Statement of Verification

BREG EN EPD No: 000786 Issue: 01

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 SD207

This declaration is for:
Tek Booth with solid back with dimension D1220 x W1220 x H2280mm and a weight of 412kg. Service year of 10 years.

Company Address

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

teknion

Signed for BRE Global Limited — Hayley Thomson, Operator

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

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Environmental Product Declaration

EPD Number: 000786

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
Declared/Functional Unit	**Applicability/Coverage**
Tek Booth with solid back with dimension D1220 x W1220 x H2280mm and a weight of 412kg. Service year of 10 years. Tek Booth with glass back with dimension D1220 x W1220 x H2280mm and a weight of 483kg. Service year of 10 years.	Product Average.
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

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

Construction Product:

Product Description

Part of the POD (Privacy on Demand) family, Tek Booth is ideal for occasional, short-duration privacy from the open plan. It can be placed along exterior and interior of office building walls or amongst furniture and workstations while acting as a space division element.

Tek Booth is available with a glass back and a solid back option. Exterior finishes include Source Laminate, Foundation Laminate, and Flintwood.

For this study, Tek Booth with foundation laminated exterior, interior fabric fascia and laminated worksurface is selected. The dimension of both the Tek Booth with solid back and glass back is D1220 x W1220 x H2280mm. Service life 10 years.

This product configuration is determined to be a representative product based on sales of the variations. Although specific customer configurations may differ, we anticipate that the actual impact of any variation will not deviate by more than 10% from the analysed representative model. Below is the specific product code information:

	Solid Back	Glass Back
Product Code	• MFTBSO x1 (Structure for Solid Back) • MFTBIT x1 (Interior) • MFTBE x1 (Exterior, Left) • MFTBE x1 (Exterior, Right) • MFTBE x1 (Exterior, Back) • MFTBEG x1 • KLFTBEF x1 • KLFTBNBM x1	• MFTBSG x1 (Structure for Glass Back) • MFTBIT x1 (Interior) • MFTBE x1 (Exterior, Left) • MFTBE x1 (Exterior, Right) • MFTBEG x1 • KLFTBEF x1 • KLFTBNBM x1
Product Weight	412kg	483kg
Packaging Weight (Cardboard & plastic)	31.1kg	31.1kg

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

More information about Privacy on Demand (POD)

Technical Information

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

Technical Properties (Tests)	All Configuration Value
Qualification of Seismic Anchorage 2021 International Building Code 2022 California Building Code 2020 National Building Code of Canada	Complies
Acoustics ASTM E336 “Measurement of Airborne Sound Insulation in Buildings” ASTM E413 “Determination of Sound Transmission Class Report No.# EXT -TFS-TBH-2502-R1	Solid NIC-33 NIC-35 Glass NIC 32 NIC37
Electrics UL 183 CSA C22.2 NO.203.1-14 UL 962A, CSA C22.2 No. 308-18	Approved

Flammability AS 5637.1:2015 Determination of Fire Hazard Properties AS ISO 9705-2003(R2016) Fire Test –Full Scale room test for surface products EN13501-2018: Fire Classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests	Complies
ANSI/BIFMA Furniture Emissions Standard (M7.1/X7.1-2011 R2021) Indoor Advantage™ Gold - Registration # SCS-IAQ-11172	Pass

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

Note: The modelled configuration is Tek Booth with Solid Back.
This modelling does not include stool, laptop, and lights

Note: The modelled configuration is Tek Booth with Glass Back.
This modelling does not include the stool.

Main Product Contents

Like many commercial furniture products, Tek Booth is available in a few ranges of configurations. For the purposes of this study, a representative configuration was selected. The composition of this configuration is detailed in the table below.

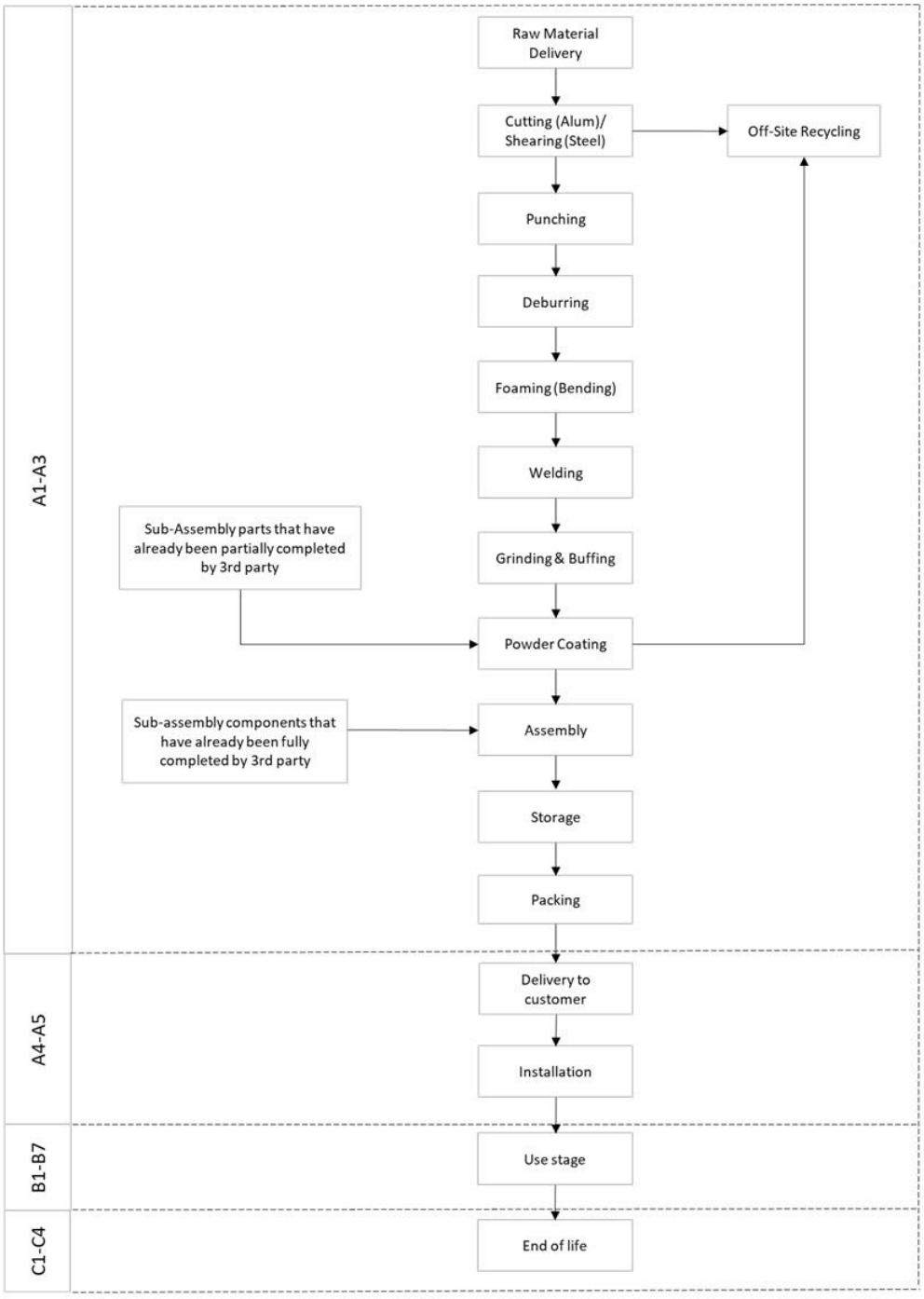
	Solid Back	Glass Back
Weight	412kg	483kg
Dimension	D1220 x W1220 x H2280mm	
Material/Chemical Input	**%**	**%**
Steel	32.51%	26.70%
Aluminium	19.67%	29.95%
Particle Board	18.56%	11.02%
FR Acoustic Insulation	11.73%	5.68%
PET	3.39%	2.42%
Glass	8.94%	19.83%
Polyoxymethylene (POM)	0.98%	0.62%
EPDM	0.90%	0.77%
Fabric	0.47%	0.32%
Zinc	0.46%	0.46%
ABS	0.18%	0.15%
Polycarbonate (PC)	0.17%	0.14%
Polypropylene (PP)	0.15%	0.13%
Electronic components	0.90%	0.73%
Others	0.99%	1.08%

Manufacturing Process

Metal parts undergo several processes, including cutting, punching, deburring, bending, welding, grinding, and buffing, followed by powder coating. Worksurfaces, sub assembly components and metal components are assembled and packed ready for delivery.

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

Process flow diagram



Construction Installation

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

Use Information

Once installed, the product is ready for use. Tek Booth is expected to outlast their intended lifespan. Throughout its 10-years reference service life, this product requires no maintenance, repair, replacement, refurbishment. The products feature lighting and fan ventilation which are consuming power during product operation. Therefore, there is operational energy involved but no operational water required.

End of Life

At the end of the product's life, the booth 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.

Life Cycle Assessment Calculation Rules

Declared / Functional unit description

Tek Booth with solid back with dimension D1220 x W1220 x H2280mm and a weight of 412kg. Service year of 10 years.

Tek Booth with glass back with dimension D1220 x W1220 x H2280mm and a weight of 483kg. Service year 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's 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 Tek Booth, based on production period between 01/12/2023 and 30/11/2024 from Teknion Malaysia's 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 Tek Booth with solid back with dimension D1220 x W1220 x H2280mm and a weight of 412kg and Tek Booth with glass back with dimension D1220 x W1220 x H2280mm and a weight of 483kg. For the production process, the facility uses the national grid consumption mix for the production.

In addition to the Tek Booth, 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.

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 1-2 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. Teknion Malaysia 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 for using 1 kWh of electricity, Malaysia is 0.840 kgCO2e/kWh. The GWP carbon footprint for using 1 kWh of Natural gas (RoW) is 0.256 kgCO2e/kWh. 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 LCA inventory process, all data related to raw materials, packaging materials, and consumable items are included in the modelling.

LCA Results – Tek Booth with solid back. Weight of 412kg

(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	1.20E+03	1.43E+03	-2.26E+02	2.36E+00	2.02E-04	8.40E+00	6.14E-01
	Transport	A2	1.41E+01	1.41E+01	4.68E-03	9.06E-03	2.85E-06	1.71E-01	1.13E-03
	Manufacturing	A3	4.36E+02	4.32E+02	1.34E+00	1.79E+00	2.27E-05	1.63E+00	1.36E-01
	Total (Consumption grid)	A1-3	1.65E+03	1.87E+03	-2.24E+02	4.16E+00	2.27E-04	1.02E+01	7.52E-01
Construction process stage	Transport	A4	7.16E+00	7.15E+00	3.80E-03	2.92E-03	1.58E-06	2.96E-02	5.38E-04
	Construction	A5	7.13E+00	7.13E+00	8.55E-04	1.58E-04	2.22E-07	7.50E-03	3.56E-05
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	3.65E+02	3.61E+02	2.25E+00	1.91E+00	1.18E-05	1.63E+00	1.83E-01
	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	2.24E+01	2.24E+01	1.11E-02	1.38E-02	4.55E-06	8.97E-02	2.25E-03
	Waste processing	C3	3.29E+02	2.06E+02	1.23E+02	3.53E-02	4.40E-06	2.51E-01	8.30E-03
	Disposal	C4	6.03E-01	5.99E-01	2.98E-03	3.62E-04	8.40E-08	2.80E-03	1.48E-04
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-1.71E+03	-1.71E+03	2.97E+00	-2.13E+00	-6.07E-05	-1.06E+01	-6.03E-01

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

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	1.56E+00	1.62E+01	5.35E+00	5.90E-02	1.64E+04	5.04E+02	1.60E-04
	Transport	A2	4.30E-02	4.75E-01	1.29E-01	6.44E-05	1.95E+02	9.24E-01	7.71E-07
	Manufacturing	A3	3.01E-01	2.50E+00	7.63E-01	5.04E-04	5.50E+03	1.19E+02	5.61E-06
	Total (Consumption grid)	A1-3	1.91E+00	1.92E+01	6.24E+00	5.96E-02	2.21E+04	6.24E+02	1.67E-04
Construction process stage	Transport	A4	8.73E-03	9.53E-02	2.90E-02	2.44E-05	1.05E+02	4.79E-01	6.09E-07
	Construction	A5	3.24E-03	3.36E-02	1.11E-02	1.28E-06	1.42E+01	4.10E-01	1.43E-07
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	2.55E-01	2.40E+00	6.97E-01	3.40E-04	4.11E+03	1.08E+02	3.74E-06
	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	2.40E-02	2.61E-01	8.09E-02	1.33E-04	3.20E+02	1.80E+00	1.43E-06
	Waste processing	C3	8.84E-02	9.20E-01	2.49E-01	1.00E-03	3.29E+02	9.81E+00	4.18E-06
	Disposal	C4	9.77E-03	9.50E-03	2.82E-03	9.52E-07	7.13E+00	2.96E-01	5.18E-08
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-1.82E+00	-1.91E+01	-5.81E+00	-2.12E-02	-1.66E+04	-2.50E+02	-1.34E-04

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.

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	7.39E+01	4.65E+04	5.33E-06	3.69E-05	6.63E+03
	Transport	A2	8.93E-01	1.75E+02	7.70E-09	1.48E-07	7.72E+01
	Manufacturing	A3	3.00E+00	4.99E+03	1.14E-07	3.31E-06	7.06E+02
	Total (Consumption grid)	A1-3	7.78E+01	5.16E+04	5.45E-06	4.04E-05	7.41E+03
Construction process stage	Transport	A4	4.81E-01	9.17E+01	2.69E-09	8.80E-08	7.17E+01
	Construction	A5	6.21E-02	2.02E+01	6.84E-10	2.59E-08	2.67E+00
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	1.15E+00	3.35E+03	5.81E-08	2.77E-06	4.91E+02
	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	1.46E+00	3.22E+02	1.19E-08	2.86E-07	1.55E+02
	Waste processing	C3	2.63E+00	1.05E+03	7.78E-08	1.09E-06	1.89E+02
	Disposal	C4	3.47E-02	2.57E+03	2.87E-10	6.52E-09	1.47E+01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-5.61E+01	-4.66E+04	-2.37E-06	-4.00E-05	-5.17E+03

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.

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	5.08E+03	9.50E+02	6.03E+03	1.41E+04	1.85E+03	1.60E+04
	Transport	A2	3.47E-01	0.00E+00	3.47E-01	5.05E+01	0.00E+00	5.05E+01
	Manufacturing	A3	2.66E+02	4.81E+01	3.15E+02	3.88E+03	1.04E+02	3.99E+03
	Total (Consumption grid)	A1-3	5.35E+03	9.98E+02	6.35E+03	1.81E+04	1.96E+03	2.00E+04
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	-4.01E+02	4.02E+02	7.06E-01	-6.10E+01	7.97E+01	1.88E+01
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	2.94E+02	0.00E+00	2.94E+02	4.11E+03	0.00E+00	4.11E+03
	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	-1.06E+03	1.07E+03	1.55E+01	2.14E+02	0.00E+00	2.14E+02
	Disposal	C4	2.05E-01	0.00E+00	2.05E-01	-6.15E+01	6.85E+01	7.02E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-9.80E+02	-4.21E+02	-1.40E+03	-1.65E+04	0.00E+00	-1.65E+04

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

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	6.08E+01	0.00E+00	0.00E+00	1.26E+01
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	2.28E-02
	Manufacturing	A3	3.76E+00	0.00E+00	0.00E+00	2.84E+00
	Total (Consumption grid)	A1-3	6.45E+01	0.00E+00	0.00E+00	1.55E+01
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	1.18E-02
	Construction	A5	0.00E+00	0.00E+00	0.00E+00	9.61E-03
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	2.59E+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	4.43E-02
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	2.37E-01
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	6.99E-03
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	1.49E+02	0.00E+00	0.00E+00	-6.54E+00

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

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	1.67E+03	3.36E+04	1.26E+00
	Transport	A2	6.88E-02	5.60E-01	3.57E-04
	Manufacturing	A3	3.13E+01	6.32E+02	1.64E-03
	Total (Consumption grid)	A1-3	1.71E+03	3.42E+04	1.26E+00
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	1.72E-01	4.31E+00	1.18E-04
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	3.23E+01	8.71E+02	9.71E-04
	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	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	2.17E+00	1.16E+02	1.15E-03
	Disposal	C4	7.02E-02	4.60E+00	3.92E-05
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-2.99E+02	-2.49E+03	-2.43E-02

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

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	3.73E-01	6.15E-04	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	3.73E-01	6.15E-04	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	5.56E+01	2.59E+00	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	-3.85E-03	-2.34E-05	-3.89E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

LCA Results – Tek Booth with Glass Back. Weight of 483kg

(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	1.77E+03	1.92E+03	-1.57E+02	3.52E+00	1.80E-04	1.17E+01	7.77E-01
	Transport	A2	1.93E+01	1.93E+01	5.56E-03	1.26E-02	3.91E-06	2.79E-01	1.44E-03
	Manufacturing	A3	4.48E+02	4.53E+02	-6.94E+00	1.92E+00	2.50E-05	1.72E+00	1.47E-01
	Total (Consumption grid)	A1-3	2.23E+03	2.39E+03	-1.64E+02	5.45E+00	2.09E-04	1.37E+01	9.25E-01
Construction process stage	Transport	A4	8.40E+00	8.39E+00	4.45E-03	3.42E-03	1.85E-06	3.47E-02	6.30E-04
	Construction	A5	7.13E+00	7.13E+00	8.55E-04	1.58E-04	2.22E-07	7.50E-03	3.56E-05
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	3.76E+02	3.71E+02	2.58E+00	2.25E+00	1.09E-05	1.80E+00	1.70E-01
	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	2.63E+01	2.63E+01	1.30E-02	1.62E-02	5.34E-06	1.05E-01	2.64E-03
	Waste processing	C3	2.52E+02	1.66E+02	8.58E+01	5.76E-02	5.11E-06	3.02E-01	1.26E-02
	Disposal	C4	9.45E-01	9.38E-01	6.12E-03	7.01E-04	1.70E-07	5.55E-03	2.07E-04
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-2.83E+03	-2.83E+03	5.73E+00	-3.60E+00	-9.69E-05	-1.80E+01	-9.36E-01

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

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	2.11E+00	2.23E+01	7.04E+00	6.54E-02	2.12E+04	6.27E+02	2.37E-04
	Transport	A2	6.97E-02	7.72E-01	2.07E-01	8.11E-05	2.66E+02	1.19E+00	1.01E-06
	Manufacturing	A3	3.57E-01	2.82E+00	8.32E-01	6.53E-04	5.82E+03	1.31E+02	7.29E-06
	Total (Consumption grid)	A1-3	2.54E+00	2.58E+01	8.08E+00	6.61E-02	2.73E+04	7.58E+02	2.45E-04
Construction process stage	Transport	A4	1.02E-02	1.12E-01	3.40E-02	2.86E-05	1.24E+02	5.61E-01	7.14E-07
	Construction	A5	3.24E-03	3.36E-02	1.11E-02	1.28E-06	1.42E+01	4.10E-01	1.43E-07
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	2.65E-01	2.55E+00	7.35E-01	3.89E-04	4.16E+03	1.23E+02	4.40E-06
	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	2.81E-02	3.06E-01	9.48E-02	1.56E-04	3.75E+02	2.11E+00	1.68E-06
	Waste processing	C3	8.94E-02	9.48E-01	2.60E-01	1.75E-03	4.47E+02	1.11E+01	5.16E-06
	Disposal	C4	1.07E-02	1.91E-02	5.60E-03	1.92E-06	1.42E+01	5.99E-01	1.05E-07
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-3.07E+00	-3.21E+01	-9.53E+00	-2.34E-02	-2.71E+04	-3.96E+02	-2.26E-04

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.

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	9.45E+01	5.98E+04	5.86E-06	4.75E-05	7.15E+03
	Transport	A2	1.22E+00	2.29E+02	1.07E-08	1.92E-07	9.85E+01
	Manufacturing	A3	5.78E+00	5.31E+03	1.13E-07	3.45E-06	1.73E+03
	Total (Consumption grid)	A1-3	1.01E+02	6.54E+04	5.98E-06	5.11E-05	8.97E+03
Construction process stage	Transport	A4	5.64E-01	1.08E+02	3.16E-09	1.03E-07	8.40E+01
	Construction	A5	6.21E-02	2.02E+01	6.84E-10	2.59E-08	2.67E+00
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	1.13E+00	3.67E+03	6.33E-08	3.01E-06	5.68E+02
	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	1.71E+00	3.77E+02	1.39E-08	3.35E-07	1.82E+02
	Waste processing	C3	3.76E+00	1.28E+03	7.06E-08	1.45E-06	3.12E+02
	Disposal	C4	6.80E-02	4.58E+03	5.59E-10	1.17E-08	3.05E+01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-7.57E+01	-7.47E+04	-3.53E-06	-6.84E-05	-6.80E+03

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.

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	4.48E+03	6.60E+02	5.14E+03	1.95E+04	1.25E+03	2.08E+04
	Transport	A2	6.09E-01	0.00E+00	6.09E-01	8.87E+01	0.00E+00	8.87E+01
	Manufacturing	A3	1.66E+02	3.64E+02	5.30E+02	4.15E+03	1.45E+02	4.30E+03
	Total (Consumption grid)	A1-3	4.65E+03	1.02E+03	5.67E+03	2.38E+04	1.39E+03	2.52E+04
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	-4.01E+02	4.02E+02	7.06E-01	-6.10E+01	7.97E+01	1.88E+01
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	3.39E+02	0.00E+00	3.39E+02	4.14E+03	0.00E+00	4.14E+03
	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	-7.17E+02	7.45E+02	2.72E+01	2.90E+02	0.00E+00	2.90E+02
	Disposal	C4	3.82E-01	0.00E+00	3.82E-01	-5.45E+01	6.85E+01	1.40E+01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-1.65E+03	-2.92E+02	-1.94E+03	-2.69E+04	0.00E+00	-2.69E+04

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

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	7.28E+01	0.00E+00	0.00E+00	1.58E+01
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	2.94E-02
	Manufacturing	A3	2.81E+01	0.00E+00	0.00E+00	3.12E+00
	Total (Consumption grid)	A1-3	1.01E+02	0.00E+00	0.00E+00	1.89E+01
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	1.38E-02
	Construction	A5	0.00E+00	0.00E+00	0.00E+00	9.61E-03
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	2.95E+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	5.20E-02
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	2.70E-01
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	1.41E-02
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	1.94E+02	0.00E+00	0.00E+00	-1.04E+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

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	1.33E+03	2.47E+04	8.97E-01
	Transport	A2	1.21E-01	9.83E-01	6.28E-04
	Manufacturing	A3	3.22E+01	6.62E+02	2.56E-03
	Total (Consumption grid)	A1-3	1.36E+03	2.54E+04	9.00E-01
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	1.72E-01	4.31E+00	1.18E-04
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	3.85E+01	8.01E+02	1.01E-03
	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	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	3.30E+00	1.23E+02	1.45E-03
	Disposal	C4	1.28E-01	8.22E+00	7.90E-05
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-5.14E+02	-3.86E+03	-3.32E-02

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

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	3.73E-01	6.15E-04	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	3.73E-01	6.15E-04	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	5.56E+01	2.59E+00	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	-9.99E-03	-6.08E-05	-1.01E+01

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

Information on biogenic carbon content

Information on biogenic carbon content			
Biogenic Carbon Content		Units	Results
Solid Back	Biogenic carbon (product)	kg C	3.22E+01
	Biogenic carbon (packaging)	kg C	1.28E+01
Glass Back	Biogenic carbon (product)	kg C	2.24E+01
	Biogenic carbon (packaging)	kg C	1.28E+01

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 within Malaysia and internationally across the Asia region, Australia, and the Middle East. In this LCA analysis, 100km by road has been modelled for module A4 as a typical distance from the Teknion site to the construction unit. However, end-users of the EPD can use this information to calculate the impacts of a bespoke transport distance for module A4 if required Note: For B6 - operational energy use, we've taken Thailand geography to calculate the operational energy impacts because Thailand is the most selling geography.		
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	28.50
	Packaging waste – Plastic waste to incineration	kg	2.59
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, refurbishment during its 10-year reference service life		
B3 - Repair			
B4 - Replacement			

Scenarios and additional technical information			
Scenario	Parameter	Units	Results
B5 - Refurbishment			
B6 - Operational energy use	Both the Tek Booth with solid back and glass back features a task light and two ventilation fans which are permanently installed in the infrastructure. One fan runs continuously to ensure constant air circulation. The second fan and the task light are both linked to an occupancy sensor and will activate only when the booth is in use. It is not anticipated that the product will be occupied for the entire working day. Therefore, an occupancy period of 4 hours per working day is assumed for energy calculations. The estimated energy consumption values are 310 kWh for the light, 126 kWh for the continuous ventilation fan, and 14.4 kWh for the on-demand ventilation fan. Based on the most selling geography, this LCA modelling here is based on the assumption of operation in Thailand and the Carbon footprint is 0.737 kgCO2eq/kWh.		
B7 - Operational water use	Tek Booth is equipped with an electronic mechanism, needs electrical power to operate but no operational water is required		
Reference service life	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 Tek Booth 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	Distance from the dismantling site to a disposal site will be no more than 100km. The transport mode is a 3.5-7.5-ton truck.		
	Road transport by Lorry 3.5 -7.5 metric ton	km	100
C3 – waste processing	Tek Booth is made up steel, aluminum, particle board/MDF, and the remaining percentage is made up of fabric, glass, mixed plastic, electronics parts 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, aluminium and zamak will be 95% recycled and reused while 5% may end up in landfill. The powder coating cannot be separated out from the final waste so it is assumed that this will end up in landfill. • For glass component. 61% recycled and reused while 39% may end up in landfill • 45% of the particle boards will be incinerated for the energy recovery and 55% will be recycled • 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).		

Scenarios and additional technical information			
Scenario	Parameter	Units	Results
Tek Booth with Solid Back	Steel waste to recycle - 95%	kg	131.62
	Aluminium waste to recycle - 95%	kg	78.54
	MDF wood waste to recycle - 55%	kg	42.13
	MDF wood waste to incinerate - 45%	kg	34.47
	Glass waste to recycle – 61%	kg	22.49
	Electronic waste to recycle – 45%	kg	1.61
	Plastic waste to incinerate- 100%	kg	74.16
Tek Booth with glass back	Steel waste to recycle - 95%	kg	126.94
	Aluminium waste to recycle - 95%	kg	140.02
	MDF wood waste to recycle - 55%	kg	29.27
	MDF wood waste to incinerate - 45%	kg	23.95
	Glass waste to recycle – 61%	kg	58.45
	Electronic waste to recycle – 45%	kg	1.61
	Plastic waste to incinerate- 100%	kg	49.40
C4 – Disposal	Some materials cannot be recycled during waste processing process and may end up in landfill. i.e., 5% of steel waste to landfill and 39% of glass waste sent to landfill,		
Tek Booth with Solid Back	Steel waste to landfill (with powder coating waste) – 5%	kg	6.93
	Aluminium waste to landfill – 5%	kg	4.13
	Glass waste to landfill - 39%	kg	14.38
	Electronic waste to landfill – 55%	kg	1.97
Tek Booth with glass back	Steel waste to landfill (with powder coating waste) – 5%	kg	6.68
	Aluminium waste to landfill – 5%	kg	7.37
	Glass waste to landfill - 39%	kg	37.37
	Electronic waste to landfill – 55%	kg	1.97

Scenarios and additional technical information			
Scenario	Parameter	Units	Results
Module D – Tek Booth with solid back	Tek Booth with solid back is made up of post-consumer and virgin materials. When calculating the benefits of recycling steel and aluminium, the pre-existing recycled content has been removed, and the benefits have been calculated only for virgin steel and aluminium. 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. Pre - existing recycled content (post-consumer waste) = 43.50 kg Benefits due to recycling of virgin steel = 88.12 kg The pre-existing recycled content in the Ecoinvent 3.8 aluminium alloy dataset is 25.9%; therefore, the benefits have been calculated by excluding the recycled content. That is, the benefits are calculated based solely on the virgin aluminium content. Pre - existing recycled content (post-consumer waste) = 17.28 kg Benefits due to recycling of virgin aluminium = 61.26 kg Benefits due to recycling of glass = 22.49kg Benefits due to recycling of electronics components = 1.61kg Benefits due to recycling of particle board = 42.13kg Yield is assumed to be 100% during the recycling process. The incineration benefits have been calculated for mixed plastic waste and particle board waste. The incinerated energy and heat will replace the European average mix. Benefits due to incineration of plastic mixture = 74.16kg Benefits due to incineration of particle board = 34.47kg		

Scenarios and additional technical information			
Scenario	Parameter	Units	Results
Module D - Tek Booth with glass back	Tek Booth with glass back is made up of post-consumer and virgin materials. When calculating the benefits of recycling steel and aluminium, the pre-existing recycled content has been removed, and the benefits have been calculated only for virgin steel and aluminium. 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. Pre - existing recycled content (post-consumer waste) = 41.96 kg Benefits due to recycling of virgin steel = 84.98 kg The pre-existing recycled content in the Ecoinvent 3.8 aluminium alloy dataset is 25.9%; therefore, the benefits have been calculated by excluding the recycled content. That is, the benefits are calculated based solely on the virgin aluminium content. Pre - existing recycled content (post-consumer waste) = 30.80 kg Benefits due to recycling of virgin aluminium = 109.21 kg Benefits due to recycling of glass = 58.44kg Benefits due to recycling of electronics components = 1.61kg Benefits due to recycling of particle board = 29.27kg Yield is assumed to be 100% during the recycling process. The incineration benefits have been calculated for mixed plastic waste and particle board waste. The incinerated energy and heat will replace the European average mix. Benefits due to incineration of plastic mixture = 49.40kg Benefits due to incineration of particle board = 23.95kg		

Interpretation of results

The bulk of the environmental impacts and primary energy demand occur during the manufacturing phase (A1–A3), in accordance with EN 15804:2012+A2:2019. The results in the bar chart reflect the environmental impact of different processes involved in the production and lifecycle of Tek Booth, with a focus on Global Warming Potential (GWP) in $kgCO_2$ equivalent. Data shows that aluminium alloy production (module A1) and electricity use for both production stage and 10 years operational stage (module A3 and B6) are together account for about 50% of the total impact. Low-alloy steel production (module A1) and incineration of mixed plastic waste contribute another 15%. These processes are the most significant sources of carbon emissions across the product's life cycle. Conversely, processes like natural gas use, PET production, and MDF waste incineration have minor impacts. Therefore, raw material processing, especially aluminium production and mixed plastic waste treatment, represents the most critical area for targeted carbon reduction.

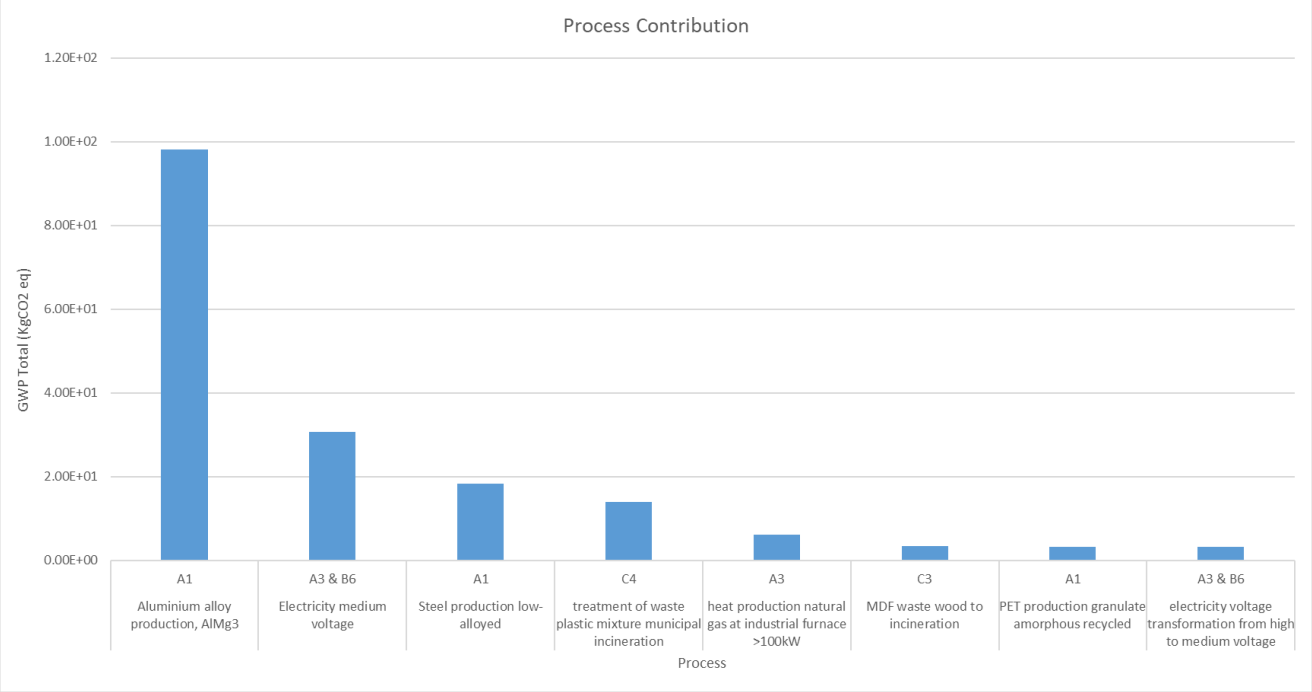


Chart 1: process contribution chart for Tek Booth with solid back

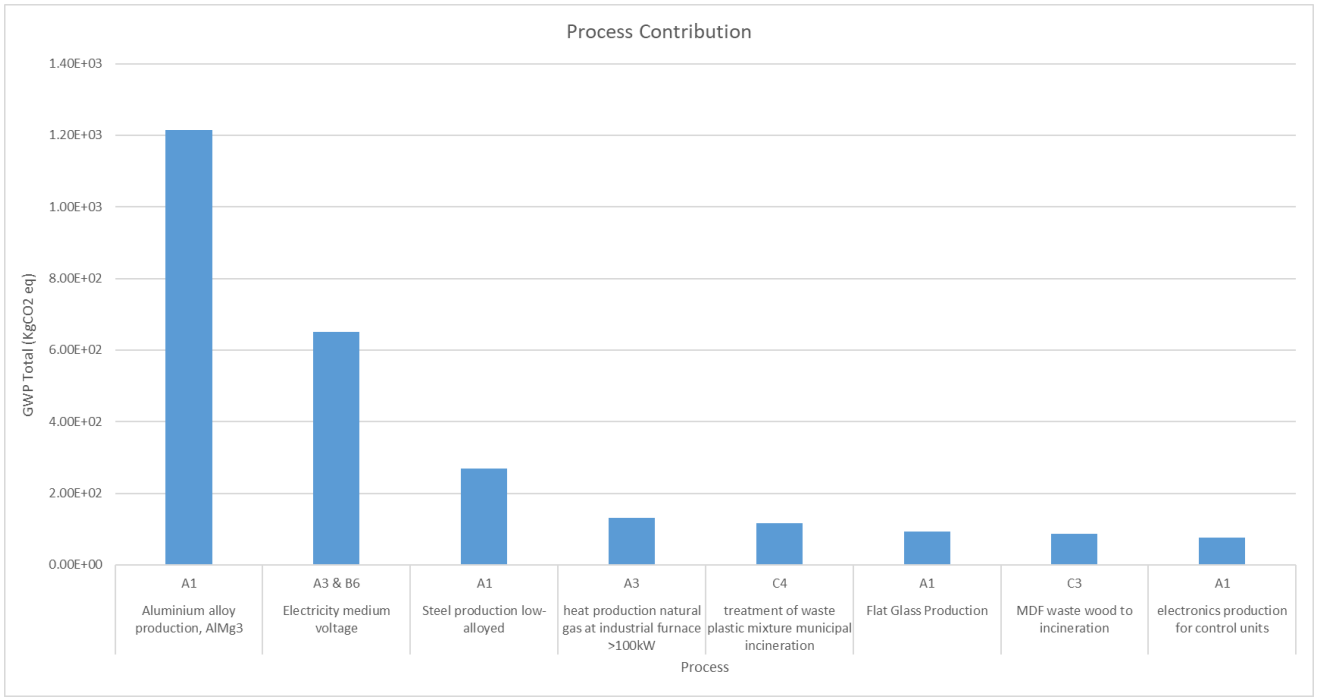


Chart 2: process contribution chart for Tek Booth with glass back

References

BSI. Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products. BS EN 15804:2012+A2:2019. London, BSI, 2019.

BSI. Environmental labels and declarations – Type III Environmental declarations – Principles and procedures. BS EN ISO 14025:2010 (exactly identical to ISO 14025:2006). London, BSI, 2010.

BSI. Environmental management – Life cycle assessment – Principles and framework.
BS EN ISO 14040:2006. London, BSI, 2006.

BSI. Environmental management – Life cycle assessment – requirements and guidelines.
BS EN ISO 14044:2006. London, BSI, 2006.

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