Statement of Verification

BREG EN EPD No: 000784 Issue: 02

This is to verify that the Environmental Product Declaration provided by:

Teknion Furniture Systems (M) Sdn Bhd

are in accordance with the requirements of:

EN 15804:2012+A2:2019

and

BRE Global Scheme Document

This declaration is for:
Metal locker with numbering lock and dimensions of W400 x H1800 x D450mm. Service life of 10 years.

Company Address

Teknion Furniture Systems (M) Sdn Bhd
Lot 761, Jalan Haji Sirat,
Off Jalan Meru,
42100 Klang,
Selangor



Signed for BRE Global Limited

Emma Baker
Operator

Date of this Issue	Date of First Issue	Expiry Date
12 November 2026	21 April 2026	20 April 2031

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Environmental Product Declaration

EPD Number: 000784

General Information

EPD Programme Operator	Applicable Product Category Rules
BRE Global Watford, Herts WD25 9XX United Kingdom	BRE Environmental Profiles 2025 Product Category Rules for Type III environmental product declaration of construction products to EN 15804+A2 PN 514 Rev 3.2
Commissioner of LCA study	**LCA consultant/Tool**
Teknion Furniture Systems (M) Sdn Bhd Lot 761, Jalan Haji Sirat, Off Jalan Meru, 42100 Klang, Selangor	LCA consultant: Grace Ong LCA Tool: BRE LINA A2
Functional Unit	**Applicability/Coverage**
Metal locker with numbering lock in 2-doors/3-doors/4-doors and dimensions of W400 x H1800 x D450mm. Service life of 10 years.	Product specific
EPD Type	**Background database**
Cradle to Grave	Ecoinvent 3.8

Demonstration of Verification
CEN standard EN 15804 serves as the core PCR [a]
Independent verification of the declaration and data according to EN ISO 14025:2010 ☐Internal ☒ External
(Where appropriate [b]) Third party verifier: Kim Allbury
a: Product category rules b: Optional for business-to-business communication; mandatory for business-to-consumer communication (see EN ISO 14025:2010, 9.4)

Comparability
Environmental product declarations from different programmes may not be comparable if not compliant with EN 15804:2012+A2:2019. Comparability is further dependent on the specific product category rules, system boundaries and allocations, and background data sources. See Clause 5.3 of EN 15804:2012+A2:2019 for further guidance

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Information modules covered

Product			Construction		Use stage							End-of-life					Benefits and loads beyond the system boundary
					Related to the building fabric					Related to the building							
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4		D
Raw materials supply	Transport	Manufacturing	Transport to site	Construction – Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction demolition	Transport	Waste processing	Disposal		Reuse, Recovery and/or Recycling potential
☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑		☑

Note: Ticks indicate the Information Modules declared.

Manufacturing site(s)

Teknion Malaysia
Teknion Furniture Systems (M) Sdn Bhd
Lot 761, Jalan Haji Sirat, Off Jalan Meru,
42100 Klang, Selangor

Teknion India
Teknion Furniture Systems (India) Pvt. Ltd.
Ground Floor, Godrej Centre Indiranagar
Old Madras Road, Bengaluru 560038 India

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Construction Product:

Product Description

The metal locker is designed to provide a secure storage for personal items and equipment for office and school building. They are manufactured with high-quality materials, serve as a storage solution to maintain organization, enhance security with individual locks, and endure high-traffic daily use.

The product covered in this study is the front opening personal metal locker with numbering lock provides storage for personal items in two, three and four door configurations with same dimensions: D450 mm x W400mm x H1800mm.

Metal Locker with Numbering Lock			
	Two Doors	Three Doors	Four Doors
Product Code (Malaysia)	WKLSLN2YYYX	WKLSLN3YYYX	WKLSLN4YYYX
Product Code (India)	IWKLSLN2YYYX	IWKLSLN3YYYX	IWKLSLN4YYYX
Product Weight	48kg	56.5kg	45kg

** Product code can be found in brochure and price guide, please reach out to Teknion technical team for more information.

More information about filling & storage: Filing & Storage

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Technical Information

Key technical properties and certifications are shown in the table below. The Reference Service Life (RSL) for all three products included in the EPD is 10 years.

Technical Properties (Tests)	All Configuration
	Value
ANSI/BIFMA X5.9-2019	Pass
ANSI/BIFMA Furniture Emissions Standard (M7.1/X7.1-2011 R2021) Indoor Advantage™ Gold - Registration # SCS-IAQ-05333	Pass

Notes: The above listed technical properties are from the Certificate of Compliance (CoC), and it is an internal document, which will be available upon request. Please contact the technical team for more information.



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Main Product Contents

Like many commercial furniture products, metal locker is available in multiple configurations. For this particular study, a representative configuration was used. The composition of the configuration is provided in the table below.

Material/Chemical Input	2-Doors	3-Doors	4-Doors
Steel	95.31%	94.55%	92.23%
Plastic - ABS	0.15%	0.19%	0.31%
Zinc	2.65%	3.39%	5.65%
Other	1.89%	1.87%	1.82%
Product Weight (kg)	48 kg	56.5 kg	45 kg
Packaging Weight (Cardboard & plastic)	3.11kg	3.11kg	3.11kg
Product Dimension (mm)	D450 x W400 x H1800		

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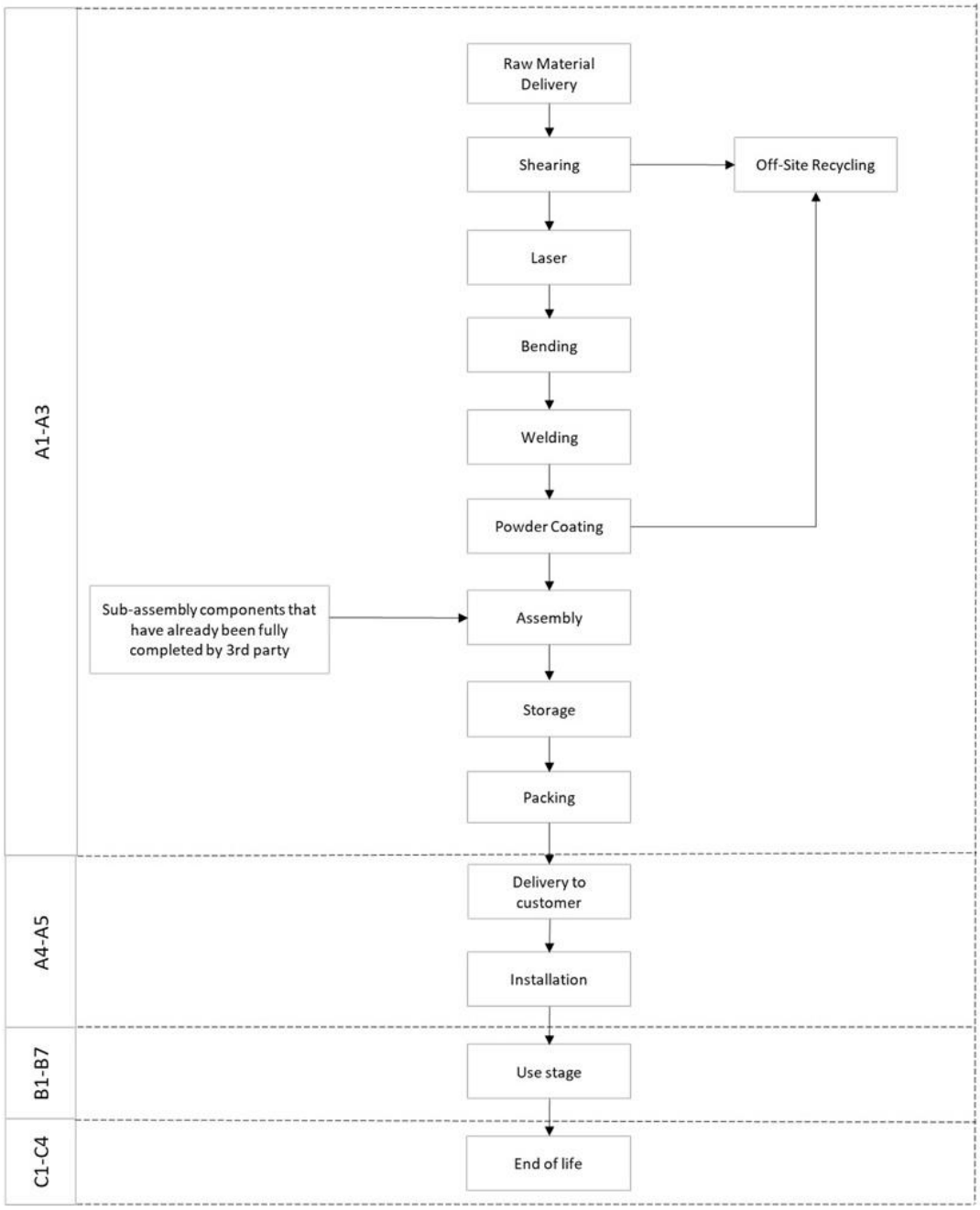
Manufacturing Process

Metal components undergo a comprehensive fabrication process—including cutting, punching, deburring, bending, welding, grinding, and buffing—prior to powder coating. Subsequently, sub-assemblies and metal parts are integrated and packaged for delivery. This manufacturing workflow is standardized across all three locker configurations, ensuring uniform quality and consistency.

Notes: The manufacturing process is the same for all the products in the EPD.

Process flow diagram



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Construction Installation

The product is installed manually using basic hand tools, requiring minimal energy input.

Use Information

No specific maintenance is required and metal locker are expected to outlast their intended lifespan, provided they are maintained according to the recommended care procedures.

End of Life

At the end of the product's life, the metal locker is dismantled, and materials are separated. Energy consumption is minimal due to manual dismantling with no involvement of machinery or power. It is assumed that 100% of the product is recovered at the demolition and sent to the waste processing facility for waste treatment.

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Life Cycle Assessment Calculation Rules

Functional unit description

Metal locker with numbering lock in 2-doors/3-doors/4-doors and dimensions of W400 x H1800 x D450mm. Service life of 10 years.

System boundary

This is a Cradle-to-Grave EPD, reporting the upstream processing stages A1 to A3, construction and Installation (A4-A5), use stages (B1 to B7), end-of-life stages (C1 to C4) and Module D in accordance with EN15804:2012+A2:2019 and BRE 2025 Product Category Rules (PN 514 Rev 3.2). Study period use for the LCA analysis is 10 years.

Data sources, quality and allocation

For the Life Cycle Assessment (LCA) and Environmental Product Declaration (EPD), Teknion utilised specific primary data extracted from its production operations at Teknion Malaysia and India factory, modelled using the LINA A2 LCA and the Ecoinvent 3.8 database. In accordance with the requirements of EN15804:2012 + A2:2019, the most current available data has been used. Manufacturer-specific data has been used for the LCA analysis.
The data represents one unit of the metal locker, based on production period between 01/12/2023 and 30/11/2024 from Teknion Malaysia and India factory. A production quantity of one unit was used, as the data was sourced directly from the ERP system.

The primary production figures are taken from the manufacturers ERP system, and the secondary datasets are derived from Ecoinvent v3.8, and the LCA tool used was BRE LINA A2. The LCA analysis is conducted for the two doors, three doors, four doors metal locker with numbering lock and the dimensions is D1220 x W1220 x H2280mm and the weight is 48kg, 56.5kg and 45kg. For the production process, the facility uses the national grid consumption mix for the production.

In addition to the metal locker, other products are manufactured in the factory. Therefore, the allocation of electricity, fuel, water consumption, and discharge are required. There are multiple configurations and combinations of products produced on the production line (in terms of accessories, finishes etc.). Therefore, allocating energy consumption, water, other waste, and wastewater based on mass would assign higher values to certain products. Instead, using the sales revenue of the product line relative to the total revenue is more accurate. Therefore, energy, water, other waste, and wastewater leaving the factory has been allocated based on the % revenue of the product line over the total revenue. Actual usage figures were employed for raw materials, packaging, and production waste are taken from ERP system.

Upon data review, it was noted that the mass balance is within the acceptable range, and no data uplift has been performed. In addition, no proxy dataset was used for the LCA modelling.

Secondary data has been obtained for all other upstream and downstream processes that are beyond the control of the manufacturer (i.e. raw material production) from the Ecoinvent 3.8 database. All Ecoinvent datasets are complete within the context used and conform to the system boundary and the criteria for the exclusion of inputs and outputs, according to the requirements specified in EN15804+A2:2019. BRE LINA+A2 uses the characterisation factors that are specified in annex C of the 15804 A2 standard.

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ISO14044 guidance. Quality Level	Geographical representativeness	Technical representativeness	Time representativeness
Very Good	Data from area under study.	Data from processes and products under study. Same state of technology applied as defined in goal and scope (i.e., identical technology).	There is approximately less than 3 years between the Ecoinvent LCI reference year, and the time period for which the LCA was undertaken.

The data quality assessment presented above has been carried out in accordance with Table E.1 in the Annex section of the BRE PCR EN 15804+A2 V3.2. Manufacturer country specific datasets have been selected from the Ecoinvent LCI for this LCA, utilizing the allocation, cut-off, EN15804 system model to maintain methodological consistency across all generic upstream and downstream processes. Teknion Malaysia and India uses national grid electricity and natural gas for production, therefore, location based modelling has been followed the LCA analysis following the BRE PCR. The GWP carbon footprint values for 1 kWh is 0.840 kgCO2eq for Malaysian grid electricity, 0.256 kgCO2eq for natural gas (RoW), and 1.30 kgCO2eq for the Indian Southern grid.

The quality level of time representativeness is also Very Good as the background LCI datasets are based on Ecoinvent v3.8 which was compiled in 2021. Therefore, there is less than 5 years between the Ecoinvent LCI reference year and the time period for which the LCA was undertaken.

Cut-off criteria

In the manufacturing site, all raw materials and energy inputs to the manufacturing process have been included, except for direct emissions to air, water, and soil, which are not measured at either manufacturing facility.
In Teknion Malaysia and Teknion India LCA inventory process, all data related to raw materials, packaging materials, and consumable items are included in the modelling.

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LCA Results – 2 doors metal locker - 48kg, manufacturing in Malaysia

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg $(PO_4)^{3-}$ eq
Product stage	Raw material supply	A1	1.40E+02	1.40E+02	2.44E-01	1.16E-01	7.36E-06	6.75E-01	6.51E-02
	Transport	A2	2.39E-01	2.39E-01	1.02E-04	1.09E-04	5.18E-08	2.05E-03	1.63E-05
	Manufacturing	A3	2.06E+01	2.06E+01	-1.19E-01	7.73E-02	1.21E-06	8.61E-02	6.94E-03
	Total (Consumption grid)	A1-3	1.61E+02	1.61E+02	1.24E-01	1.93E-01	8.62E-06	7.63E-01	7.21E-02
Construction process stage	Transport	A4	8.34E-01	8.34E-01	4.42E-04	3.40E-04	1.84E-07	3.45E-03	6.26E-05
	Construction	A5	6.02E-01	6.02E-01	7.54E-05	1.50E-05	2.23E-08	7.34E-04	3.25E-06
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	8.34E-01	8.34E-01	4.42E-04	3.40E-04	1.84E-07	3.45E-03	6.26E-05
	Waste processing	C3	2.80E+00	2.79E+00	9.50E-04	2.66E-04	5.63E-07	2.74E-02	8.24E-05
	Disposal	C4	1.27E-02	1.27E-02	1.25E-05	1.20E-05	5.12E-09	1.19E-04	1.16E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-5.24E+01	-5.25E+01	1.64E-01	-1.49E-02	-2.10E-06	-1.91E-01	-2.08E-02

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
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; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			EP-marine	EP-terrestrial	POCP	ADP-mineral& metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m^3 world eq deprived	disease incidence
Product stage	Raw material supply	A1	1.48E-01	1.42E+00	6.02E-01	2.86E-03	1.55E+03	6.09E+01	1.11E-05
	Transport	A2	5.45E-04	6.01E-03	1.68E-03	7.37E-07	3.44E+00	1.46E-02	1.83E-08
	Manufacturing	A3	1.83E-02	1.66E-01	4.57E-02	2.87E-05	2.75E+02	6.88E+00	4.62E-07
	Total (Consumption grid)	A1-3	1.66E-01	1.60E+00	6.50E-01	2.89E-03	1.82E+03	6.78E+01	1.16E-05
Construction process stage	Transport	A4	1.02E-03	1.11E-02	3.38E-03	2.84E-06	1.23E+01	5.58E-02	7.09E-08
	Construction	A5	3.14E-04	3.28E-03	1.10E-03	1.21E-07	1.42E+00	3.40E-02	1.43E-08
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.02E-03	1.11E-02	3.38E-03	2.84E-06	1.23E+01	5.58E-02	7.09E-08
	Waste processing	C3	1.21E-02	1.33E-01	3.65E-02	1.38E-06	3.61E+01	8.68E-02	7.32E-07
	Disposal	C4	4.14E-05	4.53E-04	1.32E-04	2.89E-08	3.54E-01	1.62E-02	2.40E-09
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-4.52E-02	-4.80E-01	-2.64E-01	-3.96E-05	-5.31E+02	-3.79E+00	-3.51E-06

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Depletion potential of the stratospheric ozone layer;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	7.76E+00	4.55E+03	1.03E-06	4.46E-06	5.15E+02
	Transport	A2	1.57E-02	2.87E+00	9.83E-11	2.67E-09	2.08E+00
	Manufacturing	A3	8.73E-01	3.09E+02	5.38E-09	1.71E-07	1.26E+02
	Total (Consumption grid)	A1-3	8.65E+00	4.86E+03	1.03E-06	4.64E-06	6.43E+02
Construction process stage	Transport	A4	5.60E-02	1.07E+01	3.14E-10	1.03E-08	8.35E+00
	Construction	A5	6.24E-03	1.80E+00	5.86E-11	2.22E-09	2.63E-01
Use Stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	5.60E-02	1.07E+01	3.14E-10	1.03E-08	8.35E+00
	Waste processing	C3	1.63E-01	2.15E+01	8.49E-10	1.56E-08	4.60E+00
	Disposal	C4	1.57E-03	2.23E-01	5.67E-12	1.47E-10	7.42E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-9.56E-01	-1.57E+03	-2.80E-07	-1.08E-06	-1.04E+02

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	1.37E+02	0.00E+00	1.37E+02	1.50E+03	1.37E+01	1.52E+03
	Transport	A2	4.42E-02	0.00E+00	4.42E-02	3.33E+00	0.00E+00	3.33E+00
	Manufacturing	A3	-4.25E+00	4.08E+01	3.66E+01	2.00E+02	1.27E+01	2.13E+02
	Total (Consumption grid)	A1-3	1.33E+02	4.08E+01	1.74E+02	1.70E+03	2.64E+01	1.73E+03
Construction process stage	Transport	A4	1.70E-01	0.00E+00	1.70E-01	1.19E+01	0.00E+00	1.19E+01
	Construction	A5	-4.08E+01	4.09E+01	7.09E-02	-4.64E+00	6.53E+00	1.88E+00
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.70E-01	0.00E+00	1.70E-01	1.19E+01	0.00E+00	1.19E+01
	Waste processing	C3	2.02E-01	0.00E+00	2.02E-01	3.54E+01	0.00E+00	3.54E+01
	Disposal	C4	3.02E-03	0.00E+00	3.02E-03	3.47E-01	0.00E+00	3.47E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-1.11E+01	0.00E+00	-1.11E+01	-5.26E+02	0.00E+00	-5.26E+02

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
PERM = Use of renewable primary energy resources used as raw materials;
PERT = Total use of renewable primary energy resources;
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
PENRM = Use of non-renewable primary energy resources used as raw materials;
PENRT = Total use of non-renewable primary energy resource

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	2.13E+01	0.00E+00	0.00E+00	1.51E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	3.58E-04
	Manufacturing	A3	5.01E-03	0.00E+00	0.00E+00	1.65E-01
	Total (Consumption grid)	A1-3	2.13E+01	0.00E+00	0.00E+00	1.68E+00
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	1.37E-03
	Construction	A5	0.00E+00	0.00E+00	0.00E+00	7.96E-04
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	1.37E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	2.14E-03
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	3.79E-04
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	-9.20E-02

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	5.05E+01	2.53E+02	3.38E-03
	Transport	A2	3.85E-03	6.22E-02	2.30E-05
	Manufacturing	A3	1.42E+00	3.21E+01	3.23E-04
	Total (Consumption grid)	A1-3	5.20E+01	2.85E+02	3.72E-03
Construction process stage	Transport	A4	1.33E-02	2.36E-01	8.16E-05
	Construction	A5	1.56E-02	3.84E-01	1.19E-05
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.33E-02	2.36E-01	8.16E-05
	Waste processing	C3	4.75E-02	3.33E-01	2.49E-04
	Disposal	C4	3.68E-04	5.19E-03	2.32E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-4.85E+00	-9.99E+01	-5.67E-04

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life						
			CRU	MFR	MER	EE
			kg	kg	kg	MJ per energy carrier
Product stage	Raw material supply	A1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Manufacturing	A3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total (Consumption grid)	A1-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	0.00E+00	5.65E+00	2.12E-01	0.00E+00
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

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LCA Results – 3 doors metal locker – 56.5kg, manufacturing in Malaysia

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg $(PO_4)^{3-}$ eq
Product stage	Raw material supply	A1	1.64E+02	1.64E+02	2.87E-01	1.35E-01	8.62E-06	7.93E-01	7.67E-02
	Transport	A2	2.96E-01	2.96E-01	1.20E-04	1.39E-04	6.40E-08	2.82E-03	1.99E-05
	Manufacturing	A3	3.52E+01	3.58E+01	-8.04E-01	1.50E-01	2.08E-06	1.39E-01	1.14E-02
	Total (Consumption grid)	A1-3	1.99E+02	2.00E+02	-5.16E-01	2.86E-01	1.08E-05	9.35E-01	8.81E-02
Construction process stage	Transport	A4	9.82E-01	9.81E-01	5.21E-04	4.00E-04	2.16E-07	4.06E-03	7.37E-05
	Construction	A5	6.02E-01	6.02E-01	7.54E-05	1.50E-05	2.23E-08	7.34E-04	3.25E-06
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	9.82E-01	9.81E-01	5.21E-04	4.00E-04	2.16E-07	4.06E-03	7.37E-05
	Waste processing	C3	3.33E+00	3.33E+00	1.12E-03	3.12E-04	6.60E-07	3.21E-02	9.69E-05
	Disposal	C4	1.49E-02	1.48E-02	1.47E-05	1.40E-05	6.00E-09	1.40E-04	1.36E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-6.17E+01	-6.18E+01	1.92E-01	-1.76E-02	-2.47E-06	-2.25E-01	-2.44E-02

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
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; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			EP-marine	EP-terrestrial	POCP	ADP-mineral& metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m^3 world eq deprived	disease incidence
Product stage	Raw material supply	A1	1.73E-01	1.67E+00	7.04E-01	3.78E-03	1.81E+03	7.12E+01	1.29E-05
	Transport	A2	7.42E-04	8.19E-03	2.27E-03	8.94E-07	4.25E+00	1.77E-02	2.22E-08
	Manufacturing	A3	2.97E-02	2.50E-01	7.26E-02	4.14E-05	4.59E+02	1.30E+01	7.29E-07
	Total (Consumption grid)	A1-3	2.03E-01	1.93E+00	7.79E-01	3.82E-03	2.27E+03	8.43E+01	1.37E-05
Construction process stage	Transport	A4	1.20E-03	1.31E-02	3.98E-03	3.34E-06	1.45E+01	6.57E-02	8.35E-08
	Construction	A5	3.14E-04	3.28E-03	1.10E-03	1.21E-07	1.42E+00	3.40E-02	1.43E-08
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.20E-03	1.31E-02	3.98E-03	3.34E-06	1.45E+01	6.57E-02	8.35E-08
	Waste processing	C3	1.42E-02	1.56E-01	4.28E-02	1.63E-06	4.23E+01	1.03E-01	8.59E-07
	Disposal	C4	4.85E-05	5.31E-04	1.55E-04	3.39E-08	4.15E-01	1.90E-02	2.81E-09
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-5.32E-02	-5.65E-01	-3.10E-01	-4.66E-05	-6.26E+02	-4.47E+00	-4.13E-06

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Depletion potential of the stratospheric ozone layer;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	9.11E+00	5.40E+03	1.21E-06	5.27E-06	6.06E+02
	Transport	A2	1.94E-02	3.52E+00	1.24E-10	3.24E-09	2.50E+00
	Manufacturing	A3	5.19E-01	3.81E+02	8.10E-09	2.50E-07	1.62E+02
	Total (Consumption grid)	A1-3	9.65E+00	5.79E+03	1.22E-06	5.53E-06	7.71E+02
Construction process stage	Transport	A4	6.60E-02	1.26E+01	3.69E-10	1.21E-08	9.83E+00
	Construction	A5	6.24E-03	1.80E+00	5.86E-11	2.22E-09	2.63E-01
Use Stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	6.60E-02	1.26E+01	3.69E-10	1.21E-08	9.83E+00
	Waste processing	C3	1.91E-01	2.54E+01	1.01E-09	1.84E-08	5.40E+00
	Disposal	C4	1.84E-03	2.62E-01	6.64E-12	1.72E-10	8.70E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-1.13E+00	-1.85E+03	-3.30E-07	-1.27E-06	-1.22E+02

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	1.61E+02	0.00E+00	1.61E+02	1.75E+03	1.70E+01	1.77E+03
	Transport	A2	5.37E-02	0.00E+00	5.37E-02	4.12E+00	0.00E+00	4.12E+00
	Manufacturing	A3	9.51E+00	3.69E+01	4.64E+01	3.29E+02	1.39E+01	3.43E+02
	Total (Consumption grid)	A1-3	1.71E+02	3.69E+01	2.08E+02	2.09E+03	3.10E+01	2.12E+03
Construction process stage	Transport	A4	2.00E-01	0.00E+00	2.00E-01	1.40E+01	0.00E+00	1.40E+01
	Construction	A5	-4.08E+01	4.09E+01	7.09E-02	-4.64E+00	6.53E+00	1.88E+00
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	2.00E-01	0.00E+00	2.00E-01	1.40E+01	0.00E+00	1.40E+01
	Waste processing	C3	2.37E-01	0.00E+00	2.37E-01	4.15E+01	0.00E+00	4.15E+01
	Disposal	C4	3.53E-03	0.00E+00	3.53E-03	4.07E-01	0.00E+00	4.07E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-1.31E+01	0.00E+00	-1.31E+01	-6.20E+02	0.00E+00	-6.20E+02

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
PERM = Use of renewable primary energy resources used as raw materials;
PERT = Total use of renewable primary energy resources;
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
PENRM = Use of non-renewable primary energy resources used as raw materials;
PENRT = Total use of non-renewable primary energy resource

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	2.47E+01	0.00E+00	0.00E+00	1.77E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	4.36E-04
	Manufacturing	A3	2.86E+00	0.00E+00	0.00E+00	3.09E-01
	Total (Consumption grid)	A1-3	2.76E+01	0.00E+00	0.00E+00	2.08E+00
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	1.61E-03
	Construction	A5	0.00E+00	0.00E+00	0.00E+00	7.96E-04
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	1.61E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	2.53E-03
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	4.44E-04
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	-1.08E-01

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	5.92E+01	2.95E+02	3.95E-03
	Transport	A2	4.79E-03	7.58E-02	2.85E-05
	Manufacturing	A3	2.47E+00	5.12E+01	2.67E-04
	Total (Consumption grid)	A1-3	6.17E+01	3.47E+02	4.25E-03
Construction process stage	Transport	A4	1.57E-02	2.78E-01	9.61E-05
	Construction	A5	1.56E-02	3.84E-01	1.19E-05
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.57E-02	2.78E-01	9.61E-05
	Waste processing	C3	5.57E-02	3.90E-01	2.92E-04
	Disposal	C4	4.31E-04	6.09E-03	2.72E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-5.71E+00	-1.18E+02	-6.69E-04

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life						
			CRU	MFR	MER	EE
			kg	kg	kg	MJ per energy carrier
Product stage	Raw material supply	A1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Manufacturing	A3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total (Consumption grid)	A1-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	0.00E+00	5.65E+00	2.12E-01	0.00E+00
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

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LCA Results – 4 doors metal locker – 45kg, manufacturing in Malaysia

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg $(PO_4)^{3-}$ eq
Product stage	Raw material supply	A1	1.30E+02	1.30E+02	2.33E-01	1.07E-01	6.82E-06	6.38E-01	6.21E-02
	Transport	A2	2.83E-01	2.82E-01	1.01E-04	1.39E-04	6.06E-08	3.29E-03	1.80E-05
	Manufacturing	A3	4.81E+01	4.85E+01	-7.09E-01	2.05E-01	2.72E-06	1.87E-01	1.56E-02
	Total (Consumption grid)	A1-3	1.79E+02	1.79E+02	-4.76E-01	3.12E-01	9.60E-06	8.27E-01	7.77E-02
Construction process stage	Transport	A4	7.82E-01	7.81E-01	4.15E-04	3.19E-04	1.72E-07	3.23E-03	5.87E-05
	Construction	A5	6.02E-01	6.02E-01	7.54E-05	1.50E-05	2.23E-08	7.34E-04	3.25E-06
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	7.82E-01	7.81E-01	4.15E-04	3.19E-04	1.72E-07	3.23E-03	5.87E-05
	Waste processing	C3	2.79E+00	2.79E+00	9.12E-04	2.52E-04	5.28E-07	2.57E-02	7.81E-05
	Disposal	C4	1.19E-02	1.19E-02	1.17E-05	1.12E-05	4.80E-09	1.11E-04	1.09E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-4.99E+01	-5.01E+01	1.55E-01	-1.43E-02	-2.00E-06	-1.82E-01	-1.98E-02

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
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; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			EP-marine	EP-terrestrial	POCP	ADP-mineral& metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m^3 world eq deprived	disease incidence
Product stage	Raw material supply	A1	1.38E-01	1.33E+00	5.57E-01	4.06E-03	1.44E+03	5.63E+01	1.02E-05
	Transport	A2	8.52E-04	9.42E-03	2.56E-03	8.09E-07	4.01E+00	1.61E-02	2.00E-08
	Manufacturing	A3	3.93E-02	3.16E-01	9.27E-02	5.23E-05	6.20E+02	1.39E+01	8.35E-07
	Total (Consumption grid)	A1-3	1.78E-01	1.66E+00	6.52E-01	4.11E-03	2.07E+03	7.02E+01	1.11E-05
Construction process stage	Transport	A4	9.53E-04	1.04E-02	3.17E-03	2.66E-06	1.15E+01	5.23E-02	6.65E-08
	Construction	A5	3.14E-04	3.28E-03	1.10E-03	1.21E-07	1.42E+00	3.40E-02	1.43E-08
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	9.53E-04	1.04E-02	3.17E-03	2.66E-06	1.15E+01	5.23E-02	6.65E-08
	Waste processing	C3	1.14E-02	1.25E-01	3.42E-02	1.32E-06	3.38E+01	8.49E-02	6.86E-07
	Disposal	C4	3.87E-05	4.24E-04	1.23E-04	2.70E-08	3.31E-01	1.52E-02	2.24E-09
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-4.31E-02	-4.57E-01	-2.51E-01	-3.77E-05	-5.07E+02	-3.63E+00	-3.35E-06

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Depletion potential of the stratospheric ozone layer;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	7.28E+00	4.47E+03	9.77E-07	4.31E-06	4.90E+02
	Transport	A2	1.83E-02	3.25E+00	1.23E-10	2.93E-09	2.21E+00
	Manufacturing	A3	5.72E-01	5.54E+02	1.06E-08	3.45E-07	1.78E+02
	Total (Consumption grid)	A1-3	7.87E+00	5.03E+03	9.88E-07	4.66E-06	6.71E+02
Construction process stage	Transport	A4	5.25E-02	1.00E+01	2.94E-10	9.62E-09	7.83E+00
	Construction	A5	6.24E-03	1.80E+00	5.86E-11	2.22E-09	2.63E-01
Use Stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	5.25E-02	1.00E+01	2.94E-10	9.62E-09	7.83E+00
	Waste processing	C3	1.53E-01	2.06E+01	8.30E-10	1.49E-08	4.32E+00
	Disposal	C4	1.47E-03	2.09E-01	5.31E-12	1.38E-10	6.95E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-9.28E-01	-1.50E+03	-2.67E-07	-1.03E-06	-9.92E+01

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	1.29E+02	0.00E+00	1.29E+02	1.38E+03	1.53E+01	1.40E+03
	Transport	A2	4.87E-02	0.00E+00	4.87E-02	3.89E+00	0.00E+00	3.89E+00
	Manufacturing	A3	1.83E+01	3.69E+01	5.52E+01	4.45E+02	1.31E+01	4.58E+02
	Total (Consumption grid)	A1-3	1.47E+02	3.69E+01	1.84E+02	1.83E+03	2.84E+01	1.86E+03
Construction process stage	Transport	A4	1.59E-01	0.00E+00	1.59E-01	1.11E+01	0.00E+00	1.11E+01
	Construction	A5	-4.08E+01	4.09E+01	7.09E-02	-4.64E+00	6.53E+00	1.88E+00
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.59E-01	0.00E+00	1.59E-01	1.11E+01	0.00E+00	1.11E+01
	Waste processing	C3	1.89E-01	0.00E+00	1.89E-01	3.31E+01	0.00E+00	3.31E+01
	Disposal	C4	2.82E-03	0.00E+00	2.82E-03	3.25E-01	0.00E+00	3.25E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-1.07E+01	0.00E+00	-1.07E+01	-5.02E+02	0.00E+00	-5.02E+02

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
PERM = Use of renewable primary energy resources used as raw materials;
PERT = Total use of renewable primary energy resources;
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
PENRM = Use of non-renewable primary energy resources used as raw materials;
PENRT = Total use of non-renewable primary energy resource

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	1.93E+01	0.00E+00	0.00E+00	1.40E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	3.96E-04
	Manufacturing	A3	2.86E+00	0.00E+00	0.00E+00	3.33E-01
	Total (Consumption grid)	A1-3	2.22E+01	0.00E+00	0.00E+00	1.73E+00
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	1.28E-03
	Construction	A5	0.00E+00	0.00E+00	0.00E+00	7.96E-04
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	1.28E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	2.09E-03
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	3.55E-04
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	-8.83E-02

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	4.72E+01	2.33E+02	3.12E-03
	Transport	A2	4.59E-03	6.92E-02	2.70E-05
	Manufacturing	A3	3.43E+00	7.04E+01	2.92E-04
	Total (Consumption grid)	A1-3	5.07E+01	3.03E+02	3.44E-03
Construction process stage	Transport	A4	1.25E-02	2.21E-01	7.65E-05
	Construction	A5	1.56E-02	3.84E-01	1.19E-05
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.25E-02	2.21E-01	7.65E-05
	Waste processing	C3	4.45E-02	3.11E-01	2.33E-04
	Disposal	C4	3.44E-04	4.86E-03	2.17E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-4.62E+00	-9.53E+01	-5.45E-04

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life						
			CRU	MFR	MER	EE
			kg	kg	kg	MJ per energy carrier
Product stage	Raw material supply	A1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Manufacturing	A3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total (Consumption grid)	A1-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	0.00E+00	5.65E+00	2.12E-01	0.00E+00
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

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LCA Results – 2 doors metal locker - 48kg, manufacturing in India

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg $(PO_4)^{3-}$ eq
Product stage	Raw material supply	A1	1.40E+02	1.40E+02	2.44E-01	1.16E-01	7.36E-06	6.75E-01	6.51E-02
	Transport	A2	5.32E-01	5.31E-01	2.82E-04	2.17E-04	1.17E-07	2.20E-03	3.99E-05
	Manufacturing	A3	5.31E+01	5.35E+01	-4.40E-01	9.26E-03	6.75E-07	2.64E-01	3.12E-02
	Total (Consumption grid)	A1-3	1.94E+02	1.94E+02	-1.96E-01	1.25E-01	8.15E-06	9.41E-01	9.64E-02
Construction process stage	Transport	A4	8.34E-01	8.34E-01	4.42E-04	3.40E-04	1.84E-07	3.45E-03	6.26E-05
	Construction	A5	6.02E-01	6.02E-01	7.54E-05	1.50E-05	2.23E-08	7.34E-04	3.25E-06
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	8.34E-01	8.34E-01	4.42E-04	3.40E-04	1.84E-07	3.45E-03	6.26E-05
	Waste processing	C3	2.80E+00	2.79E+00	9.50E-04	2.66E-04	5.63E-07	2.74E-02	8.24E-05
	Disposal	C4	1.27E-02	1.27E-02	1.25E-05	1.20E-05	5.12E-09	1.19E-04	1.16E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-5.24E+01	-5.25E+01	1.64E-01	-1.49E-02	-2.10E-06	-1.91E-01	-2.08E-02

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
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; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			EP-marine	EP-terrestrial	POCP	ADP-mineral& metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m^3 world eq deprived	disease incidence
Product stage	Raw material supply	A1	1.48E-01	1.42E+00	6.02E-01	2.86E-03	1.55E+03	6.09E+01	1.11E-05
	Transport	A2	6.48E-04	7.08E-03	2.15E-03	1.81E-06	7.83E+00	3.55E-02	4.52E-08
	Manufacturing	A3	5.71E-02	5.75E-01	1.47E-01	5.27E-05	6.66E+02	9.29E+00	9.60E-07
	Total (Consumption grid)	A1-3	2.05E-01	2.01E+00	7.52E-01	2.92E-03	2.22E+03	7.02E+01	1.21E-05
Construction process stage	Transport	A4	1.02E-03	1.11E-02	3.38E-03	2.84E-06	1.23E+01	5.58E-02	7.09E-08
	Construction	A5	3.14E-04	3.28E-03	1.10E-03	1.21E-07	1.42E+00	3.40E-02	1.43E-08
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.02E-03	1.11E-02	3.38E-03	2.84E-06	1.23E+01	5.58E-02	7.09E-08
	Waste processing	C3	1.21E-02	1.33E-01	3.65E-02	1.38E-06	3.61E+01	8.68E-02	7.32E-07
	Disposal	C4	4.14E-05	4.53E-04	1.32E-04	2.89E-08	3.54E-01	1.62E-02	2.40E-09
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-4.52E-02	-4.80E-01	-2.64E-01	-3.96E-05	-5.31E+02	-3.79E+00	-3.51E-06

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Depletion potential of the stratospheric ozone layer;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	7.76E+00	4.55E+03	1.03E-06	4.46E-06	5.15E+02
	Transport	A2	3.57E-02	6.81E+00	2.00E-10	6.54E-09	5.32E+00
	Manufacturing	A3	2.53E+00	1.48E+03	1.36E-08	6.81E-07	1.96E+02
	Total (Consumption grid)	A1-3	1.03E+01	6.04E+03	1.04E-06	5.15E-06	7.16E+02
Construction process stage	Transport	A4	5.60E-02	1.07E+01	3.14E-10	1.03E-08	8.35E+00
	Construction	A5	6.24E-03	1.80E+00	5.86E-11	2.22E-09	2.63E-01
Use Stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	5.60E-02	1.07E+01	3.14E-10	1.03E-08	8.35E+00
	Waste processing	C3	1.63E-01	2.15E+01	8.49E-10	1.56E-08	4.60E+00
	Disposal	C4	1.57E-03	2.23E-01	5.67E-12	1.47E-10	7.42E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-9.56E-01	-1.57E+03	-2.80E-07	-1.08E-06	-1.04E+02

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	1.37E+02	0.00E+00	1.37E+02	1.50E+03	1.37E+01	1.52E+03
	Transport	A2	1.08E-01	0.00E+00	1.08E-01	7.55E+00	0.00E+00	7.55E+00
	Manufacturing	A3	1.31E+01	4.08E+01	5.39E+01	6.49E+02	1.26E+01	6.62E+02
	Total (Consumption grid)	A1-3	1.50E+02	4.08E+01	1.91E+02	2.16E+03	2.64E+01	2.18E+03
Construction process stage	Transport	A4	1.70E-01	0.00E+00	1.70E-01	1.19E+01	0.00E+00	1.19E+01
	Construction	A5	-4.08E+01	4.09E+01	7.09E-02	-4.64E+00	6.53E+00	1.88E+00
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.70E-01	0.00E+00	1.70E-01	1.19E+01	0.00E+00	1.19E+01
	Waste processing	C3	2.02E-01	0.00E+00	2.02E-01	3.54E+01	0.00E+00	3.54E+01
	Disposal	C4	3.02E-03	0.00E+00	3.02E-03	3.47E-01	0.00E+00	3.47E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-1.11E+01	0.00E+00	-1.11E+01	-5.26E+02	0.00E+00	-5.26E+02

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
PERM = Use of renewable primary energy resources used as raw materials;
PERT = Total use of renewable primary energy resources;
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
PENRM = Use of non-renewable primary energy resources used as raw materials;
PENRT = Total use of non-renewable primary energy resource

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	2.13E+01	0.00E+00	0.00E+00	1.51E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	8.73E-04
	Manufacturing	A3	4.13E-03	0.00E+00	0.00E+00	2.23E-01
	Total (Consumption grid)	A1-3	2.13E+01	0.00E+00	0.00E+00	1.74E+00
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	1.37E-03
	Construction	A5	0.00E+00	0.00E+00	0.00E+00	7.96E-04
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	1.37E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	2.14E-03
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	3.79E-04
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	-9.20E-02

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	5.05E+01	2.53E+02	3.38E-03
	Transport	A2	8.47E-03	1.50E-01	5.20E-05
	Manufacturing	A3	4.10E+00	1.47E+02	7.62E-04
	Total (Consumption grid)	A1-3	5.46E+01	4.00E+02	4.19E-03
Construction process stage	Transport	A4	1.33E-02	2.36E-01	8.16E-05
	Construction	A5	1.56E-02	3.84E-01	1.19E-05
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.33E-02	2.36E-01	8.16E-05
	Waste processing	C3	4.75E-02	3.33E-01	2.49E-04
	Disposal	C4	3.68E-04	5.19E-03	2.32E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-4.85E+00	-9.99E+01	-5.67E-04

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life						
			CRU	MFR	MER	EE
			kg	kg	kg	MJ per energy carrier
Product stage	Raw material supply	A1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Manufacturing	A3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total (Consumption grid)	A1-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	0.00E+00	5.65E+00	2.12E-01	0.00E+00
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

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LCA Results – 3 doors metal locker – 56.5kg, manufacturing in India

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg $(PO_4)^{3-}$ eq
Product stage	Raw material supply	A1	1.64E+02	1.64E+02	2.87E-01	1.35E-01	8.62E-06	7.93E-01	7.67E-02
	Transport	A2	6.18E-01	6.17E-01	3.28E-04	2.52E-04	1.36E-07	2.56E-03	4.64E-05
	Manufacturing	A3	8.85E+01	8.98E+01	-1.35E+00	2.31E-02	1.04E-06	4.36E-01	5.23E-02
	Total (Consumption grid)	A1-3	2.53E+02	2.54E+02	-1.06E+00	1.58E-01	9.79E-06	1.23E+00	1.29E-01
Construction process stage	Transport	A4	9.82E-01	9.81E-01	5.21E-04	4.00E-04	2.16E-07	4.06E-03	7.37E-05
	Construction	A5	6.02E-01	6.02E-01	7.54E-05	1.50E-05	2.23E-08	7.34E-04	3.25E-06
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	9.82E-01	9.81E-01	5.21E-04	4.00E-04	2.16E-07	4.06E-03	7.37E-05
	Waste processing	C3	3.33E+00	3.33E+00	1.12E-03	3.12E-04	6.60E-07	3.21E-02	9.69E-05
	Disposal	C4	1.49E-02	1.48E-02	1.47E-05	1.40E-05	6.00E-09	1.40E-04	1.36E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-6.17E+01	-6.18E+01	1.92E-01	-1.76E-02	-2.47E-06	-2.25E-01	-2.44E-02

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
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; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			EP-marine	EP-terrestrial	POCP	ADP-mineral& metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m^3 world eq deprived	disease incidence
Product stage	Raw material supply	A1	1.73E-01	1.67E+00	7.04E-01	3.78E-03	1.81E+03	7.12E+01	1.29E-05
	Transport	A2	7.53E-04	8.23E-03	2.50E-03	2.10E-06	9.10E+00	4.13E-02	5.26E-08
	Manufacturing	A3	9.61E-02	9.41E-01	2.43E-01	8.10E-05	1.10E+03	1.39E+01	1.57E-06
	Total (Consumption grid)	A1-3	2.70E-01	2.62E+00	9.50E-01	3.86E-03	2.92E+03	8.52E+01	1.46E-05
Construction process stage	Transport	A4	1.20E-03	1.31E-02	3.98E-03	3.34E-06	1.45E+01	6.57E-02	8.35E-08
	Construction	A5	3.14E-04	3.28E-03	1.10E-03	1.21E-07	1.42E+00	3.40E-02	1.43E-08
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.20E-03	1.31E-02	3.98E-03	3.34E-06	1.45E+01	6.57E-02	8.35E-08
	Waste processing	C3	1.42E-02	1.56E-01	4.28E-02	1.63E-06	4.23E+01	1.03E-01	8.59E-07
	Disposal	C4	4.85E-05	5.31E-04	1.55E-04	3.39E-08	4.15E-01	1.90E-02	2.81E-09
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-5.32E-02	-5.65E-01	-3.10E-01	-4.66E-05	-6.26E+02	-4.47E+00	-4.13E-06

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Depletion potential of the stratospheric ozone layer;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	9.11E+00	5.40E+03	1.21E-06	5.27E-06	6.06E+02
	Transport	A2	4.15E-02	7.92E+00	2.32E-10	7.60E-09	6.18E+00
	Manufacturing	A3	3.35E+00	2.39E+03	2.20E-08	1.12E-06	2.79E+02
	Total (Consumption grid)	A1-3	1.25E+01	7.80E+03	1.23E-06	6.40E-06	8.91E+02
Construction process stage	Transport	A4	6.60E-02	1.26E+01	3.69E-10	1.21E-08	9.83E+00
	Construction	A5	6.24E-03	1.80E+00	5.86E-11	2.22E-09	2.63E-01
Use Stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	6.60E-02	1.26E+01	3.69E-10	1.21E-08	9.83E+00
	Waste processing	C3	1.91E-01	2.54E+01	1.01E-09	1.84E-08	5.40E+00
	Disposal	C4	1.84E-03	2.62E-01	6.64E-12	1.72E-10	8.70E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-1.13E+00	-1.85E+03	-3.30E-07	-1.27E-06	-1.22E+02

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	1.61E+02	0.00E+00	1.61E+02	1.75E+03	1.70E+01	1.77E+03
	Transport	A2	1.26E-01	0.00E+00	1.26E-01	8.78E+00	0.00E+00	8.78E+00
	Manufacturing	A3	3.79E+01	3.69E+01	7.48E+01	1.08E+03	1.39E+01	1.09E+03
	Total (Consumption grid)	A1-3	1.99E+02	3.69E+01	2.36E+02	2.84E+03	3.10E+01	2.87E+03
Construction process stage	Transport	A4	2.00E-01	0.00E+00	2.00E-01	1.40E+01	0.00E+00	1.40E+01
	Construction	A5	-4.08E+01	4.09E+01	7.09E-02	-4.64E+00	6.53E+00	1.88E+00
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	2.00E-01	0.00E+00	2.00E-01	1.40E+01	0.00E+00	1.40E+01
	Waste processing	C3	2.37E-01	0.00E+00	2.37E-01	4.15E+01	0.00E+00	4.15E+01
	Disposal	C4	3.53E-03	0.00E+00	3.53E-03	4.07E-01	0.00E+00	4.07E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-1.31E+01	0.00E+00	-1.31E+01	-6.20E+02	0.00E+00	-6.20E+02

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
PERM = Use of renewable primary energy resources used as raw materials;
PERT = Total use of renewable primary energy resources;
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
PENRM = Use of non-renewable primary energy resources used as raw materials;
PENRT = Total use of non-renewable primary energy resource

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	2.47E+01	0.00E+00	0.00E+00	1.77E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	1.01E-03
	Manufacturing	A3	2.85E+00	0.00E+00	0.00E+00	3.33E-01
	Total (Consumption grid)	A1-3	2.76E+01	0.00E+00	0.00E+00	2.11E+00
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	1.61E-03
	Construction	A5	0.00E+00	0.00E+00	0.00E+00	7.96E-04
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	1.61E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	2.53E-03
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	4.44E-04
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	-1.08E-01

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	5.92E+01	2.95E+02	3.95E-03
	Transport	A2	9.85E-03	1.75E-01	6.04E-05
	Manufacturing	A3	6.89E+00	2.45E+02	1.02E-03
	Total (Consumption grid)	A1-3	6.61E+01	5.41E+02	5.03E-03
Construction process stage	Transport	A4	1.57E-02	2.78E-01	9.61E-05
	Construction	A5	1.56E-02	3.84E-01	1.19E-05
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.57E-02	2.78E-01	9.61E-05
	Waste processing	C3	5.57E-02	3.90E-01	2.92E-04
	Disposal	C4	4.31E-04	6.09E-03	2.72E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-5.71E+00	-1.18E+02	-6.69E-04

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life						
			CRU	MFR	MER	EE
			kg	kg	kg	MJ per energy carrier
Product stage	Raw material supply	A1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Manufacturing	A3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total (Consumption grid)	A1-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	0.00E+00	5.65E+00	2.12E-01	0.00E+00
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

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LCA Results – 4 doors metal locker – 45kg, manufacturing in India

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg $(PO_4)^{3-}$ eq
Product stage	Raw material supply	A1	1.30E+02	1.30E+02	2.33E-01	1.07E-01	6.82E-06	6.38E-01	6.21E-02
	Transport	A2	4.97E-01	4.97E-01	2.63E-04	2.03E-04	1.09E-07	2.06E-03	3.73E-05
	Manufacturing	A3	1.23E+02	1.25E+02	-1.51E+00	2.53E-02	1.25E-06	6.05E-01	7.33E-02
	Total (Consumption grid)	A1-3	2.54E+02	2.55E+02	-1.27E+00	1.32E-01	8.17E-06	1.25E+00	1.35E-01
Construction process stage	Transport	A4	7.82E-01	7.81E-01	4.15E-04	3.19E-04	1.72E-07	3.23E-03	5.87E-05
	Construction	A5	6.02E-01	6.02E-01	7.54E-05	1.50E-05	2.23E-08	7.34E-04	3.25E-06
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	7.82E-01	7.81E-01	4.15E-04	3.19E-04	1.72E-07	3.23E-03	5.87E-05
	Waste processing	C3	2.79E+00	2.79E+00	9.12E-04	2.52E-04	5.28E-07	2.57E-02	7.81E-05
	Disposal	C4	1.19E-02	1.19E-02	1.17E-05	1.12E-05	4.80E-09	1.11E-04	1.09E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-4.99E+01	-5.01E+01	1.55E-01	-1.43E-02	-2.00E-06	-1.82E-01	-1.98E-02

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
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; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			EP-marine	EP-terrestrial	POCP	ADP-mineral& metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m^3 world eq deprived	disease incidence
Product stage	Raw material supply	A1	1.38E-01	1.33E+00	5.57E-01	4.06E-03	1.44E+03	5.63E+01	1.02E-05
	Transport	A2	6.06E-04	6.62E-03	2.01E-03	1.69E-06	7.32E+00	3.32E-02	4.23E-08
	Manufacturing	A3	1.31E-01	1.29E+00	3.33E-01	1.08E-04	1.52E+03	1.88E+01	2.01E-06
	Total (Consumption grid)	A1-3	2.69E-01	2.63E+00	8.93E-01	4.17E-03	2.97E+03	7.51E+01	1.23E-05
Construction process stage	Transport	A4	9.53E-04	1.04E-02	3.17E-03	2.66E-06	1.15E+01	5.23E-02	6.65E-08
	Construction	A5	3.14E-04	3.28E-03	1.10E-03	1.21E-07	1.42E+00	3.40E-02	1.43E-08
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	9.53E-04	1.04E-02	3.17E-03	2.66E-06	1.15E+01	5.23E-02	6.65E-08
	Waste processing	C3	1.14E-02	1.25E-01	3.42E-02	1.32E-06	3.38E+01	8.49E-02	6.86E-07
	Disposal	C4	3.87E-05	4.24E-04	1.23E-04	2.70E-08	3.31E-01	1.52E-02	2.24E-09
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-4.31E-02	-4.57E-01	-2.51E-01	-3.77E-05	-5.07E+02	-3.63E+00	-3.35E-06

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Depletion potential of the stratospheric ozone layer;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	7.28E+00	4.47E+03	9.77E-07	4.31E-06	4.90E+02
	Transport	A2	3.34E-02	6.37E+00	1.87E-10	6.11E-09	4.97E+00
	Manufacturing	A3	4.56E+00	3.35E+03	2.98E-08	1.56E-06	3.43E+02
	Total (Consumption grid)	A1-3	1.19E+01	7.83E+03	1.01E-06	5.87E-06	8.38E+02
Construction process stage	Transport	A4	5.25E-02	1.00E+01	2.94E-10	9.62E-09	7.83E+00
	Construction	A5	6.24E-03	1.80E+00	5.86E-11	2.22E-09	2.63E-01
Use Stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	5.25E-02	1.00E+01	2.94E-10	9.62E-09	7.83E+00
	Waste processing	C3	1.53E-01	2.06E+01	8.30E-10	1.49E-08	4.32E+00
	Disposal	C4	1.47E-03	2.09E-01	5.31E-12	1.38E-10	6.95E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-9.27E-01	-1.50E+03	-2.67E-07	-1.03E-06	-9.92E+01

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	1.29E+02	0.00E+00	1.29E+02	1.38E+03	1.53E+01	1.40E+03
	Transport	A2	1.01E-01	0.00E+00	1.01E-01	7.06E+00	0.00E+00	7.06E+00
	Manufacturing	A3	5.79E+01	3.69E+01	9.49E+01	1.50E+03	1.29E+01	1.51E+03
	Total (Consumption grid)	A1-3	1.87E+02	3.69E+01	2.24E+02	2.89E+03	2.82E+01	2.92E+03
Construction process stage	Transport	A4	1.59E-01	0.00E+00	1.59E-01	1.11E+01	0.00E+00	1.11E+01
	Construction	A5	-4.08E+01	4.09E+01	7.09E-02	-4.64E+00	6.53E+00	1.88E+00
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.59E-01	0.00E+00	1.59E-01	1.11E+01	0.00E+00	1.11E+01
	Waste processing	C3	1.89E-01	0.00E+00	1.89E-01	3.31E+01	0.00E+00	3.31E+01
	Disposal	C4	2.82E-03	0.00E+00	2.82E-03	3.25E-01	0.00E+00	3.25E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-1.07E+01	0.00E+00	-1.07E+01	-5.02E+02	0.00E+00	-5.02E+02

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
PERM = Use of renewable primary energy resources used as raw materials;
PERT = Total use of renewable primary energy resources;
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
PENRM = Use of non-renewable primary energy resources used as raw materials;
PENRT = Total use of non-renewable primary energy resource

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	1.93E+01	0.00E+00	0.00E+00	1.40E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	8.16E-04
	Manufacturing	A3	2.85E+00	0.00E+00	0.00E+00	4.49E-01
	Total (Consumption grid)	A1-3	2.22E+01	0.00E+00	0.00E+00	1.85E+00
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	1.28E-03
	Construction	A5	0.00E+00	0.00E+00	0.00E+00	7.96E-04
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	1.28E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	2.09E-03
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	3.55E-04
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	-8.82E-02

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	4.72E+01	2.33E+02	3.12E-03
	Transport	A2	7.92E-03	1.41E-01	4.86E-05
	Manufacturing	A3	9.66E+00	3.44E+02	1.35E-03
	Total (Consumption grid)	A1-3	5.69E+01	5.77E+02	4.52E-03
Construction process stage	Transport	A4	1.25E-02	2.21E-01	7.65E-05
	Construction	A5	1.56E-02	3.84E-01	1.19E-05
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.25E-02	2.21E-01	7.65E-05
	Waste processing	C3	4.45E-02	3.11E-01	2.33E-04
	Disposal	C4	3.44E-04	4.86E-03	2.17E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-4.62E+00	-9.53E+01	-5.45E-04

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life						
			CRU	MFR	MER	EE
			kg	kg	kg	MJ per energy carrier
Product stage	Raw material supply	A1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Manufacturing	A3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total (Consumption grid)	A1-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	0.00E+00	5.65E+00	2.12E-01	0.00E+00
Use stage	Use stage	B1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Maintenance	B2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Replacement	B4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Refurbishment	B5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational energy use	B6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Operational water use	B7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

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Information on biogenic carbon content

Biogenic Carbon Content		Units	Results
Two Doors	Biogenic carbon (product)	kg C	0.00E+00
	Biogenic carbon (packaging)	kg C	1.34E+00
Three Doors	Biogenic carbon (product)	kg C	0.00E+00
	Biogenic carbon (packaging)	kg C	1.34E+00
Four Doors	Biogenic carbon (product)	kg C	0.00E+00
	Biogenic carbon (packaging)	kg C	1.34E+00

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO_2.

Scenarios and additional technical information

Scenarios and additional technical information			
Scenario	Parameter	Units	Results
A4 – Transport to the building site	Products manufactured in Malaysia are distributed both domestically and internationally, covering the Asia region, Australia, and the Middle East. Conversely, products manufactured in India are distributed exclusively within the domestic Indian market. For the transport modelling in this LCA, module A4 utilizes a baseline road transport distance of 100 km. This represents a typical delivery distance from the Teknion manufacturing site to the construction site. However, end-users of the EPD can use this information to calculate the impacts of a bespoke transport distance for module A4 if required.		
Transport 1	Road transport –16-32 metric ton lorry	km	100
	Fuel consumption	l/km	0.227
	Capacity utilisation (incl. empty returns)	%	26
A5 – Installation in the building	The product is installed manually using basic hand tools, requiring minimal energy input. Therefore, no product waste is generated during installation, and only packaging waste is produced.		
Installation waste	Installation wastage rate	%	0
	Packaging waste – Cardboard waste to recycling	kg	2.89518
	Packaging waste – Plastic waste to incineration	kg	0.212
B1 – Use stage	Once installed, no emission to air, water, and soil throughout the service life of the product.		
B2 - Maintenance	Once installed, the product is ready for use. Throughout its 10-years reference service life, this product requires no maintenance, repair, replacement, and refurbishment. This product does not contain components that consume energy during use stage; therefore, no operational energy and operational water are required.		
B3 - Repair			
B4 - Replacement			
B5 - Refurbishment			

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Scenarios and additional technical information			
Scenario	Parameter	Units	Results
B6 - Operational energy use			
B7 - Operational water use			
Reference service life	10 years		
Study period used	10 years		
Design Application Parameters	Use as indicated in product brochure, user instruction and warranty		
C1 – Deconstruction	At the end of the product's life, the metal locker is dismantled, and materials are separated. Energy consumption is minimal due to manual dismantling with no involvement of machinery or power. It is assumed that 100% of the product is recovered at the demolition and sent to the waste processing facility for waste treatment.		
C2 – Transportation	In this analysis, 100km by road modelled for module C2 as a typical distance from the demolition site to the pre-processing unit. However, end-users of the EPD can use this information to calculate the impacts of a bespoke transport distance for module C2 if required		
	Road transport by Lorry 16 - 32 metric ton	km	100
C3 – waste processing	The metal locker is made up of steel, ABS, Zinc and powder coating. According to the BRE PCR EN15804+A2, the following end of life scenarios will be applied to the materials: • Metal components such as steel and aluminium will be 95% recycled and reused while 5% may end up in landfill. Steel and aluminium recycling will involve a process of collecting, separating, compacting, shredding, heating, refining, and solidifying. The powder coating cannot be separated out from the final waste so it is assumed that this will end up in landfill. • Mixed plastic components will be incinerated for energy recovery (e.g. heat, electricity.) • Zinc cannot be separated from the final waste because of the less quantity, which is less than 5% of the overall composition, therefore in this analysis its assumed as the zinc waste quantity has been treated as a steel waste (same assumption has been followed in the Module D calculation).		
2-Doors	Steel waste to recycle - 95%	kg	45.68
	Plastic waste to incinerate- 100%	kg	0.07
3-Doors	Steel waste to recycle - 95%	kg	53.54
	Plastic waste to incinerate- 100%	kg	0.11
4-Doors	Steel waste to recycle - 95%	kg	42.76
	Plastic waste to incinerate- 100%	kg	0.14

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Scenarios and additional technical information			
Scenario	Parameter	Units	Results
C4 – Disposal	Some materials cannot be recycled during waste processing process and may end up in landfill.		
2-Doors	Steel waste to landfill (with zinc and powder coating waste) – 5%	kg	2.80
3-Doors	Steel waste to landfill (with zinc and powder coating waste) – 5%	kg	3.26
4-Doors	Steel waste to landfill (with zinc and powder coating waste) – 5%	kg	2.54
Module D	The metal locker is made up of post-consumer and virgin materials. When calculating the benefits of recycling steel and zinc, the pre-existing recycled content has been removed, and the benefits have been calculated only for virgin steel and zinc. The pre-existing recycled content in the Ecoinvent 3.8 Steel dataset is 36.4%; therefore, the benefits have been calculated by excluding the recycled content. That is, the benefits are calculated based solely on the virgin steel content. Yield is assumed to be 100% during the recycling process. The incineration benefits have been calculated for plastic mixture waste. The incinerated energy and heat will replace the European average mix. Benefits due to recycling and Incineration is as below:		
2-Doors	Pre - existing recycled content (Post-consumer waste)	kg	14.70
	Benefits due to recycling of virgin steel	kg	31.00
	Plastic	kg	0.07
3-Doors	Pre - existing recycled content (Post-consumer waste)	kg	17.10
	Benefits due to recycling of virgin steel	kg	36.54
	Plastic	kg	0.10
4-Doors	Pre - existing recycled content (Post-consumer waste)	kg	13.33
	Benefits due to recycling of virgin steel	kg	29.56
	Plastic	kg	0.14

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Interpretation of results

The bulk of the environmental impacts and primary energy demand are attributed to the manufacturing phase, covered by information modules A1-A3 of EN15804:2012+A2:2019. The results in the charts reflect the environmental impact of different processes involved in the production and lifecycle of the metal locker, with a focus on Global Warming Potential (GWP) in $kgCO_2$ equivalent. The analysis reveals that the highest carbon emissions are associated with steel, low-alloyed production, which contributes approximately 60% of overall impacts. Then followed by energy consumption during the manufacturing phase. The recycling processes and transportation have comparatively lower impacts, each contributing around 3% of the overall impact. This indicates that the majority impact is coming from raw material extraction stage (A1-A3). This are the most critical areas for carbon reduction efforts.

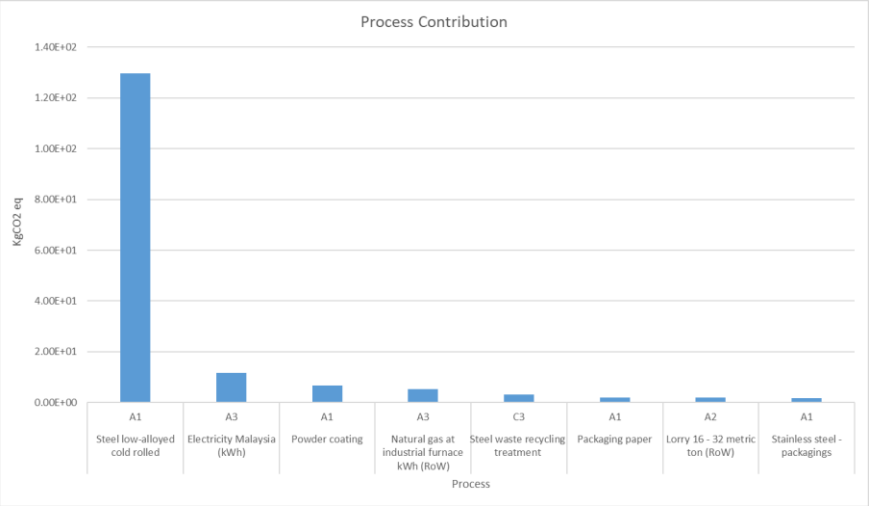

Chart 1-a: 2 doors metal locker manufactured in Malaysia

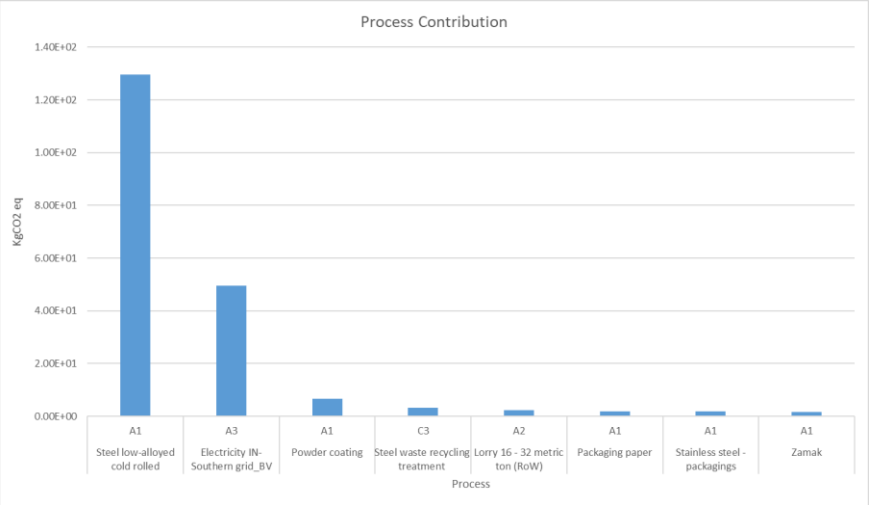

Chart 1-b: 2 doors metal locker manufactured in India

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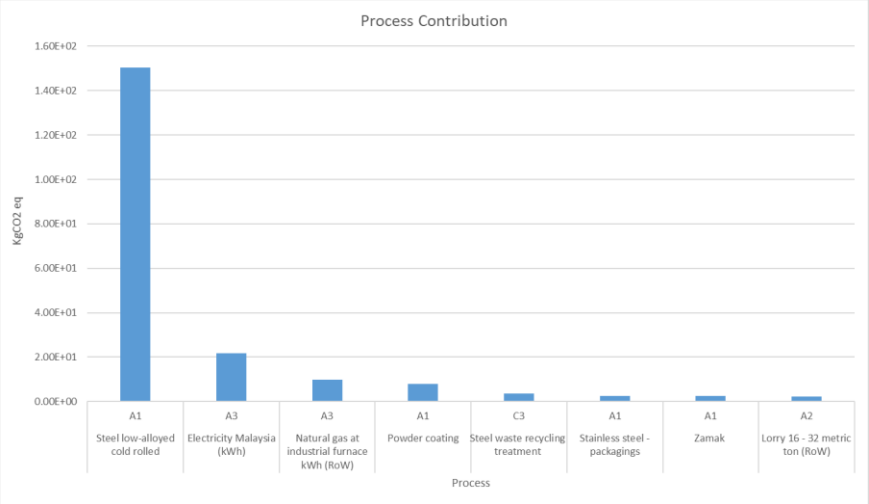

Chart 2-a: 3 doors metal locker manufactured in Malaysia

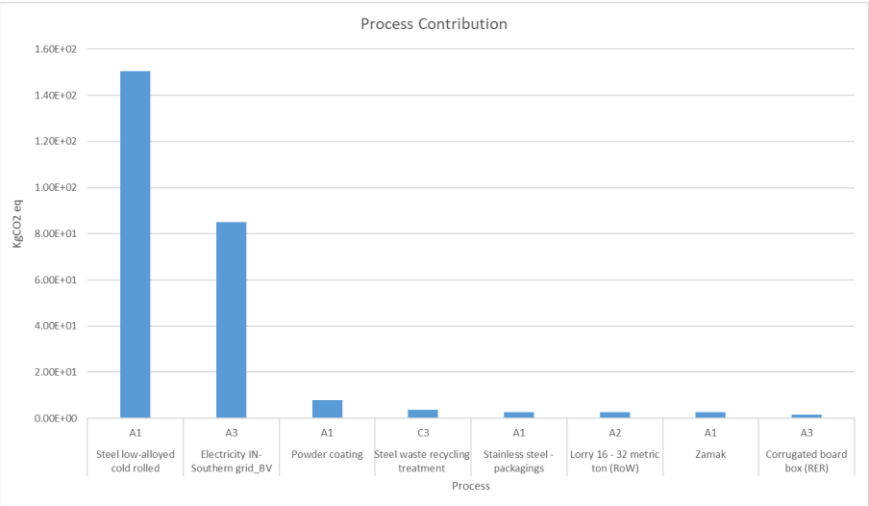

Chart 2-b: 3 doors metal locker manufactured in India

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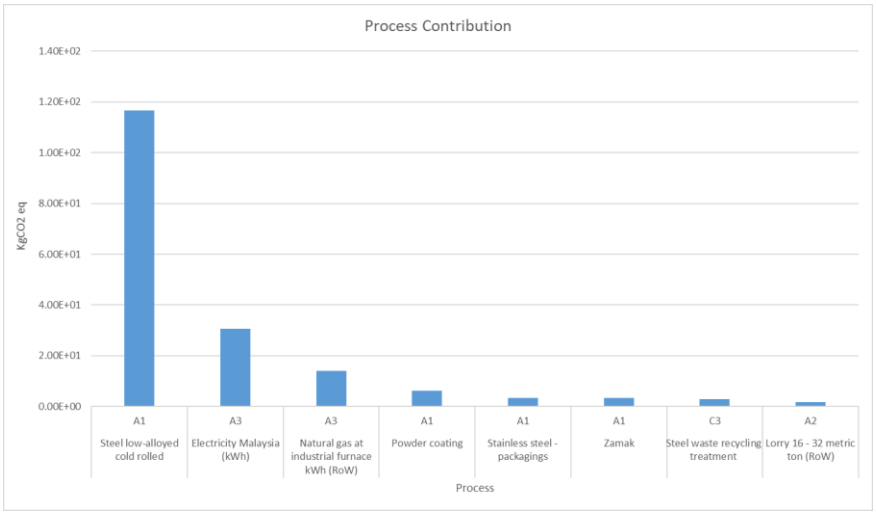

Chart 3-a: 4 doors metal locker manufactured in Malaysia

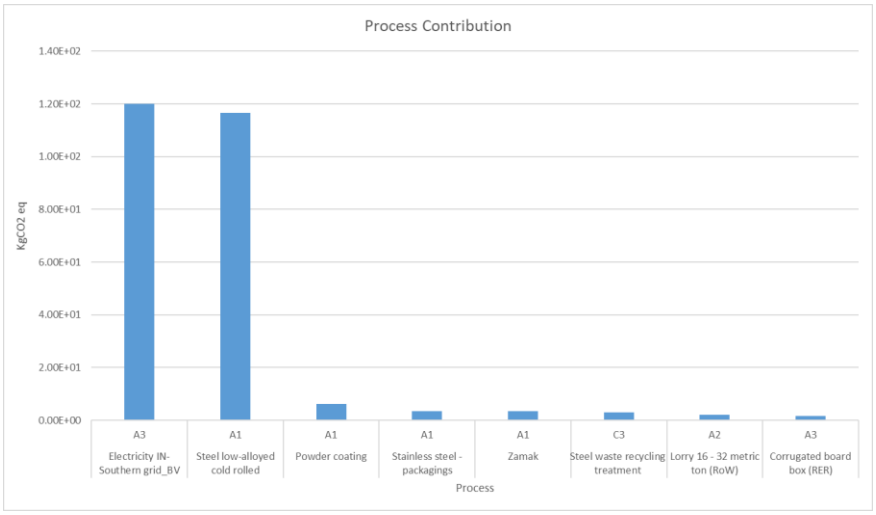

Chart 3-b: 4 doors metal locker manufactured in India

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Indoor Advantage™ Gold - certifies products for low emissions and good indoor air quality

BRE Environmental Profiles 2025 Product Category Rules for Type III environmental product declaration of construction products to EN 15804+A2 PN 514 Rev 3.2

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