04	-3.65E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.39E-02	2.48E-07	-1.08E-05	1.16E-03	7.30E-05	1.76E-06	9.50E-04	1.72E-03	-5.03E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.43E-02	7.32E-08	3.62E-05	4.60E-04	4.31E-06	5.18E-07	6.74E-05	3.40E-05	-1.33E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.03E-04	9.43E-10	2.68E-06	4.06E-06	1.81E-07	6.67E-09	2.52E-06	7.65E-08	-1.89E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.79E+02	3.72E-03	3.07E+00	2.91E+01	1.55E+00	2.63E-02	2.21E+01	5.58E-01	-1.27E+02

Table 372 | Environmental impacts per m² of Solaris Ridge® 0.6mm steel - 125mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.74E-08	5.84E-15	7.98E-12	3.51E-11	5.02E-12	4.13E-14	6.16E-11	1.72E-12	-3.07E-10
Human Toxicity non-cancer	HTnc	CTUh	9.26E-09	1.31E-15	1.44E-12	8.43E-13	8.52E-13	9.28E-15	9.99E-12	2.71E-13	-7.89E-12
Land use	LU	kg C deficit eq.	1.10E+01	6.83E-04	4.92E-01	4.93E-01	1.23E-02	4.83E-03	3.23E-01	4.19E-01	-1.20E+00
Ionising radiation	IR	kBq U235 eq	3.45E-01	1.40E-07	2.20E-02	4.85E-02	3.06E-05	9.92E-07	4.88E-04	2.68E-03	-5.48E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.26E-02	2.55E-07	6.62E-05	9.55E-04	7.30E-05	1.80E-06	9.42E-04	4.85E-05	-7.10E-03
Resource depletion - water	RDW	m ³	2.34E-01	1.25E-06	9.69E-04	8.67E-03	9.97E-04	8.85E-06	1.22E-02	7.65E-04	-6.42E-03

Solaris Ridge® 0.6mm steel - 150mm

Table 373 | Environmental impacts per m² of Solaris Ridge® 0.6mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	3.93E+01	6.99E-04	5.62E-02	1.78E+00	1.39E-01	1.90E-03	1.86E+00	2.64E-01	-6.47E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-3.48E-01	3.00E-08	1.88E-01	2.94E-03	4.85E-04	8.16E-08	5.69E-03	1.75E-04	2.89E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	4.26E-03	5.79E-09	6.60E-05	5.63E-06	2.87E-08	1.58E-08	7.04E-07	2.93E-05	-6.75E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	3.89E+01	6.99E-04	2.44E-01	1.78E+00	1.40E-01	1.90E-03	1.87E+00	2.64E-01	-6.47E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.80E-07	1.06E-10	4.15E-08	5.04E-08	2.66E-10	2.90E-10	1.82E-08	8.25E-09	-1.31E-08
Acidification potential	AP	mol H ⁺ eq.	1.50E-01	5.51E-06	1.27E-03	9.09E-03	1.02E-03	1.50E-05	1.23E-02	2.39E-04	-5.91E-02
Eutrophication – freshwater	EP - F	kg P eq.	9.07E-04	2.42E-08	-4.47E-05	1.68E-04	5.50E-06	6.59E-08	7.08E-05	4.17E-06	-1.46E-04
Eutrophication – marine	EP - M	kg N eq.	3.19E-02	1.58E-06	1.85E-04	1.55E-03	1.51E-04	4.30E-06	1.97E-03	4.78E-03	-1.19E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.44E-01	1.73E-05	2.05E-03	1.32E-02	1.62E-03	4.71E-05	2.12E-02	8.69E-04	-1.35E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.13E-01	4.27E-06	3.44E-04	3.85E-03	4.26E-04	1.16E-05	5.50E-03	3.05E-04	-3.20E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.05E-04	2.53E-09	2.95E-06	4.06E-06	1.81E-07	6.89E-09	2.52E-06	8.91E-08	-1.89E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.25E+02	9.96E-03	-2.29E+00	3.19E+01	6.63E-01	2.71E-02	1.19E+01	6.84E-01	-8.48E+01
Water Depletion Potential	WDP	m ³	1.15E+01	2.07E-04	9.59E-01	3.47E+01	2.28E-02	5.65E-04	1.09E+00	2.76E-02	-4.58E+01

Table 374 | Resource use per m² of Solaris Ridge® 0.6mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.16E+01	1.01E-04	4.62E-01	3.26E-01	1.20E-01	2.75E-04	1.37E+00	1.23E-02	-9.36E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.16E+01	1.01E-04	4.62E-01	3.26E-01	1.20E-01	2.75E-04	1.37E+00	1.23E-02	-9.36E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.31E+02	9.96E-03	2.57E+00	3.19E+01	6.63E-01	2.71E-02	1.19E+01	6.84E-01	-8.48E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	9.43E+01	0.00E+00	-5.46E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.93E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.25E+02	9.96E-03	-2.89E+00	3.19E+01	6.63E-01	2.71E-02	1.19E+01	-8.86E+01	-8.48E+01
Use of secondary material	SM	kg	1.45E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	1.31E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.56E-01	1.19E-06	5.41E-05	3.67E-03	1.14E-04	3.23E-06	1.70E-03	3.87E-04	-2.35E-03

Table 375 | Waste generated per m² of Solaris Ridge® 0.6mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	7.05E-05	1.31E-08	-1.40E-05	1.08E-05	4.50E-07	3.56E-08	6.43E-06	9.75E-07	-7.66E-06
Non-hazardous waste disposed	NHWD	kg	1.09E+00	6.87E-05	5.16E-01	6.54E-02	8.58E-03	1.87E-04	1.88E-01	2.73E+00	-9.69E-01
Radioactive waste disposed/stored	RWD	kg	1.52E-03	5.21E-11	2.11E-05	6.94E-06	4.39E-09	1.42E-10	7.00E-08	3.83E-06	-7.90E-08

Table 376 | Output flows per m² of Solaris Ridge[®] 0.6mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 377 | Additional environmental impacts per m² of Solaris Ridge[®] 0.6mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.75E+01	6.85E-04	6.27E-02	1.68E+00	1.37E-01	1.86E-03	1.84E+00	2.00E-01	-5.58E+00
Particulate matter	PM	disease incidence	1.86E-06	3.62E-11	-3.19E-09	8.57E-08	8.88E-09	9.85E-11	1.07E-07	4.54E-09	-4.03E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.55E-01	3.77E-07	2.50E-02	4.85E-02	3.05E-05	1.02E-06	4.88E-04	3.11E-03	-5.48E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.81E+02	5.35E-03	-1.18E+00	7.90E+00	3.79E-01	1.46E-02	5.64E+00	1.24E+00	-1.23E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	3.02E-08	3.38E-13	9.93E-09	7.57E-10	4.32E-11	9.21E-13	5.53E-10	3.31E-11	-2.04E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	9.10E+01	3.42E-03	-1.71E+00	5.34E+00	3.50E-01	9.30E-03	4.78E+00	3.77E-01	-1.22E+02
Soil quality	SQP	Pt	5.30E+01	2.59E-03	1.25E+00	6.96E-01	4.26E-01	7.04E-03	5.08E+00	1.48E+00	-1.03E+01

Table 378 | Environmental impacts per m² of Solaris Ridge[®] 0.6mm steel - 150mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.80E+01	6.86E-04	1.66E-01	1.72E+00	1.38E-01	1.87E-03	1.85E+00	2.27E-01	-5.56E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.47E-07	8.42E-11	3.59E-08	4.29E-08	2.33E-10	2.29E-10	1.49E-08	6.55E-09	-1.04E-08
Acidification potential	AP	kg SO ₂ eq	1.15E-01	2.92E-06	2.89E-04	7.45E-03	2.11E-04	7.96E-06	2.88E-03	1.82E-04	-3.65E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.45E-02	6.67E-07	-6.58E-05	1.16E-03	7.30E-05	1.82E-06	9.50E-04	2.03E-03	-5.03E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.46E-02	1.97E-07	1.74E-05	4.60E-04	4.31E-06	5.35E-07	6.74E-05	4.00E-05	-1.33E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.05E-04	2.53E-09	2.95E-06	4.06E-06	1.81E-07	6.90E-09	2.52E-06	8.92E-08	-1.89E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.11E+02	9.99E-03	2.71E+00	2.91E+01	1.55E+00	2.72E-02	2.21E+01	6.45E-01	-1.27E+02

Table 379 | Environmental impacts per m² of Solaris Ridge[®] 0.6mm steel - 150mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.83E-08	1.57E-14	7.04E-12	3.51E-11	5.02E-12	4.27E-14	6.16E-11	2.00E-12	-3.07E-10
Human Toxicity non-cancer	HTnc	CTUh	9.26E-09	3.52E-15	1.53E-12	8.43E-13	8.52E-13	9.59E-15	9.99E-12	3.13E-13	-7.89E-12
Land use	LU	kg C deficit eq.	1.19E+01	1.83E-03	5.00E-01	4.93E-01	1.23E-02	4.99E-03	3.23E-01	4.78E-01	-1.20E+00
Ionising radiation	IR	kBq U235 eq	3.55E-01	3.77E-07	2.51E-02	4.85E-02	3.06E-05	1.03E-06	4.88E-04	3.11E-03	-5.48E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.33E-02	6.85E-07	1.20E-05	9.55E-04	7.30E-05	1.86E-06	9.42E-04	5.62E-05	-7.10E-03
Resource depletion - water	RDW	m ³	2.69E-01	3.36E-06	6.62E-04	8.67E-03	9.97E-04	9.15E-06	1.22E-02	8.84E-04	-6.42E-03

Solaris Ridge® 0.6mm steel - 200mm

Table 380 | Environmental impacts per m² of Solaris Ridge® 0.6mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.06E+01	4.09E-04	-3.81E-02	1.78E+00	1.20E-01	2.03E-03	1.86E+00	3.44E-01	-6.47E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-5.45E-01	1.75E-08	2.77E-01	2.94E-03	2.51E-04	8.68E-08	5.69E-03	2.28E-04	2.89E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	4.78E-03	3.39E-09	1.20E-04	5.63E-06	4.79E-05	1.68E-08	7.04E-07	3.74E-05	-6.75E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.01E+01	4.09E-04	2.39E-01	1.78E+00	1.20E-01	2.03E-03	1.87E+00	3.44E-01	-6.47E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.07E-07	6.23E-11	2.37E-07	5.04E-08	1.96E-07	3.08E-10	1.82E-08	1.04E-08	-1.31E-08
Acidification potential	AP	mol H ⁺ eq.	1.51E-01	3.23E-06	1.55E-03	9.09E-03	1.43E-03	1.60E-05	1.23E-02	3.04E-04	-5.91E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.04E-03	1.42E-08	-7.47E-05	1.68E-04	8.97E-06	7.02E-08	7.08E-05	5.37E-06	-1.46E-04
Eutrophication – marine	EP - M	kg N eq.	3.16E-02	9.24E-07	1.94E-04	1.55E-03	1.83E-04	4.57E-06	1.97E-03	6.24E-03	-1.19E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.39E-01	1.01E-05	2.20E-03	1.32E-02	2.01E-03	5.01E-05	2.12E-02	1.11E-03	-1.35E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.16E-01	2.50E-06	4.96E-04	3.85E-03	8.22E-04	1.24E-05	5.50E-03	3.89E-04	-3.20E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.03E-04	1.48E-09	3.48E-06	4.06E-06	1.52E-07	7.34E-09	2.52E-06	1.14E-07	-1.89E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.98E+02	5.83E-03	7.22E+00	3.19E+01	1.29E+01	2.89E-02	1.19E+01	8.69E-01	-8.48E+01
Water Depletion Potential	WDP	m ³	1.34E+01	1.21E-04	1.37E+00	3.47E+01	5.79E-03	6.01E-04	1.09E+00	3.50E-02	-4.58E+01

Table 381 | Resource use per m² of Solaris Ridge® 0.6mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.45E+01	5.92E-05	4.80E-01	3.26E-01	3.12E-02	2.93E-04	1.37E+00	1.59E-02	-9.36E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	2.45E+01	5.92E-05	4.80E-01	3.26E-01	3.12E-02	2.93E-04	1.37E+00	1.59E-02	-9.36E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.75E+02	5.83E-03	1.44E+01	3.19E+01	1.29E+01	2.89E-02	1.19E+01	8.69E-01	-8.48E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.23E+02	0.00E+00	-8.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.16E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.98E+02	5.83E-03	6.33E+00	3.19E+01	1.29E+01	2.89E-02	1.19E+01	-1.16E+02	-8.48E+01
Use of secondary material	SM	kg	1.45E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	1.31E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.83E-01	6.94E-07	-2.14E-04	3.67E-03	7.94E-05	3.44E-06	1.70E-03	4.90E-04	-2.35E-03

Table 382 | Waste generated per m² of Solaris Ridge® 0.6mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	5.09E-05	7.65E-09	9.25E-06	1.08E-05	3.28E-05	3.79E-08	6.43E-06	1.24E-06	-7.66E-06
Non-hazardous waste disposed	NHWD	kg	9.62E-01	4.02E-05	7.25E-01	6.54E-02	6.11E-03	1.99E-04	1.88E-01	3.42E+00	-9.69E-01
Radioactive waste disposed/stored	RWD	kg	1.53E-03	3.05E-11	1.11E-04	6.94E-06	8.69E-05	1.51E-10	7.00E-08	4.85E-06	-7.90E-08

Table 383 | Output flows per m² of Solaris Ridge[®] 0.6mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 384 | Additional environmental impacts per m² of Solaris Ridge[®] 0.6mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.87E+01	4.01E-04	-2.86E-02	1.68E+00	1.15E-01	1.98E-03	1.84E+00	2.60E-01	-5.58E+00
Particulate matter	PM	disease incidence	1.86E-06	2.12E-11	-1.29E-08	8.57E-08	7.51E-09	1.05E-10	1.07E-07	5.78E-09	-4.03E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.74E-01	2.20E-07	8.55E-02	4.85E-02	5.43E-02	1.09E-06	4.88E-04	3.95E-03	-5.48E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.94E+02	3.13E-03	2.70E+00	7.90E+00	6.33E+00	1.55E-02	5.64E+00	1.60E+00	-1.23E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	3.54E-08	1.98E-13	1.38E-08	7.57E-10	8.35E-11	9.81E-13	5.53E-10	4.27E-11	-2.04E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.07E+02	2.00E-03	-5.42E-01	5.34E+00	3.54E+00	9.90E-03	4.78E+00	4.83E-01	-1.22E+02
Soil quality	SQP	Pt	6.38E+01	1.51E-03	2.45E+00	6.96E-01	1.49E+00	7.50E-03	5.08E+00	1.88E+00	-1.03E+01

Table 385 | Environmental impacts per m² of Solaris Ridge[®] 0.6mm steel - 200mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.92E+01	4.02E-04	1.24E-01	1.72E+00	1.17E-01	1.99E-03	1.85E+00	2.95E-01	-5.56E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.25E-07	4.92E-11	1.90E-07	4.29E-08	1.55E-07	2.44E-10	1.49E-08	8.29E-09	-1.04E-08
Acidification potential	AP	kg SO ₂ eq	1.20E-01	1.71E-06	1.13E-03	7.45E-03	1.22E-03	8.47E-06	2.88E-03	2.32E-04	-3.65E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.47E-02	3.90E-07	-1.57E-04	1.16E-03	9.16E-05	1.93E-06	9.50E-04	2.65E-03	-5.03E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.48E-02	1.15E-07	2.54E-05	4.60E-04	4.99E-05	5.70E-07	6.74E-05	5.19E-05	-1.33E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.03E-04	1.48E-09	3.48E-06	4.06E-06	1.52E-07	7.34E-09	2.52E-06	1.15E-07	-1.89E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.49E+02	5.85E-03	1.23E+01	2.91E+01	1.19E+01	2.90E-02	2.21E+01	8.20E-01	-1.27E+02

Table 386 | Environmental impacts per m² of Solaris Ridge[®] 0.6mm steel - 200mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.01E-08	9.17E-15	5.21E-12	3.51E-11	5.05E-12	4.54E-14	6.16E-11	2.55E-12	-3.07E-10
Human Toxicity non-cancer	HTnc	CTUh	9.26E-09	2.06E-15	1.43E-12	8.43E-13	5.62E-13	1.02E-14	9.99E-12	3.98E-13	-7.89E-12
Land use	LU	kg C deficit eq.	9.35E+00	1.07E-03	2.62E+00	4.93E-01	2.11E+00	5.31E-03	3.23E-01	5.95E-01	-1.20E+00
Ionising radiation	IR	kBq U235 eq	3.74E-01	2.20E-07	8.55E-02	4.85E-02	5.43E-02	1.09E-06	4.88E-04	3.96E-03	-5.48E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.34E-02	4.00E-07	3.45E-06	9.55E-04	1.72E-04	1.98E-06	9.42E-04	7.17E-05	-7.10E-03
Resource depletion - water	RDW	m ³	3.31E-01	1.97E-06	-7.54E-04	8.67E-03	1.91E-04	9.74E-06	1.22E-02	1.12E-03	-6.42E-03

Equideck®

Equideck® - 50mm

Table 387 | Environmental impacts per m² of Equideck® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.04E+01	1.78E-04	7.24E-02	1.78E+00	1.39E-01	2.02E-03	2.31E+00	1.06E-01	-8.03E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-3.68E-01	7.63E-09	1.68E-01	2.94E-03	4.85E-04	8.66E-08	7.06E-03	7.14E-05	3.59E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	5.38E-03	1.47E-09	6.48E-05	5.63E-06	2.87E-08	1.67E-08	8.74E-07	1.36E-05	-8.38E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.01E+01	1.78E-04	2.41E-01	1.78E+00	1.40E-01	2.02E-03	2.32E+00	1.06E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.06E-07	2.71E-11	4.16E-08	5.04E-08	2.66E-10	3.07E-10	2.26E-08	4.15E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.56E-01	1.40E-06	1.30E-03	9.09E-03	1.02E-03	1.59E-05	1.52E-02	1.15E-04	-7.33E-02
Eutrophication – freshwater	EP - F	kg P eq.	7.18E-04	6.16E-09	-3.74E-05	1.68E-04	5.50E-06	6.99E-08	8.79E-05	1.85E-06	-1.81E-04
Eutrophication – marine	EP - M	kg N eq.	3.56E-02	4.02E-07	1.90E-04	1.55E-03	1.51E-04	4.56E-06	2.44E-03	1.89E-03	-1.47E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.85E-01	4.40E-06	2.09E-03	1.32E-02	1.62E-03	5.00E-05	2.63E-02	4.22E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.20E-01	1.09E-06	3.97E-04	3.85E-03	4.26E-04	1.23E-05	6.82E-03	1.43E-04	-3.98E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	9.95E-05	6.45E-10	2.83E-06	4.06E-06	1.81E-07	7.32E-09	3.13E-06	4.02E-08	-2.35E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.31E+02	2.53E-03	-1.69E+00	3.19E+01	6.63E-01	2.88E-02	1.48E+01	3.35E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	8.01E+00	5.28E-05	8.62E-01	3.47E+01	2.28E-02	5.99E-04	1.35E+00	1.37E-02	-5.69E+01

Table 388 | Resource use per m² of Equideck® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.01E+01	2.57E-05	4.39E-01	3.26E-01	1.20E-01	2.92E-04	1.70E+00	5.39E-03	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.01E+01	2.57E-05	4.39E-01	3.26E-01	1.20E-01	2.92E-04	1.70E+00	5.39E-03	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.92E+02	2.53E-03	2.66E+00	3.19E+01	6.63E-01	2.88E-02	1.48E+01	3.35E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	3.93E+01	0.00E+00	-4.89E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.52E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.32E+02	2.53E-03	-2.23E+00	3.19E+01	6.63E-01	2.88E-02	1.48E+01	-3.49E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.09E-01	3.02E-07	1.05E-04	3.67E-03	1.14E-04	3.43E-06	2.11E-03	1.92E-04	-2.92E-03

Table 389 | Waste generated per m² of Equideck® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	5.54E-05	3.33E-09	-1.20E-05	1.08E-05	4.50E-07	3.78E-08	7.98E-06	4.78E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	9.44E-01	1.75E-05	4.60E-01	6.54E-02	8.58E-03	1.98E-04	2.33E-01	1.50E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.57E-03	1.33E-11	2.05E-05	6.94E-06	4.39E-09	1.50E-10	8.68E-08	1.92E-06	-9.80E-08

Table 390 | Output flows per m² of Equideck® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 391 | Additional environmental impacts per m² of Equideck® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.89E+01	1.74E-04	7.77E-02	1.68E+00	1.37E-01	1.98E-03	2.28E+00	8.08E-02	-6.92E+00
Particulate matter	PM	disease incidence	1.93E-06	9.21E-12	-1.39E-09	8.57E-08	8.88E-09	1.05E-10	1.33E-07	2.21E-09	-5.00E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.47E-01	9.58E-08	2.37E-02	4.85E-02	3.05E-05	1.09E-06	6.05E-04	1.50E-03	-6.80E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.46E+02	1.36E-03	-7.31E-01	7.90E+00	3.79E-01	1.55E-02	7.00E+00	5.28E-01	-1.53E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.69E-08	8.61E-14	9.08E-09	7.57E-10	4.32E-11	9.77E-13	6.86E-10	1.45E-11	-2.53E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	5.91E+01	8.69E-04	-1.27E+00	5.34E+00	3.50E-01	9.87E-03	5.93E+00	1.74E-01	-1.51E+02
Soil quality	SQP	Pt	4.76E+01	6.59E-04	1.22E+00	6.96E-01	4.26E-01	7.47E-03	6.31E+00	7.13E-01	-1.28E+01

Table 392 | Environmental impacts per m² of Equideck® - 50mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.91E+01	1.75E-04	1.70E-01	1.72E+00	1.38E-01	1.98E-03	2.29E+00	9.16E-02	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	3.74E-07	2.14E-11	3.61E-08	4.29E-08	2.33E-10	2.43E-10	1.84E-08	3.29E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.19E-01	7.44E-07	3.27E-04	7.45E-03	2.11E-04	8.44E-06	3.57E-03	8.75E-05	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.53E-02	1.70E-07	-4.19E-05	1.16E-03	7.30E-05	1.93E-06	1.18E-03	8.04E-04	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.81E-02	5.00E-08	2.55E-05	4.60E-04	4.31E-06	5.68E-07	8.36E-05	1.64E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	9.95E-05	6.45E-10	2.83E-06	4.06E-06	1.81E-07	7.32E-09	3.13E-06	4.02E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.83E+02	2.54E-03	2.86E+00	2.91E+01	1.55E+00	2.89E-02	2.74E+01	3.16E-01	-1.57E+02

Table 393 | Environmental impacts per m² of Equideck® - 50mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.78E-08	3.99E-15	7.44E-12	3.51E-11	5.02E-12	4.53E-14	7.64E-11	9.43E-13	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.22E-09	8.97E-16	1.49E-12	8.43E-13	8.52E-13	1.02E-14	1.24E-11	1.53E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.08E+01	4.67E-04	4.96E-01	4.93E-01	1.23E-02	5.30E-03	4.01E-01	2.68E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.48E-01	9.59E-08	2.37E-02	4.85E-02	3.06E-05	1.09E-06	6.06E-04	1.50E-03	-6.80E-04
Particulate Matter	PM	kg PM _{2.5} -Equiv.	1.24E-02	1.74E-07	3.55E-05	9.55E-04	7.30E-05	1.98E-06	1.17E-03	2.68E-05	-8.81E-03
Resource depletion - water	RDW	m ³	1.44E-01	8.55E-07	7.95E-04	8.67E-03	9.97E-04	9.71E-06	1.51E-02	4.39E-04	-7.96E-03

Equideck® - 75mm

Table 394 | Environmental impacts per m² of Equideck® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.19E+01	1.95E-04	3.89E-02	1.78E+00	1.39E-01	2.08E-03	2.31E+00	1.46E-01	-8.03E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-4.55E-01	8.37E-09	2.08E-01	2.94E-03	4.85E-04	8.92E-08	7.06E-03	9.77E-05	3.59E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	5.63E-03	1.62E-09	6.74E-05	5.63E-06	2.87E-08	1.72E-08	8.74E-07	1.77E-05	-8.38E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.15E+01	1.95E-04	2.47E-01	1.78E+00	1.40E-01	2.08E-03	2.32E+00	1.46E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.50E-07	2.97E-11	4.14E-08	5.04E-08	2.66E-10	3.17E-10	2.26E-08	5.25E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.61E-01	1.54E-06	1.24E-03	9.09E-03	1.02E-03	1.64E-05	1.52E-02	1.48E-04	-7.33E-02
Eutrophication – freshwater	EP - F	kg P eq.	8.06E-04	6.76E-09	-5.23E-05	1.68E-04	5.50E-06	7.21E-08	8.79E-05	2.45E-06	-1.81E-04
Eutrophication – marine	EP - M	kg N eq.	3.65E-02	4.41E-07	1.79E-04	1.55E-03	1.51E-04	4.70E-06	2.44E-03	2.62E-03	-1.47E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.95E-01	4.83E-06	1.99E-03	1.32E-02	1.62E-03	5.15E-05	2.63E-02	5.40E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.25E-01	1.19E-06	2.87E-04	3.85E-03	4.26E-04	1.27E-05	6.82E-03	1.86E-04	-3.98E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.01E-04	7.07E-10	3.08E-06	4.06E-06	1.81E-07	7.54E-09	3.13E-06	5.29E-08	-2.35E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.79E+02	2.78E-03	-2.92E+00	3.19E+01	6.63E-01	2.96E-02	1.48E+01	4.28E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	9.18E+00	5.79E-05	1.05E+00	3.47E+01	2.28E-02	6.17E-04	1.35E+00	1.74E-02	-5.69E+01

Table 395 | Resource use per m² of Equideck® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.15E+01	2.82E-05	4.86E-01	3.26E-01	1.20E-01	3.01E-04	1.70E+00	7.18E-03	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.15E+01	2.82E-05	4.86E-01	3.26E-01	1.20E-01	3.01E-04	1.70E+00	7.18E-03	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.26E+02	2.78E-03	2.48E+00	3.19E+01	6.63E-01	2.96E-02	1.48E+01	4.28E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	5.37E+01	0.00E+00	-6.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.89E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.80E+02	2.78E-03	-3.58E+00	3.19E+01	6.63E-01	2.96E-02	1.48E+01	-4.84E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.24E-01	3.31E-07	4.60E-07	3.67E-03	1.14E-04	3.53E-06	2.11E-03	2.44E-04	-2.92E-03

Table 396 | Waste generated per m² of Equideck® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	5.96E-05	3.65E-09	-1.60E-05	1.08E-05	4.50E-07	3.89E-08	7.98E-06	6.10E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	9.93E-01	1.92E-05	5.54E-01	6.54E-02	8.58E-03	2.05E-04	2.33E-01	1.84E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.58E-03	1.45E-11	2.17E-05	6.94E-06	4.39E-09	1.55E-10	8.68E-08	2.43E-06	-9.80E-08

Table 397 | Output flows per m² of Equideck® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 398 | Additional environmental impacts per m² of Equideck® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.03E+01	1.91E-04	4.66E-02	1.68E+00	1.37E-01	2.04E-03	2.28E+00	1.11E-01	-6.92E+00
Particulate matter	PM	disease incidence	1.99E-06	1.01E-11	-5.09E-09	8.57E-08	8.88E-09	1.08E-10	1.33E-07	2.83E-09	-5.00E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.56E-01	1.05E-07	2.64E-02	4.85E-02	3.05E-05	1.12E-06	6.05E-04	1.92E-03	-6.80E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.58E+02	1.49E-03	-1.66E+00	7.90E+00	3.79E-01	1.59E-02	7.00E+00	7.10E-01	-1.53E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.97E-08	9.45E-14	1.08E-08	7.57E-10	4.32E-11	1.01E-12	6.86E-10	1.93E-11	-2.53E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	7.04E+01	9.54E-04	-2.18E+00	5.34E+00	3.50E-01	1.02E-02	5.93E+00	2.27E-01	-1.51E+02
Soil quality	SQP	Pt	5.52E+01	7.23E-04	1.28E+00	6.96E-01	4.26E-01	7.70E-03	6.31E+00	9.16E-01	-1.28E+01

Table 399 | Environmental impacts per m² of Equideck® - 75mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.05E+01	1.92E-04	1.61E-01	1.72E+00	1.38E-01	2.04E-03	2.29E+00	1.26E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.16E-07	2.35E-11	3.56E-08	4.29E-08	2.33E-10	2.51E-10	1.84E-08	4.16E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.24E-01	8.16E-07	2.48E-04	7.45E-03	2.11E-04	8.70E-06	3.57E-03	1.12E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.58E-02	1.86E-07	-9.10E-05	1.16E-03	7.30E-05	1.99E-06	1.18E-03	1.11E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.84E-02	5.49E-08	8.76E-06	4.60E-04	4.31E-06	5.85E-07	8.36E-05	2.24E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.01E-04	7.07E-10	3.08E-06	4.06E-06	1.81E-07	7.54E-09	3.13E-06	5.29E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.14E+02	2.79E-03	2.54E+00	2.91E+01	1.55E+00	2.97E-02	2.74E+01	4.03E-01	-1.57E+02

Table 400 | Environmental impacts per m² of Equideck® - 75mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.86E-08	4.38E-15	6.60E-12	3.51E-11	5.02E-12	4.67E-14	7.64E-11	1.22E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	9.84E-16	1.57E-12	8.43E-13	8.52E-13	1.05E-14	1.24E-11	1.96E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.16E+01	5.12E-04	5.03E-01	4.93E-01	1.23E-02	5.46E-03	4.01E-01	3.27E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.57E-01	1.05E-07	2.65E-02	4.85E-02	3.06E-05	1.12E-06	6.06E-04	1.93E-03	-6.80E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.31E-02	1.91E-07	-1.28E-05	9.55E-04	7.30E-05	2.04E-06	1.17E-03	3.46E-05	-8.81E-03
Resource depletion - water	RDW	m ³	1.80E-01	9.38E-07	5.22E-04	8.67E-03	9.97E-04	1.00E-05	1.51E-02	5.57E-04	-7.96E-03

Equideck® - 100mm

Table 401 | Environmental impacts per m² of Equideck® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.33E+01	2.28E-04	1.50E-02	1.78E+00	1.39E-01	2.14E-03	2.31E+00	1.86E-01	-8.03E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-5.14E-01	9.77E-09	2.37E-01	2.94E-03	4.85E-04	9.18E-08	7.06E-03	1.24E-04	3.59E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	5.80E-03	1.89E-09	6.93E-05	5.63E-06	2.87E-08	1.78E-08	8.74E-07	2.18E-05	-8.38E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.28E+01	2.28E-04	2.52E-01	1.78E+00	1.40E-01	2.14E-03	2.32E+00	1.86E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	4.85E-07	3.47E-11	4.12E-08	5.04E-08	2.66E-10	3.26E-10	2.26E-08	6.35E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.66E-01	1.80E-06	1.20E-03	9.09E-03	1.02E-03	1.69E-05	1.52E-02	1.81E-04	-7.33E-02
Eutrophication – freshwater	EP - F	kg P eq.	8.79E-04	7.89E-09	-6.30E-05	1.68E-04	5.50E-06	7.42E-08	8.79E-05	3.05E-06	-1.81E-04
Eutrophication – marine	EP - M	kg N eq.	3.74E-02	5.15E-07	1.71E-04	1.55E-03	1.51E-04	4.84E-06	2.44E-03	3.35E-03	-1.47E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.04E-01	5.64E-06	1.91E-03	1.32E-02	1.62E-03	5.30E-05	2.63E-02	6.59E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.29E-01	1.39E-06	2.09E-04	3.85E-03	4.26E-04	1.31E-05	6.82E-03	2.28E-04	-3.98E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.03E-04	8.26E-10	3.25E-06	4.06E-06	1.81E-07	7.76E-09	3.13E-06	6.56E-08	-2.35E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.26E+02	3.25E-03	-3.79E+00	3.19E+01	6.63E-01	3.05E-02	1.48E+01	5.21E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	1.03E+01	6.76E-05	1.19E+00	3.47E+01	2.28E-02	6.36E-04	1.35E+00	2.11E-02	-5.69E+01

Table 402 | Resource use per m² of Equideck® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.25E+01	3.30E-05	5.20E-01	3.26E-01	1.20E-01	3.10E-04	1.70E+00	8.96E-03	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.25E+01	3.30E-05	5.20E-01	3.26E-01	1.20E-01	3.10E-04	1.70E+00	8.96E-03	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.59E+02	3.25E-03	2.35E+00	3.19E+01	6.63E-01	3.05E-02	1.48E+01	5.21E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	6.77E+01	0.00E+00	-6.89E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.25E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.27E+02	3.25E-03	-4.54E+00	3.19E+01	6.63E-01	3.05E-02	1.48E+01	-6.19E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.39E-01	3.87E-07	-7.43E-05	3.67E-03	1.14E-04	3.63E-06	2.11E-03	2.96E-04	-2.92E-03

Table 403 | Waste generated per m² of Equideck® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.26E-05	4.27E-09	-1.89E-05	1.08E-05	4.50E-07	4.01E-08	7.98E-06	7.42E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	1.03E+00	2.24E-05	6.22E-01	6.54E-02	8.58E-03	2.11E-04	2.33E-01	2.18E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.59E-03	1.70E-11	2.25E-05	6.94E-06	4.39E-09	1.60E-10	8.68E-08	2.94E-06	-9.80E-08

Table 404 | Output flows per m² of Equideck® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 405 | Additional environmental impacts per m² of Equideck® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.16E+01	2.23E-04	2.44E-02	1.68E+00	1.37E-01	2.10E-03	2.28E+00	1.41E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.05E-06	1.18E-11	-7.74E-09	8.57E-08	8.88E-09	1.11E-10	1.33E-07	3.45E-09	-5.00E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.63E-01	1.23E-07	2.84E-02	4.85E-02	3.05E-05	1.15E-06	6.05E-04	2.35E-03	-6.80E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.68E+02	1.74E-03	-2.32E+00	7.90E+00	3.79E-01	1.64E-02	7.00E+00	8.92E-01	-1.53E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	3.18E-08	1.10E-13	1.20E-08	7.57E-10	4.32E-11	1.04E-12	6.86E-10	2.41E-11	-2.53E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	8.03E+01	1.11E-03	-2.82E+00	5.34E+00	3.50E-01	1.05E-02	5.93E+00	2.80E-01	-1.51E+02
Soil quality	SQP	Pt	6.06E+01	8.44E-04	1.32E+00	6.96E-01	4.26E-01	7.93E-03	6.31E+00	1.12E+00	-1.28E+01

Table 406 | Environmental impacts per m² of Equideck® - 100mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.18E+01	2.24E-04	1.54E-01	1.72E+00	1.38E-01	2.10E-03	2.29E+00	1.60E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.52E-07	2.74E-11	3.53E-08	4.29E-08	2.33E-10	2.58E-10	1.84E-08	5.03E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.28E-01	9.53E-07	1.92E-04	7.45E-03	2.11E-04	8.96E-06	3.57E-03	1.37E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.64E-02	2.18E-07	-1.26E-04	1.16E-03	7.30E-05	2.05E-06	1.18E-03	1.42E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.86E-02	6.41E-08	-3.22E-06	4.60E-04	4.31E-06	6.02E-07	8.36E-05	2.84E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.03E-04	8.26E-10	3.25E-06	4.06E-06	1.81E-07	7.76E-09	3.13E-06	6.56E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.44E+02	3.26E-03	2.31E+00	2.91E+01	1.55E+00	3.06E-02	2.74E+01	4.91E-01	-1.57E+02

Table 407 | Environmental impacts per m² of Equideck® - 100mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.92E-08	5.11E-15	6.00E-12	3.51E-11	5.02E-12	4.80E-14	7.64E-11	1.50E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	1.15E-15	1.63E-12	8.43E-13	8.52E-13	1.08E-14	1.24E-11	2.38E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.22E+01	5.98E-04	5.08E-01	4.93E-01	1.23E-02	5.62E-03	4.01E-01	3.85E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.63E-01	1.23E-07	2.84E-02	4.85E-02	3.06E-05	1.15E-06	6.06E-04	2.35E-03	-6.80E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.38E-02	2.23E-07	-4.73E-05	9.55E-04	7.30E-05	2.10E-06	1.17E-03	4.23E-05	-8.81E-03
Resource depletion - water	RDW	m ³	2.14E-01	1.10E-06	3.26E-04	8.67E-03	9.97E-04	1.03E-05	1.51E-02	6.76E-04	-7.96E-03

Equideck® - 125mm

Table 408 | Environmental impacts per m² of Equideck® - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.48E+01	2.78E-04	-1.66E-02	1.78E+00	1.39E-01	2.20E-03	2.31E+00	2.25E-01	-8.03E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-5.96E-01	1.19E-08	2.75E-01	2.94E-03	4.85E-04	9.44E-08	7.06E-03	1.49E-04	3.59E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	6.03E-03	2.31E-09	7.18E-05	5.63E-06	2.87E-08	1.82E-08	8.74E-07	2.58E-05	-8.38E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.42E+01	2.78E-04	2.58E-01	1.78E+00	1.40E-01	2.20E-03	2.32E+00	2.25E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.27E-07	4.24E-11	4.10E-08	5.04E-08	2.66E-10	3.35E-10	2.26E-08	7.41E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.71E-01	2.19E-06	1.14E-03	9.09E-03	1.02E-03	1.74E-05	1.52E-02	2.12E-04	-7.33E-02
Eutrophication – freshwater	EP - F	kg P eq.	9.65E-04	9.63E-09	-7.73E-05	1.68E-04	5.50E-06	7.63E-08	8.79E-05	3.63E-06	-1.81E-04
Eutrophication – marine	EP - M	kg N eq.	3.82E-02	6.28E-07	1.62E-04	1.55E-03	1.51E-04	4.97E-06	2.44E-03	4.06E-03	-1.47E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.13E-01	6.88E-06	1.82E-03	1.32E-02	1.62E-03	5.45E-05	2.63E-02	7.73E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.34E-01	1.70E-06	1.06E-04	3.85E-03	4.26E-04	1.35E-05	6.82E-03	2.69E-04	-3.98E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.04E-04	1.01E-09	3.48E-06	4.06E-06	1.81E-07	7.98E-09	3.13E-06	7.79E-08	-2.35E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.74E+02	3.96E-03	-4.96E+00	3.19E+01	6.63E-01	3.14E-02	1.48E+01	6.10E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	1.14E+01	8.25E-05	1.38E+00	3.47E+01	2.28E-02	6.53E-04	1.35E+00	2.47E-02	-5.69E+01

Table 409 | Resource use per m² of Equideck® - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.39E+01	4.02E-05	5.65E-01	3.26E-01	1.20E-01	3.18E-04	1.70E+00	1.07E-02	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.39E+01	4.02E-05	5.65E-01	3.26E-01	1.20E-01	3.18E-04	1.70E+00	1.07E-02	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.92E+02	3.96E-03	2.17E+00	3.19E+01	6.63E-01	3.14E-02	1.48E+01	6.10E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	8.20E+01	0.00E+00	-8.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.57E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.74E+02	3.96E-03	-5.83E+00	3.19E+01	6.63E-01	3.14E-02	1.48E+01	-7.51E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.55E-01	4.72E-07	-1.74E-04	3.67E-03	1.14E-04	3.74E-06	2.11E-03	3.46E-04	-2.92E-03

Table 410 | Waste generated per m² of Equideck® - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	6.65E-05	5.21E-09	-2.28E-05	1.08E-05	4.50E-07	4.12E-08	7.98E-06	8.70E-07	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	1.08E+00	2.73E-05	7.21E-01	6.54E-02	8.58E-03	2.16E-04	2.33E-01	2.51E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.59E-03	2.07E-11	2.37E-05	6.94E-06	4.39E-09	1.64E-10	8.68E-08	3.43E-06	-9.80E-08

Table 411 | Output flows per m² of Equideck® - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 412 | Additional environmental impacts per m² of Equideck® - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.29E+01	2.72E-04	-5.06E-03	1.68E+00	1.37E-01	2.16E-03	2.28E+00	1.70E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.11E-06	1.44E-11	-1.13E-08	8.57E-08	8.88E-09	1.14E-10	1.33E-07	4.05E-09	-5.00E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.71E-01	1.50E-07	3.10E-02	4.85E-02	3.05E-05	1.19E-06	6.05E-04	2.76E-03	-6.80E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.80E+02	2.13E-03	-3.19E+00	7.90E+00	3.79E-01	1.69E-02	7.00E+00	1.07E+00	-1.53E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	3.45E-08	1.35E-13	1.37E-08	7.57E-10	4.32E-11	1.07E-12	6.86E-10	2.88E-11	-2.53E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	9.14E+01	1.36E-03	-3.68E+00	5.34E+00	3.50E-01	1.08E-02	5.93E+00	3.32E-01	-1.51E+02
Soil quality	SQP	Pt	6.78E+01	1.03E-03	1.38E+00	6.96E-01	4.26E-01	8.15E-03	6.31E+00	1.31E+00	-1.28E+01

Table 413 | Environmental impacts per m² of Equideck® - 125mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.32E+01	2.73E-04	1.45E-01	1.72E+00	1.38E-01	2.16E-03	2.29E+00	1.93E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	4.93E-07	3.35E-11	3.49E-08	4.29E-08	2.33E-10	2.65E-10	1.84E-08	5.88E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.33E-01	1.16E-06	1.18E-04	7.45E-03	2.11E-04	9.21E-06	3.57E-03	1.62E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.70E-02	2.66E-07	-1.73E-04	1.16E-03	7.30E-05	2.10E-06	1.18E-03	1.72E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.89E-02	7.82E-08	-1.92E-05	4.60E-04	4.31E-06	6.19E-07	8.36E-05	3.42E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.04E-04	1.01E-09	3.49E-06	4.06E-06	1.81E-07	7.98E-09	3.13E-06	7.79E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.75E+02	3.98E-03	2.01E+00	2.91E+01	1.55E+00	3.15E-02	2.74E+01	5.75E-01	-1.57E+02

Table 414 | Environmental impacts per m² of Equideck® - 125mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.00E-08	6.24E-15	5.21E-12	3.51E-11	5.02E-12	4.94E-14	7.64E-11	1.77E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	1.40E-15	1.71E-12	8.43E-13	8.52E-13	1.11E-14	1.24E-11	2.79E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.30E+01	7.30E-04	5.16E-01	4.93E-01	1.23E-02	5.78E-03	4.01E-01	4.42E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.71E-01	1.50E-07	3.10E-02	4.85E-02	3.06E-05	1.19E-06	6.06E-04	2.76E-03	-6.80E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.45E-02	2.72E-07	-9.31E-05	9.55E-04	7.30E-05	2.16E-06	1.17E-03	4.98E-05	-8.81E-03
Resource depletion - water	RDW	m ³	2.49E-01	1.34E-06	6.69E-05	8.67E-03	9.97E-04	1.06E-05	1.51E-02	7.91E-04	-7.96E-03

Equideck® - 150mm

Table 415 | Environmental impacts per m² of Equideck® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.64E+01	3.03E-04	-6.12E-02	1.78E+00	1.39E-01	2.26E-03	2.31E+00	2.65E-01	-8.03E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-7.18E-01	1.30E-08	3.28E-01	2.94E-03	4.85E-04	9.70E-08	7.06E-03	1.76E-04	3.59E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	6.35E-03	2.51E-09	7.53E-05	5.63E-06	2.87E-08	1.88E-08	8.74E-07	2.99E-05	-8.38E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.56E+01	3.03E-04	2.67E-01	1.78E+00	1.40E-01	2.26E-03	2.32E+00	2.65E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	5.80E-07	4.62E-11	4.08E-08	5.04E-08	2.66E-10	3.45E-10	2.26E-08	8.51E-09	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.77E-01	2.39E-06	1.07E-03	9.09E-03	1.02E-03	1.79E-05	1.52E-02	2.45E-04	-7.33E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.07E-03	1.05E-08	-9.72E-05	1.68E-04	5.50E-06	7.84E-08	8.79E-05	4.23E-06	-1.81E-04
Eutrophication – marine	EP - M	kg N eq.	3.92E-02	6.85E-07	1.47E-04	1.55E-03	1.51E-04	5.11E-06	2.44E-03	4.78E-03	-1.47E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.24E-01	7.51E-06	1.68E-03	1.32E-02	1.62E-03	5.60E-05	2.63E-02	8.91E-04	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.39E-01	1.85E-06	-3.97E-05	3.85E-03	4.26E-04	1.38E-05	6.82E-03	3.11E-04	-3.98E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.07E-04	1.10E-09	3.81E-06	4.06E-06	1.81E-07	8.20E-09	3.13E-06	9.05E-08	-2.35E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	7.23E+02	4.32E-03	-6.59E+00	3.19E+01	6.63E-01	3.22E-02	1.48E+01	7.03E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	1.27E+01	9.00E-05	1.63E+00	3.47E+01	2.28E-02	6.72E-04	1.35E+00	2.84E-02	-5.69E+01

Table 416 | Resource use per m² of Equideck® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.57E+01	4.39E-05	6.28E-01	3.26E-01	1.20E-01	3.27E-04	1.70E+00	1.25E-02	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.57E+01	4.39E-05	6.28E-01	3.26E-01	1.20E-01	3.27E-04	1.70E+00	1.25E-02	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.27E+02	4.32E-03	1.93E+00	3.19E+01	6.63E-01	3.22E-02	1.48E+01	7.03E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	9.65E+01	0.00E+00	-9.56E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.93E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	7.24E+02	4.32E-03	-7.63E+00	3.19E+01	6.63E-01	3.22E-02	1.48E+01	-8.86E+01	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.71E-01	5.15E-07	-3.13E-04	3.67E-03	1.14E-04	3.84E-06	2.11E-03	3.98E-04	-2.92E-03

Table 417 | Waste generated per m² of Equideck® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	7.19E-05	5.68E-09	-2.82E-05	1.08E-05	4.50E-07	4.24E-08	7.98E-06	1.00E-06	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	1.14E+00	2.98E-05	8.47E-01	6.54E-02	8.58E-03	2.22E-04	2.33E-01	2.85E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.60E-03	2.26E-11	2.53E-05	6.94E-06	4.39E-09	1.69E-10	8.68E-08	3.95E-06	-9.80E-08

Table 418 | Output flows per m² of Equideck® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 419 | Additional environmental impacts per m² of Equideck® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.43E+01	2.97E-04	-4.65E-02	1.68E+00	1.37E-01	2.22E-03	2.28E+00	2.00E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.18E-06	1.57E-11	-1.62E-08	8.57E-08	8.88E-09	1.17E-10	1.33E-07	4.66E-09	-5.00E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.83E-01	1.63E-07	3.47E-02	4.85E-02	3.05E-05	1.22E-06	6.05E-04	3.18E-03	-6.80E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.94E+02	2.32E-03	-4.42E+00	7.90E+00	3.79E-01	1.73E-02	7.00E+00	1.25E+00	-1.53E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	3.81E-08	1.47E-13	1.60E-08	7.57E-10	4.32E-11	1.10E-12	6.86E-10	3.35E-11	-2.53E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.04E+02	1.48E-03	-4.88E+00	5.34E+00	3.50E-01	1.11E-02	5.93E+00	3.84E-01	-1.51E+02
Soil quality	SQP	Pt	7.79E+01	1.12E-03	1.46E+00	6.96E-01	4.26E-01	8.38E-03	6.31E+00	1.52E+00	-1.28E+01

Table 420 | Environmental impacts per m² of Equideck® - 150mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.47E+01	2.98E-04	1.33E-01	1.72E+00	1.38E-01	2.22E-03	2.29E+00	2.27E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	5.42E-07	3.65E-11	3.43E-08	4.29E-08	2.33E-10	2.73E-10	1.84E-08	6.75E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.37E-01	1.27E-06	1.32E-05	7.45E-03	2.11E-04	9.47E-06	3.57E-03	1.86E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.76E-02	2.90E-07	-2.38E-04	1.16E-03	7.30E-05	2.16E-06	1.18E-03	2.03E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.92E-02	8.53E-08	-4.15E-05	4.60E-04	4.31E-06	6.36E-07	8.36E-05	4.01E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.07E-04	1.10E-09	3.81E-06	4.06E-06	1.81E-07	8.20E-09	3.13E-06	9.06E-08	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.07E+02	4.34E-03	1.59E+00	2.91E+01	1.55E+00	3.24E-02	2.74E+01	6.63E-01	-1.57E+02

Table 421 | Environmental impacts per m² of Equideck® - 150mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.10E-08	6.80E-15	4.09E-12	3.51E-11	5.02E-12	5.08E-14	7.64E-11	2.04E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	1.53E-15	1.82E-12	8.43E-13	8.52E-13	1.14E-14	1.24E-11	3.22E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.40E+01	7.96E-04	5.25E-01	4.93E-01	1.23E-02	5.94E-03	4.01E-01	5.01E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	3.83E-01	1.63E-07	3.47E-02	4.85E-02	3.06E-05	1.22E-06	6.06E-04	3.19E-03	-6.80E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.52E-02	2.97E-07	-1.58E-04	9.55E-04	7.30E-05	2.22E-06	1.17E-03	5.76E-05	-8.81E-03
Resource depletion - water	RDW	m ³	2.86E-01	1.46E-06	-2.98E-04	8.67E-03	9.97E-04	1.09E-05	1.51E-02	9.09E-04	-7.96E-03

Equideck® - 200mm

Table 422 | Environmental impacts per m² of Equideck® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.93E+01	3.49E-04	-1.47E-01	1.78E+00	1.20E-01	2.39E-03	2.31E+00	3.44E-01	-8.03E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-8.93E-01	1.50E-08	4.08E-01	2.94E-03	2.51E-04	1.02E-07	7.06E-03	2.28E-04	3.59E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	6.84E-03	2.89E-09	1.29E-04	5.63E-06	4.79E-05	1.98E-08	8.74E-07	3.80E-05	-8.38E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.84E+01	3.49E-04	2.61E-01	1.78E+00	1.20E-01	2.39E-03	2.32E+00	3.45E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	6.66E-07	5.31E-11	2.36E-07	5.04E-08	1.96E-07	3.63E-10	2.26E-08	1.07E-08	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	1.88E-01	2.75E-06	1.36E-03	9.09E-03	1.43E-03	1.88E-05	1.52E-02	3.10E-04	-7.33E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.25E-03	1.21E-08	-1.24E-04	1.68E-04	8.97E-06	8.26E-08	8.79E-05	5.43E-06	-1.81E-04
Eutrophication – marine	EP - M	kg N eq.	4.10E-02	7.88E-07	1.59E-04	1.55E-03	1.83E-04	5.39E-06	2.44E-03	6.24E-03	-1.47E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.43E-01	8.64E-06	1.86E-03	1.32E-02	2.01E-03	5.91E-05	2.63E-02	1.13E-03	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.48E-01	2.13E-06	1.39E-04	3.85E-03	8.22E-04	1.46E-05	6.82E-03	3.96E-04	-3.98E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.10E-04	1.26E-09	4.28E-06	4.06E-06	1.52E-07	8.65E-09	3.13E-06	1.16E-07	-2.35E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	8.19E+02	4.97E-03	3.22E+00	3.19E+01	1.29E+01	3.40E-02	1.48E+01	8.88E-01	-1.05E+02
Water Depletion Potential	WDP	m ³	1.50E+01	1.04E-04	2.00E+00	3.47E+01	5.79E-03	7.08E-04	1.35E+00	3.58E-02	-5.69E+01

Table 423 | Resource use per m² of Equideck® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.85E+01	5.05E-05	6.34E-01	3.26E-01	3.12E-02	3.45E-04	1.70E+00	1.60E-02	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	2.85E+01	5.05E-05	6.34E-01	3.26E-01	3.12E-02	3.45E-04	1.70E+00	1.60E-02	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.94E+02	4.97E-03	1.38E+01	3.19E+01	1.29E+01	3.40E-02	1.48E+01	8.88E-01	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.25E+02	0.00E+00	-1.19E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.16E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	8.20E+02	4.97E-03	1.92E+00	3.19E+01	1.29E+01	3.40E-02	1.48E+01	-1.16E+02	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	2.01E-01	5.92E-07	-5.56E-04	3.67E-03	7.94E-05	4.05E-06	2.11E-03	5.01E-04	-2.92E-03

Table 424 | Waste generated per m² of Equideck® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	8.02E-05	6.53E-09	-4.04E-06	1.08E-05	3.28E-05	4.47E-08	7.98E-06	1.26E-06	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	1.24E+00	3.43E-05	1.03E+00	6.54E-02	6.11E-03	2.35E-04	2.33E-01	3.54E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.61E-03	2.60E-11	1.15E-04	6.94E-06	8.69E-05	1.78E-10	8.68E-08	4.97E-06	-9.80E-08

Table 425 | Output flows per m² of Equideck® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 426 | Additional environmental impacts per m² of Equideck® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.70E+01	3.42E-04	-1.30E-01	1.68E+00	1.15E-01	2.34E-03	2.28E+00	2.60E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.31E-06	1.81E-11	-2.50E-08	8.57E-08	7.51E-09	1.24E-10	1.33E-07	5.90E-09	-5.00E-07
Ionising radiation - human health	IRP	kBq U-235 eq	4.00E-01	1.88E-07	9.45E-02	4.85E-02	5.43E-02	1.29E-06	6.05E-04	4.03E-03	-6.80E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	2.18E+02	2.67E-03	-3.18E-01	7.90E+00	6.33E+00	1.83E-02	7.00E+00	1.61E+00	-1.53E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	4.37E-08	1.69E-13	1.94E-08	7.57E-10	8.35E-11	1.16E-12	6.86E-10	4.31E-11	-2.53E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.27E+02	1.71E-03	-3.50E+00	5.34E+00	3.54E+00	1.17E-02	5.93E+00	4.90E-01	-1.51E+02
Soil quality	SQP	Pt	9.30E+01	1.29E-03	2.64E+00	6.96E-01	1.49E+00	8.84E-03	6.31E+00	1.92E+00	-1.28E+01

Table 427 | Environmental impacts per m² of Equideck® - 200mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.75E+01	3.43E-04	9.36E-02	1.72E+00	1.17E-01	2.34E-03	2.29E+00	2.96E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	6.26E-07	4.20E-11	1.88E-07	4.29E-08	1.55E-07	2.87E-10	1.84E-08	8.49E-09	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.47E-01	1.46E-06	8.68E-04	7.45E-03	1.22E-03	9.98E-06	3.57E-03	2.36E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.88E-02	3.33E-07	-3.17E-04	1.16E-03	9.16E-05	2.28E-06	1.18E-03	2.65E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.98E-02	9.81E-08	-2.94E-05	4.60E-04	4.99E-05	6.71E-07	8.36E-05	5.21E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.10E-04	1.26E-09	4.28E-06	4.06E-06	1.52E-07	8.65E-09	3.13E-06	1.16E-07	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.68E+02	4.99E-03	1.13E+01	2.91E+01	1.19E+01	3.41E-02	2.74E+01	8.37E-01	-1.57E+02

Table 428 | Environmental impacts per m² of Equideck® - 200mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.27E-08	7.83E-15	2.47E-12	3.51E-11	5.05E-12	5.35E-14	7.64E-11	2.60E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.24E-09	1.76E-15	1.69E-12	8.43E-13	5.62E-13	1.20E-14	1.24E-11	4.07E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.57E+01	9.15E-04	2.64E+00	4.93E-01	2.11E+00	6.26E-03	4.01E-01	6.18E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	4.01E-01	1.88E-07	9.45E-02	4.85E-02	5.43E-02	1.29E-06	6.06E-04	4.03E-03	-6.80E-04
Particulate Matter	PM	kg PM _{2.5} -Equiv.	1.66E-02	3.42E-07	-1.54E-04	9.55E-04	1.72E-04	2.34E-06	1.17E-03	7.30E-05	-8.81E-03
Resource depletion - water	RDW	m ³	3.56E-01	1.68E-06	-1.65E-03	8.67E-03	1.91E-04	1.15E-05	1.51E-02	1.15E-03	-7.96E-03

Equideck® - 250mm

Table 429 | Environmental impacts per m² of Equideck® - 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	5.25E+01	4.23E-04	-2.59E-01	1.78E+00	1.20E-01	2.51E-03	2.31E+00	4.24E-01	-8.03E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.20E+00	1.81E-08	5.41E-01	2.94E-03	2.51E-04	1.08E-07	7.06E-03	2.81E-04	3.59E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	7.64E-03	3.51E-09	1.37E-04	5.63E-06	4.79E-05	2.08E-08	8.74E-07	4.62E-05	-8.38E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	5.13E+01	4.23E-04	2.82E-01	1.78E+00	1.20E-01	2.51E-03	2.32E+00	4.24E-01	-8.02E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	7.92E-07	6.44E-11	2.36E-07	5.04E-08	1.96E-07	3.82E-10	2.26E-08	1.29E-08	-1.62E-08
Acidification potential	AP	mol H ⁺ eq.	2.00E-01	3.34E-06	1.17E-03	9.09E-03	1.43E-03	1.98E-05	1.52E-02	3.76E-04	-7.33E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.49E-03	1.46E-08	-1.73E-04	1.68E-04	8.97E-06	8.69E-08	8.79E-05	6.63E-06	-1.81E-04
Eutrophication – marine	EP - M	kg N eq.	4.32E-02	9.55E-07	1.23E-04	1.55E-03	1.83E-04	5.67E-06	2.44E-03	7.70E-03	-1.47E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.65E-01	1.05E-05	1.51E-03	1.32E-02	2.01E-03	6.21E-05	2.63E-02	1.36E-03	-1.67E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.59E-01	2.59E-06	-2.26E-04	3.85E-03	8.22E-04	1.53E-05	6.82E-03	4.81E-04	-3.98E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.16E-04	1.53E-09	5.09E-06	4.06E-06	1.52E-07	9.10E-09	3.13E-06	1.41E-07	-2.35E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	9.20E+02	6.03E-03	-8.60E-01	3.19E+01	1.29E+01	3.58E-02	1.48E+01	1.07E+00	-1.05E+02
Water Depletion Potential	WDP	m ³	1.76E+01	1.26E-04	2.64E+00	3.47E+01	5.79E-03	7.45E-04	1.35E+00	4.32E-02	-5.69E+01

Table 430 | Resource use per m² of Equideck® - 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	3.30E+01	6.12E-05	7.91E-01	3.26E-01	3.12E-02	3.63E-04	1.70E+00	1.96E-02	-1.16E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	3.30E+01	6.12E-05	7.91E-01	3.26E-01	3.12E-02	3.63E-04	1.70E+00	1.96E-02	-1.16E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	7.66E+02	6.03E-03	1.32E+01	3.19E+01	1.29E+01	3.58E-02	1.48E+01	1.07E+00	-1.05E+02
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.55E+02	0.00E+00	-1.58E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.44E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	9.21E+02	6.03E-03	-2.58E+00	3.19E+01	1.29E+01	3.58E-02	1.48E+01	-1.43E+02	-1.05E+02
Use of secondary material	SM	kg	1.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	2.35E-01	7.18E-07	-9.04E-04	3.67E-03	7.94E-05	4.26E-06	2.11E-03	6.05E-04	-2.92E-03

Table 431 | Waste generated per m² of Equideck® - 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	9.36E-05	7.92E-09	-1.76E-05	1.08E-05	3.28E-05	4.70E-08	7.98E-06	1.53E-06	-9.51E-06
Non-hazardous waste disposed	NHWD	kg	1.39E+00	4.16E-05	1.35E+00	6.54E-02	6.11E-03	2.47E-04	2.33E-01	4.22E+00	-1.20E+00
Radioactive waste disposed/stored	RWD	kg	1.63E-03	3.15E-11	1.19E-04	6.94E-06	8.69E-05	1.87E-10	8.68E-08	5.99E-06	-9.80E-08

Table 432 | Output flows per m² of Equideck® - 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 433 | Additional environmental impacts per m² of Equideck® - 250mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.99E+01	4.14E-04	-2.34E-01	1.68E+00	1.15E-01	2.46E-03	2.28E+00	3.20E-01	-6.92E+00
Particulate matter	PM	disease incidence	2.45E-06	2.19E-11	-3.73E-08	8.57E-08	7.51E-09	1.30E-10	1.33E-07	7.13E-09	-5.00E-07
Ionising radiation - human health	IRP	kBq U-235 eq	4.29E-01	2.28E-07	1.04E-01	4.85E-02	5.43E-02	1.35E-06	6.05E-04	4.88E-03	-6.80E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	2.50E+02	3.24E-03	-3.40E+00	7.90E+00	6.33E+00	1.92E-02	7.00E+00	1.98E+00	-1.53E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	5.24E-08	2.05E-13	2.52E-08	7.57E-10	8.35E-11	1.22E-12	6.86E-10	5.27E-11	-2.53E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.56E+02	2.07E-03	-6.51E+00	5.34E+00	3.54E+00	1.23E-02	5.93E+00	5.96E-01	-1.51E+02
Soil quality	SQP	Pt	1.18E+02	1.57E-03	2.84E+00	6.96E-01	1.49E+00	9.29E-03	6.31E+00	2.32E+00	-1.28E+01

Table 434 | Environmental impacts per m² of Equideck® - 250mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	5.06E+01	4.15E-04	6.24E-02	1.72E+00	1.17E-01	2.46E-03	2.29E+00	3.64E-01	-6.90E+00
Ozone layer depletion	ODP	kg CFC-11 eq	7.38E-07	5.09E-11	1.87E-07	4.29E-08	1.55E-07	3.02E-10	1.84E-08	1.02E-08	-1.30E-08
Acidification potential	AP	kg SO ₂ eq	1.57E-01	1.77E-06	6.06E-04	7.45E-03	1.22E-03	1.05E-05	3.57E-03	2.86E-04	-4.53E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.03E-02	4.04E-07	-4.81E-04	1.16E-03	9.16E-05	2.40E-06	1.18E-03	3.27E-03	-6.25E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.05E-02	1.19E-07	-8.53E-05	4.60E-04	4.99E-05	7.06E-07	8.36E-05	6.40E-05	-1.65E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.16E-04	1.53E-09	5.10E-06	4.06E-06	1.52E-07	9.10E-09	3.13E-06	1.41E-07	-2.35E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	7.35E+02	6.05E-03	1.02E+01	2.91E+01	1.19E+01	3.59E-02	2.74E+01	1.01E+00	-1.57E+02

Table 435 | Environmental impacts per m² of Equideck® - 250mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	2.53E-08	9.49E-15	-3.23E-13	3.51E-11	5.05E-12	5.63E-14	7.64E-11	3.15E-12	-3.81E-10
Human Toxicity non-cancer	HTnc	CTUh	9.25E-09	2.13E-15	1.96E-12	8.43E-13	5.62E-13	1.27E-14	1.24E-11	4.92E-13	-9.79E-12
Land use	LU	kg C deficit eq.	1.83E+01	1.11E-03	2.66E+00	4.93E-01	2.11E+00	6.58E-03	4.01E-01	7.35E-01	-1.49E+00
Ionising radiation	IR	kBq U235 eq	4.30E-01	2.28E-07	1.04E-01	4.85E-02	5.43E-02	1.35E-06	6.06E-04	4.88E-03	-6.80E-04
Particulate Matter	PM	kg PM _{2.5} -Equiv.	1.83E-02	4.14E-07	-3.15E-04	9.55E-04	1.72E-04	2.46E-06	1.17E-03	8.85E-05	-8.81E-03
Resource depletion - water	RDW	m ³	4.33E-01	2.03E-06	-2.56E-03	8.67E-03	1.91E-04	1.21E-05	1.51E-02	1.38E-03	-7.96E-03

InsulRoof®

InsulRoof® - 50mm

Table 436 | Environmental impacts per m² of InsulRoof® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.19E+01	4.26E-04	1.34E-01	1.78E+00	1.39E-01	1.93E-03	2.06E+00	1.80E-01	-7.15E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.46E-01	1.83E-08	9.48E-02	2.94E-03	4.85E-04	8.27E-08	6.29E-03	1.20E-04	3.19E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.06E-03	3.53E-09	5.99E-05	5.63E-06	2.87E-08	1.60E-08	7.79E-07	2.09E-05	-7.46E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.18E+01	4.26E-04	2.29E-01	1.78E+00	1.40E-01	1.93E-03	2.07E+00	1.80E-01	-7.15E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	9.32E-07	6.49E-11	4.20E-08	5.04E-08	2.66E-10	2.94E-10	2.01E-08	6.05E-09	-1.44E-08
Acidification potential	AP	mol H ⁺ eq.	1.70E-01	3.36E-06	1.41E-03	9.09E-03	1.02E-03	1.52E-05	1.35E-02	1.72E-04	-6.53E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.60E-03	1.48E-08	-9.72E-06	1.68E-04	5.50E-06	6.68E-08	7.83E-05	2.93E-06	-1.62E-04
Eutrophication – marine	EP - M	kg N eq.	3.99E-02	9.62E-07	2.10E-04	1.55E-03	1.51E-04	4.36E-06	2.18E-03	3.24E-03	-1.31E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.10E-01	1.05E-05	2.29E-03	1.32E-02	1.62E-03	4.78E-05	2.34E-02	6.29E-04	-1.49E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.30E-01	2.60E-06	5.99E-04	3.85E-03	4.26E-04	1.18E-05	6.08E-03	2.18E-04	-3.54E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.67E-04	1.54E-09	2.38E-06	4.06E-06	1.81E-07	6.99E-09	2.79E-06	6.29E-08	-2.09E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.97E+02	6.07E-03	5.67E-01	3.19E+01	6.63E-01	2.75E-02	1.32E+01	4.97E-01	-9.37E+01
Water Depletion Potential	WDP	m ³	1.03E+01	1.26E-04	5.07E-01	3.47E+01	2.28E-02	5.73E-04	1.20E+00	2.01E-02	-5.07E+01

Table 437 | Resource use per m² of InsulRoof® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.10E+01	6.16E-05	3.52E-01	3.26E-01	1.20E-01	2.79E-04	1.51E+00	8.62E-03	-1.03E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	2.10E+01	6.16E-05	3.52E-01	3.26E-01	1.20E-01	2.79E-04	1.51E+00	8.62E-03	-1.03E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.38E+02	6.07E-03	3.00E+00	3.19E+01	6.63E-01	2.75E-02	1.32E+01	4.97E-01	-9.37E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	5.86E+01	0.00E+00	-2.73E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.05E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.96E+02	6.07E-03	2.69E-01	3.19E+01	6.63E-01	2.75E-02	1.32E+01	-6.00E+01	-9.37E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.40E-01	7.23E-07	2.98E-04	3.67E-03	1.14E-04	3.27E-06	1.88E-03	2.82E-04	-2.60E-03

Table 438 | Waste generated per m² of InsulRoof® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.13E-04	7.97E-09	-4.44E-06	1.08E-05	4.50E-07	3.61E-08	7.10E-06	7.08E-07	-8.47E-06
Non-hazardous waste disposed	NHWD	kg	1.38E+00	4.19E-05	2.85E-01	6.54E-02	8.58E-03	1.90E-04	2.08E-01	2.07E+00	-1.07E+00
Radioactive waste disposed/stored	RWD	kg	1.70E-03	3.18E-11	1.82E-05	6.94E-06	4.39E-09	1.44E-10	7.73E-08	2.80E-06	-8.73E-08

Table 439 | Output flows per m² of InsulRoof® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 440 | Additional environmental impacts per m² of InsulRoof® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.03E+01	4.17E-04	1.35E-01	1.68E+00	1.37E-01	1.89E-03	2.03E+00	1.36E-01	-6.16E+00
Particulate matter	PM	disease incidence	2.15E-06	2.21E-11	5.45E-09	8.57E-08	8.88E-09	1.00E-10	1.18E-07	3.29E-09	-4.46E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.13E-01	2.30E-07	1.86E-02	4.85E-02	3.05E-05	1.04E-06	5.39E-04	2.24E-03	-6.05E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	3.81E+02	3.26E-03	9.77E-01	7.90E+00	3.79E-01	1.48E-02	6.24E+00	8.60E-01	-1.36E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	5.89E-08	2.06E-13	5.91E-09	7.57E-10	4.32E-11	9.34E-13	6.11E-10	2.32E-11	-2.25E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.17E+02	2.08E-03	3.99E-01	5.34E+00	3.50E-01	9.44E-03	5.28E+00	2.68E-01	-1.34E+02
Soil quality	SQP	Pt	4.47E+01	1.58E-03	1.11E+00	6.96E-01	4.26E-01	7.15E-03	5.62E+00	1.07E+00	-1.14E+01

Table 441 | Environmental impacts per m² of InsulRoof® - 50mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.06E+01	4.18E-04	1.87E-01	1.72E+00	1.38E-01	1.90E-03	2.04E+00	1.55E-01	-6.15E+00
Ozone layer depletion	ODP	kg CFC-11 eq	8.60E-07	5.13E-11	3.69E-08	4.29E-08	2.33E-10	2.32E-10	1.64E-08	4.79E-09	-1.15E-08
Acidification potential	AP	kg SO ₂ eq	1.30E-01	1.78E-06	4.72E-04	7.45E-03	2.11E-04	8.07E-06	3.18E-03	1.31E-04	-4.04E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.01E-02	4.07E-07	4.87E-05	1.16E-03	7.30E-05	1.84E-06	1.05E-03	1.38E-03	-5.56E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.96E-02	1.20E-07	5.65E-05	4.60E-04	4.31E-06	5.43E-07	7.44E-05	2.74E-05	-1.47E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.67E-04	1.54E-09	2.38E-06	4.06E-06	1.81E-07	6.99E-09	2.79E-06	6.30E-08	-2.09E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.26E+02	6.09E-03	3.45E+00	2.91E+01	1.55E+00	2.76E-02	2.44E+01	4.68E-01	-1.40E+02

Table 442 | Environmental impacts per m² of InsulRoof® - 50mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	4.77E-08	9.56E-15	8.98E-12	3.51E-11	5.02E-12	4.33E-14	6.81E-11	1.43E-12	-3.39E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	2.15E-15	1.34E-12	8.43E-13	8.52E-13	9.73E-15	1.10E-11	2.27E-13	-8.72E-12
Land use	LU	kg C deficit eq.	1.52E+01	1.12E-03	4.82E-01	4.93E-01	1.23E-02	5.06E-03	3.57E-01	3.64E-01	-1.33E+00
Ionising radiation	IR	kBq U235 eq	5.14E-01	2.30E-07	1.86E-02	4.85E-02	3.06E-05	1.04E-06	5.39E-04	2.24E-03	-6.06E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.62E-02	4.17E-07	1.25E-04	9.55E-04	7.30E-05	1.89E-06	1.04E-03	4.05E-05	-7.85E-03
Resource depletion - water	RDW	m ³	2.16E-01	2.05E-06	1.30E-03	8.67E-03	9.97E-04	9.28E-06	1.35E-02	6.44E-04	-7.09E-03

InsulRoof® - 75mm

Table 443 | Environmental impacts per m² of InsulRoof® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.36E+01	5.62E-04	7.75E-02	1.78E+00	1.39E-01	1.99E-03	2.06E+00	2.20E-01	-7.15E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-2.95E-01	2.41E-08	1.62E-01	2.94E-03	4.85E-04	8.54E-08	6.29E-03	1.46E-04	3.19E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.45E-03	4.66E-09	6.44E-05	5.63E-06	2.87E-08	1.65E-08	7.79E-07	2.50E-05	-7.46E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.33E+01	5.62E-04	2.40E-01	1.78E+00	1.40E-01	1.99E-03	2.07E+00	2.20E-01	-7.15E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	9.93E-07	8.56E-11	4.16E-08	5.04E-08	2.66E-10	3.03E-10	2.01E-08	7.15E-09	-1.44E-08
Acidification potential	AP	mol H ⁺ eq.	1.76E-01	4.43E-06	1.31E-03	9.09E-03	1.02E-03	1.57E-05	1.35E-02	2.05E-04	-6.53E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.72E-03	1.95E-08	-3.51E-05	1.68E-04	5.50E-06	6.90E-08	7.83E-05	3.53E-06	-1.62E-04
Eutrophication – marine	EP - M	kg N eq.	4.10E-02	1.27E-06	1.91E-04	1.55E-03	1.51E-04	4.50E-06	2.18E-03	3.98E-03	-1.31E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.21E-01	1.39E-05	2.11E-03	1.32E-02	1.62E-03	4.93E-05	2.34E-02	7.48E-04	-1.49E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.35E-01	3.43E-06	4.13E-04	3.85E-03	4.26E-04	1.22E-05	6.08E-03	2.61E-04	-3.54E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.69E-04	2.04E-09	2.79E-06	4.06E-06	1.81E-07	7.22E-09	2.79E-06	7.57E-08	-2.09E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.48E+02	8.00E-03	-1.51E+00	3.19E+01	6.63E-01	2.84E-02	1.32E+01	5.90E-01	-9.37E+01
Water Depletion Potential	WDP	m ³	1.20E+01	1.67E-04	8.33E-01	3.47E+01	2.28E-02	5.91E-04	1.20E+00	2.38E-02	-5.07E+01

Table 444 | Resource use per m² of InsulRoof® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.32E+01	8.13E-05	4.32E-01	3.26E-01	1.20E-01	2.88E-04	1.51E+00	1.04E-02	-1.03E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.32E+01	8.13E-05	4.32E-01	3.26E-01	1.20E-01	2.88E-04	1.51E+00	1.04E-02	-1.03E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.74E+02	8.00E-03	2.69E+00	3.19E+01	6.63E-01	2.84E-02	1.32E+01	5.90E-01	-9.37E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	7.38E+01	0.00E+00	-4.71E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.42E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.48E+02	8.00E-03	-2.02E+00	3.19E+01	6.63E-01	2.84E-02	1.32E+01	-7.36E+01	-9.37E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.57E-01	9.53E-07	1.21E-04	3.67E-03	1.14E-04	3.38E-06	1.88E-03	3.34E-04	-2.60E-03

Table 445 | Waste generated per m² of InsulRoof® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.19E-04	1.05E-08	-1.13E-05	1.08E-05	4.50E-07	3.73E-08	7.10E-06	8.40E-07	-8.47E-06
Non-hazardous waste disposed	NHWD	kg	1.46E+00	5.52E-05	4.45E-01	6.54E-02	8.58E-03	1.96E-04	2.08E-01	2.41E+00	-1.07E+00
Radioactive waste disposed/stored	RWD	kg	1.71E-03	4.19E-11	2.03E-05	6.94E-06	4.39E-09	1.48E-10	7.73E-08	3.31E-06	-8.73E-08

Table 446 | Output flows per m² of InsulRoof[®] - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 447 | Additional environmental impacts per m² of InsulRoof[®] - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.18E+01	5.50E-04	8.24E-02	1.68E+00	1.37E-01	1.95E-03	2.03E+00	1.66E-01	-6.16E+00
Particulate matter	PM	disease incidence	2.23E-06	2.91E-11	-8.27E-10	8.57E-08	8.88E-09	1.03E-10	1.18E-07	3.91E-09	-4.46E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.27E-01	3.03E-07	2.33E-02	4.85E-02	3.05E-05	1.07E-06	5.39E-04	2.67E-03	-6.05E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	3.96E+02	4.30E-03	-5.91E-01	7.90E+00	3.79E-01	1.52E-02	6.24E+00	1.04E+00	-1.36E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.31E-08	2.72E-13	8.82E-09	7.57E-10	4.32E-11	9.64E-13	6.11E-10	2.80E-11	-2.25E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.32E+02	2.75E-03	-1.13E+00	5.34E+00	3.50E-01	9.74E-03	5.28E+00	3.22E-01	-1.34E+02
Soil quality	SQP	Pt	5.69E+01	2.08E-03	1.21E+00	6.96E-01	4.26E-01	7.38E-03	5.62E+00	1.27E+00	-1.14E+01

Table 448 | Environmental impacts per m² of InsulRoof[®] - 75mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.21E+01	5.52E-04	1.71E-01	1.72E+00	1.38E-01	1.96E-03	2.04E+00	1.89E-01	-6.15E+00
Ozone layer depletion	ODP	kg CFC-11 eq	9.15E-07	6.77E-11	3.61E-08	4.29E-08	2.33E-10	2.40E-10	1.64E-08	5.67E-09	-1.15E-08
Acidification potential	AP	kg SO ₂ eq	1.35E-01	2.35E-06	3.39E-04	7.45E-03	2.11E-04	8.33E-06	3.18E-03	1.56E-04	-4.04E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.08E-02	5.36E-07	-3.45E-05	1.16E-03	7.30E-05	1.90E-06	1.05E-03	1.69E-03	-5.56E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.99E-02	1.58E-07	2.81E-05	4.60E-04	4.31E-06	5.60E-07	7.44E-05	3.34E-05	-1.47E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.69E-04	2.04E-09	2.79E-06	4.06E-06	1.81E-07	7.22E-09	2.79E-06	7.57E-08	-2.09E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.60E+02	8.03E-03	2.91E+00	2.91E+01	1.55E+00	2.85E-02	2.44E+01	5.56E-01	-1.40E+02

Table 449 | Environmental impacts per m² of InsulRoof[®] - 75mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	4.90E-08	1.26E-14	7.56E-12	3.51E-11	5.02E-12	4.47E-14	6.81E-11	1.71E-12	-3.39E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	2.83E-15	1.48E-12	8.43E-13	8.52E-13	1.00E-14	1.10E-11	2.70E-13	-8.72E-12
Land use	LU	kg C deficit eq.	1.65E+01	1.47E-03	4.95E-01	4.93E-01	1.23E-02	5.23E-03	3.57E-01	4.23E-01	-1.33E+00
Ionising radiation	IR	kBq U235 eq	5.28E-01	3.03E-07	2.33E-02	4.85E-02	3.06E-05	1.07E-06	5.39E-04	2.67E-03	-6.06E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.71E-02	5.50E-07	4.28E-05	9.55E-04	7.30E-05	1.95E-06	1.04E-03	4.82E-05	-7.85E-03
Resource depletion - water	RDW	m ³	2.55E-01	2.70E-06	8.37E-04	8.67E-03	9.97E-04	9.58E-06	1.35E-02	7.63E-04	-7.09E-03

InsulRoof® - 100mm

Table 450 | Environmental impacts per m² of InsulRoof® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.48E+01	4.96E-04	8.02E-02	1.78E+00	1.39E-01	2.05E-03	2.06E+00	2.60E-01	-7.15E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-2.81E-01	2.13E-08	1.59E-01	2.94E-03	4.85E-04	8.80E-08	6.29E-03	1.72E-04	3.19E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.45E-03	4.11E-09	6.41E-05	5.63E-06	2.87E-08	1.70E-08	7.79E-07	2.91E-05	-7.46E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.46E+01	4.96E-04	2.39E-01	1.78E+00	1.40E-01	2.05E-03	2.07E+00	2.60E-01	-7.15E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	1.01E-06	7.56E-11	4.16E-08	5.04E-08	2.66E-10	3.13E-10	2.01E-08	8.24E-09	-1.44E-08
Acidification potential	AP	mol H ⁺ eq.	1.80E-01	3.91E-06	1.31E-03	9.09E-03	1.02E-03	1.62E-05	1.35E-02	2.38E-04	-6.53E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.75E-03	1.72E-08	-3.39E-05	1.68E-04	5.50E-06	7.11E-08	7.83E-05	4.13E-06	-1.62E-04
Eutrophication – marine	EP - M	kg N eq.	4.16E-02	1.12E-06	1.92E-04	1.55E-03	1.51E-04	4.64E-06	2.18E-03	4.70E-03	-1.31E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.28E-01	1.23E-05	2.12E-03	1.32E-02	1.62E-03	5.08E-05	2.34E-02	8.66E-04	-1.49E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.39E-01	3.03E-06	4.22E-04	3.85E-03	4.26E-04	1.26E-05	6.08E-03	3.03E-04	-3.54E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.70E-04	1.80E-09	2.77E-06	4.06E-06	1.81E-07	7.44E-09	2.79E-06	8.83E-08	-2.09E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.91E+02	7.07E-03	-1.41E+00	3.19E+01	6.63E-01	2.93E-02	1.32E+01	6.82E-01	-9.37E+01
Water Depletion Potential	WDP	m ³	1.25E+01	1.47E-04	8.18E-01	3.47E+01	2.28E-02	6.09E-04	1.20E+00	2.75E-02	-5.07E+01

Table 451 | Resource use per m² of InsulRoof® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.33E+01	7.18E-05	4.28E-01	3.26E-01	1.20E-01	2.97E-04	1.51E+00	1.22E-02	-1.03E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.33E+01	7.18E-05	4.28E-01	3.26E-01	1.20E-01	2.97E-04	1.51E+00	1.22E-02	-1.03E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.04E+02	7.07E-03	2.70E+00	3.19E+01	6.63E-01	2.93E-02	1.32E+01	6.82E-01	-9.37E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	8.70E+01	0.00E+00	-4.62E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.78E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.91E+02	7.07E-03	-1.91E+00	3.19E+01	6.63E-01	2.93E-02	1.32E+01	-8.71E+01	-9.37E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.70E-01	8.42E-07	1.29E-04	3.67E-03	1.14E-04	3.48E-06	1.88E-03	3.86E-04	-2.60E-03

Table 452 | Waste generated per m² of InsulRoof® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.20E-04	9.29E-09	-1.10E-05	1.08E-05	4.50E-07	3.84E-08	7.10E-06	9.72E-07	-8.47E-06
Non-hazardous waste disposed	NHWD	kg	1.47E+00	4.88E-05	4.38E-01	6.54E-02	8.58E-03	2.02E-04	2.08E-01	2.75E+00	-1.07E+00
Radioactive waste disposed/stored	RWD	kg	1.71E-03	3.70E-11	2.02E-05	6.94E-06	4.39E-09	1.53E-10	7.73E-08	3.82E-06	-8.73E-08

Table 453 | Output flows per m² of InsulRoof® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 454 | Additional environmental impacts per m² of InsulRoof® - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.30E+01	4.86E-04	8.50E-02	1.68E+00	1.37E-01	2.01E-03	2.03E+00	1.96E-01	-6.16E+00
Particulate matter	PM	disease incidence	2.28E-06	2.57E-11	-5.28E-10	8.57E-08	8.88E-09	1.06E-10	1.18E-07	4.53E-09	-4.46E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.27E-01	2.67E-07	2.31E-02	4.85E-02	3.05E-05	1.11E-06	5.39E-04	3.09E-03	-6.05E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	4.03E+02	3.80E-03	-5.16E-01	7.90E+00	3.79E-01	1.57E-02	6.24E+00	1.22E+00	-1.36E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.36E-08	2.40E-13	8.68E-09	7.57E-10	4.32E-11	9.94E-13	6.11E-10	3.28E-11	-2.25E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.38E+02	2.43E-03	-1.06E+00	5.34E+00	3.50E-01	1.00E-02	5.28E+00	3.75E-01	-1.34E+02
Soil quality	SQP	Pt	5.69E+01	1.84E-03	1.20E+00	6.96E-01	4.26E-01	7.60E-03	5.62E+00	1.47E+00	-1.14E+01

Table 455 | Environmental impacts per m² of InsulRoof® - 100mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.33E+01	4.87E-04	1.72E-01	1.72E+00	1.38E-01	2.02E-03	2.04E+00	2.23E-01	-6.15E+00
Ozone layer depletion	ODP	kg CFC-11 eq	9.35E-07	5.98E-11	3.62E-08	4.29E-08	2.33E-10	2.47E-10	1.64E-08	6.54E-09	-1.15E-08
Acidification potential	AP	kg SO ₂ eq	1.38E-01	2.08E-06	3.45E-04	7.45E-03	2.11E-04	8.59E-06	3.18E-03	1.81E-04	-4.04E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.12E-02	4.74E-07	-3.05E-05	1.16E-03	7.30E-05	1.96E-06	1.05E-03	2.00E-03	-5.56E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.02E-02	1.40E-07	2.94E-05	4.60E-04	4.31E-06	5.77E-07	7.44E-05	3.94E-05	-1.47E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.70E-04	1.80E-09	2.77E-06	4.06E-06	1.81E-07	7.44E-09	2.79E-06	8.84E-08	-2.09E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.86E+02	7.09E-03	2.94E+00	2.91E+01	1.55E+00	2.94E-02	2.44E+01	6.43E-01	-1.40E+02

Table 456 | Environmental impacts per m² of InsulRoof® - 100mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	4.90E-08	1.11E-14	7.63E-12	3.51E-11	5.02E-12	4.61E-14	6.81E-11	1.99E-12	-3.39E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	2.50E-15	1.47E-12	8.43E-13	8.52E-13	1.04E-14	1.10E-11	3.12E-13	-8.72E-12
Land use	LU	kg C deficit eq.	1.65E+01	1.30E-03	4.94E-01	4.93E-01	1.23E-02	5.39E-03	3.57E-01	4.81E-01	-1.33E+00
Ionising radiation	IR	kBq U235 eq	5.28E-01	2.68E-07	2.31E-02	4.85E-02	3.06E-05	1.11E-06	5.39E-04	3.09E-03	-6.06E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.76E-02	4.86E-07	4.67E-05	9.55E-04	7.30E-05	2.01E-06	1.04E-03	5.60E-05	-7.85E-03
Resource depletion - water	RDW	m ³	2.85E-01	2.39E-06	8.59E-04	8.67E-03	9.97E-04	9.87E-06	1.35E-02	8.82E-04	-7.09E-03

InsulRoof® - 125mm

Table 457 | Environmental impacts per m² of InsulRoof® - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.64E+01	5.54E-04	3.84E-02	1.78E+00	1.39E-01	2.11E-03	2.06E+00	2.99E-01	-7.15E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-3.94E-01	2.37E-08	2.09E-01	2.94E-03	4.85E-04	9.06E-08	6.29E-03	1.98E-04	3.19E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.76E-03	4.59E-09	6.74E-05	5.63E-06	2.87E-08	1.75E-08	7.79E-07	3.30E-05	-7.46E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.60E+01	5.54E-04	2.48E-01	1.78E+00	1.40E-01	2.11E-03	2.07E+00	2.99E-01	-7.15E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	1.06E-06	8.43E-11	4.14E-08	5.04E-08	2.66E-10	3.22E-10	2.01E-08	9.31E-09	-1.44E-08
Acidification potential	AP	mol H ⁺ eq.	1.86E-01	4.37E-06	1.24E-03	9.09E-03	1.02E-03	1.67E-05	1.35E-02	2.70E-04	-6.53E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.85E-03	1.92E-08	-5.27E-05	1.68E-04	5.50E-06	7.32E-08	7.83E-05	4.71E-06	-1.62E-04
Eutrophication – marine	EP - M	kg N eq.	4.25E-02	1.25E-06	1.79E-04	1.55E-03	1.51E-04	4.77E-06	2.18E-03	5.41E-03	-1.31E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.38E-01	1.37E-05	1.99E-03	1.32E-02	1.62E-03	5.23E-05	2.34E-02	9.80E-04	-1.49E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.43E-01	3.39E-06	2.86E-04	3.85E-03	4.26E-04	1.29E-05	6.08E-03	3.44E-04	-3.54E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.72E-04	2.01E-09	3.08E-06	4.06E-06	1.81E-07	7.66E-09	2.79E-06	1.01E-07	-2.09E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	7.40E+02	7.89E-03	-2.94E+00	3.19E+01	6.63E-01	3.01E-02	1.32E+01	7.72E-01	-9.37E+01
Water Depletion Potential	WDP	m ³	1.38E+01	1.64E-04	1.06E+00	3.47E+01	2.28E-02	6.27E-04	1.20E+00	3.11E-02	-5.07E+01

Table 458 | Resource use per m² of InsulRoof® - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.51E+01	8.01E-05	4.87E-01	3.26E-01	1.20E-01	3.06E-04	1.51E+00	1.39E-02	-1.03E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.51E+01	8.01E-05	4.87E-01	3.26E-01	1.20E-01	3.06E-04	1.51E+00	1.39E-02	-1.03E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.38E+02	7.89E-03	2.48E+00	3.19E+01	6.63E-01	3.01E-02	1.32E+01	7.72E-01	-9.37E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.01E+02	0.00E+00	-6.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.01E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	7.40E+02	7.89E-03	-3.61E+00	3.19E+01	6.63E-01	3.01E-02	1.32E+01	-1.00E+02	-9.37E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.86E-01	9.40E-07	-1.53E-06	3.67E-03	1.14E-04	3.59E-06	1.88E-03	4.36E-04	-2.60E-03

Table 459 | Waste generated per m² of InsulRoof® - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.25E-04	1.04E-08	-1.61E-05	1.08E-05	4.50E-07	3.95E-08	7.10E-06	1.10E-06	-8.47E-06
Non-hazardous waste disposed	NHWD	kg	1.53E+00	5.45E-05	5.66E-01	6.54E-02	8.58E-03	2.08E-04	2.08E-01	3.08E+00	-1.07E+00
Radioactive waste disposed/stored	RWD	kg	1.71E-03	4.13E-11	2.17E-05	6.94E-06	4.39E-09	1.57E-10	7.73E-08	4.32E-06	-8.73E-08

Table 460 | Output flows per m² of InsulRoof[®] - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 461 | Additional environmental impacts per m² of InsulRoof[®] - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.43E+01	5.43E-04	4.61E-02	1.68E+00	1.37E-01	2.07E-03	2.03E+00	2.26E-01	-6.16E+00
Particulate matter	PM	disease incidence	2.34E-06	2.87E-11	-5.17E-09	8.57E-08	8.88E-09	1.09E-10	1.18E-07	5.13E-09	-4.46E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.38E-01	2.98E-07	2.65E-02	4.85E-02	3.05E-05	1.14E-06	5.39E-04	3.50E-03	-6.05E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	4.16E+02	4.24E-03	-1.67E+00	7.90E+00	3.79E-01	1.62E-02	6.24E+00	1.40E+00	-1.36E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.70E-08	2.68E-13	1.08E-08	7.57E-10	4.32E-11	1.02E-12	6.11E-10	3.74E-11	-2.25E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.51E+02	2.71E-03	-2.19E+00	5.34E+00	3.50E-01	1.03E-02	5.28E+00	4.26E-01	-1.34E+02
Soil quality	SQP	Pt	6.63E+01	2.05E-03	1.28E+00	6.96E-01	4.26E-01	7.82E-03	5.62E+00	1.67E+00	-1.14E+01

Table 462 | Environmental impacts per m² of InsulRoof[®] - 125mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.47E+01	5.44E-04	1.61E-01	1.72E+00	1.38E-01	2.07E-03	2.04E+00	2.57E-01	-6.15E+00
Ozone layer depletion	ODP	kg CFC-11 eq	9.82E-07	6.67E-11	3.56E-08	4.29E-08	2.33E-10	2.54E-10	1.64E-08	7.38E-09	-1.15E-08
Acidification potential	AP	kg SO ₂ eq	1.43E-01	2.32E-06	2.47E-04	7.45E-03	2.11E-04	8.84E-06	3.18E-03	2.05E-04	-4.04E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.18E-02	5.29E-07	-9.19E-05	1.16E-03	7.30E-05	2.02E-06	1.05E-03	2.30E-03	-5.56E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.05E-02	1.56E-07	8.44E-06	4.60E-04	4.31E-06	5.94E-07	7.44E-05	4.52E-05	-1.47E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.72E-04	2.01E-09	3.08E-06	4.06E-06	1.81E-07	7.66E-09	2.79E-06	1.01E-07	-2.09E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.18E+02	7.92E-03	2.54E+00	2.91E+01	1.55E+00	3.02E-02	2.44E+01	7.28E-01	-1.40E+02

Table 463 | Environmental impacts per m² of InsulRoof[®] - 125mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	5.00E-08	1.24E-14	6.59E-12	3.51E-11	5.02E-12	4.74E-14	6.81E-11	2.26E-12	-3.39E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	2.79E-15	1.58E-12	8.43E-13	8.52E-13	1.07E-14	1.10E-11	3.54E-13	-8.72E-12
Land use	LU	kg C deficit eq.	1.75E+01	1.45E-03	5.04E-01	4.93E-01	1.23E-02	5.54E-03	3.57E-01	5.38E-01	-1.33E+00
Ionising radiation	IR	kBq U235 eq	5.39E-01	2.99E-07	2.65E-02	4.85E-02	3.06E-05	1.14E-06	5.39E-04	3.51E-03	-6.06E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.83E-02	5.42E-07	-1.37E-05	9.55E-04	7.30E-05	2.07E-06	1.04E-03	6.35E-05	-7.85E-03
Resource depletion - water	RDW	m ³	3.22E-01	2.66E-06	5.17E-04	8.67E-03	9.97E-04	1.02E-05	1.35E-02	9.97E-04	-7.09E-03

InsulRoof® - 150mm

Table 464 | Environmental impacts per m² of InsulRoof® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.76E+01	4.45E-04	3.84E-02	1.78E+00	1.39E-01	2.18E-03	2.06E+00	3.38E-01	-7.15E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-3.80E-01	1.91E-08	2.09E-01	2.94E-03	4.85E-04	9.32E-08	6.29E-03	2.24E-04	3.19E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.76E-03	3.68E-09	6.74E-05	5.63E-06	2.87E-08	1.80E-08	7.79E-07	3.71E-05	-7.46E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.73E+01	4.45E-04	2.48E-01	1.78E+00	1.40E-01	2.18E-03	2.07E+00	3.39E-01	-7.15E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	1.07E-06	6.77E-11	4.14E-08	5.04E-08	2.66E-10	3.31E-10	2.01E-08	1.04E-08	-1.44E-08
Acidification potential	AP	mol H ⁺ eq.	1.91E-01	3.51E-06	1.24E-03	9.09E-03	1.02E-03	1.72E-05	1.35E-02	3.02E-04	-6.53E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.89E-03	1.54E-08	-5.27E-05	1.68E-04	5.50E-06	7.53E-08	7.83E-05	5.31E-06	-1.62E-04
Eutrophication – marine	EP - M	kg N eq.	4.32E-02	1.00E-06	1.79E-04	1.55E-03	1.51E-04	4.91E-06	2.18E-03	6.14E-03	-1.31E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.45E-01	1.10E-05	1.99E-03	1.32E-02	1.62E-03	5.38E-05	2.34E-02	1.10E-03	-1.49E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.47E-01	2.72E-06	2.86E-04	3.85E-03	4.26E-04	1.33E-05	6.08E-03	3.86E-04	-3.54E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.72E-04	1.61E-09	3.08E-06	4.06E-06	1.81E-07	7.88E-09	2.79E-06	1.13E-07	-2.09E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	7.84E+02	6.33E-03	-2.94E+00	3.19E+01	6.63E-01	3.10E-02	1.32E+01	8.64E-01	-9.37E+01
Water Depletion Potential	WDP	m ³	1.47E+01	1.32E-04	1.06E+00	3.47E+01	2.28E-02	6.45E-04	1.20E+00	3.48E-02	-5.07E+01

Table 465 | Resource use per m² of InsulRoof® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.52E+01	6.43E-05	4.87E-01	3.26E-01	1.20E-01	3.15E-04	1.51E+00	1.57E-02	-1.03E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.52E+01	6.43E-05	4.87E-01	3.26E-01	1.20E-01	3.15E-04	1.51E+00	1.57E-02	-1.03E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.69E+02	6.33E-03	2.48E+00	3.19E+01	6.63E-01	3.10E-02	1.32E+01	8.64E-01	-9.37E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.15E+02	0.00E+00	-6.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.15E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	7.84E+02	6.33E-03	-3.61E+00	3.19E+01	6.63E-01	3.10E-02	1.32E+01	-1.14E+02	-9.37E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	2.00E-01	7.54E-07	-1.63E-06	3.67E-03	1.14E-04	3.69E-06	1.88E-03	4.88E-04	-2.60E-03

Table 466 | Waste generated per m² of InsulRoof® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.25E-04	8.32E-09	-1.61E-05	1.08E-05	4.50E-07	4.07E-08	7.10E-06	1.23E-06	-8.47E-06
Non-hazardous waste disposed	NHWD	kg	1.54E+00	4.37E-05	5.66E-01	6.54E-02	8.58E-03	2.14E-04	2.08E-01	3.42E+00	-1.07E+00
Radioactive waste disposed/stored	RWD	kg	1.71E-03	3.31E-11	2.17E-05	6.94E-06	4.39E-09	1.62E-10	7.73E-08	4.83E-06	-8.73E-08

Table 467 | Output flows per m² of InsulRoof® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 468 | Additional environmental impacts per m² of InsulRoof® - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.55E+01	4.35E-04	4.61E-02	1.68E+00	1.37E-01	2.13E-03	2.03E+00	2.56E-01	-6.16E+00
Particulate matter	PM	disease incidence	2.39E-06	2.30E-11	-5.17E-09	8.57E-08	8.88E-09	1.13E-10	1.18E-07	5.74E-09	-4.46E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.39E-01	2.39E-07	2.65E-02	4.85E-02	3.05E-05	1.17E-06	5.39E-04	3.93E-03	-6.05E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	4.23E+02	3.40E-03	-1.67E+00	7.90E+00	3.79E-01	1.66E-02	6.24E+00	1.58E+00	-1.36E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.74E-08	2.15E-13	1.08E-08	7.57E-10	4.32E-11	1.05E-12	6.11E-10	4.22E-11	-2.25E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.57E+02	2.17E-03	-2.19E+00	5.34E+00	3.50E-01	1.06E-02	5.28E+00	4.79E-01	-1.34E+02
Soil quality	SQP	Pt	6.63E+01	1.65E-03	1.28E+00	6.96E-01	4.26E-01	8.05E-03	5.62E+00	1.87E+00	-1.14E+01

Table 469 | Environmental impacts per m² of InsulRoof® - 150mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.60E+01	4.36E-04	1.61E-01	1.72E+00	1.38E-01	2.14E-03	2.04E+00	2.91E-01	-6.15E+00
Ozone layer depletion	ODP	kg CFC-11 eq	1.00E-06	5.35E-11	3.56E-08	4.29E-08	2.33E-10	2.62E-10	1.64E-08	8.25E-09	-1.15E-08
Acidification potential	AP	kg SO ₂ eq	1.47E-01	1.86E-06	2.47E-04	7.45E-03	2.11E-04	9.10E-06	3.18E-03	2.30E-04	-4.04E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.22E-02	4.24E-07	-9.20E-05	1.16E-03	7.30E-05	2.08E-06	1.05E-03	2.61E-03	-5.56E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.07E-02	1.25E-07	8.42E-06	4.60E-04	4.31E-06	6.12E-07	7.44E-05	5.11E-05	-1.47E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.72E-04	1.61E-09	3.08E-06	4.06E-06	1.81E-07	7.88E-09	2.79E-06	1.13E-07	-2.09E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.45E+02	6.35E-03	2.54E+00	2.91E+01	1.55E+00	3.11E-02	2.44E+01	8.15E-01	-1.40E+02

Table 470 | Environmental impacts per m² of InsulRoof® - 150mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	5.01E-08	9.97E-15	6.59E-12	3.51E-11	5.02E-12	4.88E-14	6.81E-11	2.53E-12	-3.39E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	2.24E-15	1.58E-12	8.43E-13	8.52E-13	1.10E-14	1.10E-11	3.96E-13	-8.72E-12
Land use	LU	kg C deficit eq.	1.75E+01	1.17E-03	5.04E-01	4.93E-01	1.23E-02	5.71E-03	3.57E-01	5.97E-01	-1.33E+00
Ionising radiation	IR	kBq U235 eq	5.39E-01	2.40E-07	2.65E-02	4.85E-02	3.06E-05	1.17E-06	5.39E-04	3.93E-03	-6.06E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.88E-02	4.35E-07	-1.37E-05	9.55E-04	7.30E-05	2.13E-06	1.04E-03	7.12E-05	-7.85E-03
Resource depletion - water	RDW	m ³	3.52E-01	2.14E-06	5.16E-04	8.67E-03	9.97E-04	1.05E-05	1.35E-02	1.12E-03	-7.09E-03

InsulRoof® - 200mm

Table 471 | Environmental impacts per m² of InsulRoof® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.85E+01	3.92E-04	-1.45E-02	1.78E+00	1.20E-01	2.30E-03	2.06E+00	4.18E-01	-7.15E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-4.54E-01	1.68E-08	2.49E-01	2.94E-03	2.51E-04	9.85E-08	6.29E-03	2.77E-04	3.19E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.99E-03	3.25E-09	1.18E-04	5.63E-06	4.79E-05	1.90E-08	7.79E-07	4.53E-05	-7.46E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.81E+01	3.92E-04	2.35E-01	1.78E+00	1.20E-01	2.30E-03	2.07E+00	4.18E-01	-7.15E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	8.27E-07	5.96E-11	2.37E-07	5.04E-08	1.96E-07	3.50E-10	2.01E-08	1.26E-08	-1.44E-08
Acidification potential	AP	mol H ⁺ eq.	1.89E-01	3.09E-06	1.60E-03	9.09E-03	1.43E-03	1.81E-05	1.35E-02	3.68E-04	-6.53E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.96E-03	1.36E-08	-6.42E-05	1.68E-04	8.97E-06	7.96E-08	7.83E-05	6.51E-06	-1.62E-04
Eutrophication – marine	EP - M	kg N eq.	4.23E-02	8.84E-07	2.01E-04	1.55E-03	1.83E-04	5.19E-06	2.18E-03	7.59E-03	-1.31E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.34E-01	9.69E-06	2.27E-03	1.32E-02	2.01E-03	5.69E-05	2.34E-02	1.33E-03	-1.49E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.49E-01	2.39E-06	5.73E-04	3.85E-03	8.22E-04	1.40E-05	6.08E-03	4.71E-04	-3.54E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.68E-04	1.42E-09	3.31E-06	4.06E-06	1.52E-07	8.33E-09	2.79E-06	1.39E-07	-2.09E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	8.49E+02	5.58E-03	8.08E+00	3.19E+01	1.29E+01	3.27E-02	1.32E+01	1.05E+00	-9.37E+01
Water Depletion Potential	WDP	m ³	1.62E+01	1.16E-04	1.24E+00	3.47E+01	5.79E-03	6.82E-04	1.20E+00	4.22E-02	-5.07E+01

Table 472 | Resource use per m² of InsulRoof® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.65E+01	5.66E-05	4.47E-01	3.26E-01	3.12E-02	3.32E-04	1.51E+00	1.93E-02	-1.03E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	2.65E+01	5.66E-05	4.47E-01	3.26E-01	3.12E-02	3.32E-04	1.51E+00	1.93E-02	-1.03E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	7.05E+02	5.58E-03	1.45E+01	3.19E+01	1.29E+01	3.27E-02	1.32E+01	1.05E+00	-9.37E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.43E+02	0.00E+00	-7.26E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.42E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	8.48E+02	5.58E-03	7.29E+00	3.19E+01	1.29E+01	3.27E-02	1.32E+01	-1.41E+02	-9.37E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	2.24E-01	6.64E-07	-1.40E-04	3.67E-03	7.94E-05	3.90E-06	1.88E-03	5.92E-04	-2.60E-03

Table 473 | Waste generated per m² of InsulRoof® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	9.60E-05	7.33E-09	1.21E-05	1.08E-05	3.28E-05	4.30E-08	7.10E-06	1.49E-06	-8.47E-06
Non-hazardous waste disposed	NHWD	kg	1.33E+00	3.85E-05	6.59E-01	6.54E-02	6.11E-03	2.26E-04	2.08E-01	4.10E+00	-1.07E+00
Radioactive waste disposed/stored	RWD	kg	1.72E-03	2.92E-11	1.10E-04	6.94E-06	8.69E-05	1.71E-10	7.73E-08	5.85E-06	-8.73E-08

Table 474 | Output flows per m² of InsulRoof® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 475 | Additional environmental impacts per m² of InsulRoof® - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.62E+01	3.84E-04	-6.68E-03	1.68E+00	1.15E-01	2.25E-03	2.03E+00	3.16E-01	-6.16E+00
Particulate matter	PM	disease incidence	2.35E-06	2.03E-11	-1.02E-08	8.57E-08	7.51E-09	1.19E-10	1.18E-07	6.98E-09	-4.46E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.47E-01	2.11E-07	8.35E-02	4.85E-02	5.43E-02	1.24E-06	5.39E-04	4.78E-03	-6.05E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	4.28E+02	3.00E-03	3.36E+00	7.90E+00	6.33E+00	1.76E-02	6.24E+00	1.95E+00	-1.36E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.97E-08	1.90E-13	1.26E-08	7.57E-10	8.35E-11	1.11E-12	6.11E-10	5.18E-11	-2.25E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.66E+02	1.91E-03	9.62E-02	5.34E+00	3.54E+00	1.12E-02	5.28E+00	5.85E-01	-1.34E+02
Soil quality	SQP	Pt	6.71E+01	1.45E-03	2.41E+00	6.96E-01	1.49E+00	8.51E-03	5.62E+00	2.27E+00	-1.14E+01

Table 476 | Environmental impacts per m² of InsulRoof® - 200mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.67E+01	3.85E-04	1.31E-01	1.72E+00	1.17E-01	2.26E-03	2.04E+00	3.59E-01	-6.15E+00
Ozone layer depletion	ODP	kg CFC-11 eq	8.26E-07	4.72E-11	1.90E-07	4.29E-08	1.55E-07	2.77E-10	1.64E-08	9.99E-09	-1.15E-08
Acidification potential	AP	kg SO ₂ eq	1.50E-01	1.64E-06	1.18E-03	7.45E-03	1.22E-03	9.61E-06	3.18E-03	2.80E-04	-4.04E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.19E-02	3.74E-07	-1.22E-04	1.16E-03	9.16E-05	2.19E-06	1.05E-03	3.22E-03	-5.56E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.08E-02	1.10E-07	3.72E-05	4.60E-04	4.99E-05	6.46E-07	7.44E-05	6.31E-05	-1.47E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.68E-04	1.42E-09	3.31E-06	4.06E-06	1.52E-07	8.33E-09	2.79E-06	1.39E-07	-2.09E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.75E+02	5.60E-03	1.25E+01	2.91E+01	1.19E+01	3.28E-02	2.44E+01	9.90E-01	-1.40E+02

Table 477 | Environmental impacts per m² of InsulRoof® - 200mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	5.09E-08	8.78E-15	5.80E-12	3.51E-11	5.05E-12	5.15E-14	6.81E-11	3.09E-12	-3.39E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	1.97E-15	1.37E-12	8.43E-13	5.62E-13	1.16E-14	1.10E-11	4.81E-13	-8.72E-12
Land use	LU	kg C deficit eq.	1.33E+01	1.03E-03	2.61E+00	4.93E-01	2.11E+00	6.03E-03	3.57E-01	7.14E-01	-1.33E+00
Ionising radiation	IR	kBq U235 eq	5.47E-01	2.11E-07	8.36E-02	4.85E-02	5.43E-02	1.24E-06	5.39E-04	4.78E-03	-6.06E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.85E-02	3.83E-07	3.75E-05	9.55E-04	1.72E-04	2.25E-06	1.04E-03	8.67E-05	-7.85E-03
Resource depletion - water	RDW	m ³	4.07E-01	1.88E-06	-5.61E-04	8.67E-03	1.91E-04	1.10E-05	1.35E-02	1.35E-03	-7.09E-03

Solaris Corro®

Solaris Corro® 0.5mm steel - 50mm

Table 478 | Environmental impacts per m² of Solaris Corro® 0.5mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.25E+01	3.65E-04	1.34E-01	1.78E+00	1.39E-01	1.95E-03	2.08E+00	1.80E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.46E-01	1.57E-08	9.48E-02	2.94E-03	4.85E-04	8.35E-08	6.35E-03	1.20E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.19E-03	3.03E-09	5.99E-05	5.63E-06	2.87E-08	1.61E-08	7.86E-07	2.09E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.24E+01	3.65E-04	2.29E-01	1.78E+00	1.40E-01	1.95E-03	2.09E+00	1.80E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	9.32E-07	5.56E-11	4.20E-08	5.04E-08	2.66E-10	2.96E-10	2.03E-08	6.06E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.72E-01	2.88E-06	1.41E-03	9.09E-03	1.02E-03	1.54E-05	1.37E-02	1.73E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.60E-03	1.27E-08	-9.72E-06	1.68E-04	5.50E-06	6.74E-08	7.91E-05	2.93E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	4.04E-02	8.25E-07	2.10E-04	1.55E-03	1.51E-04	4.40E-06	2.20E-03	3.24E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.16E-01	9.04E-06	2.29E-03	1.32E-02	1.62E-03	4.82E-05	2.37E-02	6.30E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.31E-01	2.23E-06	5.99E-04	3.85E-03	4.26E-04	1.19E-05	6.14E-03	2.18E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.73E-04	1.32E-09	2.38E-06	4.06E-06	1.81E-07	7.05E-09	2.82E-06	6.30E-08	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.04E+02	5.21E-03	5.67E-01	3.19E+01	6.63E-01	2.77E-02	1.33E+01	4.98E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	1.04E+01	1.08E-04	5.07E-01	3.47E+01	2.28E-02	5.78E-04	1.21E+00	2.01E-02	-5.12E+01

Table 479 | Resource use per m² of Solaris Corro® 0.5mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.19E+01	5.28E-05	3.52E-01	3.26E-01	1.20E-01	2.82E-04	1.53E+00	8.63E-03	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	2.19E+01	5.28E-05	3.52E-01	3.26E-01	1.20E-01	2.82E-04	1.53E+00	8.63E-03	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.45E+02	5.21E-03	3.00E+00	3.19E+01	6.63E-01	2.77E-02	1.33E+01	4.98E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	5.86E+01	0.00E+00	-2.73E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.05E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.04E+02	5.21E-03	2.69E-01	3.19E+01	6.63E-01	2.77E-02	1.33E+01	-6.00E+01	-9.47E+01
Use of secondary material	SM	kg	1.13E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.72E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.43E-01	6.20E-07	2.98E-04	3.67E-03	1.14E-04	3.30E-06	1.90E-03	2.82E-04	-2.62E-03

Table 480 | Waste generated per m² of Solaris Corro® 0.5mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.13E-04	6.84E-09	-4.44E-06	1.08E-05	4.50E-07	3.64E-08	7.18E-06	7.09E-07	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.42E+00	3.59E-05	2.85E-01	6.54E-02	8.58E-03	1.91E-04	2.10E-01	2.07E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.81E-03	2.72E-11	1.82E-05	6.94E-06	4.39E-09	1.45E-10	7.81E-08	2.81E-06	-8.82E-08

Table 481 | Output flows per m² of Solaris Corro[®] 0.5mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 482 | Additional environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.09E+01	3.58E-04	1.35E-01	1.68E+00	1.37E-01	1.91E-03	2.05E+00	1.36E-01	-6.22E+00
Particulate matter	PM	disease incidence	2.18E-06	1.89E-11	5.45E-09	8.57E-08	8.88E-09	1.01E-10	1.20E-07	3.30E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.33E-01	1.97E-07	1.86E-02	4.85E-02	3.05E-05	1.05E-06	5.44E-04	2.25E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	3.81E+02	2.80E-03	9.77E-01	7.90E+00	3.79E-01	1.49E-02	6.30E+00	8.60E-01	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	5.89E-08	1.77E-13	5.91E-09	7.57E-10	4.32E-11	9.42E-13	6.17E-10	2.32E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.17E+02	1.79E-03	3.99E-01	5.34E+00	3.50E-01	9.52E-03	5.34E+00	2.69E-01	-1.36E+02
Soil quality	SQP	Pt	4.50E+01	1.35E-03	1.11E+00	6.96E-01	4.26E-01	7.21E-03	5.67E+00	1.07E+00	-1.15E+01

Table 483 | Environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 50mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.11E+01	3.59E-04	1.87E-01	1.72E+00	1.38E-01	1.91E-03	2.06E+00	1.55E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	8.60E-07	4.40E-11	3.69E-08	4.29E-08	2.33E-10	2.34E-10	1.66E-08	4.80E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.32E-01	1.53E-06	4.72E-04	7.45E-03	2.11E-04	8.14E-06	3.21E-03	1.31E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.03E-02	3.49E-07	4.87E-05	1.16E-03	7.30E-05	1.86E-06	1.06E-03	1.38E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.98E-02	1.03E-07	5.65E-05	4.60E-04	4.31E-06	5.47E-07	7.52E-05	2.74E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.73E-04	1.32E-09	2.38E-06	4.06E-06	1.81E-07	7.05E-09	2.82E-06	6.30E-08	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.33E+02	5.22E-03	3.45E+00	2.91E+01	1.55E+00	2.78E-02	2.46E+01	4.69E-01	-1.41E+02

Table 484 | Environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 50mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	4.77E-08	8.19E-15	8.98E-12	3.51E-11	5.02E-12	4.37E-14	6.88E-11	1.43E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	1.84E-15	1.34E-12	8.43E-13	8.52E-13	9.82E-15	1.12E-11	2.28E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.53E+01	9.59E-04	4.82E-01	4.93E-01	1.23E-02	5.11E-03	3.61E-01	3.65E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	5.33E-01	1.97E-07	1.86E-02	4.85E-02	3.06E-05	1.05E-06	5.45E-04	2.25E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.64E-02	3.58E-07	1.25E-04	9.55E-04	7.30E-05	1.91E-06	1.05E-03	4.05E-05	-7.93E-03
Resource depletion - water	RDW	m ³	2.17E-01	1.76E-06	1.30E-03	8.67E-03	9.97E-04	9.36E-06	1.36E-02	6.46E-04	-7.16E-03

Solaris Corro® 0.5mm steel - 75mm

Table 485 | Environmental impacts per m² of Solaris Corro® 0.5mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.41E+01	3.86E-04	7.75E-02	1.78E+00	1.39E-01	2.01E-03	2.08E+00	2.20E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-2.95E-01	1.65E-08	1.62E-01	2.94E-03	4.85E-04	8.61E-08	6.35E-03	1.46E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.57E-03	3.20E-09	6.44E-05	5.63E-06	2.87E-08	1.66E-08	7.86E-07	2.50E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.38E+01	3.86E-04	2.40E-01	1.78E+00	1.40E-01	2.01E-03	2.09E+00	2.20E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	9.93E-07	5.87E-11	4.16E-08	5.04E-08	2.66E-10	3.06E-10	2.03E-08	7.16E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.79E-01	3.04E-06	1.31E-03	9.09E-03	1.02E-03	1.58E-05	1.37E-02	2.06E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.72E-03	1.34E-08	-3.51E-05	1.68E-04	5.50E-06	6.96E-08	7.91E-05	3.53E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	4.15E-02	8.71E-07	1.91E-04	1.55E-03	1.51E-04	4.54E-06	2.20E-03	3.98E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.27E-01	9.54E-06	2.11E-03	1.32E-02	1.62E-03	4.97E-05	2.37E-02	7.49E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.37E-01	2.36E-06	4.13E-04	3.85E-03	4.26E-04	1.23E-05	6.14E-03	2.61E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.76E-04	1.40E-09	2.79E-06	4.06E-06	1.81E-07	7.28E-09	2.82E-06	7.57E-08	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.56E+02	5.49E-03	-1.51E+00	3.19E+01	6.63E-01	2.86E-02	1.33E+01	5.91E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	1.21E+01	1.14E-04	8.33E-01	3.47E+01	2.28E-02	5.96E-04	1.21E+00	2.38E-02	-5.12E+01

Table 486 | Resource use per m² of Solaris Corro® 0.5mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.40E+01	5.58E-05	4.32E-01	3.26E-01	1.20E-01	2.90E-04	1.53E+00	1.04E-02	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.40E+01	5.58E-05	4.32E-01	3.26E-01	1.20E-01	2.90E-04	1.53E+00	1.04E-02	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.82E+02	5.49E-03	2.69E+00	3.19E+01	6.63E-01	2.86E-02	1.33E+01	5.91E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	7.38E+01	0.00E+00	-4.71E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.42E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.55E+02	5.49E-03	-2.02E+00	3.19E+01	6.63E-01	2.86E-02	1.33E+01	-7.36E+01	-9.47E+01
Use of secondary material	SM	kg	1.13E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.72E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.60E-01	6.54E-07	1.21E-04	3.67E-03	1.14E-04	3.41E-06	1.90E-03	3.34E-04	-2.62E-03

Table 487 | Waste generated per m² of Solaris Corro® 0.5mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.19E-04	7.22E-09	-1.13E-05	1.08E-05	4.50E-07	3.76E-08	7.18E-06	8.41E-07	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.49E+00	3.79E-05	4.45E-01	6.54E-02	8.58E-03	1.97E-04	2.10E-01	2.41E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.82E-03	2.87E-11	2.03E-05	6.94E-06	4.39E-09	1.50E-10	7.81E-08	3.32E-06	-8.82E-08

Table 488 | Output flows per m² of Solaris Corro[®] 0.5mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 489 | Additional environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.24E+01	3.78E-04	8.24E-02	1.68E+00	1.37E-01	1.97E-03	2.05E+00	1.66E-01	-6.22E+00
Particulate matter	PM	disease incidence	2.25E-06	2.00E-11	-8.27E-10	8.57E-08	8.88E-09	1.04E-10	1.20E-07	3.92E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.47E-01	2.08E-07	2.33E-02	4.85E-02	3.05E-05	1.08E-06	5.44E-04	2.67E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	3.96E+02	2.95E-03	-5.91E-01	7.90E+00	3.79E-01	1.54E-02	6.30E+00	1.04E+00	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.31E-08	1.87E-13	8.82E-09	7.57E-10	4.32E-11	9.72E-13	6.17E-10	2.80E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.32E+02	1.88E-03	-1.13E+00	5.34E+00	3.50E-01	9.82E-03	5.34E+00	3.22E-01	-1.36E+02
Soil quality	SQP	Pt	5.71E+01	1.43E-03	1.21E+00	6.96E-01	4.26E-01	7.44E-03	5.67E+00	1.27E+00	-1.15E+01

Table 490 | Environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 75mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.26E+01	3.79E-04	1.71E-01	1.72E+00	1.38E-01	1.97E-03	2.06E+00	1.89E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	9.15E-07	4.64E-11	3.61E-08	4.29E-08	2.33E-10	2.42E-10	1.66E-08	5.68E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.37E-01	1.61E-06	3.39E-04	7.45E-03	2.11E-04	8.40E-06	3.21E-03	1.56E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.10E-02	3.68E-07	-3.45E-05	1.16E-03	7.30E-05	1.92E-06	1.06E-03	1.69E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.01E-02	1.08E-07	2.81E-05	4.60E-04	4.31E-06	5.65E-07	7.52E-05	3.34E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.76E-04	1.40E-09	2.79E-06	4.06E-06	1.81E-07	7.28E-09	2.82E-06	7.58E-08	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.67E+02	5.51E-03	2.91E+00	2.91E+01	1.55E+00	2.87E-02	2.46E+01	5.57E-01	-1.41E+02

Table 491 | Environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 75mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	4.90E-08	8.65E-15	7.56E-12	3.51E-11	5.02E-12	4.50E-14	6.88E-11	1.71E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	1.94E-15	1.48E-12	8.43E-13	8.52E-13	1.01E-14	1.12E-11	2.70E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.66E+01	1.01E-03	4.95E-01	4.93E-01	1.23E-02	5.27E-03	3.61E-01	4.24E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	5.47E-01	2.08E-07	2.33E-02	4.85E-02	3.06E-05	1.08E-06	5.45E-04	2.67E-03	-6.12E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.72E-02	3.78E-07	4.28E-05	9.55E-04	7.30E-05	1.97E-06	1.05E-03	4.83E-05	-7.93E-03
WSI	WSI	m ³ equiv.	2.55E-01	1.85E-06	8.37E-04	8.67E-03	9.97E-04	9.66E-06	1.36E-02	7.64E-04	-7.16E-03

Solaris Corro® 0.5mm steel - 100mm

Table 492 | Environmental impacts per m² of Solaris Corro® 0.5mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.54E+01	3.00E-04	8.02E-02	1.78E+00	1.39E-01	2.07E-03	2.08E+00	2.60E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-2.81E-01	1.28E-08	1.59E-01	2.94E-03	4.85E-04	8.88E-08	6.35E-03	1.72E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.58E-03	2.48E-09	6.41E-05	5.63E-06	2.87E-08	1.72E-08	7.86E-07	2.91E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.51E+01	3.00E-04	2.39E-01	1.78E+00	1.40E-01	2.07E-03	2.09E+00	2.60E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	1.01E-06	4.56E-11	4.16E-08	5.04E-08	2.66E-10	3.15E-10	2.03E-08	8.26E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.83E-01	2.36E-06	1.31E-03	9.09E-03	1.02E-03	1.63E-05	1.37E-02	2.38E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.75E-03	1.04E-08	-3.39E-05	1.68E-04	5.50E-06	7.17E-08	7.91E-05	4.13E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	4.21E-02	6.77E-07	1.92E-04	1.55E-03	1.51E-04	4.67E-06	2.20E-03	4.70E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.34E-01	7.42E-06	2.12E-03	1.32E-02	1.62E-03	5.12E-05	2.37E-02	8.67E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.40E-01	1.83E-06	4.22E-04	3.85E-03	4.26E-04	1.27E-05	6.14E-03	3.03E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.76E-04	1.09E-09	2.77E-06	4.06E-06	1.81E-07	7.50E-09	2.82E-06	8.84E-08	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.98E+02	4.27E-03	-1.41E+00	3.19E+01	6.63E-01	2.95E-02	1.33E+01	6.83E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	1.27E+01	8.89E-05	8.18E-01	3.47E+01	2.28E-02	6.14E-04	1.21E+00	2.76E-02	-5.12E+01

Table 493 | Resource use per m² of Solaris Corro® 0.5mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.42E+01	4.33E-05	4.28E-01	3.26E-01	1.20E-01	2.99E-04	1.53E+00	1.22E-02	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.42E+01	4.33E-05	4.28E-01	3.26E-01	1.20E-01	2.99E-04	1.53E+00	1.22E-02	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.11E+02	4.27E-03	2.70E+00	3.19E+01	6.63E-01	2.95E-02	1.33E+01	6.83E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	8.70E+01	0.00E+00	-4.62E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.78E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.98E+02	4.27E-03	-1.91E+00	3.19E+01	6.63E-01	2.95E-02	1.33E+01	-8.71E+01	-9.47E+01
Use of secondary material	SM	kg	1.13E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.72E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.73E-01	5.08E-07	1.29E-04	3.67E-03	1.14E-04	3.51E-06	1.90E-03	3.86E-04	-2.62E-03

Table 494 | Waste generated per m² of Solaris Corro® 0.5mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.20E-04	5.61E-09	-1.10E-05	1.08E-05	4.50E-07	3.87E-08	7.18E-06	9.73E-07	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.51E+00	2.95E-05	4.38E-01	6.54E-02	8.58E-03	2.03E-04	2.10E-01	2.75E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.82E-03	2.23E-11	2.02E-05	6.94E-06	4.39E-09	1.54E-10	7.81E-08	3.83E-06	-8.82E-08

Table 495 | Output flows per m² of Solaris Corro[®] 0.5mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 496 | Additional environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.35E+01	2.93E-04	8.50E-02	1.68E+00	1.37E-01	2.03E-03	2.05E+00	1.97E-01	-6.22E+00
Particulate matter	PM	disease incidence	2.30E-06	1.55E-11	-5.28E-10	8.57E-08	8.88E-09	1.07E-10	1.20E-07	4.53E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.47E-01	1.61E-07	2.31E-02	4.85E-02	3.05E-05	1.12E-06	5.44E-04	3.10E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	4.03E+02	2.29E-03	-5.16E-01	7.90E+00	3.79E-01	1.58E-02	6.30E+00	1.22E+00	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.36E-08	1.45E-13	8.68E-09	7.57E-10	4.32E-11	1.00E-12	6.17E-10	3.28E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.38E+02	1.46E-03	-1.06E+00	5.34E+00	3.50E-01	1.01E-02	5.34E+00	3.75E-01	-1.36E+02
Soil quality	SQP	Pt	5.71E+01	1.11E-03	1.20E+00	6.96E-01	4.26E-01	7.66E-03	5.67E+00	1.47E+00	-1.15E+01

Table 497 | Environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 100mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.38E+01	2.94E-04	1.72E-01	1.72E+00	1.38E-01	2.03E-03	2.06E+00	2.23E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	9.35E-07	3.61E-11	3.62E-08	4.29E-08	2.33E-10	2.49E-10	1.66E-08	6.55E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.40E-01	1.25E-06	3.45E-04	7.45E-03	2.11E-04	8.66E-06	3.21E-03	1.81E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.13E-02	2.86E-07	-3.05E-05	1.16E-03	7.30E-05	1.98E-06	1.06E-03	2.00E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.04E-02	8.42E-08	2.94E-05	4.60E-04	4.31E-06	5.82E-07	7.52E-05	3.94E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.76E-04	1.09E-09	2.77E-06	4.06E-06	1.81E-07	7.50E-09	2.82E-06	8.84E-08	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.93E+02	4.28E-03	2.94E+00	2.91E+01	1.55E+00	2.96E-02	2.46E+01	6.44E-01	-1.41E+02

Table 498 | Environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 100mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	4.90E-08	6.72E-15	7.63E-12	3.51E-11	5.02E-12	4.64E-14	6.88E-11	1.99E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	1.51E-15	1.47E-12	8.43E-13	8.52E-13	1.04E-14	1.12E-11	3.13E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.66E+01	7.86E-04	4.94E-01	4.93E-01	1.23E-02	5.43E-03	3.61E-01	4.82E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	5.48E-01	1.62E-07	2.31E-02	4.85E-02	3.06E-05	1.12E-06	5.45E-04	3.10E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.77E-02	2.93E-07	4.67E-05	9.55E-04	7.30E-05	2.03E-06	1.05E-03	5.60E-05	-7.93E-03
Resource depletion - water	RDW	m ³	2.86E-01	1.44E-06	8.59E-04	8.67E-03	9.97E-04	9.95E-06	1.36E-02	8.83E-04	-7.16E-03

Solaris Corro® 0.5mm steel - 125mm

Table 499 | Environmental impacts per m² of Solaris Corro® 0.5mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.69E+01	6.94E-04	3.84E-02	1.78E+00	1.39E-01	2.13E-03	2.08E+00	2.99E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-3.94E-01	2.97E-08	2.09E-01	2.94E-03	4.85E-04	9.13E-08	6.35E-03	1.98E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.88E-03	5.75E-09	6.74E-05	5.63E-06	2.87E-08	1.76E-08	7.86E-07	3.31E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.65E+01	6.94E-04	2.48E-01	1.78E+00	1.40E-01	2.13E-03	2.09E+00	2.99E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	1.06E-06	1.06E-10	4.14E-08	5.04E-08	2.66E-10	3.24E-10	2.03E-08	9.32E-09	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.88E-01	5.47E-06	1.24E-03	9.09E-03	1.02E-03	1.68E-05	1.37E-02	2.70E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.86E-03	2.40E-08	-5.27E-05	1.68E-04	5.50E-06	7.38E-08	7.91E-05	4.72E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	4.31E-02	1.57E-06	1.79E-04	1.55E-03	1.51E-04	4.81E-06	2.20E-03	5.41E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.44E-01	1.72E-05	1.99E-03	1.32E-02	1.62E-03	5.27E-05	2.37E-02	9.81E-04	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.45E-01	4.24E-06	2.86E-04	3.85E-03	4.26E-04	1.30E-05	6.14E-03	3.44E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.78E-04	2.51E-09	3.08E-06	4.06E-06	1.81E-07	7.72E-09	2.82E-06	1.01E-07	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	7.47E+02	9.88E-03	-2.94E+00	3.19E+01	6.63E-01	3.03E-02	1.33E+01	7.73E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	1.39E+01	2.06E-04	1.06E+00	3.47E+01	2.28E-02	6.32E-04	1.21E+00	3.11E-02	-5.12E+01

Table 500 | Resource use per m² of Solaris Corro® 0.5mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.59E+01	1.00E-04	4.87E-01	3.26E-01	1.20E-01	3.08E-04	1.53E+00	1.39E-02	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.59E+01	1.00E-04	4.87E-01	3.26E-01	1.20E-01	3.08E-04	1.53E+00	1.39E-02	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.46E+02	9.88E-03	2.48E+00	3.19E+01	6.63E-01	3.03E-02	1.33E+01	7.73E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.01E+02	0.00E+00	-6.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.01E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	7.47E+02	9.88E-03	-3.61E+00	3.19E+01	6.63E-01	3.03E-02	1.33E+01	-1.00E+02	-9.47E+01
Use of secondary material	SM	kg	1.13E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.72E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.89E-01	1.18E-06	-1.53E-06	3.67E-03	1.14E-04	3.61E-06	1.90E-03	4.37E-04	-2.62E-03

Table 501 | Waste generated per m² of Solaris Corro® 0.5mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.25E-04	1.30E-08	-1.61E-05	1.08E-05	4.50E-07	3.99E-08	7.18E-06	1.10E-06	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.56E+00	6.82E-05	5.66E-01	6.54E-02	8.58E-03	2.09E-04	2.10E-01	3.09E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.83E-03	5.17E-11	2.17E-05	6.94E-06	4.39E-09	1.59E-10	7.81E-08	4.32E-06	-8.82E-08

Table 502 | Output flows per m² of Solaris Corro[®] 0.5mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 503 | Additional environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.49E+01	6.80E-04	4.61E-02	1.68E+00	1.37E-01	2.09E-03	2.05E+00	2.26E-01	-6.22E+00
Particulate matter	PM	disease incidence	2.37E-06	3.59E-11	-5.17E-09	8.57E-08	8.88E-09	1.10E-10	1.20E-07	5.13E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.58E-01	3.74E-07	2.65E-02	4.85E-02	3.05E-05	1.15E-06	5.44E-04	3.51E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	4.16E+02	5.31E-03	-1.67E+00	7.90E+00	3.79E-01	1.63E-02	6.30E+00	1.40E+00	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.70E-08	3.36E-13	1.08E-08	7.57E-10	4.32E-11	1.03E-12	6.17E-10	3.74E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.51E+02	3.39E-03	-2.19E+00	5.34E+00	3.50E-01	1.04E-02	5.34E+00	4.26E-01	-1.36E+02
Soil quality	SQP	Pt	6.66E+01	2.57E-03	1.28E+00	6.96E-01	4.26E-01	7.89E-03	5.67E+00	1.67E+00	-1.15E+01

Table 504 | Environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 125mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.53E+01	6.81E-04	1.61E-01	1.72E+00	1.38E-01	2.09E-03	2.06E+00	2.57E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	9.82E-07	8.35E-11	3.56E-08	4.29E-08	2.33E-10	2.56E-10	1.66E-08	7.39E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.45E-01	2.90E-06	2.47E-04	7.45E-03	2.11E-04	8.91E-06	3.21E-03	2.06E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.20E-02	6.62E-07	-9.19E-05	1.16E-03	7.30E-05	2.03E-06	1.06E-03	2.30E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.07E-02	1.95E-07	8.44E-06	4.60E-04	4.31E-06	5.99E-07	7.52E-05	4.52E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.78E-04	2.51E-09	3.08E-06	4.06E-06	1.81E-07	7.72E-09	2.82E-06	1.01E-07	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.25E+02	9.92E-03	2.54E+00	2.91E+01	1.55E+00	3.04E-02	2.46E+01	7.29E-01	-1.41E+02

Table 505 | Environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 125mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	5.00E-08	1.56E-14	6.59E-12	3.51E-11	5.02E-12	4.78E-14	6.88E-11	2.26E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	3.50E-15	1.58E-12	8.43E-13	8.52E-13	1.07E-14	1.12E-11	3.54E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.76E+01	1.82E-03	5.04E-01	4.93E-01	1.23E-02	5.59E-03	3.61E-01	5.39E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	5.59E-01	3.74E-07	2.65E-02	4.85E-02	3.06E-05	1.15E-06	5.45E-04	3.51E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.85E-02	6.79E-07	-1.37E-05	9.55E-04	7.30E-05	2.09E-06	1.05E-03	6.35E-05	-7.93E-03
Resource depletion - water	RDW	m ³	3.22E-01	3.34E-06	5.17E-04	8.67E-03	9.97E-04	1.02E-05	1.36E-02	9.98E-04	-7.16E-03

Solaris Corro® 0.5mm steel - 150mm

Table 506 | Environmental impacts per m² of Solaris Corro® 0.5mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.82E+01	3.22E-04	3.84E-02	1.78E+00	1.39E-01	2.19E-03	2.08E+00	3.38E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-3.80E-01	1.38E-08	2.09E-01	2.94E-03	4.85E-04	9.39E-08	6.35E-03	2.24E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.88E-03	2.67E-09	6.74E-05	5.63E-06	2.87E-08	1.82E-08	7.86E-07	3.72E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.78E+01	3.22E-04	2.48E-01	1.78E+00	1.40E-01	2.19E-03	2.09E+00	3.39E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	1.07E-06	4.91E-11	4.14E-08	5.04E-08	2.66E-10	3.34E-10	2.03E-08	1.04E-08	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.93E-01	2.54E-06	1.24E-03	9.09E-03	1.02E-03	1.73E-05	1.37E-02	3.03E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.89E-03	1.12E-08	-5.27E-05	1.68E-04	5.50E-06	7.59E-08	7.91E-05	5.32E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	4.37E-02	7.28E-07	1.79E-04	1.55E-03	1.51E-04	4.95E-06	2.20E-03	6.14E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.51E-01	7.98E-06	1.99E-03	1.32E-02	1.62E-03	5.42E-05	2.37E-02	1.10E-03	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.49E-01	1.97E-06	2.86E-04	3.85E-03	4.26E-04	1.34E-05	6.14E-03	3.87E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.78E-04	1.17E-09	3.08E-06	4.06E-06	1.81E-07	7.94E-09	2.82E-06	1.13E-07	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	7.91E+02	4.59E-03	-2.94E+00	3.19E+01	6.63E-01	3.12E-02	1.33E+01	8.65E-01	-9.47E+01
Water Depletion Potential	WDP	m ³	1.48E+01	9.56E-05	1.06E+00	3.47E+01	2.28E-02	6.50E-04	1.21E+00	3.48E-02	-5.12E+01

Table 507 | Resource use per m² of Solaris Corro® 0.5mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.60E+01	4.66E-05	4.87E-01	3.26E-01	1.20E-01	3.17E-04	1.53E+00	1.57E-02	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.60E+01	4.66E-05	4.87E-01	3.26E-01	1.20E-01	3.17E-04	1.53E+00	1.57E-02	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.76E+02	4.59E-03	2.48E+00	3.19E+01	6.63E-01	3.12E-02	1.33E+01	8.65E-01	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.15E+02	0.00E+00	-6.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.15E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	7.91E+02	4.59E-03	-3.61E+00	3.19E+01	6.63E-01	3.12E-02	1.33E+01	-1.14E+02	-9.47E+01
Use of secondary material	SM	kg	1.13E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.72E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	2.03E-01	5.47E-07	-1.63E-06	3.67E-03	1.14E-04	3.72E-06	1.90E-03	4.88E-04	-2.62E-03

Table 508 | Waste generated per m² of Solaris Corro® 0.5mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.25E-04	6.03E-09	-1.61E-05	1.08E-05	4.50E-07	4.10E-08	7.18E-06	1.23E-06	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.58E+00	3.17E-05	5.66E-01	6.54E-02	8.58E-03	2.15E-04	2.10E-01	3.43E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.83E-03	2.40E-11	2.17E-05	6.94E-06	4.39E-09	1.63E-10	7.81E-08	4.84E-06	-8.82E-08

Table 509 | Output flows per m² of Solaris Corro[®] 0.5mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 510 | Additional environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.60E+01	3.16E-04	4.61E-02	1.68E+00	1.37E-01	2.15E-03	2.05E+00	2.56E-01	-6.22E+00
Particulate matter	PM	disease incidence	2.42E-06	1.67E-11	-5.17E-09	8.57E-08	8.88E-09	1.13E-10	1.20E-07	5.75E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.58E-01	1.74E-07	2.65E-02	4.85E-02	3.05E-05	1.18E-06	5.44E-04	3.93E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	4.23E+02	2.47E-03	-1.67E+00	7.90E+00	3.79E-01	1.68E-02	6.30E+00	1.58E+00	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.74E-08	1.56E-13	1.08E-08	7.57E-10	4.32E-11	1.06E-12	6.17E-10	4.22E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.57E+02	1.58E-03	-2.19E+00	5.34E+00	3.50E-01	1.07E-02	5.34E+00	4.79E-01	-1.36E+02
Soil quality	SQP	Pt	6.66E+01	1.19E-03	1.28E+00	6.96E-01	4.26E-01	8.11E-03	5.67E+00	1.87E+00	-1.15E+01

Table 511 | Environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 150mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.65E+01	3.16E-04	1.61E-01	1.72E+00	1.38E-01	2.15E-03	2.06E+00	2.91E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	1.00E-06	3.88E-11	3.56E-08	4.29E-08	2.33E-10	2.64E-10	1.66E-08	8.26E-09	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.49E-01	1.35E-06	2.47E-04	7.45E-03	2.11E-04	9.17E-06	3.21E-03	2.30E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.23E-02	3.08E-07	-9.20E-05	1.16E-03	7.30E-05	2.09E-06	1.06E-03	2.61E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.09E-02	9.06E-08	8.42E-06	4.60E-04	4.31E-06	6.16E-07	7.52E-05	5.11E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.78E-04	1.17E-09	3.08E-06	4.06E-06	1.81E-07	7.94E-09	2.82E-06	1.13E-07	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.52E+02	4.61E-03	2.54E+00	2.91E+01	1.55E+00	3.13E-02	2.46E+01	8.16E-01	-1.41E+02

Table 512 | Environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 150mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	5.01E-08	7.23E-15	6.59E-12	3.51E-11	5.02E-12	4.91E-14	6.88E-11	2.53E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	1.62E-15	1.58E-12	8.43E-13	8.52E-13	1.10E-14	1.12E-11	3.96E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.76E+01	8.45E-04	5.04E-01	4.93E-01	1.23E-02	5.75E-03	3.61E-01	5.98E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	5.59E-01	1.74E-07	2.65E-02	4.85E-02	3.06E-05	1.18E-06	5.45E-04	3.93E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.89E-02	3.16E-07	-1.37E-05	9.55E-04	7.30E-05	2.15E-06	1.05E-03	7.13E-05	-7.93E-03
Resource depletion - water	RDW	m ³	3.53E-01	1.55E-06	5.16E-04	8.67E-03	9.97E-04	1.05E-05	1.36E-02	1.12E-03	-7.16E-03

Solaris Corro® 0.5mm steel - 200mm

Table 513 | Environmental impacts per m² of Solaris Corro® 0.5mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.91E+01	3.69E-04	-1.45E-02	1.78E+00	1.20E-01	2.31E-03	2.08E+00	4.18E-01	-7.22E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-4.54E-01	1.58E-08	2.49E-01	2.94E-03	2.51E-04	9.92E-08	6.35E-03	2.77E-04	3.23E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	9.12E-03	3.06E-09	1.18E-04	5.63E-06	4.79E-05	1.92E-08	7.86E-07	4.53E-05	-7.54E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.86E+01	3.69E-04	2.35E-01	1.78E+00	1.20E-01	2.31E-03	2.09E+00	4.18E-01	-7.22E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	8.27E-07	5.61E-11	2.37E-07	5.04E-08	1.96E-07	3.52E-10	2.03E-08	1.26E-08	-1.46E-08
Acidification potential	AP	mol H ⁺ eq.	1.91E-01	2.91E-06	1.60E-03	9.09E-03	1.43E-03	1.83E-05	1.37E-02	3.68E-04	-6.59E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.96E-03	1.28E-08	-6.42E-05	1.68E-04	8.97E-06	8.02E-08	7.91E-05	6.51E-06	-1.63E-04
Eutrophication – marine	EP - M	kg N eq.	4.28E-02	8.33E-07	2.01E-04	1.55E-03	1.83E-04	5.23E-06	2.20E-03	7.59E-03	-1.32E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.40E-01	9.13E-06	2.27E-03	1.32E-02	2.01E-03	5.73E-05	2.37E-02	1.34E-03	-1.50E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.50E-01	2.25E-06	5.73E-04	3.85E-03	8.22E-04	1.41E-05	6.14E-03	4.71E-04	-3.58E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.74E-04	1.34E-09	3.31E-06	4.06E-06	1.52E-07	8.39E-09	2.82E-06	1.39E-07	-2.11E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	8.56E+02	5.25E-03	8.08E+00	3.19E+01	1.29E+01	3.30E-02	1.33E+01	1.05E+00	-9.47E+01
Water Depletion Potential	WDP	m ³	1.63E+01	1.09E-04	1.24E+00	3.47E+01	5.79E-03	6.87E-04	1.21E+00	4.22E-02	-5.12E+01

Table 514 | Resource use per m² of Solaris Corro® 0.5mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.73E+01	5.33E-05	4.47E-01	3.26E-01	3.12E-02	3.35E-04	1.53E+00	1.93E-02	-1.04E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	2.73E+01	5.33E-05	4.47E-01	3.26E-01	3.12E-02	3.35E-04	1.53E+00	1.93E-02	-1.04E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	7.13E+02	5.25E-03	1.45E+01	3.19E+01	1.29E+01	3.30E-02	1.33E+01	1.05E+00	-9.47E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.43E+02	0.00E+00	-7.26E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.42E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	8.56E+02	5.25E-03	7.29E+00	3.19E+01	1.29E+01	3.30E-02	1.33E+01	-1.41E+02	-9.47E+01
Use of secondary material	SM	kg	1.13E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.72E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	2.27E-01	6.26E-07	-1.40E-04	3.67E-03	7.94E-05	3.93E-06	1.90E-03	5.92E-04	-2.62E-03

Table 515 | Waste generated per m² of Solaris Corro® 0.5mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	9.61E-05	6.90E-09	1.21E-05	1.08E-05	3.28E-05	4.33E-08	7.18E-06	1.50E-06	-8.55E-06
Non-hazardous waste disposed	NHWD	kg	1.37E+00	3.62E-05	6.59E-01	6.54E-02	6.11E-03	2.28E-04	2.10E-01	4.11E+00	-1.08E+00
Radioactive waste disposed/stored	RWD	kg	1.84E-03	2.75E-11	1.10E-04	6.94E-06	8.69E-05	1.73E-10	7.81E-08	5.86E-06	-8.82E-08

Table 516 | Output flows per m² of Solaris Corro[®] 0.5mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 517 | Additional environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.67E+01	3.61E-04	-6.68E-03	1.68E+00	1.15E-01	2.27E-03	2.05E+00	3.16E-01	-6.22E+00
Particulate matter	PM	disease incidence	2.38E-06	1.91E-11	-1.02E-08	8.57E-08	7.51E-09	1.20E-10	1.20E-07	6.98E-09	-4.50E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.66E-01	1.99E-07	8.35E-02	4.85E-02	5.43E-02	1.25E-06	5.44E-04	4.78E-03	-6.11E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	4.28E+02	2.82E-03	3.36E+00	7.90E+00	6.33E+00	1.77E-02	6.30E+00	1.95E+00	-1.38E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.97E-08	1.79E-13	1.26E-08	7.57E-10	8.35E-11	1.12E-12	6.17E-10	5.18E-11	-2.27E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.66E+02	1.80E-03	9.62E-02	5.34E+00	3.54E+00	1.13E-02	5.34E+00	5.85E-01	-1.36E+02
Soil quality	SQP	Pt	6.74E+01	1.37E-03	2.41E+00	6.96E-01	1.49E+00	8.57E-03	5.67E+00	2.28E+00	-1.15E+01

Table 518 | Environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 200mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.73E+01	3.62E-04	1.31E-01	1.72E+00	1.17E-01	2.27E-03	2.06E+00	3.59E-01	-6.21E+00
Ozone layer depletion	ODP	kg CFC-11 eq	8.26E-07	4.44E-11	1.90E-07	4.29E-08	1.55E-07	2.79E-10	1.66E-08	1.00E-08	-1.17E-08
Acidification potential	AP	kg SO ₂ eq	1.51E-01	1.54E-06	1.18E-03	7.45E-03	1.22E-03	9.68E-06	3.21E-03	2.80E-04	-4.08E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.21E-02	3.52E-07	-1.22E-04	1.16E-03	9.16E-05	2.21E-06	1.06E-03	3.22E-03	-5.62E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	2.10E-02	1.04E-07	3.72E-05	4.60E-04	4.99E-05	6.51E-07	7.52E-05	6.31E-05	-1.48E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.74E-04	1.34E-09	3.31E-06	4.06E-06	1.52E-07	8.39E-09	2.82E-06	1.39E-07	-2.11E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.82E+02	5.27E-03	1.25E+01	2.91E+01	1.19E+01	3.31E-02	2.46E+01	9.91E-01	-1.41E+02

Table 519 | Environmental impacts per m² of Solaris Corro[®] 0.5mm steel - 200mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	5.09E-08	8.27E-15	5.80E-12	3.51E-11	5.05E-12	5.19E-14	6.88E-11	3.09E-12	-3.43E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	1.86E-15	1.37E-12	8.43E-13	5.62E-13	1.17E-14	1.12E-11	4.81E-13	-8.81E-12
Land use	LU	kg C deficit eq.	1.34E+01	9.67E-04	2.61E+00	4.93E-01	2.11E+00	6.07E-03	3.61E-01	7.15E-01	-1.34E+00
Ionising radiation	IR	kBq U235 eq	5.67E-01	1.99E-07	8.36E-02	4.85E-02	5.43E-02	1.25E-06	5.45E-04	4.78E-03	-6.12E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.86E-02	3.61E-07	3.75E-05	9.55E-04	1.72E-04	2.27E-06	1.05E-03	8.67E-05	-7.93E-03
Resource depletion - water	RDW	m ³	4.08E-01	1.77E-06	-5.61E-04	8.67E-03	1.91E-04	1.11E-05	1.36E-02	1.35E-03	-7.16E-03

Solaris Corro® 0.6mm steel - 50mm

Table 520 | Environmental impacts per m² of Solaris Corro® 0.6mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	3.87E+01	3.65E-04	1.34E-01	1.78E+00	1.39E-01	1.77E-03	1.86E+00	1.80E-01	-6.47E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.45E-01	1.57E-08	9.48E-02	2.94E-03	4.85E-04	7.60E-08	5.69E-03	1.20E-04	2.89E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	7.75E-03	3.03E-09	5.99E-05	5.63E-06	2.87E-08	1.47E-08	7.04E-07	2.06E-05	-6.75E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	3.85E+01	3.65E-04	2.29E-01	1.78E+00	1.40E-01	1.77E-03	1.87E+00	1.80E-01	-6.47E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	9.03E-07	5.56E-11	4.20E-08	5.04E-08	2.66E-10	2.70E-10	1.82E-08	5.93E-09	-1.31E-08
Acidification potential	AP	mol H ⁺ eq.	1.58E-01	2.88E-06	1.41E-03	9.09E-03	1.02E-03	1.40E-05	1.23E-02	1.70E-04	-5.91E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.59E-03	1.27E-08	-9.72E-06	1.68E-04	5.50E-06	6.14E-08	7.08E-05	2.90E-06	-1.46E-04
Eutrophication – marine	EP - M	kg N eq.	3.70E-02	8.25E-07	2.10E-04	1.55E-03	1.51E-04	4.00E-06	1.97E-03	3.24E-03	-1.19E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.78E-01	9.04E-06	2.29E-03	1.32E-02	1.62E-03	4.39E-05	2.12E-02	6.19E-04	-1.35E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.20E-01	2.23E-06	5.99E-04	3.85E-03	4.26E-04	1.08E-05	5.50E-03	2.15E-04	-3.20E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.60E-04	1.32E-09	2.38E-06	4.06E-06	1.81E-07	6.42E-09	2.52E-06	6.23E-08	-1.89E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.60E+02	5.21E-03	5.67E-01	3.19E+01	6.63E-01	2.53E-02	1.19E+01	4.89E-01	-8.48E+01
Water Depletion Potential	WDP	m ³	1.00E+01	1.08E-04	5.07E-01	3.47E+01	2.28E-02	5.26E-04	1.09E+00	1.97E-02	-4.58E+01

Table 521 | Resource use per m² of Solaris Corro® 0.6mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.98E+01	5.28E-05	3.52E-01	3.26E-01	1.20E-01	2.56E-04	1.37E+00	8.56E-03	-9.36E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	1.98E+01	5.28E-05	3.52E-01	3.26E-01	1.20E-01	2.56E-04	1.37E+00	8.56E-03	-9.36E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.01E+02	5.21E-03	3.00E+00	3.19E+01	6.63E-01	2.53E-02	1.19E+01	4.89E-01	-8.48E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	5.86E+01	0.00E+00	-2.73E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-6.05E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.59E+02	5.21E-03	2.69E-01	3.19E+01	6.63E-01	2.53E-02	1.19E+01	-6.00E+01	-8.48E+01
Use of secondary material	SM	kg	1.03E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.12E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.35E-01	6.20E-07	2.98E-04	3.67E-03	1.14E-04	3.01E-06	1.70E-03	2.77E-04	-2.35E-03

Table 522 | Waste generated per m² of Solaris Corro® 0.6mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.09E-04	6.84E-09	-4.44E-06	1.08E-05	4.50E-07	3.32E-08	6.43E-06	6.96E-07	-7.66E-06
Non-hazardous waste disposed	NHWD	kg	1.31E+00	3.59E-05	2.85E-01	6.54E-02	8.58E-03	1.74E-04	1.88E-01	2.01E+00	-9.69E-01
Radioactive waste disposed/stored	RWD	kg	1.56E-03	2.72E-11	1.82E-05	6.94E-06	4.39E-09	1.32E-10	7.00E-08	2.75E-06	-7.90E-08

Table 523 | Output flows per m² of Solaris Corro[®] 0.6mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 524 | Additional environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.72E+01	3.58E-04	1.35E-01	1.68E+00	1.37E-01	1.74E-03	1.84E+00	1.36E-01	-5.58E+00
Particulate matter	PM	disease incidence	2.00E-06	1.89E-11	5.45E-09	8.57E-08	8.88E-09	9.18E-11	1.07E-07	3.24E-09	-4.03E-07
Ionising radiation - human health	IRP	kBq U-235 eq	4.90E-01	1.97E-07	1.86E-02	4.85E-02	3.05E-05	9.55E-07	4.88E-04	2.21E-03	-5.48E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	3.79E+02	2.80E-03	9.77E-01	7.90E+00	3.79E-01	1.36E-02	5.64E+00	8.55E-01	-1.23E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	5.88E-08	1.77E-13	5.91E-09	7.57E-10	4.32E-11	8.58E-13	5.53E-10	2.30E-11	-2.04E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.16E+02	1.79E-03	3.99E-01	5.34E+00	3.50E-01	8.66E-03	4.78E+00	2.65E-01	-1.22E+02
Soil quality	SQP	Pt	4.32E+01	1.35E-03	1.11E+00	6.96E-01	4.26E-01	6.56E-03	5.08E+00	1.05E+00	-1.03E+01

Table 525 | Environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 50mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.74E+01	3.59E-04	1.87E-01	1.72E+00	1.38E-01	1.74E-03	1.85E+00	1.55E-01	-5.56E+00
Ozone layer depletion	ODP	kg CFC-11 eq	8.37E-07	4.40E-11	3.69E-08	4.29E-08	2.33E-10	2.13E-10	1.49E-08	4.71E-09	-1.04E-08
Acidification potential	AP	kg SO ₂ eq	1.20E-01	1.53E-06	4.72E-04	7.45E-03	2.11E-04	7.41E-06	2.88E-03	1.29E-04	-3.65E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.90E-02	3.49E-07	4.87E-05	1.16E-03	7.30E-05	1.69E-06	9.50E-04	1.38E-03	-5.03E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.80E-02	1.03E-07	5.65E-05	4.60E-04	4.31E-06	4.98E-07	6.74E-05	2.73E-05	-1.33E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.60E-04	1.32E-09	2.38E-06	4.06E-06	1.81E-07	6.42E-09	2.52E-06	6.23E-08	-1.89E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.90E+02	5.22E-03	3.45E+00	2.91E+01	1.55E+00	2.53E-02	2.21E+01	4.61E-01	-1.27E+02

Table 526 | Environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 50mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	4.77E-08	8.19E-15	8.98E-12	3.51E-11	5.02E-12	3.98E-14	6.16E-11	1.41E-12	-3.07E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	1.84E-15	1.34E-12	8.43E-13	8.52E-13	8.94E-15	9.99E-12	2.24E-13	-7.89E-12
Land use	LU	kg C deficit eq.	1.44E+01	9.59E-04	4.82E-01	4.93E-01	1.23E-02	4.65E-03	3.23E-01	3.54E-01	-1.20E+00
Ionising radiation	IR	kBq U235 eq	4.91E-01	1.97E-07	1.86E-02	4.85E-02	3.06E-05	9.56E-07	4.88E-04	2.21E-03	-5.48E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.54E-02	3.58E-07	1.25E-04	9.55E-04	7.30E-05	1.74E-06	9.42E-04	3.99E-05	-7.10E-03
Resource depletion - water	RDW	m ³	2.14E-01	1.76E-06	1.30E-03	8.67E-03	9.97E-04	8.52E-06	1.22E-02	6.33E-04	-6.42E-03

Solaris Corro® 0.6mm steel - 75mm

Table 527 | Environmental impacts per m² of Solaris Corro® 0.6mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.03E+01	3.86E-04	7.75E-02	1.78E+00	1.39E-01	1.83E-03	1.86E+00	2.20E-01	-6.47E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-2.94E-01	1.65E-08	1.62E-01	2.94E-03	4.85E-04	7.86E-08	5.69E-03	1.46E-04	2.89E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.14E-03	3.20E-09	6.44E-05	5.63E-06	2.87E-08	1.52E-08	7.04E-07	2.47E-05	-6.75E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.00E+01	3.86E-04	2.40E-01	1.78E+00	1.40E-01	1.83E-03	1.87E+00	2.20E-01	-6.47E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	9.64E-07	5.87E-11	4.16E-08	5.04E-08	2.66E-10	2.79E-10	1.82E-08	7.04E-09	-1.31E-08
Acidification potential	AP	mol H ⁺ eq.	1.64E-01	3.04E-06	1.31E-03	9.09E-03	1.02E-03	1.45E-05	1.23E-02	2.03E-04	-5.91E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.71E-03	1.34E-08	-3.51E-05	1.68E-04	5.50E-06	6.35E-08	7.08E-05	3.51E-06	-1.46E-04
Eutrophication – marine	EP - M	kg N eq.	3.81E-02	8.71E-07	1.91E-04	1.55E-03	1.51E-04	4.14E-06	1.97E-03	3.97E-03	-1.19E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.89E-01	9.54E-06	2.11E-03	1.32E-02	1.62E-03	4.54E-05	2.12E-02	7.38E-04	-1.35E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.25E-01	2.36E-06	4.13E-04	3.85E-03	4.26E-04	1.12E-05	5.50E-03	2.58E-04	-3.20E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.63E-04	1.40E-09	2.79E-06	4.06E-06	1.81E-07	6.65E-09	2.52E-06	7.50E-08	-1.89E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.12E+02	5.49E-03	-1.51E+00	3.19E+01	6.63E-01	2.61E-02	1.19E+01	5.81E-01	-8.48E+01
Water Depletion Potential	WDP	m ³	1.17E+01	1.14E-04	8.33E-01	3.47E+01	2.28E-02	5.44E-04	1.09E+00	2.35E-02	-4.58E+01

Table 528 | Resource use per m² of Solaris Corro® 0.6mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.20E+01	5.58E-05	4.32E-01	3.26E-01	1.20E-01	2.65E-04	1.37E+00	1.03E-02	-9.36E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.20E+01	5.58E-05	4.32E-01	3.26E-01	1.20E-01	2.65E-04	1.37E+00	1.03E-02	-9.36E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.38E+02	5.49E-03	2.69E+00	3.19E+01	6.63E-01	2.61E-02	1.19E+01	5.81E-01	-8.48E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	7.38E+01	0.00E+00	-4.71E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.42E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.11E+02	5.49E-03	-2.02E+00	3.19E+01	6.63E-01	2.61E-02	1.19E+01	-7.36E+01	-8.48E+01
Use of secondary material	SM	kg	1.03E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.12E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.52E-01	6.54E-07	1.21E-04	3.67E-03	1.14E-04	3.11E-06	1.70E-03	3.29E-04	-2.35E-03

Table 529 | Waste generated per m² of Solaris Corro® 0.6mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.16E-04	7.22E-09	-1.13E-05	1.08E-05	4.50E-07	3.43E-08	6.43E-06	8.28E-07	-7.66E-06
Non-hazardous waste disposed	NHWD	kg	1.38E+00	3.79E-05	4.45E-01	6.54E-02	8.58E-03	1.80E-04	1.88E-01	2.36E+00	-9.69E-01
Radioactive waste disposed/stored	RWD	kg	1.57E-03	2.87E-11	2.03E-05	6.94E-06	4.39E-09	1.37E-10	7.00E-08	3.26E-06	-7.90E-08

Table 530 | Output flows per m² of Solaris Corro[®] 0.6mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 531 | Additional environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.87E+01	3.78E-04	8.24E-02	1.68E+00	1.37E-01	1.80E-03	1.84E+00	1.66E-01	-5.58E+00
Particulate matter	PM	disease incidence	2.07E-06	2.00E-11	-8.27E-10	8.57E-08	8.88E-09	9.50E-11	1.07E-07	3.86E-09	-4.03E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.04E-01	2.08E-07	2.33E-02	4.85E-02	3.05E-05	9.88E-07	4.88E-04	2.63E-03	-5.48E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	3.95E+02	2.95E-03	-5.91E-01	7.90E+00	3.79E-01	1.40E-02	5.64E+00	1.04E+00	-1.23E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.30E-08	1.87E-13	8.82E-09	7.57E-10	4.32E-11	8.88E-13	5.53E-10	2.78E-11	-2.04E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.31E+02	1.88E-03	-1.13E+00	5.34E+00	3.50E-01	8.97E-03	4.78E+00	3.18E-01	-1.22E+02
Soil quality	SQP	Pt	5.54E+01	1.43E-03	1.21E+00	6.96E-01	4.26E-01	6.79E-03	5.08E+00	1.25E+00	-1.03E+01

Table 532 | Environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 75mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.89E+01	3.79E-04	1.71E-01	1.72E+00	1.38E-01	1.80E-03	1.85E+00	1.89E-01	-5.56E+00
Ozone layer depletion	ODP	kg CFC-11 eq	8.92E-07	4.64E-11	3.61E-08	4.29E-08	2.33E-10	2.21E-10	1.49E-08	5.58E-09	-1.04E-08
Acidification potential	AP	kg SO ₂ eq	1.25E-01	1.61E-06	3.39E-04	7.45E-03	2.11E-04	7.67E-06	2.88E-03	1.54E-04	-3.65E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.98E-02	3.68E-07	-3.45E-05	1.16E-03	7.30E-05	1.75E-06	9.50E-04	1.69E-03	-5.03E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.84E-02	1.08E-07	2.81E-05	4.60E-04	4.31E-06	5.16E-07	6.74E-05	3.33E-05	-1.33E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.63E-04	1.40E-09	2.79E-06	4.06E-06	1.81E-07	6.65E-09	2.52E-06	7.51E-08	-1.89E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.24E+02	5.51E-03	2.91E+00	2.91E+01	1.55E+00	2.62E-02	2.21E+01	5.48E-01	-1.27E+02

Table 533 | Environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 75mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	4.89E-08	8.65E-15	7.56E-12	3.51E-11	5.02E-12	4.11E-14	6.16E-11	1.69E-12	-3.07E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	1.94E-15	1.48E-12	8.43E-13	8.52E-13	9.25E-15	9.99E-12	2.66E-13	-7.89E-12
Land use	LU	kg C deficit eq.	1.57E+01	1.01E-03	4.95E-01	4.93E-01	1.23E-02	4.81E-03	3.23E-01	4.13E-01	-1.20E+00
Ionising radiation	IR	kBq U235 eq	5.05E-01	2.08E-07	2.33E-02	4.85E-02	3.06E-05	9.89E-07	4.88E-04	2.64E-03	-5.48E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.62E-02	3.78E-07	4.28E-05	9.55E-04	7.30E-05	1.80E-06	9.42E-04	4.76E-05	-7.10E-03
Resource depletion - water	RDW	m ³	2.52E-01	1.85E-06	8.37E-04	8.67E-03	9.97E-04	8.82E-06	1.22E-02	7.52E-04	-6.42E-03

Solaris Corro® 0.6mm steel - 100mm

Table 534 | Environmental impacts per m² of Solaris Corro® 0.6mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.16E+01	3.00E-04	8.02E-02	1.78E+00	1.39E-01	1.90E-03	1.86E+00	2.60E-01	-6.47E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-2.80E-01	1.28E-08	1.59E-01	2.94E-03	4.85E-04	8.13E-08	5.69E-03	1.72E-04	2.89E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.14E-03	2.48E-09	6.41E-05	5.63E-06	2.87E-08	1.57E-08	7.04E-07	2.88E-05	-6.75E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.13E+01	3.00E-04	2.39E-01	1.78E+00	1.40E-01	1.90E-03	1.87E+00	2.60E-01	-6.47E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	9.78E-07	4.56E-11	4.16E-08	5.04E-08	2.66E-10	2.89E-10	1.82E-08	8.13E-09	-1.31E-08
Acidification potential	AP	mol H ⁺ eq.	1.68E-01	2.36E-06	1.31E-03	9.09E-03	1.02E-03	1.50E-05	1.23E-02	2.35E-04	-5.91E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.75E-03	1.04E-08	-3.39E-05	1.68E-04	5.50E-06	6.57E-08	7.08E-05	4.11E-06	-1.46E-04
Eutrophication – marine	EP - M	kg N eq.	3.87E-02	6.77E-07	1.92E-04	1.55E-03	1.51E-04	4.28E-06	1.97E-03	4.70E-03	-1.19E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.96E-01	7.42E-06	2.12E-03	1.32E-02	1.62E-03	4.69E-05	2.12E-02	8.56E-04	-1.35E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.29E-01	1.83E-06	4.22E-04	3.85E-03	4.26E-04	1.16E-05	5.50E-03	3.00E-04	-3.20E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.63E-04	1.09E-09	2.77E-06	4.06E-06	1.81E-07	6.87E-09	2.52E-06	8.77E-08	-1.89E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	6.54E+02	4.27E-03	-1.41E+00	3.19E+01	6.63E-01	2.70E-02	1.19E+01	6.74E-01	-8.48E+01
Water Depletion Potential	WDP	m ³	1.22E+01	8.89E-05	8.18E-01	3.47E+01	2.28E-02	5.63E-04	1.09E+00	2.72E-02	-4.58E+01

Table 535 | Resource use per m² of Solaris Corro® 0.6mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.22E+01	4.33E-05	4.28E-01	3.26E-01	1.20E-01	2.74E-04	1.37E+00	1.21E-02	-9.36E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.22E+01	4.33E-05	4.28E-01	3.26E-01	1.20E-01	2.74E-04	1.37E+00	1.21E-02	-9.36E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.67E+02	4.27E-03	2.70E+00	3.19E+01	6.63E-01	2.70E-02	1.19E+01	6.74E-01	-8.48E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	8.70E+01	0.00E+00	-4.62E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.78E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	6.54E+02	4.27E-03	-1.91E+00	3.19E+01	6.63E-01	2.70E-02	1.19E+01	-8.71E+01	-8.48E+01
Use of secondary material	SM	kg	1.03E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.12E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.65E-01	5.08E-07	1.29E-04	3.67E-03	1.14E-04	3.22E-06	1.70E-03	3.81E-04	-2.35E-03

Table 536 | Waste generated per m² of Solaris Corro® 0.6mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.16E-04	5.61E-09	-1.10E-05	1.08E-05	4.50E-07	3.55E-08	6.43E-06	9.60E-07	-7.66E-06
Non-hazardous waste disposed	NHWD	kg	1.40E+00	2.95E-05	4.38E-01	6.54E-02	8.58E-03	1.86E-04	1.88E-01	2.70E+00	-9.69E-01
Radioactive waste disposed/stored	RWD	kg	1.57E-03	2.23E-11	2.02E-05	6.94E-06	4.39E-09	1.41E-10	7.00E-08	3.77E-06	-7.90E-08

Table 537 | Output flows per m² of Solaris Corro[®] 0.6mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 538 | Additional environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 100mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.98E+01	2.93E-04	8.50E-02	1.68E+00	1.37E-01	1.86E-03	1.84E+00	1.96E-01	-5.58E+00
Particulate matter	PM	disease incidence	2.12E-06	1.55E-11	-5.28E-10	8.57E-08	8.88E-09	9.82E-11	1.07E-07	4.48E-09	-4.03E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.04E-01	1.61E-07	2.31E-02	4.85E-02	3.05E-05	1.02E-06	4.88E-04	3.06E-03	-5.48E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	4.01E+02	2.29E-03	-5.16E-01	7.90E+00	3.79E-01	1.45E-02	5.64E+00	1.22E+00	-1.23E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.35E-08	1.45E-13	8.68E-09	7.57E-10	4.32E-11	9.18E-13	5.53E-10	3.26E-11	-2.04E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.37E+02	1.46E-03	-1.06E+00	5.34E+00	3.50E-01	9.27E-03	4.78E+00	3.71E-01	-1.22E+02
Soil quality	SQP	Pt	5.54E+01	1.11E-03	1.20E+00	6.96E-01	4.26E-01	7.02E-03	5.08E+00	1.46E+00	-1.03E+01

Table 539 | Environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 100mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.01E+01	2.94E-04	1.72E-01	1.72E+00	1.38E-01	1.86E-03	1.85E+00	2.23E-01	-5.56E+00
Ozone layer depletion	ODP	kg CFC-11 eq	9.12E-07	3.61E-11	3.62E-08	4.29E-08	2.33E-10	2.28E-10	1.49E-08	6.45E-09	-1.04E-08
Acidification potential	AP	kg SO ₂ eq	1.29E-01	1.25E-06	3.45E-04	7.45E-03	2.11E-04	7.93E-06	2.88E-03	1.79E-04	-3.65E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.01E-02	2.86E-07	-3.05E-05	1.16E-03	7.30E-05	1.81E-06	9.50E-04	2.00E-03	-5.03E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.86E-02	8.42E-08	2.94E-05	4.60E-04	4.31E-06	5.33E-07	6.74E-05	3.93E-05	-1.33E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.63E-04	1.09E-09	2.77E-06	4.06E-06	1.81E-07	6.87E-09	2.52E-06	8.78E-08	-1.89E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.50E+02	4.28E-03	2.94E+00	2.91E+01	1.55E+00	2.71E-02	2.21E+01	6.36E-01	-1.27E+02

Table 540 | Environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 100mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	4.90E-08	6.72E-15	7.63E-12	3.51E-11	5.02E-12	4.25E-14	6.16E-11	1.97E-12	-3.07E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	1.51E-15	1.47E-12	8.43E-13	8.52E-13	9.56E-15	9.99E-12	3.09E-13	-7.89E-12
Land use	LU	kg C deficit eq.	1.57E+01	7.86E-04	4.94E-01	4.93E-01	1.23E-02	4.97E-03	3.23E-01	4.71E-01	-1.20E+00
Ionising radiation	IR	kBq U235 eq	5.05E-01	1.62E-07	2.31E-02	4.85E-02	3.06E-05	1.02E-06	4.88E-04	3.06E-03	-5.48E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.67E-02	2.93E-07	4.67E-05	9.55E-04	7.30E-05	1.86E-06	9.42E-04	5.54E-05	-7.10E-03
Resource depletion - water	RDW	m ³	2.82E-01	1.44E-06	8.59E-04	8.67E-03	9.97E-04	9.11E-06	1.22E-02	8.70E-04	-6.42E-03

Solaris Corro® 0.6mm steel - 125mm

Table 541 | Environmental impacts per m² of Solaris Corro® 0.6mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.31E+01	6.94E-04	3.84E-02	1.78E+00	1.39E-01	1.96E-03	1.86E+00	2.98E-01	-6.47E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-3.93E-01	2.97E-08	2.09E-01	2.94E-03	4.85E-04	8.38E-08	5.69E-03	1.98E-04	2.89E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.44E-03	5.75E-09	6.74E-05	5.63E-06	2.87E-08	1.62E-08	7.04E-07	3.28E-05	-6.75E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.27E+01	6.94E-04	2.48E-01	1.78E+00	1.40E-01	1.96E-03	1.87E+00	2.98E-01	-6.47E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	1.03E-06	1.06E-10	4.14E-08	5.04E-08	2.66E-10	2.98E-10	1.82E-08	9.20E-09	-1.31E-08
Acidification potential	AP	mol H ⁺ eq.	1.74E-01	5.47E-06	1.24E-03	9.09E-03	1.02E-03	1.54E-05	1.23E-02	2.67E-04	-5.91E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.85E-03	2.40E-08	-5.27E-05	1.68E-04	5.50E-06	6.77E-08	7.08E-05	4.69E-06	-1.46E-04
Eutrophication – marine	EP - M	kg N eq.	3.97E-02	1.57E-06	1.79E-04	1.55E-03	1.51E-04	4.42E-06	1.97E-03	5.41E-03	-1.19E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.06E-01	1.72E-05	1.99E-03	1.32E-02	1.62E-03	4.84E-05	2.12E-02	9.71E-04	-1.35E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.34E-01	4.24E-06	2.86E-04	3.85E-03	4.26E-04	1.20E-05	5.50E-03	3.41E-04	-3.20E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.65E-04	2.51E-09	3.08E-06	4.06E-06	1.81E-07	7.09E-09	2.52E-06	1.00E-07	-1.89E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	7.03E+02	9.88E-03	-2.94E+00	3.19E+01	6.63E-01	2.79E-02	1.19E+01	7.64E-01	-8.48E+01
Water Depletion Potential	WDP	m ³	1.35E+01	2.06E-04	1.06E+00	3.47E+01	2.28E-02	5.80E-04	1.09E+00	3.08E-02	-4.58E+01

Table 542 | Resource use per m² of Solaris Corro® 0.6mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.39E+01	1.00E-04	4.87E-01	3.26E-01	1.20E-01	2.83E-04	1.37E+00	1.39E-02	-9.36E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.39E+01	1.00E-04	4.87E-01	3.26E-01	1.20E-01	2.83E-04	1.37E+00	1.39E-02	-9.36E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.01E+02	9.88E-03	2.48E+00	3.19E+01	6.63E-01	2.79E-02	1.19E+01	7.64E-01	-8.48E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.01E+02	0.00E+00	-6.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.01E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	7.03E+02	9.88E-03	-3.61E+00	3.19E+01	6.63E-01	2.79E-02	1.19E+01	-1.00E+02	-8.48E+01
Use of secondary material	SM	kg	1.03E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.12E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.81E-01	1.18E-06	-1.53E-06	3.67E-03	1.14E-04	3.32E-06	1.70E-03	4.31E-04	-2.35E-03

Table 543 | Waste generated per m² of Solaris Corro® 0.6mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.22E-04	1.30E-08	-1.61E-05	1.08E-05	4.50E-07	3.66E-08	6.43E-06	1.09E-06	-7.66E-06
Non-hazardous waste disposed	NHWD	kg	1.45E+00	6.82E-05	5.66E-01	6.54E-02	8.58E-03	1.92E-04	1.88E-01	3.03E+00	-9.69E-01
Radioactive waste disposed/stored	RWD	kg	1.58E-03	5.17E-11	2.17E-05	6.94E-06	4.39E-09	1.46E-10	7.00E-08	4.27E-06	-7.90E-08

Table 544 | Output flows per m² of Solaris Corro[®] 0.6mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 545 | Additional environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 125mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.12E+01	6.80E-04	4.61E-02	1.68E+00	1.37E-01	1.92E-03	1.84E+00	2.25E-01	-5.58E+00
Particulate matter	PM	disease incidence	2.19E-06	3.59E-11	-5.17E-09	8.57E-08	8.88E-09	1.01E-10	1.07E-07	5.08E-09	-4.03E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.15E-01	3.74E-07	2.65E-02	4.85E-02	3.05E-05	1.05E-06	4.88E-04	3.47E-03	-5.48E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	4.15E+02	5.31E-03	-1.67E+00	7.90E+00	3.79E-01	1.50E-02	5.64E+00	1.40E+00	-1.23E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.69E-08	3.36E-13	1.08E-08	7.57E-10	4.32E-11	9.47E-13	5.53E-10	3.72E-11	-2.04E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.50E+02	3.39E-03	-2.19E+00	5.34E+00	3.50E-01	9.56E-03	4.78E+00	4.23E-01	-1.22E+02
Soil quality	SQP	Pt	6.48E+01	2.57E-03	1.28E+00	6.96E-01	4.26E-01	7.24E-03	5.08E+00	1.65E+00	-1.03E+01

Table 546 | Environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 125mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.16E+01	6.81E-04	1.61E-01	1.72E+00	1.38E-01	1.92E-03	1.85E+00	2.56E-01	-5.56E+00
Ozone layer depletion	ODP	kg CFC-11 eq	9.59E-07	8.35E-11	3.56E-08	4.29E-08	2.33E-10	2.35E-10	1.49E-08	7.29E-09	-1.04E-08
Acidification potential	AP	kg SO ₂ eq	1.34E-01	2.90E-06	2.47E-04	7.45E-03	2.11E-04	8.18E-06	2.88E-03	2.03E-04	-3.65E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.08E-02	6.62E-07	-9.19E-05	1.16E-03	7.30E-05	1.87E-06	9.50E-04	2.30E-03	-5.03E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.89E-02	1.95E-07	8.44E-06	4.60E-04	4.31E-06	5.50E-07	6.74E-05	4.51E-05	-1.33E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.65E-04	2.51E-09	3.08E-06	4.06E-06	1.81E-07	7.09E-09	2.52E-06	1.00E-07	-1.89E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.82E+02	9.92E-03	2.54E+00	2.91E+01	1.55E+00	2.80E-02	2.21E+01	7.20E-01	-1.27E+02

Table 547 | Environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 125mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	5.00E-08	1.56E-14	6.59E-12	3.51E-11	5.02E-12	4.39E-14	6.16E-11	2.24E-12	-3.07E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	3.50E-15	1.58E-12	8.43E-13	8.52E-13	9.86E-15	9.99E-12	3.50E-13	-7.89E-12
Land use	LU	kg C deficit eq.	1.67E+01	1.82E-03	5.04E-01	4.93E-01	1.23E-02	5.13E-03	3.23E-01	5.28E-01	-1.20E+00
Ionising radiation	IR	kBq U235 eq	5.16E-01	3.74E-07	2.65E-02	4.85E-02	3.06E-05	1.05E-06	4.88E-04	3.47E-03	-5.48E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.74E-02	6.79E-07	-1.37E-05	9.55E-04	7.30E-05	1.91E-06	9.42E-04	6.29E-05	-7.10E-03
Resource depletion - water	RDW	m ³	3.19E-01	3.34E-06	5.17E-04	8.67E-03	9.97E-04	9.40E-06	1.22E-02	9.85E-04	-6.42E-03

Solaris Corro® 0.6mm steel - 150mm

Table 548 | Environmental impacts per m² of Solaris Corro® 0.6mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.44E+01	3.22E-04	3.84E-02	1.78E+00	1.39E-01	2.02E-03	1.86E+00	3.38E-01	-6.47E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-3.79E-01	1.38E-08	2.09E-01	2.94E-03	4.85E-04	8.65E-08	5.69E-03	2.24E-04	2.89E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.45E-03	2.67E-09	6.74E-05	5.63E-06	2.87E-08	1.67E-08	7.04E-07	3.69E-05	-6.75E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.40E+01	3.22E-04	2.48E-01	1.78E+00	1.40E-01	2.02E-03	1.87E+00	3.38E-01	-6.47E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	1.04E-06	4.91E-11	4.14E-08	5.04E-08	2.66E-10	3.07E-10	1.82E-08	1.03E-08	-1.31E-08
Acidification potential	AP	mol H ⁺ eq.	1.78E-01	2.54E-06	1.24E-03	9.09E-03	1.02E-03	1.59E-05	1.23E-02	3.00E-04	-5.91E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.89E-03	1.12E-08	-5.27E-05	1.68E-04	5.50E-06	6.99E-08	7.08E-05	5.29E-06	-1.46E-04
Eutrophication – marine	EP - M	kg N eq.	4.03E-02	7.28E-07	1.79E-04	1.55E-03	1.51E-04	4.56E-06	1.97E-03	6.14E-03	-1.19E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.13E-01	7.98E-06	1.99E-03	1.32E-02	1.62E-03	4.99E-05	2.12E-02	1.09E-03	-1.35E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.38E-01	1.97E-06	2.86E-04	3.85E-03	4.26E-04	1.23E-05	5.50E-03	3.83E-04	-3.20E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.65E-04	1.17E-09	3.08E-06	4.06E-06	1.81E-07	7.31E-09	2.52E-06	1.13E-07	-1.89E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	7.47E+02	4.59E-03	-2.94E+00	3.19E+01	6.63E-01	2.87E-02	1.19E+01	8.56E-01	-8.48E+01
Water Depletion Potential	WDP	m ³	1.44E+01	9.56E-05	1.06E+00	3.47E+01	2.28E-02	5.99E-04	1.09E+00	3.45E-02	-4.58E+01

Table 549 | Resource use per m² of Solaris Corro® 0.6mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.40E+01	4.66E-05	4.87E-01	3.26E-01	1.20E-01	2.92E-04	1.37E+00	1.56E-02	-9.36E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.40E+01	4.66E-05	4.87E-01	3.26E-01	1.20E-01	2.92E-04	1.37E+00	1.56E-02	-9.36E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.32E+02	4.59E-03	2.48E+00	3.19E+01	6.63E-01	2.87E-02	1.19E+01	8.56E-01	-8.48E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.15E+02	0.00E+00	-6.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.15E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	7.47E+02	4.59E-03	-3.61E+00	3.19E+01	6.63E-01	2.87E-02	1.19E+01	-1.14E+02	-8.48E+01
Use of secondary material	SM	kg	1.03E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.12E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.94E-01	5.47E-07	-1.63E-06	3.67E-03	1.14E-04	3.42E-06	1.70E-03	4.83E-04	-2.35E-03

Table 550 | Waste generated per m² of Solaris Corro® 0.6mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.22E-04	6.03E-09	-1.61E-05	1.08E-05	4.50E-07	3.77E-08	6.43E-06	1.22E-06	-7.66E-06
Non-hazardous waste disposed	NHWD	kg	1.47E+00	3.17E-05	5.66E-01	6.54E-02	8.58E-03	1.98E-04	1.88E-01	3.37E+00	-9.69E-01
Radioactive waste disposed/stored	RWD	kg	1.58E-03	2.40E-11	2.17E-05	6.94E-06	4.39E-09	1.50E-10	7.00E-08	4.78E-06	-7.90E-08

Table 551 | Output flows per m² of Solaris Corro[®] 0.6mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 552 | Additional environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 150mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.23E+01	3.16E-04	4.61E-02	1.68E+00	1.37E-01	1.98E-03	1.84E+00	2.55E-01	-5.58E+00
Particulate matter	PM	disease incidence	2.24E-06	1.67E-11	-5.17E-09	8.57E-08	8.88E-09	1.04E-10	1.07E-07	5.69E-09	-4.03E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.16E-01	1.74E-07	2.65E-02	4.85E-02	3.05E-05	1.09E-06	4.88E-04	3.89E-03	-5.48E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	4.22E+02	2.47E-03	-1.67E+00	7.90E+00	3.79E-01	1.54E-02	5.64E+00	1.58E+00	-1.23E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.73E-08	1.56E-13	1.08E-08	7.57E-10	4.32E-11	9.77E-13	5.53E-10	4.20E-11	-2.04E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.56E+02	1.58E-03	-2.19E+00	5.34E+00	3.50E-01	9.86E-03	4.78E+00	4.76E-01	-1.22E+02
Soil quality	SQP	Pt	6.49E+01	1.19E-03	1.28E+00	6.96E-01	4.26E-01	7.47E-03	5.08E+00	1.85E+00	-1.03E+01

Table 553 | Environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 150mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.28E+01	3.16E-04	1.61E-01	1.72E+00	1.38E-01	1.98E-03	1.85E+00	2.90E-01	-5.56E+00
Ozone layer depletion	ODP	kg CFC-11 eq	9.80E-07	3.88E-11	3.56E-08	4.29E-08	2.33E-10	2.43E-10	1.49E-08	8.16E-09	-1.04E-08
Acidification potential	AP	kg SO ₂ eq	1.37E-01	1.35E-06	2.47E-04	7.45E-03	2.11E-04	8.44E-06	2.88E-03	2.28E-04	-3.65E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.11E-02	3.08E-07	-9.20E-05	1.16E-03	7.30E-05	1.93E-06	9.50E-04	2.61E-03	-5.03E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.91E-02	9.06E-08	8.42E-06	4.60E-04	4.31E-06	5.67E-07	6.74E-05	5.11E-05	-1.33E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.65E-04	1.17E-09	3.08E-06	4.06E-06	1.81E-07	7.31E-09	2.52E-06	1.13E-07	-1.89E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.09E+02	4.61E-03	2.54E+00	2.91E+01	1.55E+00	2.88E-02	2.21E+01	8.08E-01	-1.27E+02

Table 554 | Environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 150mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	5.00E-08	7.23E-15	6.59E-12	3.51E-11	5.02E-12	4.52E-14	6.16E-11	2.51E-12	-3.07E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	1.62E-15	1.58E-12	8.43E-13	8.52E-13	1.02E-14	9.99E-12	3.92E-13	-7.89E-12
Land use	LU	kg C deficit eq.	1.67E+01	8.45E-04	5.04E-01	4.93E-01	1.23E-02	5.29E-03	3.23E-01	5.87E-01	-1.20E+00
Ionising radiation	IR	kBq U235 eq	5.16E-01	1.74E-07	2.65E-02	4.85E-02	3.06E-05	1.09E-06	4.88E-04	3.90E-03	-5.48E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.79E-02	3.16E-07	-1.37E-05	9.55E-04	7.30E-05	1.98E-06	9.42E-04	7.06E-05	-7.10E-03
Resource depletion - water	RDW	m ³	3.50E-01	1.55E-06	5.16E-04	8.67E-03	9.97E-04	9.70E-06	1.22E-02	1.10E-03	-6.42E-03

Solaris Corro® 0.6mm steel - 200mm

Table 555 | Environmental impacts per m² of Solaris Corro® 0.6mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.54E+01	3.69E-04	-1.45E-02	1.78E+00	1.20E-01	2.14E-03	1.86E+00	4.18E-01	-6.47E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-4.53E-01	1.58E-08	2.49E-01	2.94E-03	2.51E-04	9.18E-08	5.69E-03	2.76E-04	2.89E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	8.68E-03	3.06E-09	1.18E-04	5.63E-06	4.79E-05	1.77E-08	7.04E-07	4.50E-05	-6.75E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.50E+01	3.69E-04	2.35E-01	1.78E+00	1.20E-01	2.14E-03	1.87E+00	4.18E-01	-6.47E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	8.27E-07	5.61E-11	2.37E-07	5.04E-08	1.96E-07	3.26E-10	1.82E-08	1.25E-08	-1.31E-08
Acidification potential	AP	mol H ⁺ eq.	1.78E-01	2.91E-06	1.60E-03	9.09E-03	1.43E-03	1.69E-05	1.23E-02	3.65E-04	-5.91E-02
Eutrophication – freshwater	EP - F	kg P eq.	1.96E-03	1.28E-08	-6.42E-05	1.68E-04	8.97E-06	7.41E-08	7.08E-05	6.49E-06	-1.46E-04
Eutrophication – marine	EP - M	kg N eq.	3.96E-02	8.33E-07	2.01E-04	1.55E-03	1.83E-04	4.83E-06	1.97E-03	7.59E-03	-1.19E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.05E-01	9.13E-06	2.27E-03	1.32E-02	2.01E-03	5.30E-05	2.12E-02	1.33E-03	-1.35E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.40E-01	2.25E-06	5.73E-04	3.85E-03	8.22E-04	1.31E-05	5.50E-03	4.68E-04	-3.20E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.62E-04	1.34E-09	3.31E-06	4.06E-06	1.52E-07	7.76E-09	2.52E-06	1.38E-07	-1.89E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	8.14E+02	5.25E-03	8.08E+00	3.19E+01	1.29E+01	3.05E-02	1.19E+01	1.04E+00	-8.48E+01
Water Depletion Potential	WDP	m ³	1.60E+01	1.09E-04	1.24E+00	3.47E+01	5.79E-03	6.35E-04	1.09E+00	4.19E-02	-4.58E+01

Table 556 | Resource use per m² of Solaris Corro® 0.6mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.53E+01	5.33E-05	4.47E-01	3.26E-01	3.12E-02	3.10E-04	1.37E+00	1.92E-02	-9.36E-01
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	2.53E+01	5.33E-05	4.47E-01	3.26E-01	3.12E-02	3.10E-04	1.37E+00	1.92E-02	-9.36E-01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	6.71E+02	5.25E-03	1.45E+01	3.19E+01	1.29E+01	3.05E-02	1.19E+01	1.04E+00	-8.48E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	1.43E+02	0.00E+00	-7.26E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.42E+02	0.00E+00
Primary non renewable energy - total	PENRT	MJ	8.14E+02	5.25E-03	7.29E+00	3.19E+01	1.29E+01	3.05E-02	1.19E+01	-1.41E+02	-8.48E+01
Use of secondary material	SM	kg	1.03E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.12E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	2.19E-01	6.26E-07	-1.40E-04	3.67E-03	7.94E-05	3.63E-06	1.70E-03	5.87E-04	-2.35E-03

Table 557 | Waste generated per m² of Solaris Corro® 0.6mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	9.60E-05	6.90E-09	1.21E-05	1.08E-05	3.28E-05	4.01E-08	6.43E-06	1.48E-06	-7.66E-06
Non-hazardous waste disposed	NHWD	kg	1.28E+00	3.62E-05	6.59E-01	6.54E-02	6.11E-03	2.10E-04	1.88E-01	4.05E+00	-9.69E-01
Radioactive waste disposed/stored	RWD	kg	1.58E-03	2.75E-11	1.10E-04	6.94E-06	8.69E-05	1.60E-10	7.00E-08	5.80E-06	-7.90E-08

Table 558 | Output flows per m² of Solaris Corro[®] 0.6mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 559 | Additional environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 200mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.32E+01	3.61E-04	-6.68E-03	1.68E+00	1.15E-01	2.10E-03	1.84E+00	3.15E-01	-5.58E+00
Particulate matter	PM	disease incidence	2.21E-06	1.91E-11	-1.02E-08	8.57E-08	7.51E-09	1.11E-10	1.07E-07	6.93E-09	-4.03E-07
Ionising radiation - human health	IRP	kBq U-235 eq	5.24E-01	1.99E-07	8.35E-02	4.85E-02	5.43E-02	1.15E-06	4.88E-04	4.74E-03	-5.48E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	4.28E+02	2.82E-03	3.36E+00	7.90E+00	6.33E+00	1.64E-02	5.64E+00	1.94E+00	-1.23E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	6.97E-08	1.79E-13	1.26E-08	7.57E-10	8.35E-11	1.04E-12	5.53E-10	5.16E-11	-2.04E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	1.66E+02	1.80E-03	9.62E-02	5.34E+00	3.54E+00	1.05E-02	4.78E+00	5.81E-01	-1.22E+02
Soil quality	SQP	Pt	6.63E+01	1.37E-03	2.41E+00	6.96E-01	1.49E+00	7.92E-03	5.08E+00	2.26E+00	-1.03E+01

Table 560 | Environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 200mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.37E+01	3.62E-04	1.31E-01	1.72E+00	1.17E-01	2.10E-03	1.85E+00	3.59E-01	-5.56E+00
Ozone layer depletion	ODP	kg CFC-11 eq	8.26E-07	4.44E-11	1.90E-07	4.29E-08	1.55E-07	2.58E-10	1.49E-08	9.90E-09	-1.04E-08
Acidification potential	AP	kg SO ₂ eq	1.41E-01	1.54E-06	1.18E-03	7.45E-03	1.22E-03	8.95E-06	2.88E-03	2.78E-04	-3.65E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	2.09E-02	3.52E-07	-1.22E-04	1.16E-03	9.16E-05	2.04E-06	9.50E-04	3.22E-03	-5.03E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.93E-02	1.04E-07	3.72E-05	4.60E-04	4.99E-05	6.02E-07	6.74E-05	6.30E-05	-1.33E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.62E-04	1.34E-09	3.31E-06	4.06E-06	1.52E-07	7.76E-09	2.52E-06	1.38E-07	-1.89E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	6.42E+02	5.27E-03	1.25E+01	2.91E+01	1.19E+01	3.06E-02	2.21E+01	9.82E-01	-1.27E+02

Table 561 | Environmental impacts per m² of Solaris Corro[®] 0.6mm steel - 200mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	5.08E-08	8.27E-15	5.80E-12	3.51E-11	5.05E-12	4.80E-14	6.16E-11	3.07E-12	-3.07E-10
Human Toxicity non-cancer	HTnc	CTUh	2.95E-08	1.86E-15	1.37E-12	8.43E-13	5.62E-13	1.08E-14	9.99E-12	4.77E-13	-7.89E-12
Land use	LU	kg C deficit eq.	1.30E+01	9.67E-04	2.61E+00	4.93E-01	2.11E+00	5.61E-03	3.23E-01	7.04E-01	-1.20E+00
Ionising radiation	IR	kBq U235 eq	5.24E-01	1.99E-07	8.36E-02	4.85E-02	5.43E-02	1.15E-06	4.88E-04	4.74E-03	-5.48E-04
Particulate Matter	PM	kg PM2,5-Equiv.	1.77E-02	3.61E-07	3.75E-05	9.55E-04	1.72E-04	2.10E-06	9.42E-04	8.61E-05	-7.10E-03
Resource depletion - water	RDW	m ³	4.06E-01	1.77E-06	-5.61E-04	8.67E-03	1.91E-04	1.03E-05	1.22E-02	1.34E-03	-6.42E-03

CoolRoof®

CoolRoof® - 50mm

Table 562 | Environmental impacts per m² of CoolRoof® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.01E+01	1.09E-04	1.34E-01	1.78E+00	1.39E-01	1.82E-03	2.06E+00	1.06E-01	-7.15E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-1.79E-01	4.68E-09	9.48E-02	2.94E-03	4.85E-04	7.78E-08	6.29E-03	7.10E-05	3.19E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	4.84E-03	9.05E-10	5.99E-05	5.63E-06	2.87E-08	1.50E-08	7.79E-07	1.33E-05	-7.46E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.00E+01	1.09E-04	2.29E-01	1.78E+00	1.40E-01	1.82E-03	2.07E+00	1.06E-01	-7.15E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	7.60E-07	1.66E-11	4.20E-08	5.04E-08	2.66E-10	2.76E-10	2.01E-08	4.01E-09	-1.44E-08
Acidification potential	AP	mol H ⁺ eq.	1.61E-01	8.62E-07	1.41E-03	9.09E-03	1.02E-03	1.43E-05	1.35E-02	1.12E-04	-6.53E-02
Eutrophication – freshwater	EP - F	kg P eq.	7.08E-04	3.78E-09	-9.72E-06	1.68E-04	5.50E-06	6.29E-08	7.83E-05	1.81E-06	-1.62E-04
Eutrophication – marine	EP - M	kg N eq.	3.65E-02	2.47E-07	2.10E-04	1.55E-03	1.51E-04	4.10E-06	2.18E-03	1.89E-03	-1.31E-02
Eutrophication – terrestrial	EP - T	mol N eq.	3.96E-01	2.70E-06	2.29E-03	1.32E-02	1.62E-03	4.49E-05	2.34E-02	4.09E-04	-1.49E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.21E-01	6.68E-07	5.99E-04	3.85E-03	4.26E-04	1.11E-05	6.08E-03	1.39E-04	-3.54E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.08E-04	3.96E-10	2.38E-06	4.06E-06	1.81E-07	6.58E-09	2.79E-06	3.94E-08	-2.09E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.36E+02	1.56E-03	5.67E-01	3.19E+01	6.63E-01	2.59E-02	1.32E+01	3.25E-01	-9.37E+01
Water Depletion Potential	WDP	m ³	8.43E+00	3.24E-05	5.07E-01	3.47E+01	2.28E-02	5.39E-04	1.20E+00	1.32E-02	-5.07E+01

Table 563 | Resource use per m² of CoolRoof® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	1.83E+01	1.58E-05	3.52E-01	3.26E-01	1.20E-01	2.63E-04	1.51E+00	5.30E-03	-1.03E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00							
Primary renewable energy - total	PERT	MJ	1.83E+01	1.58E-05	3.52E-01	3.26E-01	1.20E-01	2.63E-04	1.51E+00	5.30E-03	-1.03E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	4.98E+02	1.56E-03	3.00E+00	3.19E+01	6.63E-01	2.59E-02	1.32E+01	3.25E-01	-9.37E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	3.81E+01	0.00E+00	-2.73E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.52E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.36E+02	1.56E-03	2.69E-01	3.19E+01	6.63E-01	2.59E-02	1.32E+01	-3.49E+01	-9.37E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00						
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00						
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00							
Use of net fresh water	FW	m ³	1.11E-01	1.85E-07	2.98E-04	3.67E-03	1.14E-04	3.08E-06	1.88E-03	1.85E-04	-2.60E-03

Table 564 | Waste generated per m² of CoolRoof® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	9.36E-05	2.04E-09	-4.44E-06	1.08E-05	4.50E-07	3.40E-08	7.10E-06	4.63E-07	-8.47E-06
Non-hazardous waste disposed	NHWD	kg	1.26E+00	1.07E-05	2.85E-01	6.54E-02	8.58E-03	1.78E-04	2.08E-01	1.43E+00	-1.07E+00
Radioactive waste disposed/stored	RWD	kg	1.61E-03	8.14E-12	1.82E-05	6.94E-06	4.39E-09	1.35E-10	7.73E-08	1.85E-06	-8.73E-08

Table 565 | Output flows per m² of CoolRoof® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 566 | Additional environmental impacts per m² of CoolRoof® - 50mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	3.87E+01	1.07E-04	1.35E-01	1.68E+00	1.37E-01	1.78E-03	2.03E+00	8.05E-02	-6.16E+00
Particulate matter	PM	disease incidence	2.01E-06	5.66E-12	5.45E-09	8.57E-08	8.88E-09	9.40E-11	1.18E-07	2.14E-09	-4.46E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.42E-01	5.89E-08	1.86E-02	4.85E-02	3.05E-05	9.78E-07	5.39E-04	1.45E-03	-6.05E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.55E+02	8.36E-04	9.77E-01	7.90E+00	3.79E-01	1.39E-02	6.24E+00	5.21E-01	-1.36E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.40E-08	5.29E-14	5.91E-09	7.57E-10	4.32E-11	8.79E-13	6.11E-10	1.43E-11	-2.25E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	6.26E+01	5.34E-04	3.99E-01	5.34E+00	3.50E-01	8.88E-03	5.28E+00	1.70E-01	-1.34E+02
Soil quality	SQP	Pt	4.24E+01	4.05E-04	1.11E+00	6.96E-01	4.26E-01	6.72E-03	5.62E+00	6.92E-01	-1.14E+01

Table 567 | Environmental impacts per m² of CoolRoof® - 50mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	3.89E+01	1.07E-04	1.87E-01	1.72E+00	1.38E-01	1.78E-03	2.04E+00	9.12E-02	-6.15E+00
Ozone layer depletion	ODP	kg CFC-11 eq	6.56E-07	1.32E-11	3.69E-08	4.29E-08	2.33E-10	2.19E-10	1.64E-08	3.18E-09	-1.15E-08
Acidification potential	AP	kg SO ₂ eq	1.19E-01	4.57E-07	4.72E-04	7.45E-03	2.11E-04	7.59E-06	3.18E-03	8.50E-05	-4.04E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.57E-02	1.04E-07	4.87E-05	1.16E-03	7.30E-05	1.73E-06	1.05E-03	8.03E-04	-5.56E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.72E-02	3.07E-08	5.65E-05	4.60E-04	4.31E-06	5.11E-07	7.44E-05	1.63E-05	-1.47E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.09E-04	3.96E-10	2.38E-06	4.06E-06	1.81E-07	6.58E-09	2.79E-06	3.94E-08	-2.09E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	4.89E+02	1.56E-03	3.45E+00	2.91E+01	1.55E+00	2.60E-02	2.44E+01	3.06E-01	-1.40E+02

Table 568 | Environmental impacts per m² of CoolRoof® - 50mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.64E-08	2.45E-15	8.98E-12	3.51E-11	5.02E-12	4.07E-14	6.81E-11	9.18E-13	-3.39E-10
Human Toxicity non-cancer	HTnc	CTUh	9.23E-09	5.51E-16	1.34E-12	8.43E-13	8.52E-13	9.15E-15	1.10E-11	1.49E-13	-8.72E-12
Land use	LU	kg C deficit eq.	1.59E+01	2.87E-04	4.82E-01	4.93E-01	1.23E-02	4.76E-03	3.57E-01	2.55E-01	-1.33E+00
Ionising radiation	IR	kBq U235 eq	3.42E-01	5.89E-08	1.86E-02	4.85E-02	3.06E-05	9.79E-07	5.39E-04	1.46E-03	-6.06E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.35E-02	1.07E-07	1.25E-04	9.55E-04	7.30E-05	1.78E-06	1.04E-03	2.61E-05	-7.85E-03
Resource depletion - water	RDW	m ³	1.50E-01	5.25E-07	1.30E-03	8.67E-03	9.97E-04	8.73E-06	1.35E-02	4.24E-04	-7.09E-03

CoolRoof® - 75mm

Table 569 | Environmental impacts per m² of CoolRoof® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential - fossil	GWP - Fossil	kg CO ₂ eq.	4.18E+01	1.69E-04	7.75E-02	1.78E+00	1.39E-01	1.88E-03	2.06E+00	1.46E-01	-7.15E+00
Global warming potential - biogenic	GWP - Biogenic	kg CO ₂ eq.	-3.28E-01	7.24E-09	1.62E-01	2.94E-03	4.85E-04	8.05E-08	6.29E-03	9.74E-05	3.19E-03
Global warming potential - land use/ land transformation	GWP - Luluc	kg CO ₂ eq.	5.22E-03	1.40E-09	6.44E-05	5.63E-06	2.87E-08	1.56E-08	7.79E-07	1.74E-05	-7.46E-07
Global warming potential - total	GWP - Total	kg CO₂ eq.	4.14E+01	1.69E-04	2.40E-01	1.78E+00	1.40E-01	1.88E-03	2.07E+00	1.46E-01	-7.15E+00
Ozone depletion potential	ODP	kg CFC 11 eq.	8.21E-07	2.57E-11	4.16E-08	5.04E-08	2.66E-10	2.86E-10	2.01E-08	5.11E-09	-1.44E-08
Acidification potential	AP	mol H ⁺ eq.	1.67E-01	1.33E-06	1.31E-03	9.09E-03	1.02E-03	1.48E-05	1.35E-02	1.45E-04	-6.53E-02
Eutrophication – freshwater	EP - F	kg P eq.	8.27E-04	5.84E-09	-3.51E-05	1.68E-04	5.50E-06	6.50E-08	7.83E-05	2.42E-06	-1.62E-04
Eutrophication – marine	EP - M	kg N eq.	3.76E-02	3.81E-07	1.91E-04	1.55E-03	1.51E-04	4.24E-06	2.18E-03	2.62E-03	-1.31E-02
Eutrophication – terrestrial	EP - T	mol N eq.	4.08E-01	4.18E-06	2.11E-03	1.32E-02	1.62E-03	4.65E-05	2.34E-02	5.28E-04	-1.49E-01
Photochemical ozone creation potential	POCP	kg NMVOC eq.	1.27E-01	1.03E-06	4.13E-04	3.85E-03	4.26E-04	1.15E-05	6.08E-03	1.82E-04	-3.54E-02
Abiotic depletion potential - minerals and metals	ADP	kg Sb eq.	1.11E-04	6.12E-10	2.79E-06	4.06E-06	1.81E-07	6.80E-09	2.79E-06	5.21E-08	-2.09E-06
Abiotic depletion potential - fossil fuels	ADPF	MJ	5.88E+02	2.40E-03	-1.51E+00	3.19E+01	6.63E-01	2.67E-02	1.32E+01	4.18E-01	-9.37E+01
Water Depletion Potential	WDP	m ³	1.02E+01	5.01E-05	8.33E-01	3.47E+01	2.28E-02	5.57E-04	1.20E+00	1.69E-02	-5.07E+01

Table 570 | Resource use per m² of CoolRoof® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ	2.04E+01	2.44E-05	4.32E-01	3.26E-01	1.20E-01	2.72E-04	1.51E+00	7.09E-03	-1.03E+00
Use of renewable primary energy resources used as raw materials	PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Primary renewable energy - total	PERT	MJ	2.04E+01	2.44E-05	4.32E-01	3.26E-01	1.20E-01	2.72E-04	1.51E+00	7.09E-03	-1.03E+00
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ	5.35E+02	2.40E-03	2.69E+00	3.19E+01	6.63E-01	2.67E-02	1.32E+01	4.18E-01	-9.37E+01
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ	5.33E+01	0.00E+00	-4.71E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.89E+01	0.00E+00
Primary non renewable energy - total	PENRT	MJ	5.88E+02	2.40E-03	-2.02E+00	3.19E+01	6.63E-01	2.67E-02	1.32E+01	-4.84E+01	-9.37E+01
Use of secondary material	SM	kg	1.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	RSF	MJ	3.41E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	FW	m ³	1.27E-01	2.86E-07	1.21E-04	3.67E-03	1.14E-04	3.19E-06	1.88E-03	2.37E-04	-2.60E-03

Table 571 | Waste generated per m² of CoolRoof® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Hazardous waste disposed	HWD	kg	1.00E-04	3.16E-09	-1.13E-05	1.08E-05	4.50E-07	3.51E-08	7.10E-06	5.95E-07	-8.47E-06
Non-hazardous waste disposed	NHWD	kg	1.33E+00	1.66E-05	4.45E-01	6.54E-02	8.58E-03	1.85E-04	2.08E-01	1.77E+00	-1.07E+00
Radioactive waste disposed/stored	RWD	kg	1.62E-03	1.26E-11	2.03E-05	6.94E-06	4.39E-09	1.40E-10	7.73E-08	2.36E-06	-8.73E-08

Table 572 | Output flows per m² of CoolRoof® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Components for reuse	CRU	kg	0.00E+00								
Materials for recycling	MFR	kg	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E+00	0.00E+00	0.00E+00
Materials for energy recovery	MFRE	kg	0.00E+00								
Exported energy - electricity	EE - e	MJ	0.00E+00								
Exported energy - thermal	EE - t	MJ	0.00E+00								

Table 573 | Additional environmental impacts per m² of CoolRoof® - 75mm (results are in accordance with EN15804+A2:2019)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential, excluding biogenic uptake, emissions and storage	GWP-GHG	kg CO ₂ eq	4.02E+01	1.65E-04	8.24E-02	1.68E+00	1.37E-01	1.84E-03	2.03E+00	1.11E-01	-6.16E+00
Particulate matter	PM	disease incidence	2.08E-06	8.74E-12	-8.27E-10	8.57E-08	8.88E-09	9.72E-11	1.18E-07	2.76E-09	-4.46E-07
Ionising radiation - human health	IRP	kBq U-235 eq	3.56E-01	9.09E-08	2.33E-02	4.85E-02	3.05E-05	1.01E-06	5.39E-04	1.88E-03	-6.05E-04
Ecotoxicity - freshwater	ETP - fw	CTUe	1.71E+02	1.29E-03	-5.91E-01	7.90E+00	3.79E-01	1.44E-02	6.24E+00	7.04E-01	-1.36E+02
Human toxicity potential - cancer effects	HTP - c	CTUh	2.82E-08	8.17E-14	8.82E-09	7.57E-10	4.32E-11	9.09E-13	6.11E-10	1.91E-11	-2.25E-09
Human toxicity potential - non cancer effects	HTP - nc	CTUh	7.71E+01	8.25E-04	-1.13E+00	5.34E+00	3.50E-01	9.18E-03	5.28E+00	2.23E-01	-1.34E+02
Soil quality	SQP	Pt	5.46E+01	6.25E-04	1.21E+00	6.96E-01	4.26E-01	6.95E-03	5.62E+00	8.95E-01	-1.14E+01

Table 574 | Environmental impacts per m² of CoolRoof® - 75mm (results are in accordance with EN15804+A1:2013)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Global warming potential (GWP100)	GWP	kg CO ₂ eq	4.04E+01	1.66E-04	1.71E-01	1.72E+00	1.38E-01	1.84E-03	2.04E+00	1.26E-01	-6.15E+00
Ozone layer depletion	ODP	kg CFC-11 eq	7.11E-07	2.03E-11	3.61E-08	4.29E-08	2.33E-10	2.26E-10	1.64E-08	4.05E-09	-1.15E-08
Acidification potential	AP	kg SO ₂ eq	1.24E-01	7.06E-07	3.39E-04	7.45E-03	2.11E-04	7.85E-06	3.18E-03	1.10E-04	-4.04E-02
Eutrophication potential	EP	kg PO ₄ ³⁻ eq	1.65E-02	1.61E-07	-3.45E-05	1.16E-03	7.30E-05	1.79E-06	1.05E-03	1.11E-03	-5.56E-03
Photochemical ozone creation potential	POCP	kg C2H4 eq	1.75E-02	4.75E-08	2.81E-05	4.60E-04	4.31E-06	5.28E-07	7.44E-05	2.23E-05	-1.47E-02
Abiotic depletion potential for non-fossil resources	ADPE	kg Sb eq	1.11E-04	6.12E-10	2.79E-06	4.06E-06	1.81E-07	6.80E-09	2.79E-06	5.21E-08	-2.09E-06
Abiotic depletion potential for fossil resources	ADPF	MJ	5.23E+02	2.41E-03	2.91E+00	2.91E+01	1.55E+00	2.68E-02	2.44E+01	3.93E-01	-1.40E+02

Table 575 | Environmental impacts per m² of CoolRoof® - 75mm (results are in accordance with Green Star v1.3)

Indicator	ABR	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C4	D
Human Toxicity cancer	HTc	CTUh	1.77E-08	3.79E-15	7.56E-12	3.51E-11	5.02E-12	4.21E-14	6.81E-11	1.20E-12	-3.39E-10
Human Toxicity non-cancer	HTnc	CTUh	9.24E-09	8.51E-16	1.48E-12	8.43E-13	8.52E-13	9.47E-15	1.10E-11	1.91E-13	-8.72E-12
Land use	LU	kg C deficit eq.	1.72E+01	4.43E-04	4.95E-01	4.93E-01	1.23E-02	4.93E-03	3.57E-01	3.14E-01	-1.33E+00
Ionising radiation	IR	kBq U235 eq	3.56E-01	9.10E-08	2.33E-02	4.85E-02	3.06E-05	1.01E-06	5.39E-04	1.88E-03	-6.06E-04
Particulate Matter	PM	kg PM2.5-Equiv.	1.44E-02	1.65E-07	4.28E-05	9.55E-04	7.30E-05	1.84E-06	1.04E-03	3.38E-05	-7.85E-03
Resource depletion - water	RDW	m ³	1.89E-01	8.11E-07	8.37E-04	8.67E-03	9.97E-04	9.03E-06	1.35E-02	5.43E-04	-7.09E-03

Interpretation and Recommendations

The LCA of Bondor's insulated panel products, by transfer of text from report to EPD, establish the basis for development of Environmental Product Declarations compliant with PCR 2019:14 (Construction Products) and the overarching EN15804 A2 standard. These EPDs can be used to gain material credits in Green Star projects, contribute to whole building LCAs (following the EN 15978 standard) and to present Bondor's environmental credentials to customers and other stakeholders.

The scope of the LCA was cradle to gate with modules A1-A3, C and D, plus optional modules A4-A5 and B2. The declared unit is 1 m² of installed panel available in varying product specifications which fulfils the specified quality criteria during the Reference Service Life of 40 years.

Interpretation

- The product stage (module A1-A3) is the most significant contributor to potential environmental impacts accounting for 89-92% of total GWP.
- All products have a high steel content, with the material and transport to manufacturing site (module A1-A2) accounting for at least 63% of total GWP. Due to the recyclability of steel, all products have significant recycling potential can be declared. Module D shows benefits for the next system for GWP of 5.45-9.14 kg CO₂ eq.
- In terms of resource use across all modules (A1-D), the largest energy use comes from non-renewable primary energy resources (PENRT).
- Across all modules, 100% of the waste disposed is non-hazardous (NHWD).

Recommendation

Based on the results of this LCA, we recommend that Bondor:

- Steel has significant contributions to total impacts and so alternative materials with lower burdens should be considered.
- Explore the use of electric vehicles for distribution or partner with distribution partners on fuel efficiency training, route optimisation and transitioning their fleet to lower emissions vehicles.
- Work with its suppliers to establish specific/representative Insulation foam chemical production data, particularly for Methylene diphenyl diisocyanate production, which is currently modelled using background data with limited transparency (i.e., system process data).
- Extend the scope of the LCA to include the use and operation of it in buildings, as this will likely emphasise the true-life cycle impact and benefits of BondorPanel@s compared to alternatives. Note this is beyond the scope of this product-level study for the purposes of the EPD.
- Investigate opportunities to enable and increase the recycling and re-use of panels after their first service life.

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