

Environmental Product Declaration

Average EPD

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

Concerto IPS Ranges

Washroom Washroom Ltd



Programme

EPD Square | www.epdsquare.com

Programme operator

EPD Square, s.r.o.

EPD Registration number

SQ 00-072

Publication date

18.08.2026

Valid until

17.08.2031

General information

Product

Concerto IPS Ranges

Program operator

EPD Square, s.r.o.
Lermontovova 3, 811 05,
Bratislava, Slovak Republic
Email: info@epdsquare.com

Registration number

SQ 00-072

Publication date

18.08.2026

Valid until date

17.08.2031

Owner of the declaration

Washroom Washroom Limited
Contact person: Bradley Melville
Email: sales@washroom.co.uk

Manufacturer

Washroom Washroom Ltd
Units 1-10 Hill, Farm Epping, Lane Abridge
Essex, RM4 1TU, United Kingdom
Telephone: +44 (0)800 999 8888
Email: sales@washroom.co.uk

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 IPS units measuring 910 mm (Width) x 2400 mm (Height)

Mass per DU

33.56 kg

UN CPC code

31422 Other plywood, veneered panels and similar laminated wood, of non-coniferous wood

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

Silvia Vilčeková, Eva Krídlová Burdová, EPD Clarity, s.r.o.

**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

Cradle to gate with options, modules C1-C4 and 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

Concerto IPS Ranges

Product description

The IPS units are factory-manufactured wall lining and service ducting systems designed to enclose and provide access to concealed plumbing, sanitary services, and associated building services within internal environments. The system is manufactured with High Pressure Laminate (HPL) or veneer finishes, including variants produced using compact laminate from FENIX (Italy), Greenlam (India), Polyrey (France), Egger UK (Austria), or veneer-faced components.

Panels are formed with a moisture-resistant medium density fibreboard (MR MDF) core, typically 18 mm thick, bonded with decorative laminate or real wood veneer finishes. Panel edges are finished with PVC edging. The IPS units are supported by a structural framework comprising treated softwood framing sections, complete with plywood skirting and header components. Hinged and lockable access panels can be incorporated upon request, depending on project requirements.

Product application

The IPS system is intended for use as fixed internal wall linings and service enclosures within dry, controlled indoor environments. Typical applications include commercial washrooms, healthcare and education facilities, leisure buildings, workplaces, and other public or commercial interiors where durability, hygiene, and coordinated finishes are required.

Panel dimensions are project-specific and configured to suit site conditions, service layouts, and architectural requirements. Units are supplied as manufactured components for installation on site.

This EPD covers the IPS units as supplied to site. The declaration excludes the supporting building structure, concealed plumbing and building services, installation materials, site-installed framing by others, and any adjacent building elements or finishes not forming part of the IPS assembly.

Geographical scope

United Kingdom

Product contents information

Product components	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%
Medium Density Fiberboard (MDF)	23.0	0	91
Partition Clips	0.3	0	0
High Pressure Laminate	1.0	0	63
PVC edging	0.126	0	0
Softwood	4.24	0	100
Plywood framework	3.0	0	88
Adhesive	1.89	0	0
TOTAL	33.56	0	84.7
Packaging materials	Weight, kg	Weight-% (versus the product)	
Cardboard box + protection	3.5	10.4	
Wooden pallet	10.0	29.8	
PP strapping	0.2	0.59	
TOTAL	13.7	40.8	

Manufacturing process

The IPS Unit Series is manufactured at Washroom Washroom Limited's production facility in the United Kingdom using a controlled and standardised production process common to all product variants. Manufacturing begins with the receipt and inspection of incoming raw materials, including moisture-resistant MDF panels, high-pressure laminate (HPL) or veneer surface materials, treated softwood framing, plywood components, PVC edging, polyurethane adhesive and stainless steel hardware.

Moisture-resistant MDF panels are precision cut and CNC machined to project-specific dimensions. Decorative HPL or veneer finishes are bonded to the MDF substrate using polyurethane adhesive, after which PVC edging is applied to all exposed panel edges to improve durability and moisture resistance. Plywood components are machined to form skirting and header elements, while treated softwood members are cut and assembled to create the structural support framework.

Following panel preparation, all components are assembled into complete IPS units using mechanical fixings and ancillary hardware. Where specified, hinged and lockable access panels are incorporated to provide access to concealed building services. All product variants are manufactured on the same production line using identical core materials and manufacturing methods, differing only in the decorative surface finish.

Manufacturing operations consist primarily of cutting, CNC routing, drilling, edging, adhesive bonding and mechanical assembly. Product quality is verified throughout production by dimensional inspections, visual checks and final quality control before packaging and dispatch.

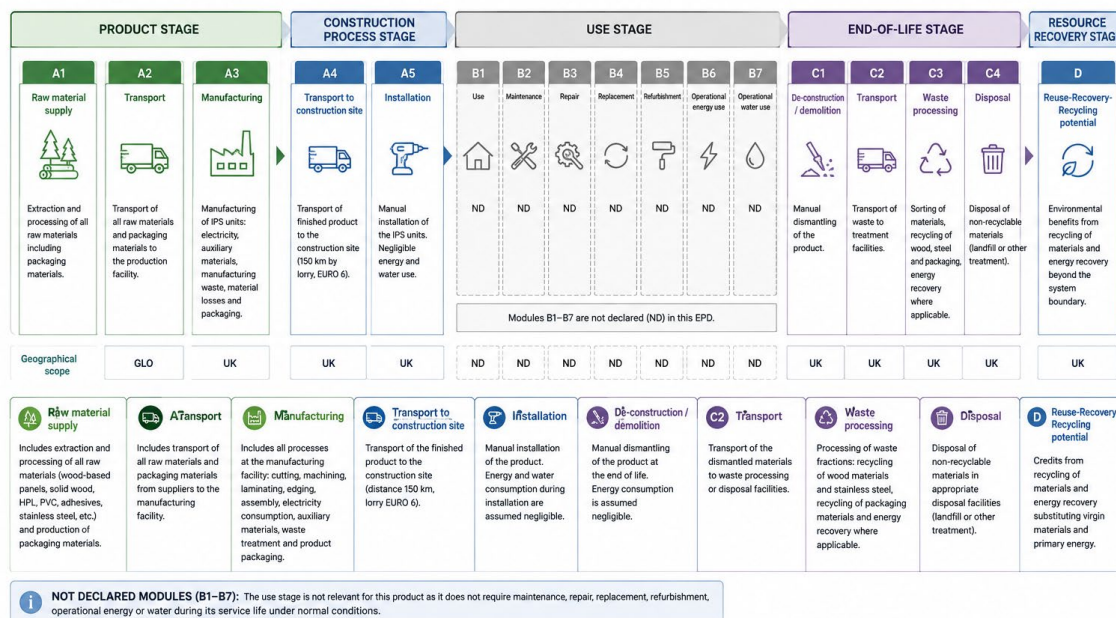
Production is powered by grid electricity, with manufacturing electricity allocated to products according to annual production output. Packaging materials, including timber pallets, cardboard boxes and polypropylene strapping, are incorporated within the manufacturing stage. Wood offcuts generated during machining 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 IPS units are packaged using protective cardboard, plastic strapping and timber pallets to minimise transport damage before distribution to installation sites.

LIFE CYCLE MODULES – IPS UNIT SERIES

SYSTEM BOUNDARY: CRADLE TO GATE WITH OPTIONS

In accordance with EN 15804:2012+A2:2019/AC:2021



The process diagram

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.

This EPD represents averaged results in accordance with the applicable averaging rules.

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 includes the extraction and upstream processing of all raw materials used in the IPS unit. The principal materials comprise high pressure laminate (HPL) bonded moisture-resistant MDF panels, softwood framing, plywood components, PVC edge profiles, adhesives and metal fixings. HPL-bonded MR MDF panels are modelled using representative European datasets reflecting panel thickness and mass. Softwood framing is modelled using generic European softwood timber datasets. Plywood components is modelled using supplier-specific environmental product declaration. PVC edge lipping is represented using generic European PVC extrusion data. Adhesive systems are modelled using representative European adhesive datasets, and metal fixings and brackets are modelled using generic datasets scaled to component mass. Where supplier-specific environmental product declarations are not available, conservative proxy datasets are applied in accordance with EN 15804 modelling principles.

Module A2

This module covers the transportation of all raw materials and components from their respective suppliers to the manufacturing and assembly facility. Transport is modelled using a combination of road freight and sea freight, reflecting supplier locations and typical logistics routes. Transport distances are derived from supplier origin data and conservative routing assumptions. All inbound transport is modelled using Euro-compliant heavy goods vehicles and container shipping where applicable.

Module A3

Manufacturing processes include cutting, machining and edging of HPL-bonded MDF panels; preparation and installation of softwood framing and plywood elements; application of PVC edge lipping and adhesives; assembly of IPS panels and sub-frames; installation of fixings and brackets; and final product assembly. Electricity consumption at the manufacturing facility is included and modelled using a market-based United Kingdom electricity mix. Energy use is allocated to the declared unit based on total product mass. Packaging materials used for internal handling and dispatch, including corrugated cardboard, wooden pallets and polypropylene strapping, are accounted for within module A3. Manufacturing waste, primarily consisting of wood-based panel offcuts, is modelled as waste wood and routed to appropriate waste treatment processes. No significant process-related direct emissions occur during manufacturing beyond those associated with electricity consumption and waste treatment.

Manufacturing energy scenario (A3)

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

Module A4

The delivery (A4) of the finished IPS unit 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, diesel, EURO 6, Ecoinvent 3.11
Distance to the construction site	150 km
Capacity utilization	1
Capacity utilization factor	1

Module A5

Installation is assumed to be carried out manually using standard hand tools, with no requirement for powered equipment or energy-intensive machinery. Silicone-based adhesives are applied during installation to ensure proper alignment and secure fixing. No material losses occur during installation. Packaging materials removed at site, including cardboard, wooden pallets and plastic strapping, 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.

Module C3

Waste processing includes sorting and preparation of materials for recycling, energy recovery or disposal. HPL, softwood and MDF panels are treated as mixed wood-based construction waste and routed to recycling, incineration with energy recovery, or landfill according to representative European treatment shares. Stainless steel components are sorted and prepared for recycling, with recovery rates aligned with Eurostat and BuildLCA assumptions. PVC edge profiles are partially recycled, with remaining fractions incinerated or landfilled (C3). 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.

Module C4

Residual materials remaining after waste processing are disposed of using representative European waste management scenarios. Materials that cannot be recycled or recovered are assumed to be landfilled or otherwise treated in accordance with applicable waste management practices and EN 15804+A2.

End of life (C1, C3, C4)

	Value	Unit
Collected separately	33.56	kg
Collected as mixed construction waste	0	kg
Reuse	0	kg
Recycling	30.20	kg
Energy recovery	0	kg
To landfill	3.36	kg

Module D

Module D accounts for benefits and loads arising from material recovery and energy substitution beyond the system boundary. Recycled stainless steel is credited with the avoided production of primary metal, after deduction of collection and recycling burdens. Recovered wood-based fractions generate benefits through substitution of secondary wood products and, where incinerated, through exported electricity and heat that substitute conventional energy generation. No recycling credits are claimed for electronic lock components beyond conservative mixed-waste treatment assumptions. All credits are reported in accordance with EN 15804, ensuring that benefits are not double-counted with impacts reported in modules C3 and C4.

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.

Additional environmental information

The IPS Unit Series is intended for long-term use in internal environments. The product is designed to be dismantled at the end of its service life to facilitate the separation of its principal material fractions. Wood-based materials, stainless steel components and packaging materials can be directed to established recycling or recovery streams where suitable facilities are available.

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.	-3.46E-01	3.98E+00	2.11E+01	0.00E+00	5.19E-01	2.60E+01	8.18E+00	-6.91E+00
GWP-fossil	kg CO ₂ eq.	4.92E+01	3.98E+00	4.90E+00	0.00E+00	5.19E-01	4.16E-01	1.06E-01	-5.06E+00
GWP-biogenic	kg CO ₂ eq.	-4.98E+01	0.00E+00	1.62E+01	0.00E+00	-3.31E-24	2.56E+01	8.07E+00	-1.83E+00
GWP-LULUC	kg CO ₂ eq.	2.53E-01	1.49E-03	4.30E-03	0.00E+00	2.45E-04	2.54E-04	6.10E-05	-1.32E-02
ODP	kg CFC-11 eq.	3.00E-06	8.62E-08	1.04E-04	0.00E+00	7.65E-09	4.21E-09	2.65E-09	-1.44E-07
AP	mol H ⁺ eq.	4.25E-01	8.30E-03	1.83E-02	0.00E+00	1.37E-03	2.97E-03	7.17E-04	-3.09E-02
EP-freshwater	kg P eq.	1.05E-02	3.26E-04	1.33E-03	0.00E+00	5.77E-05	1.69E-04	6.63E-05	-4.66E-03
EP-marine	kg N eq.	8.43E-02	1.83E-03	5.57E-03	0.00E+00	3.44E-04	1.44E-03	2.72E-03	-7.14E-03
EP-terrestrial	mol N eq.	9.06E-01	1.97E-02	3.95E-02	0.00E+00	3.72E-03	1.38E-02	3.00E-03	-7.11E-02
POCP	kg NMVOC eq.	4.08E-01	1.25E-02	1.61E-02	0.00E+00	2.01E-03	3.51E-03	1.21E-03	-2.09E-02
ADP-M&M	kg Sb eq.	6.27E-04	1.90E-05	3.54E-05	0.00E+00	1.52E-06	1.24E-06	1.86E-07	-4.95E-05
ADP-fossil	MJ	8.79E+02	5.59E+01	8.04E+01	0.00E+00	7.69E+00	3.72E+00	2.34E+00	-1.00E+02
WDP	m ³	3.62E+01	3.27E-01	7.22E+00	0.00E+00	4.55E-02	6.96E-01	1.03E-01	-2.92E+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 PO₄ 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	1.43E-01	2.13E-07	1.79E-07	0.00E+00	4.97E-08	3.29E-08	1.66E-08	-6.87E-07
IRP	kBq U235 eq.	5.88E+00	1.02E-01	4.80E-01	0.00E+00	6.62E-03	3.94E-02	1.78E-03	-2.38E+00
ETP-fw	CTUe	2.94E+03	4.97E+01	2.64E+02	0.00E+00	8.65E+00	1.47E+01	2.88E+00	-2.29E+02
HTP-c	CTUh	1.98E-06	7.17E-10	7.24E-09	0.00E+00	8.56E-11	5.14E-10	2.46E-11	-2.51E-09
HTP-nc	CTUh	7.93E-07	3.35E-08	4.90E-08	0.00E+00	4.91E-09	3.18E-08	1.63E-09	-7.34E-08
SQP	Dimensionless	4.62E+03	2.30E+01	2.41E+01	0.00E+00	7.62E+00	1.09E+00	5.34E+00	-2.02E+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	8.70E+02	1.27E+00	-1.94E+02	0.00E+00	1.06E-01	-2.64E+02	-1.27E+02	1.22E+01
RPEM	MJ	1.83E+02	0.00E+00	-1.18E+02	0.00E+00	0.00E+00	-4.99E+01	-1.58E+01	1.07E+02
TPE	MJ	1.05E+03	1.27E+00	-3.12E+02	0.00E+00	1.06E-01	-3.14E+02	-1.43E+02	1.19E+02
NRPE	MJ	8.04E+02	5.59E+01	5.86E+01	0.00E+00	7.69E+00	7.87E-01	1.10E+00	-1.01E+02
NRPM	MJ	7.59E+01	0.00E+00	-1.00E+01	0.00E+00	0.00E+00	-4.96E+01	-1.63E+01	1.55E+01
TRPE	MJ	8.80E+02	5.59E+01	4.86E+01	0.00E+00	7.69E+00	-4.88E+01	-1.52E+01	-8.59E+01
SM	kg	4.36E+00	2.99E-02	1.72E-02	0.00E+00	3.21E-03	5.88E-03	7.56E-04	1.95E-01
RSF	MJ	5.44E+00	3.34E-04	4.15E-04	0.00E+00	4.18E-05	3.94E-05	1.53E-05	-4.58E-04
NRSF	MJ	1.42E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W	m ³	1.07E+00	7.53E-03	1.50E-01	0.00E+00	1.15E-03	7.10E-03	-2.74E-02	-6.52E-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	2.74E+00	8.62E-02	2.62E-01	0.00E+00	1.67E-02	1.38E-01	3.58E-03	-1.55E+00
NHW	kg	8.06E+01	2.15E+00	2.19E+01	0.00E+00	3.19E-01	1.65E+01	1.99E+01	-2.43E+01
RW	kg	3.31E-03	2.53E-05	1.22E-04	0.00E+00	1.62E-06	1.01E-05	4.35E-07	-6.09E-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	3.28E-01	0.00E+00	0.00E+00
MER	kg	2.72E+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	3.74E+01	0.00E+00	0.00E+00
EET	MJ	0.00E+00	0.00E+00	1.07E+01	0.00E+00	0.00E+00	5.15E+01	0.00E+00	0.00E+00

CR: Components for reuse; **MR:** Materials for recycling; **MER:** Materials for energy recovery; **EEE:** Exported energy - electricity; **EET:** Exported energy - thermal

Information describing biogenic carbon content at factory gate

Biogenic carbon content	Value	Unit
Biogenic carbon content in product	41.88	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	70.29%
Variation - product	-3.6%; 2.4%
Variation - site	-

Hazardous substances

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

Contact information

Programme operator

EPD Square, s.r.o.
Lermontovova 3, 811 05
Bratislava, Slovak Republic
Email: info@epdsquare.com

EPD owner

Washroom Washroom Ltd
Units 1-10 Hill Farm, Epping Lane, Abridge
Essex, RM4 1TU, United Kingdom
Email: sales@washroom.co.uk
Website: <https://www.washroom.co.uk/>

Author of Life Cycle Assessment (LCA)

Silvia Vilčeková, Eva Krídlová Burdová, EPD Clarity, s.r.o.
Email: vilcekova@epdclarity.com, aburdova@epdclarity.com
Website: <https://www.epdclarity.com/>

EPD verifier

Daniel Satola, Daniel Satola Consulting
Email: danielsatolaconsulting@gmail.com

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 v1.0.1, 2025

EPD Square, General Programme Instructions v.1, 2024

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

EPD POLYREY HPL®, POLYREY SAS, EPD-WIL-20240581-IBA1-EN

EPD Plywood, Guangxi Fushui Jinlun Woods Co., Ltd, EPD-IES-0017058

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

EPD MEDITE MR MDF, EPDIE-22-101

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.	3.09E+01	3.95E+00	5.48E+00	0.00E+00	5.16E-01	4.15E-01	5.36E-01	-5.06E+00
ODP	kg CFC-11 eq.	9.90E-07	6.90E-08	1.11E-04	0.00E+00	6.15E-09	3.55E-09	2.13E-09	-1.62E-07
AP	kg SO ₂ eq.	2.44E-01	6.73E-03	1.50E-02	0.00E+00	1.10E-03	2.13E-03	5.29E-04	-2.52E-02
EP	kg PO ₄ eq.	3.19E-01	1.82E-03	2.37E-01	0.00E+00	2.72E-04	7.48E-04	3.37E-04	-4.71E-03
POCP	kg C ₂ H ₄ eq.	1.71E-02	6.79E-04	1.57E-03	0.00E+00	1.00E-04	1.64E-04	1.39E-04	-1.89E-03
ADP-M&M	kg Sb eq.	3.83E-04	1.85E-05	2.96E-05	0.00E+00	1.48E-06	1.10E-06	1.81E-07	-4.90E-05
ADP-fossil	MJ	4.63E+02	5.42E+01	7.22E+01	0.00E+00	7.59E+00	3.03E+00	2.31E+00	-5.86E+01

Environmental impacts – GWP-GHG

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP - GHG	kg CO ₂ eq.	4.95E+01	3.98E+00	4.90E+00	0.00E+00	7.53E-01	5.19E-01	4.16E-01	1.06E-01

GWP- GHG: Global Warming Potential, greenhouse gases