

Environmental Product Declaration

Average EPD

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

Legato Benching Range

Washroom Washroom Ltd



Programme

EPD Square | www.epdsquare.com

Programme operator

EPD Square, s.r.o.

EPD Registration number

SQ 00-070

Publication date

18.08.2026

Valid until

17.08.2031

General information

Product

Legato Benching Range

Program operator

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Registration number

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Owner of the declaration

Washroom Washroom Ltd
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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 Benching measuring 300 mm (D) x 450 mm (H)

Mass per DU

14.15 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, Jana Budajová, 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

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

Washroom Washroom offers a versatile range of benching solutions designed to meet the demands of modern changing rooms and end-of-trip facilities. Its benching systems provide durable, ergonomic, and space-efficient seating while combining comfort, functionality, and aesthetic appeal. Available in two main styles, the systems can be tailored to suit a variety of changing room environments and project requirements.

Product information

Product name

Legato Benching Range

Product description

This Environmental Product Declaration covers the Benching manufactured by Washroom, a freestanding or island-configured benching system designed for use in high-traffic commercial and public environments such as end-of-trip facilities, changing rooms, cycle stores, and ancillary welfare spaces. The product is supplied as a complete bench assembly, manufactured off-site and delivered ready for installation. The EPD covers the complete bench assembly as supplied to site, including the MR MDF core seating elements with applied HPL, laminate, or veneer finishes, and the aluminum extrusion support legs and framework. The EPD excludes floor finishes, wall finishes, lockers, ancillary joinery, building structure, and any site-installed services or finishes not supplied as part of the bench assembly.

Product application

The bench seating elements comprise slated seat components manufactured from an 18 mm Medite moisture-resistant MDF (MR MDF) core, faced with decorative surface finishes depending on the selected product option. Finish options include high pressure laminate (HPL) from suppliers such as Greenlam, Fenix, Egger, or Polyrey; compact laminate finishes; or real wood veneer finishes applied to the MR MDF substrate. Exposed edges are machined to a smooth finish with radiused safety corner detailing to ensure durability and user safety. Seat configurations may consist of single or multiple slats, arranged to suit project-specific dimensional and ergonomic requirements. Slat widths, spacing, and overall bench dimensions are configurable within the standard Legato Island Bench system parameters. The supporting structure is formed from floor-fixed aluminum extrusion legs and tubular support frameworks, designed to provide structural stability under high use conditions. The aluminum framework is supplied with adjustable feet to accommodate uneven floor levels and is typically finished in a satin anodized appearance. The bench may be configured as freestanding, island-mounted, wall-mounted, or installed beneath locker systems, subject to project requirements. All fixings supplied as part of the bench assembly are stainless steel and are provided for on-site installation. Optional accessories, such as shoe rails or shoe storage elements, may be available where specified but are not included unless explicitly stated. The Benching is intended for use in commercial, transport, leisure, and workplace facilities where robustness, moisture resistance, and ease of maintenance are required. The product is intended for use in commercial environments.

Geographical scope

United Kingdom

Product contents information

Product components	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%
Aluminum extrusion leg	5.0	0	0
High Pressure Laminate	0.7	0	63
Fenix laminate	0 - 10.67	0	63
Laminated veneer lumber	0 - 0.28	0	63
Medium-density fiberboard panels	4.9	0	91
Polyurethane adhesive	1.89	0	0
TOTAL	12.49 - 22.46	0	44.0
Packaging materials	Weight, kg	Weight-% (versus the product)	
Cardboard box + protection	3.5	28 - 15.6	
Wooden pallet	10	80 - 44.5	
PP strapping	0.2	1.6 - 0.9	
TOTAL	13.7	110 - 61	

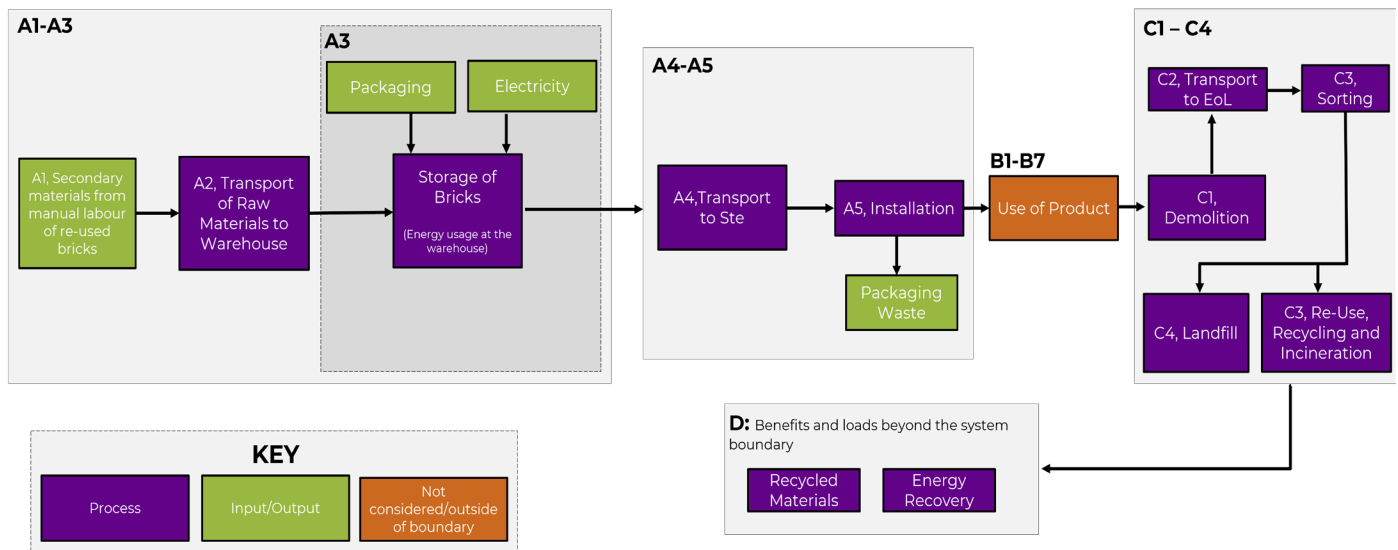
Manufacturing process

The Benching range is manufactured at Washroom Washroom Limited's production facility in Essex, United Kingdom, using a single manufacturing process for all product variants. The production process includes the receipt and inspection of raw materials, CNC cutting and machining of moisture-resistant MDF panels, machining of aluminium extrusion profiles, application of decorative laminate, compact laminate or veneer finishes, bonding using polyurethane adhesive where required, and final mechanical assembly using stainless steel fixings.

The bench seating components are manufactured from 18 mm Medite moisture-resistant MDF with decorative surface finishes selected according to customer specification. The supporting framework consists of aluminium extrusions with adjustable feet and stainless steel hardware. Product variants differ only in the decorative surface finish while maintaining the same manufacturing process and core construction.

Production is carried out using electrically powered manufacturing equipment. Manufacturing electricity consumption is allocated to the product based on annual production output. Packaging materials, including cardboard boxes, pallets and plastic strapping, are incorporated within the production stage (A3).

Quality inspections are undertaken throughout production to verify dimensional accuracy, product quality and compliance with specification prior to packaging and dispatch. Timber offcuts generated during machining are collected and used as fuel in the site's biomass boiler, contributing to energy recovery, while other production wastes are managed according to established waste handling procedures.



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 annual production rate and made with high accuracy and precision. In the production plant, several kinds of products are produced; since the production processes of these products are similar, the annual production percentages are taken into consideration for allocation. According to the ratio of the annual production of the declared product to the total annual production at the factory, the annual total energy consumption, packaging materials and the generated waste per the declared product are allocated.

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 covers the extraction, upstream processing and intermediate production of all materials used in the unit, including the HPL finish, aluminium legs, particleboard cores, and adhesive systems used during assembly. Data were provided directly by the manufacturer. Specific data were collected to reflect the actual inputs and sourcing.

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 considered transportation impacts 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, > 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.

The environmental impacts considered for the production stage cover the manufacturing of the production materials and fuels used by machines. The environmental impacts of this stage have been calculated using the most recent data in regard to what applied in the factory. The data is from 2024. The study considers the losses of main raw materials occurring during the manufacturing process. A mass-based allocation is applied to split the environmental burdens of the site among the finished products. The waste is considered to transfer to the landfill and waste treatment facility. Electricity, heating and propane consumption data were collected directly from the manufacturer, reflecting actual process energy use on-site.

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 transportation impacts considered include exhaust emissions resulting from transportation of final products to construction site as well as the environmental impacts of production of the used fuel. Module includes - Transport, freight, lorry, 3.5-7.5 metric ton, diesel, EURO 6. 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 (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 (C1).

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

At the waste management facility, materials are sorted and routed using Eurostat & BuildLCA treatment splits. Timber-based fractions (MDF/OSB/particleboard) are separated and treated as follows: 26% is recycled (wood chipping/post-consumer chips), 50% is sent to incineration with energy recovery. Energy and resource inputs for sorting, chipping and pre-treatment are included here. 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. Metal components are modelled as aluminium. In line with Eurostat & BuildLCA, 90% is recovered for recycling. Sorting/pressing loads are also included.

Module C4

24% of timber-based fractions (MDF/OSB/particleboard) are landfilled to represent non-recoverable residues and quality losses. Metal components are modelled as aluminium. In line with Eurostat & BuildLCA, 10% is assumed to be landfilled to reflect collection and sorting losses. Adhesive and sealant residues are treated as non-recyclable inert waste and are landfilled, with a representative haulage of 150 km to disposal (C2); no additional processing beyond compliant disposal is assumed.

End of life (C1, C3, C4)

	Value	Unit
Collected separately	12.49 - 22.46	kg
Collected as mixed construction waste	0.00	kg
Reuse	0.00	kg
Recycling	5.96 - 8.55	kg
Energy recovery	2.8 - 7.79	kg
To landfill	4.64 - 7.04	kg

Module D

Module D accounts for benefits and loads beyond the system boundary arising from material recovery and energy substitution. Recycled aluminium is credited with the avoidance of primary aluminium 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.	4.04E+01	1.05E+00	1.69E+01	0.00E+00	2.60E-01	1.75E-01	8.27E-02	-3.33E+01
GWP-fossil	kg CO ₂ eq.	6.41E+01	1.05E+00	7.01E-01	0.00E+00	2.59E-01	1.75E-01	8.26E-02	-3.00E+01
GWP-biogenic	kg CO ₂ eq.	-2.40E+01	0.00E+00	1.62E+01	0.00E+00	3.94E-05	5.92E+00	1.87E+00	-2.61E+00
GWP-LULUC	kg CO ₂ eq.	3.03E-01	3.94E-04	6.12E-04	0.00E+00	1.22E-04	1.85E-04	3.60E-05	-7.47E-01
ODP	kg CFC-11 eq.	3.41E-06	2.28E-08	7.03E-09	0.00E+00	3.83E-09	1.96E-09	2.17E-09	-5.47E-07
AP	mol H ⁺ eq.	3.60E-01	2.19E-03	2.41E-03	0.00E+00	6.87E-04	1.81E-03	6.10E-04	-1.97E-01
EP-freshwater	kg P eq.	1.21E-02	8.62E-05	1.29E-04	0.00E+00	2.89E-05	9.47E-05	6.20E-05	-1.74E-02
EP-marine	kg N eq.	7.12E-02	4.84E-04	2.55E-03	0.00E+00	1.72E-04	5.40E-04	6.33E-04	-2.73E-02
EP-terrestrial	mol N eq.	7.10E-01	5.22E-03	9.04E-03	0.00E+00	1.86E-03	5.66E-03	2.10E-03	-2.48E-01
POCP	kg NMVOC eq.	3.00E-01	3.30E-03	3.14E-03	0.00E+00	1.00E-03	1.57E-03	7.68E-04	-1.07E-01
ADP-M&M	kg Sb eq.	2.56E-04	5.01E-06	2.40E-05	0.00E+00	7.62E-07	7.32E-06	2.02E-07	-6.06E-05
ADP-fossil	MJ	9.23E+02	1.48E+01	1.09E+02	0.00E+00	3.85E+00	2.06E+00	1.60E+00	-4.77E+02
WDP	m ³	2.50E+01	8.65E-02	2.11E-01	0.00E+00	2.28E-02	1.23E-01	5.47E-02	-6.12E+01

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	8.33E-02	5.63E-08	6.07E-08	0.00E+00	2.49E-08	2.36E-08	1.13E-08	-2.29E-06
IRP	kBq U235 eq.	2.97E+00	2.69E-02	1.61E-02	0.00E+00	3.31E-03	1.20E-02	1.89E-03	-8.32E+00
ETP-fw	CTUe	2.15E+03	1.31E+01	5.22E+01	0.00E+00	4.32E+00	2.15E+00	4.52E+03	-8.12E+02
HTP-c	CTUh	1.15E-06	1.89E-10	3.61E-10	0.00E+00	4.28E-11	1.81E-10	2.76E-11	-5.35E-08
HTP-nc	CTUh	3.24E-07	8.86E-09	1.73E-08	0.00E+00	2.45E-09	1.18E-08	2.17E-09	-3.68E-07
SQP	Dimensionless	2.30E+03	6.09E+00	5.65E+00	0.00E+00	3.81E+00	2.88E+00	3.02E+00	-6.02E+01

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	4.38E+02	3.36E-01	-1.98E+02	0.00E+00	5.32E-02	-4.71E+01	-2.27E+01	-1.89E+02
RPEM	MJ	2.57E+02	0.00E+00	-1.96E+02	0.00E+00	0.00E+00	-4.63E+01	-1.46E+01	1.93E+01
TPE	MJ	6.95E+02	3.36E-01	-3.94E+02	0.00E+00	5.32E-02	-9.35E+01	-3.74E+01	-1.70E+02
NRPE	MJ	8.38E+02	1.48E+01	8.41E+01	0.00E+00	3.85E+00	2.06E+00	1.60E+00	-4.77E+02
NRPM	MJ	9.83E+01	0.00E+00	-1.67E+01	0.00E+00	0.00E+00	-6.16E+01	-2.01E+01	3.02E+00
TRPE	MJ	9.36E+02	1.48E+01	6.74E+01	0.00E+00	3.85E+00	-5.95E+01	-1.85E+01	-4.74E+02
SM	kg	6.86E+00	7.91E-03	5.42E-03	0.00E+00	1.61E-03	2.67E-03	5.84E-04	5.01E+00
RSF	MJ	5.54E+00	8.82E-05	4.81E-05	0.00E+00	2.09E-05	7.91E-05	9.79E-06	-9.16E-04
NRSF	MJ	1.34E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W	m ³	1.82E+00	1.99E-03	1.01E-02	0.00E+00	5.77E-04	1.33E-03	-1.45E-02	-1.32E+00

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	1.41E+00	2.28E-02	5.42E-02	0.00E+00	8.36E-03	3.00E-02	3.02E-03	-6.44E+00
NHW	kg	5.17E+01	5.69E-01	1.52E+01	0.00E+00	1.60E-01	3.24E+00	1.41E+01	-8.10E+01
RW	kg	1.45E-02	6.69E-06	2.03E-03	0.00E+00	8.11E-07	3.01E-06	4.60E-07	-2.21E-03

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	4.50E+00	0.00E+00	0.00E+00
MER	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
EEE	MJ	0.00E+00	0.00E+00	7.76E+00	0.00E+00	0.00E+00	6.83E+01	0.00E+00	0.00E+00
ETE	MJ	0.00E+00	0.00E+00	1.07E+01	0.00E+00	0.00E+00	9.41E+00	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	1.49 - 4.98	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	30.64
Variation - product	-31.7; 19.4
Variation - site	-

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, 2024

EPD Square, General Programme Instructions v.1, 2024

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

EPD EGGER Schichtstoff, Fritz EGGER GmbH & Co. OG Holzwerkstoffe, EPD-EGG-20210049-IBC1-DE

EPD MEDITE MR MD, EPDIE-22-101

EPD FENIX® Bloom 0.7mm, Arpa Industriale S.p.A., S-P-07656

EPD FENIX® NTM 12 mm black core, Arpa Industriale S.p.A., S-P-09533

EPD Thin High Pressure Laminates-Less than 2.0mm, Greenlam Industries Limited, S-P-09220

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

EPD Aluminium Profiles Implemented with the Hydro Recycled Aluminium 6.0 Billet Produced By Hydro Aluminium Uk Ltd Tibshelf, Cheltenham And Birtley Sites, S-P-12235

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.	5.33E+01	1.05E+00	6.21E+00	0.00E+00	2.58E-01	1.75E-01	1.59E-01	-3.07E+01
ODP	kg CFC-11 eq.	1.61E-06	1.82E-08	9.50E-09	0.00E+00	3.08E-09	1.62E-09	1.74E-09	-4.54E-07
AP	kg SO ₂ eq.	2.57E-01	1.78E-03	1.26E-02	0.00E+00	5.48E-04	1.41E-03	4.70E-04	-1.70E-01
EP	kg PO ₄ eq.	3.27E-01	4.81E-04	2.20E-03	0.00E+00	1.36E-04	2.79E-04	1.75E-04	-1.49E-02
POCP	kg C ₂ H ₄ eq.	1.86E-02	1.79E-04	2.41E-03	0.00E+00	5.02E-05	8.97E-05	5.12E-05	-1.98E-02
ADP-M&M	kg Sb eq.	1.53E-04	4.88E-06	2.39E-05	0.00E+00	7.41E-07	7.29E-06	1.97E-07	-5.08E-05
ADP-fossil	MJ	6.62E+02	1.43E+01	1.09E+02	0.00E+00	3.80E+00	1.86E+00	1.57E+00	-3.34E+02

Environmental impacts – GWP-GHG

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP - GHG	kg CO ₂ eq.	6.44E+01	1.05E+00	7.02E-01	0.00E+00	2.59E-01	1.75E-01	8.26E-02	-3.07E+01

GWP- GHG: Global Warming Potential, greenhouse gases