

Environmental Product Declaration

Specific EPD

In accordance with ISO 14025:2010 and EN 15804:2012+A2:2019/AC:2021

Arpeggio Silestone Vanity Unit

Washroom Washroom Ltd



Programme

EPD Square | www.epdsquare.com

Programme operator

EPD Square, s.r.o.

EPD Registration number

SQ 00-073

Publication date

19.8.2026

Valid until

18.08.2031

General information

Product

Arpeggio Silestone Vanity Unit

Program operator

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Registration number

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Owner of the declaration

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Manufacturer

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Place of production

Washroom Washroom Ltd
Units 1-10 Hill, Farm Epping, Lane Abridge
Essex, RM4 1TU, United Kingdom

Product Category Rules (PCR)

EPD Square PCR v1.0.1, 2025

Declared/Functional unit

1 Unit of product measuring 2400 mm (W) x 600 mm (D)
x 850 mm (H)

Mass per DU

84.9 kg

UN CPC code

-

Geographical scope

United Kingdom

Year of study

2024

Comparability

EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in the context of the building.

EPD author

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Verification type

Independent verification of the declaration and data, according to ISO14025:2010

Internal: ☐

External: ☒

Verified by

Daniel Satola, Daniel Satola Consulting

Satola Daniel

The owner of the declaration shall be liable for the underlying information and evidence.

EPD Square shall not be liable with respect to manufacturer, life cycle assessment data and evidence.

System boundaries

The EPD covers Cradle-to-gate with options, modules C1-C4, module D and additional modules (A4, A5).

Modules declared and geographical scope

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	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	✓	✓	✓	✓	✓	ND	ND	ND	ND	ND	ND	ND	✓	✓	✓	✓	✓
Geographic scope	GLO	GLO	UK	UK	UK	ND	ND	ND	ND	ND	ND	ND	UK	UK	UK	UK	UK

Not declared = ND.

Description of organization

Since 2001, Washroom Washroom Limited has been a leader in designing and manufacturing premium washroom and changing room solutions. Operating from its Essex-based facilities, the company delivers bespoke cubicles, vanities, lockers, and duct panelling with a focus on quality, innovation, and sustainability. Its commitment to excellence has earned industry recognition, establishing Washroom Washroom Limited as a trusted partner for projects across the UK.

Product information

Product name

Arpeggio Silestone Vanity Unit

Product description

This Environmental Product Declaration covers the Silestone Vanity Unit, a wall-mounted or bracket-supported washroom vanity solution designed for high-specification commercial and public washroom environments. The product is supplied as a complete vanity assembly, incorporating the vanity top, structural support framework, optional underpanels and associated fixings, delivered ready for installation on site.

The vanity top comprises a 20 mm Silestone surface, bonded to an 18 mm moisture-resistant MDF (MR MDF) ladder support substrate to provide structural stability and dimensional performance. Standard stone options include Silestone, Caesarstone, and Dekton, with alternative stone or terrazzo specifications available on request. Vanity tops are supplied with factory-formed cut-outs for wash hand basins provided by others, with options for integral or bespoke basins where specified.

The supporting framework is constructed from 60 × 44 mm treated softwood and is designed for wall-fixed or wall/floor-fixed installation depending on project requirements. Where specified, vanity tops may alternatively be supported on mild steel cantilever brackets, supplied with corresponding fixings, subject to verification of the structural capacity of the supporting wall.

Underpanels are available in a range of construction options to suit aesthetic and performance requirements. These include high-pressure laminate (HPL) faced MR MDF panels, solid grade laminate (SGL), back-painted safety glass bonded to MR MDF substrates, or MR MDF panels prepared to receive tiled finishes by others. Optional cupboard units may be provided beneath the vanity top, manufactured from MR MDF with laminate or real wood veneer finishes and fitted with standard architectural ironmongery.

Product application

The Silestone Vanity Unit is intended for use in premium washroom environments such as commercial offices, hospitality, cultural, transport, and public buildings, where durability, moisture resistance, and high-quality material finishes are required. The EPD covers the complete vanity unit assembly as supplied to site, including the Silestone vanity top, support substrate, framework and MR MDF underpanels, but excludes cupboards, fixings, basins, taps, sanitary pipework, wall finishes, and other site-installed services.

Geographical scope

United Kingdom

Product contents information

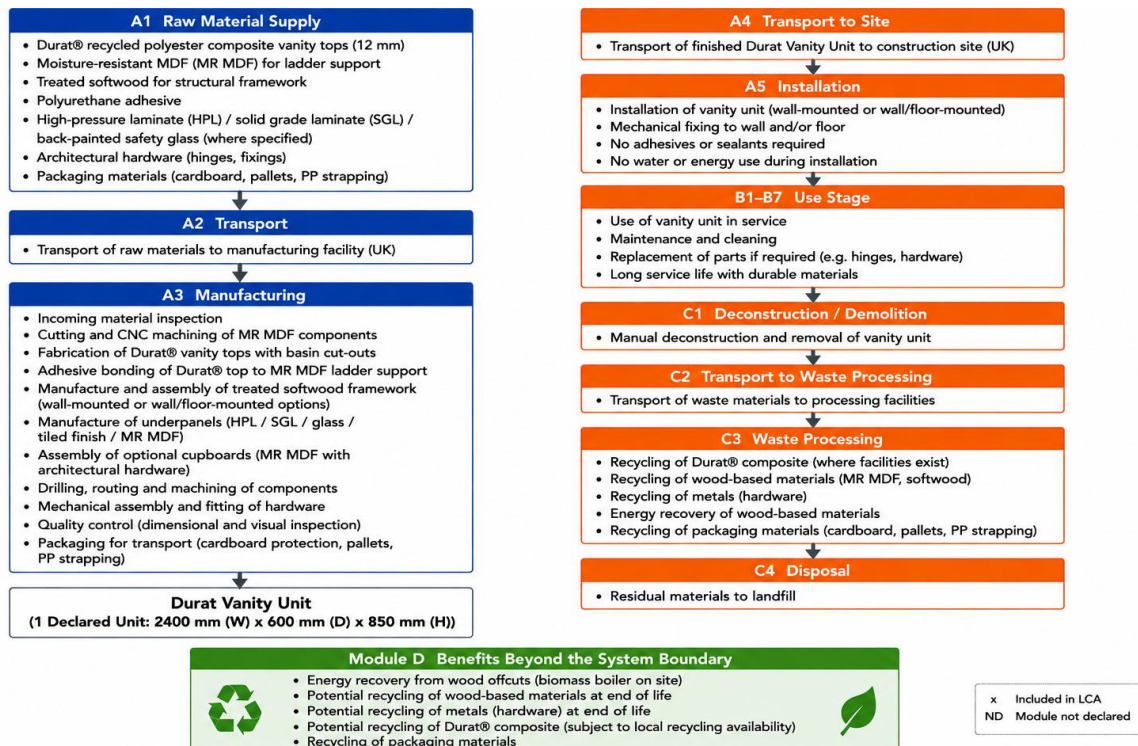
Product components	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%
Natural quartz surfaces, Silestone	50.0	0	0
Medium-density fiberboard panels	30.0	0	91
Softwood timber from spruce and pine	3.0	0	100
Polyurethane adhesive	1.89	0	0
TOTAL	84.89	0	36.12
Packaging materials	Weight, kg	Weight-% (versus the product)	
Cardboard box + protection	3.5	4.17	
Wooden pallet	10.0	11.92	
PP strapping	0.2	0.24	
TOTAL	13.7	16.33	

Manufacturing process

The Silestone Vanity Unit is manufactured at Washroom Washroom Limited's production facility in Essex, United Kingdom, using a controlled manufacturing process. Production begins with the receipt and inspection of incoming raw materials, including 20 mm Silestone® surfaces (or specified alternative engineered stone/terrazzo), 18 mm moisture-resistant MDF (MR MDF), treated softwood framing sections (60 x 44 mm), mild steel cantilever brackets, polyurethane adhesive, underpanel finishes (HPL, SGL, back-painted safety glass), architectural ironmongery, and ancillary packaging materials.

The vanity support substrate is manufactured from moisture-resistant MDF, which is precision cut and CNC machined to form a ladder support structure. The 20 mm Silestone® surface is factory fabricated with precision cut-outs for wash hand basins (or integrated/bespoke basin configurations) and is bonded to the MR MDF ladder substrate using high-performance polyurethane adhesive to provide structural stability and dimensional performance.

Supporting framework components are manufactured from 60 x 44 mm treated softwood sections, cut and assembled for wall-fixed or wall/floor-fixed installation depending on project specifications. Where cantilever support is specified, mild steel brackets and dedicated fixings are prepared for installation. Underpanels are fabricated from MR MDF substrates finished with high-pressure laminate (HPL), solid grade laminate (SGL), back-painted safety glass, or prepared for site-applied tiled finishes. Where specified, optional cupboard units are assembled from MR MDF with laminate or real wood veneer finishes and fitted with standard architectural ironmongery. The manufacturing process consists primarily of stone cutting, CNC machining, edge profiling, drilling, routing, adhesive bonding, and mechanical assembly operations. Product quality is verified throughout production by dimensional inspection, surface examination, and final quality checks before packaging and dispatch. Manufacturing is powered by grid electricity, with electricity consumption allocated to products according to annual production output. Packaging materials, including cardboard protection, timber pallets, and polypropylene strapping, are included within the manufacturing stage. Timber offcuts generated during production are collected and used as fuel in the site's biomass boiler, contributing to on-site energy recovery and reducing waste sent to landfill. Finished Silestone Vanity Units are packaged using protective cardboard, timber pallets, and plastic strapping to minimise transport damage and are prepared for delivery to commercial, hospitality, cultural, and public construction projects throughout the United Kingdom.



Life cycle assessment

Cut-off criteria

The study does not exclude any modules or processes which are stated mandatory in the standards and PCR. The study does not exclude any hazardous materials or substances.

The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes for which data is available are included in the calculation. There is no neglected unit process more than 1% of total mass and energy flows. The total excluded input and output flows do not exceed 5% of energy usage or mass.

The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

The LCA includes all industrial processes from raw material acquisition to production, distribution, installation and end-of-life stages. The study includes modules A1-A3, A4, A5, C1-C4 and D modules, and does not exclude any modules or processes which are stated mandatory in the EN 15804:2012+A2:2019 and the applied PCR.

Allocation, estimations, and assumptions

Allocation is based on the annual production output of the manufacturing facility. Primary manufacturing data, including material consumption, electricity use, packaging materials and waste generation, were allocated to the declared unit using a mass-based allocation in accordance with EN 15804+A2. Where allocation could not be avoided, physical relationships were applied.

Database(s) and LCA software

This EPD has been created using One Click LCA Pre-Verified EPD Generator. Ecoinvent v3.11, Environmental Product Declarations and One Click LCA databases were used as sources of environmental data.

LCA scenarios and additional technical information

Module A1

This module covers the extraction, upstream processing and intermediate production of all materials used in the unit, including Silestone, softwood framing, particleboard cores, and adhesive systems used during assembly.

Module A2

This module accounts for the transportation of all input materials from their suppliers to the manufacturing site. Transport is modelled using representative European logistics, including HGV road transport and container ship where applicable, based on verified supplier locations and typical routing assumptions. Freight distances are derived from supplier declarations and logistics modelling. The transportation impacts considered include exhaust emissions resulting from transportation of all raw materials from suppliers to production plant as well as the environmental impacts of production of the used fuel. Module includes Transport, freight, lorry, 16-32 metric ton, diesel, EURO 6 and Transport, freight, sea, container ship, heavy fuel oil, Ecoinvent 3.11.

Module A3

This module covers all processing operations at the production facility, including panel cutting, CNC drilling, edge finishing and assembly of the components. Energy consumption from electricity and heating is included using a market-based electricity mix. Packaging materials such as cardboard, pallet wood and polypropylene strapping are included. Wood offcuts generated during manufacturing are used in an on-site biomass boiler for energy recovery, reducing production waste to landfill and contributing to renewable heat provision for the facility.

Manufacturing energy scenario (A3)

Electricity data source and quality	Electricity, medium voltage, residual mix, United Kingdom	Ecoinvent 3.11
Electricity CO _{2e} / kWh	0.47	

Module A4

The delivery (A4) of the finished cubicle system to the construction site is modelled using a 3.5-tonne EURO 6 compliant van. A conservative average transport distance of 150 km is assumed to represent typical regional deliveries from the manufacturing facility to the site; this distance is considered a realistic upper bound given variability in customer locations. Due to protective palletisation and secure packaging, no material losses are expected during transport.

Transportation scenario (A4)

Vehicle type used for transport	Transport, freight, lorry 3.5-7.5 metric ton, EURO 6, Ecoinvent 3.11
Distance to the construction site	150 km
Capacity utilization	1
Capacity utilization factor	1

Module A5

Installation (A5) is carried out manually using standard hand tools, with no requirement for powered lifting equipment or energy-consuming machinery. A silicone-based sealant is applied on site to ensure watertight joints and proper panel alignment. As no cutting, modification, or trimming of materials is required during fitting, no material losses occur during installation. Packaging materials (e.g. wooden pallets, cardboard, polypropylene strapping) are removed at this stage and modelled for end-of-life treatment.

Module C1

The energy and use of natural resources during deconstruction are considered negligible; dismantling is assumed to be carried out manually with basic hand tools and no significant auxiliary inputs.

Module C2

Following removal, materials are collected as mixed construction and demolition waste and transported by European heavy goods vehicles to licensed treatment facilities. Transport is modelled by route: 250 km to recycling operations, 150 km to energy-recovery plants, and 50 km to landfill, reflecting typical regional haulage to each destination. Transport to waste treatment facilities is modelled using a representative lorry transport dataset (Transport, freight, lorry, >32 metric ton, diesel, EURO 6), representing the most common transport method for construction and demolition waste.

Module C3

At the waste management facility, materials are sorted and routed using Eurostat & BuildLCA treatment splits. Timber-based fractions (softwood and MDF/OSB/particleboard) are separated and treated as follows: 26% is recycled (wood chipping/post-consumer chips) and 50% is sent to incineration with energy recovery. Energy and resource inputs for sorting, chipping and pre-treatment are included. Incineration of timber yields exported electricity and heat; energy substitution is modelled with lower heating value-based efficiencies (electricity and thermal generation) consistent with the datasets used. Packaging associated with transport (e.g., pallets, boards, cardboard and film) follows the same sorting logic and is routed to recycling or incineration with energy recovery where applicable, with residuals landfilled. The Silestone component is modelled as aggregates and stone products. In line with Eurostat & BuildLCA, 93.6% of stone is recovered for recycling, with 6.4% assumed to be landfilled to reflect recovery losses. Sorting/pressing loads are included (C3).

Module C4

24% of timber-based fractions is landfilled to represent non-recoverable residues and quality losses. 6.4% of stone is assumed to be landfilled to reflect recovery losses. Adhesive and sealant residues are treated as non-recyclable inert waste and are landfilled. Final disposal of non-recoverable timber residues and other rejects is captured in this module.

End of life (C1, C3, C4)

	Value	Unit
Collected separately	84.89	kg
Collected as mixed construction waste	0.0	kg
Reuse	0.0	kg
Recycling	54.6	kg
Energy recovery	0.0	kg
To landfill	13.92	kg

Module D

Module D accounts for benefits and loads beyond the system boundary arising from material recovery and energy substitution. Recycled Silestone is credited with the avoidance of primary stone/gravel production, after deducting the loads associated with collection and recycling processes. For timber fractions, two benefits are credited: (i) recycling to secondary wood-chip markets (post-consumer), and (ii) incineration with energy recovery, which delivers exported electricity and heat that substitute grid electricity and fossil heat carriers; biogenic carbon flows are treated in line with the dataset assumptions. These avoided burdens are reported as net substitutions consistent with EN 15804, ensuring that credits from C3 are not double-counted in Module D.

Data quality

The data quality assessment was carried out in accordance with EN 15941 and the Product Environmental Footprint (PEF) data quality methodology. Manufacturer-specific production data were collected for the reference period January 2024 – December 2024 and complemented with supplier-specific Environmental Product Declarations (EPDs), where available, and ecoinvent v3.11 (2024) background datasets. The overall data quality of the assessment was evaluated as Good to Very Good, with high geographical, technological and temporal representativeness. No significant data gaps or quality issues affecting the conclusions of the study were identified.

LCA results

Results are presented per 1 Unit (Declared Unit) of the product. Estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.

Core environmental impact indicators – EN 15804+A2

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq.	5.02E+01	8.21E+00	1.96E+01	0.00E+00	8.51E-01	2.69E+01	8.33E+00	-1.96E+01
GWP-fossil	kg CO ₂ eq.	1.00E+02	8.21E+00	3.38E+00	0.00E+00	8.50E-01	1.08E+00	1.66E-01	-4.33E+00
GWP-biogenic	kg CO ₂ eq.	-5.02E+01	0.00E+00	1.62E+01	0.00E+00	8.57E-05	2.59E+01	8.17E+00	-1.52E+01
GWP-LULUC	kg CO ₂ eq.	2.38E-01	3.08E-03	2.96E-03	0.00E+00	4.01E-04	1.46E-03	8.12E-05	-1.29E-02
ODP	kg CFC-11 eq.	9.64E-06	1.78E-07	6.62E-05	0.00E+00	1.25E-08	1.64E-08	4.36E-09	-1.10E-07
AP	mol H ⁺ eq.	5.84E-01	1.71E-02	1.25E-02	0.00E+00	2.25E-03	8.81E-03	1.20E-03	-2.71E-02
EP-freshwater	kg P eq.	2.09E-02	6.74E-04	8.93E-04	0.00E+00	9.46E-05	5.86E-04	1.19E-04	-3.59E-03
EP-marine	kg N eq.	1.37E-01	3.78E-03	4.47E-03	0.00E+00	5.64E-04	3.44E-03	3.00E-03	-6.72E-03
EP-terrestrial	mol N eq.	1.52E+00	4.08E-02	2.84E-02	0.00E+00	6.10E-03	3.54E-02	4.57E-03	-6.76E-02
POCP	kg NMVOC eq.	5.39E-01	2.58E-02	1.14E-02	0.00E+00	3.29E-03	1.05E-02	1.77E-03	-1.92E-02
ADP-M&M	kg Sb eq.	7.63E-04	3.91E-05	2.32E-05	0.00E+00	2.50E-06	2.65E-06	3.49E-07	-1.20E-05
ADP-fossil	MJ	1.81E+03	1.15E+02	5.35E+01	0.00E+00	1.26E+01	1.58E+01	3.52E+00	-9.42E+01
WDP	m ³	5.22E+01	6.76E-01	4.67E+00	0.00E+00	7.46E-02	8.47E-01	1.39E-01	-3.15E+00

GWP-total: Global Warming Potential; **GWP-fossil:** Global Warming Potential fossil fuels; **GWP-biogenic:** Global Warming Potential biogenic; **GWP-LULUC:** Global Warming Potential land use and land use change; **ODP:** Depletion potential of the stratospheric ozone layer; **AP:** Acidification potential, Accumulated Exceedance; **EP-freshwater:** Eutrophication potential, fraction of nutrients reaching freshwater end compartment; See “additional requirements” for indicator given as P04 eq. **EP-marine:** Eutrophication potential, fraction of nutrients reaching freshwater end compartment; **EP-terrestrial:** Eutrophication potential, Accumulated Exceedance; **POCP:** Formation potential of tropospheric ozone; **ADP-M&M:** Abiotic depletion potential for non-fossil resources (minerals and metals); **ADP-fossil:** Abiotic depletion potential for fossil resources; **WDP:** Water deprivation potential, deprivation weighted water consumption

Additional (optional) environmental impact indicators – EN 15804+A2

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	Disease incidence	4.89E-06	4.40E-07	1.36E-07	0.00E+00	8.15E-08	4.96E-07	2.50E-08	-6.52E-07
IRP	kBq U235 eq.	1.02E+01	2.10E-01	3.12E-01	0.00E+00	1.09E-02	6.43E-02	3.23E-03	-2.49E+00
ETP-fw	CTUe	2.81E+03	1.03E+02	1.87E+02	0.00E+00	1.42E+01	3.89E+02	3.79E+01	-1.70E+02
HTP-c	CTUh	9.92E-08	1.48E-09	4.74E-09	0.00E+00	1.40E-10	6.72E-10	4.48E-11	-1.29E-09
HTP-nc	CTUh	6.13E-07	6.92E-08	3.75E-08	0.00E+00	8.04E-09	3.99E-08	2.71E-09	-5.10E-08
SQP	Dimensionless	5.09E+03	4.75E+01	1.75E+01	0.00E+00	1.25E+01	1.53E+01	7.46E+00	-2.13E+02

PM: Particulate matter emissions; **IRP:** Ionising radiation, human health; **ETP-fw:** Ecotoxicity (freshwater); **ETP-c:** Human toxicity, cancer effects; **HTP-nc:** Human toxicity, non-cancer effects; **SQP:** Land use related impacts / soil quality

Use of natural resources

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
RPEE	MJ	8.65E+02	2.62E+00	-1.97E+02	0.00E+00	1.74E-01	-2.79E+02	-1.34E+02	1.63E+01
RPEM	MJ	2.47E+02	0.00E+00	-1.96E+02	0.00E+00	0.00E+00	-3.85E+01	-1.22E+01	1.13E+02
TPE	MJ	1.11E+03	2.62E+00	-3.93E+02	0.00E+00	1.74E-01	-3.17E+02	-1.46E+02	1.29E+02
NRPE	MJ	1.81E+03	1.15E+02	3.67E+01	0.00E+00	1.26E+01	1.58E+01	3.52E+00	-9.43E+01
NRPM	MJ	9.26E+01	0.00E+00	-1.67E+01	0.00E+00	0.00E+00	-5.71E+01	-1.88E+01	1.61E+01
TRPE	MJ	1.91E+03	1.15E+02	2.00E+01	0.00E+00	1.26E+01	-4.13E+01	-1.53E+01	-7.81E+01
SM	kg	4.13E+00	6.18E-02	1.29E-02	0.00E+00	5.27E-03	1.05E-02	1.20E-03	-1.87E-02
RSF	MJ	5.43E+00	6.89E-04	2.82E-04	0.00E+00	6.85E-05	7.27E-05	2.24E-05	-1.20E-04
NRSF	MJ	8.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W	m ³	2.27E+01	1.56E-02	9.05E-02	0.00E+00	1.89E-03	-6.38E-02	-3.65E-02	-7.00E-02

RPEE: Renewable primary energy resources used as energy carrier; **RPEM:** Renewable primary energy resources used as raw materials; **TPE:** Total use of renewable primary energy resources; **NRPE:** Non-renewable primary energy resources used as energy carrier; **NRPM:** Non-renewable primary energy resources used as materials; **TRPE:** Total use of non-renewable primary energy resources; **SM:** Use of secondary materials; **RSF:** Use of renewable secondary fuels; **NRSF:** Use of non-renewable secondary fuels; **W:** Use of net fresh water

End of life – Waste

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HW	kg	2.29E+00	1.78E-01	1.87E-01	0.00E+00	2.74E-02	1.41E-01	5.41E-03	-2.44E-01
NHW	kg	7.07E+01	4.44E+00	1.94E+01	0.00E+00	5.24E-01	6.73E+01	3.01E+01	-1.82E+01
RW	kg	2.87E-03	5.23E-05	7.92E-05	0.00E+00	2.66E-06	1.62E-05	7.89E-07	-6.37E-04

HW: Hazardous waste disposed; **NHW:** Non-hazardous waste disposed; **RW:** Radioactive waste disposed

End of life – Output flows

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
CR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR	kg	0.00E+00	0.00E+00	6.19E+00	0.00E+00	0.00E+00	5.46E+01	0.00E+00	0.00E+00
MER	kg	1.77E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	0.00E+00	0.00E+00	7.76E+00	0.00E+00	0.00E+00	3.96E+01	0.00E+00	0.00E+00
ETE	MJ	0.00E+00	0.00E+00	1.07E+01	0.00E+00	0.00E+00	5.45E+01	0.00E+00	0.00E+00

CR: Components for reuse; **MR:** Materials for recycling; **MER:** Materials for energy recovery; **EEE:** Exported electric energy; **ETE:** Exported thermal energy

Information describing biogenic carbon content at factory gate

Biogenic carbon content	Value	Unit
Biogenic carbon content in product	11.82	kg C
Biogenic carbon content in the accompanying packaging	4.42	kg C

Specific data (GWP-GHG) and data variation for A1-A3

Specific data and data variation	Value-%
Specific data	87.68%
Variation - product	-
Variation - site	-

Hazardous substances

- ☒ The product does not contain any REACH SVHC substances in amounts greater than 0.1 %.

Contact information

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Bibliography

ISO 14020:2000

Environmental labels and declarations – General principles

ISO 14025:2010

Environmental labels and declarations - Type III environmental declarations - Principles and procedures

ISO 14040:2006

Environmental management - Life cycle assessment - Principles and framework

ISO 14044:2006

Environmental management - Life cycle assessment - Requirements and guidelines

EN 15804:2012+A2:2019/AC:2021

Sustainability of construction works - Environmental product declaration - Core rules for the product category of construction products

EN 15941:2024

Sustainability of construction works - Data quality for environmental assessment of products and construction work - Selection and use of data

EPD Square PCR v.1.0.1, 2025

EPD Square, General Programme Instructions v.1, 2024

Ecoinvent database v3.11 (2024) and One Click LCA database

EPD of Finnish sawn and planed timber, Finnish Sawmills Association, RTS_124_21

EPD MEDITE MR MDF, EPDIE-22-101

EPD Silestone, Cosentino, S-P-01269

Annex

Environmental impacts – EN 15804+A1, CML/ISO 21930

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP	kg CO ₂ eq.	4.01E+01	8.17E+00	3.98E+00	0.00E+00	8.46E-01	1.08E+00	6.19E-01	-4.33E+00
ODP	kg CFC-11 eq.	1.09E-06	1.42E-07	7.05E-05	0.00E+00	1.01E-08	1.33E-08	3.50E-09	-1.07E-07
AP	kg SO ₂ eq.	1.38E-01	1.39E-02	1.02E-02	0.00E+00	1.80E-03	6.57E-03	9.03E-04	-2.19E-02
EP	kg PO ₄ eq.	3.19E-01	3.76E-03	1.51E-01	0.00E+00	4.45E-04	1.88E-03	4.47E-04	-4.15E-03
POCP	kg C ₂ H ₄ eq.	1.22E-02	1.40E-03	1.11E-03	0.00E+00	1.65E-04	4.75E-04	1.70E-04	-1.78E-03
ADP-M&M	kg Sb eq.	1.70E-04	3.81E-05	1.95E-05	0.00E+00	2.43E-06	2.52E-06	3.39E-07	-1.18E-05
ADP-fossil	MJ	5.90E+02	1.12E+02	4.82E+01	0.00E+00	1.24E+01	1.47E+01	3.47E+00	-5.04E+01

Environmental impacts – GWP-GHG

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP - GHG	kg CO ₂ eq.	1.00E+02	8.21E+00	3.38E+00	0.00E+00	8.51E-01	1.08E+00	1.66E-01	-4.34E+00

GWP- GHG: Global Warming Potential, greenhouse gases