Environmental Product Declaration

In accordance with EN 15804+A2 & ISO 14025 / ISO 21930

Desks and Drawers – Living by Bisley

EPD HUB, HUB-1840

Publishing date 22 November 2024, last updated on 22 November 2024, valid until 22 November 2029.

BISLEY

EPD Hub

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Bisley
Address	Bisley, Caswell Way, Reevesland Industrial Estate, Newport, Gwent, NP19 4PW, United Kingdom
Contact details	info@bisley.com
Website	www.bisley.com

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804+A2:2019 and ISO 14025
PCR	EPD Hub Core PCR version 1.1, 5 Dec 2023
Sector	Non-Construction product
Category of EPD	Third-party verified EPD
Parent EPD number	n/a
Scope of the EPD	Cradle to gate with Options, A4-B7 and modules C1-C4, D (Cradle-to-Grave)
EPD author	Nabat Naeimi (Blue marble Environmental Partnerships Ltd.)
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Magaly González Vázquez, as an authorized verifier acting for EPD Hub Limited

The manufacturer has the sole ownership, liability, and responsibility for the EPD. 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 and if they are not compared in a building context.

PRODUCT

Product names	3-drawer desk, 4-drawer chest, 5-drawer chest
Additional labels	-
Product reference	-
Place of production	Newport, Wales
Period for data	31/07/2022 - 31/07/2023
Averaging in EPD	Multiple products
Variation in GWP-fossil for A1-A3	-14% / +26

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 unit
Declared unit mass	73.8 kg
GWP-fossil, A1-A3 (kgCO2e)	80.1
GWP-total, A1-A3 (kgCO2e)	-44.7
Secondary material, inputs (%)	51.2
Secondary material, outputs (%)	46
Total energy use, A1-A3 (kWh)	618
Net freshwater use, A1-A3 (m3)	0.42

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Since launching the iconic MultiDrawer in 1958, Bisley has pioneered innovative storage that meets the challenges of the time and stays relevant, decade after decade. When it comes to creating working environments, Bisley is the name people in over 50 countries turn to for quality they can trust.

Through continued production investment and acquisition, Bisley can combine the strength and durability of steel with the pleasing aesthetic qualities of wood to provide a unique choice of solutions for an extensive range of markets.

PRODUCT DESCRIPTION

This EPD applies to desk and drawer units in the Living by Bisley range. Living by Bisley is a brand-new collection of wooden, single-living furniture, with storage at its heart, designed to withstand the daily wear and tear of everyday life.

Developed by our specialist team of wood manufacturers, harnessing over eighty years of Bisley's design and manufacturing expertise. One can specify a project with choice of practical, easy-clean wood finishes and closures. The design-led, contract grade collection has the flexibility to furnish a variety of sectors including student and military and care homes.

Further information can be found at Living by Bisley • Bisley

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass- %	Material origin
Metals	2	UK
Minerals	0	n/a
Fossil materials	3	UK
Bio-based materials	95	Germany

BIOGENIC CARBON CONTENT

PRODUCT'S BIOGENIC CARBON CONTENT AT THE FACTORY GATE

Biogenic carbon content in product, kg C	30.85
Biogenic carbon content in packaging, kg C	3.27

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 unit
Mass per declared unit	73.4 kg
Functional unit	1 item of bedroom furniture in use for 15 years
Reference service life	15 years

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D		
x	x	x	x	x	MNR	x	MNR	MNR	MNR	MNR	MNR	MNR	x	x	x	x		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstr./demol.	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Modules not declared = MND. Modules not relevant = MNR.

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.
Bisley operates a factory at Newport in Wales, UK, where its steel and wood-based products are manufactured. Wood-based and steel products are made in separate units within the facility.

The main parts of the products are cut from panels of melamine-faced chipboard (MFC). After the main parts are finished, they are combined with small parts such as handles, locks, and cabinet feet in final product assembly. Electricity and heating energy are utilised in the manufacturing process.

Each unit is wrapped in plastic film (LDPE) for protection, with cardboard reinforcement at key points particularly susceptible to damage (e.g. corners); this packaging remains in place until the product reaches the point of use.

Packed products are palletised for transport to customers. Wastes are segregated by Bisley, and many streams consigned to recycling. Most pallets used have been returned to Bisley from its customers or subsidiaries.

Manufacturing wastes include 10% of steel and 20% of wood. Steel wastes produced in manufacturing are assumed to be recycled at a rate of 85% (World Steel Association, 2021). Wood-based manufacturing waste is recycled at a rate of 44.1% (DEFRA, 2022). Transport to waste treatment is via >32 tonne lorry at an assumed distance of 50km.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

Bisley products are sent to Bisley's own distribution subsidiaries, or directly to large customers and major projects, by road or by road and sea. Transportation by road has been modelled at 560km via >32 tonne lorry and transport by sea at 890km via container ship.

No loss occurs during the installation process. Installation is a manual process and no energy and material are required. Packaging waste leaves the system at the point of installation, with pallets / timber recycled at a rate of 44.1% (DEFRA, 2022). 70.6% of cardboard for packaging is recycled (UK Statistics on Waste). All the packaging film is assumed to be sent to landfill as a conservative assumption. It is assumed that waste treatment occurs no more than 50km from the installation site and transport is via >32 tonne lorry.

PRODUCT USE AND MAINTENANCE (B1-B7)

Bisley wood products carry a 5-year warranty. The reference service life for the product range is 15 years. They require no energy or water inputs to function. Under normal use conditions, no replacement parts or maintenance are required during that period. Bisley guidance to customers is that products should be cleaned periodically with mild detergent and warm water. Annual cleaning over the reference period has been assumed.

PRODUCT END OF LIFE (C1-C4, D)

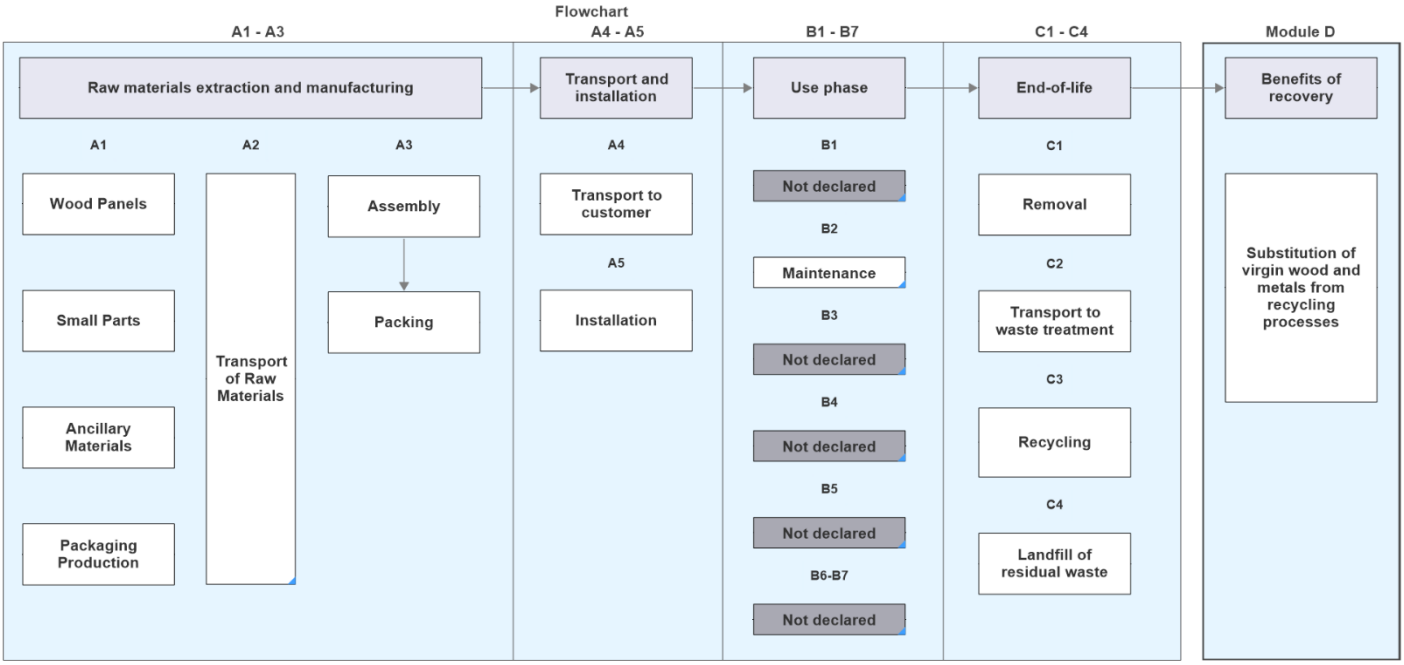
When the user has no further use for Bisley furniture items, they may be reused by others, recycled, or disposed of as non-hazardous waste. Reuse is recommended, but if no route for reuse is available, the product should be recycled or sent for recovery with other wood-based goods.

Wood-based waste is recycled at a rate of 44.1% (DEFRA, 2022). Steel components are assumed to be recycled at a rate of 85% (World Steel Association, 2021).

The demolition stage does not require any energy consumption (C1). It is assumed that waste treatment occurs no more than 50km from the installation site and transport is via >32 tonne lorry.

Benefits from the recycling of metals as well as loads from the recycling process have been accounted for (D). When they become waste, Bisley's wood furniture items are classified with EWC code 03 01 05.

MANUFACTURING PROCESS



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied 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 for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	**Allocation**
Raw materials	No allocation
Packaging materials	Allocated by mass or volume
Ancillary materials	Not applicable
Manufacturing energy and waste	Allocated by mass or volume

AVERAGES AND VARIABILITY

Type of average	Multiple products
Averaging method	Representative product
Variation in GWP-fossil for A1-A3	-14% / +26%

This EPD applies to Bisley Desk and Drawers in the following range of sizes:

4-drawer chest (taken to be the **minimum** case product for GWP fossil)
5-drawer chest (the **base case**, medium sized product within the range)
3-drawer desk (taken to be the **maximum** case product for GWP fossil)

The 5 drawer chest base case product was selected as highly typical due to its typical raw material composition and typical GWP (fossil) content within the range. For this base case product, within units A1-A3, 66 %of GWP fossil impacts are associated with the raw materials, therefore this has been the main comparator for this average.

The range of desk and drawers are all manufactured by Bisley at their facility using a common manufacturing process. The products all share an equivalent purpose (bedroom furniture). Products within this range have very similar raw material composition (chipboard frame, plastic components and steel fixings).

For the Bisley Bed Frame range, the variance against the base case GWP fossil is shown below:

MAX GWP (fossil) value: 86.82 kg CO2 e
MIN GWP (fossil) value: 59.62 kg CO2 e
Base Case Product GWP (fossil) value: 69.05 kg CO2 e

Variance from base case product (max +/- 50%):

26% Max
-14% Min

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.8, Plastics Europe, Federal LCA Commons and One Click LCA databases as sources of environmental data.

ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total[1)]	kg CO_2e	-8.56E+01	6.78E+00	3.41E+01	-4.47E+01	8.96E+00	1.22E+01	MND	2.77E-01	MND	MND	MND	MND	MND	MNR	6.67E-01	6.34E+01	5.17E+01	-1.23E+00
GWP – fossil	kg CO_2e	4.98E+01	6.77E+00	2.35E+01	8.01E+01	8.96E+00	2.22E-01	MND	2.60E-01	MND	MND	MND	MND	MND	MNR	6.66E-01	1.50E+00	6.92E-01	-1.22E+00
GWP – biogenic	kg CO_2e	-1.35E+02	0.00E+00	1.06E+01	-1.25E+02	0.00E+00	1.20E+01	MND	6.94E-18	MND	MND	MND	MND	MND	MNR	0.00E+00	6.19E+01	5.10E+01	0.00E+00
GWP – LULUC	kg CO_2e	5.30E-02	2.61E-03	2.18E-02	7.75E-02	3.88E-03	7.47E-04	MND	1.77E-02	MND	MND	MND	MND	MND	MNR	2.71E-04	7.57E-03	4.91E-04	-8.96E-03
Ozone depletion pot.	kg $CFC\text{-}_{11}e$	6.80E-07	1.53E-06	2.39E-06	4.60E-06	1.96E-06	3.99E-08	MND	3.40E-08	MND	MND	MND	MND	MND	MNR	1.47E-07	2.17E-07	1.41E-07	-2.49E-07
Acidification potential	mol H^+e	1.58E-01	2.84E-02	5.78E-02	2.44E-01	5.72E-02	1.30E-03	MND	1.80E-03	MND	MND	MND	MND	MND	MNR	2.76E-03	9.00E-03	3.99E-03	-7.66E-03
EP-freshwater[2)]	kg Pe	5.62E-04	5.62E-05	2.87E-04	9.05E-04	7.21E-05	4.76E-06	MND	3.00E-05	MND	MND	MND	MND	MND	MNR	5.62E-06	4.10E-05	9.05E-06	4.28E-07
EP-marine	kg Ne	4.51E-02	8.37E-03	1.45E-02	6.80E-02	1.56E-02	5.83E-04	MND	8.32E-04	MND	MND	MND	MND	MND	MNR	8.05E-04	2.78E-03	2.86E-03	-2.89E-03
EP-terrestrial	mol Ne	4.16E-01	9.24E-02	1.59E-01	6.67E-01	1.73E-01	4.50E-03	MND	3.88E-03	MND	MND	MND	MND	MND	MNR	8.88E-03	3.04E-02	1.48E-02	-3.13E-02
POCP ("smog")[3)]	kg NMVOCe	1.16E-01	2.89E-02	5.28E-02	1.98E-01	4.98E-02	1.40E-03	MND	9.59E-04	MND	MND	MND	MND	MND	MNR	2.71E-03	8.57E-03	5.29E-03	-8.87E-03
ADP-minerals & metals[4)]	kg Sbe	1.95E-04	1.92E-05	5.08E-05	2.65E-04	2.97E-05	6.73E-07	MND	4.73E-06	MND	MND	MND	MND	MND	MNR	2.31E-06	8.55E-06	1.60E-06	-4.16E-06
ADP-fossil resources	MJ	9.51E+02	1.00E+02	4.36E+02	1.49E+03	1.28E+02	3.38E+00	MND	4.01E+00	MND	MND	MND	MND	MND	MNR	9.65E+00	2.12E+01	1.08E+01	-1.56E+01
Water use[5)]	m^3e depr.	1.08E+01	4.44E-01	4.03E+00	1.53E+01	5.49E-01	2.93E-02	MND	4.31E-01	MND	MND	MND	MND	MND	MNR	4.23E-02	2.35E-01	6.48E-02	6.62E-02

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO4e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. 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.

ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	1.90E-06	6.92E-07	4.32E-07	3.02E-06	7.24E-07	2.35E-08	MND	1.93E-08	MND	MND	MND	MND	MND	MNR	5.71E-08	1.41E-07	7.97E-08	-1.37E-07
Ionizing radiation[6)]	kBq U235e	2.29E+00	4.72E-01	5.77E+00	8.52E+00	5.96E-01	2.15E-02	MND	1.97E-02	MND	MND	MND	MND	MND	MNR	4.48E-02	1.60E-01	5.22E-02	5.53E-02
Ecotoxicity (freshwater)	CTUe	5.09E+02	9.10E+01	2.02E+02	8.02E+02	1.16E+02	3.75E+00	MND	1.63E+01	MND	MND	MND	MND	MND	MNR	8.89E+00	2.48E+01	1.13E+01	-1.86E+01
Human toxicity, cancer	CTUh	1.72E-07	2.37E-09	1.75E-08	1.91E-07	3.51E-09	1.37E-10	MND	2.97E-10	MND	MND	MND	MND	MND	MNR	2.49E-10	1.04E-09	3.51E-10	1.47E-08
Human tox. non-cancer	CTUh	5.86E-07	8.77E-08	1.42E-07	8.16E-07	1.06E-07	3.35E-09	MND	8.55E-09	MND	MND	MND	MND	MND	MNR	8.28E-09	2.20E-08	1.08E-08	-1.30E-08
SQP[7)]	-	3.78E+03	9.58E+01	1.03E+03	4.90E+03	8.39E+01	4.29E+00	MND	3.45E+00	MND	MND	MND	MND	MND	MNR	6.76E+00	1.60E+01	2.60E+01	-2.17E+01

6) EN 15804+A2 disclaimer for Ionizing radiation, human health. 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; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy[8)]	MJ	7.85E+02	1.15E+00	1.00E+02	8.87E+02	1.46E+00	1.26E-01	MND	9.59E-01	MND	MND	MND	MND	MND	MNR	1.13E-01	1.17E+00	2.01E-01	1.18E-01
Renew. PER as material	MJ	1.41E+03	0.00E+00	-1.30E+02	1.28E+03	0.00E+00	-1.05E+02	MND	0.00E+00	MND	MND	MND	MND	MND	MNR	0.00E+00	-6.43E+02	-5.30E+02	0.00E+00
Total use of renew. PER	MJ	2.19E+03	1.15E+00	-2.92E+01	2.17E+03	1.46E+00	-1.05E+02	MND	9.59E-01	MND	MND	MND	MND	MND	MNR	1.13E-01	-6.42E+02	-5.30E+02	1.18E-01
Non-re. PER as energy	MJ	7.15E+02	1.00E+02	4.25E+02	1.24E+03	1.28E+02	3.38E+00	MND	3.54E+00	MND	MND	MND	MND	MND	MNR	9.65E+00	2.12E+01	1.08E+01	-1.56E+01
Non-re. PER as material	MJ	2.36E+02	0.00E+00	-1.43E+01	2.22E+02	0.00E+00	-1.11E+01	MND	0.00E+00	MND	MND	MND	MND	MND	MNR	0.00E+00	-6.95E+01	-1.41E+02	0.00E+00
Total use of non-re. PER	MJ	9.52E+02	1.00E+02	4.11E+02	1.46E+03	1.28E+02	-7.72E+00	MND	3.54E+00	MND	MND	MND	MND	MND	MNR	9.65E+00	-4.84E+01	-1.31E+02	-1.56E+01
Secondary materials	kg	3.78E+01	3.00E-02	5.17E-01	3.83E+01	4.34E-02	1.54E-03	MND	1.51E-03	MND	MND	MND	MND	MND	MNR	3.17E-03	1.15E-02	3.85E-03	6.46E-01
Renew. secondary fuels	MJ	9.18E+01	3.43E-04	3.51E+00	9.53E+01	5.20E-04	2.75E-05	MND	3.47E-05	MND	MND	MND	MND	MND	MNR	4.09E-05	1.62E-04	1.48E-04	-1.17E-04
Non-ren. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	0.00E+00	MND	MND	MND	MND	MND	MNR	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	m^3	3.11E-01	1.25E-02	9.67E-02	4.20E-01	1.47E-02	1.53E-03	MND	1.01E-02	MND	MND	MND	MND	MND	MNR	1.14E-03	4.82E-03	1.16E-02	4.79E-03

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	6.87E+00	1.38E-01	5.89E-01	7.60E+00	1.84E-01	7.61E-03	MND	2.25E-02	MND	MND	MND	MND	MND	MNR	1.39E-02	7.66E-02	0.00E+00	1.71E-01
Non-hazardous waste	kg	1.70E+01	2.23E+00	1.72E+01	3.65E+01	2.84E+00	4.07E+00	MND	3.84E-01	MND	MND	MND	MND	MND	MNR	2.22E-01	1.70E+00	4.39E+01	2.79E-01
Radioactive waste	kg	1.26E-02	6.66E-04	1.57E-03	1.48E-02	8.52E-04	1.43E-05	MND	8.45E-06	MND	MND	MND	MND	MND	MNR	6.38E-05	1.22E-04	0.00E+00	-8.45E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	0.00E+00	MND	MND	MND	MND	MND	MNR	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	6.66E+00	6.66E+00	0.00E+00	3.05E+00	MND	0.00E+00	MND	MND	MND	MND	MND	MNR	0.00E+00	3.39E+01	0.00E+00	0.00E+00
Materials for energy rec	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	0.00E+00	MND	MND	MND	MND	MND	MNR	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	0.00E+00	MND	MND	MND	MND	MND	MNR	0.00E+00	0.00E+00	0.00E+00	0.00E+00

ENVIRONMENTAL IMPACT – EN15804+A1, CML/ IS0 21930

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot	kg CO_2e	2.29E+01	6.70E+00	2.35E+01	5.31E+01	8.87E+00	5.07E-01	MND	2.55E-01	MND	MND	MND	MND	MND	MNR	6.60E-01	1.48E+00	3.32E+00	-1.21E+00
Ozone depletion Pot	kg CFC-$_{11}$e	1.08E-06	1.21E-06	2.03E-06	4.33E-06	1.55E-06	3.17E-08	MND	3.18E-08	MND	MND	MND	MND	MND	MNR	1.16E-07	1.73E-07	1.12E-07	-1.97E-07
Acidification	kg SO_2e	8.85E-02	2.21E-02	4.58E-02	1.56E-01	4.51E-02	9.97E-04	MND	1.42E-03	MND	MND	MND	MND	MND	MNR	2.15E-03	6.95E-03	3.02E-03	-5.69E-03
Eutrophication	kg PO_4^3e	3.30E-02	5.05E-03	3.74E-02	7.54E-02	8.16E-03	1.18E-02	MND	1.40E-03	MND	MND	MND	MND	MND	MNR	4.93E-04	2.21E-03	1.33E-01	-8.23E-04
POCP (“smog”)	kg C_2H_4e	6.13E-03	8.77E-04	3.89E-03	1.09E-02	1.56E-03	1.02E-04	MND	9.25E-05	MND	MND	MND	MND	MND	MNR	8.73E-05	2.60E-04	7.28E-04	-1.88E-04
ADP-elements	kg Sbe	2.19E-04	1.87E-05	5.03E-05	2.88E-04	2.90E-05	6.56E-07	MND	4.32E-06	MND	MND	MND	MND	MND	MNR	2.25E-06	8.45E-06	1.54E-06	-4.09E-06
ADP-fossil	MJ	4.00E+02	1.00E+02	4.36E+02	9.36E+02	1.28E+02	3.38E+00	MND	4.01E+00	MND	MND	MND	MND	MND	MNR	9.65E+00	2.12E+01	1.08E+01	-1.56E+01

SCALING TABLES FOR DIFFERENT PRODUCT DIMENSIONS

This table refers to non-linearly scaling options within the range. Reported A1-A3 GWP was calculated separately.

Product Data				GWP Impacts (A1-A3)	
Product	**Size**	**Dimensions (H x W x D) mm**	**Mass (approx.)**	**GWP-fossil, A1-A3 (kgCO2e)**	**GWP-total, A1-A3 (kgCO2e)**
4-drawer Chest	Small Unit	932 x 800 x 600	62.3 kg	59.62	-41.24
5-drawer Chest	Medium Unit	1133 x 800 x 600	73.8 kg	69.05	-48.21
3-drawer Desk	Large Unit	730 x 2000 x 600	101.3 kg	86.82	-66.67

VERIFCATION STATEMENT

VERIFICATION PROCESS FOR THIS EPD

This EPD has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents and compliancy with reference standard, ISO 14025, and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration
- The Life-Cycle Assessment used in this EPD
- The digital background data for this EPD

Why does verification transparency matter? Read more online
This EPD has been generated by One Click LCA EPD generator, which has been verified and approved by the EPD Hub.

THIRD-PARTY VERIFICATION STATEMENT

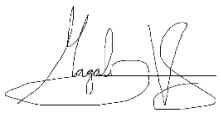
I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried out, the presentation of environmental data in the EPD, and other additional environmental information, as present with respect to the procedural and methodological requirements in ISO 14025:2010 and reference standard.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance.

I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

Magaly González Vázquez, as an authorized verifier acting for EPD Hub Limited
22.11.2024



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