



Statement of Verification

BREG EN EPD No: 000833

Issue: 01

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

Moulded Foams Limited

are in accordance with the requirements of:

EN 15804:2012+A2:2019

and

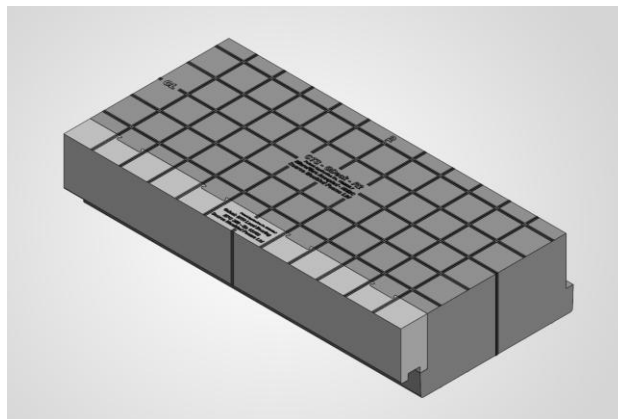
BRE Global Scheme Document SD207

This declaration is for:

1 kg of Expanded polystyrene G Deck insulation infill panels

Company Address

Moulded Foams Limited,
Unit 2 Hawtin Park,
Gellihaf,
Blackwood,
NP12 2EU



Signed for BRE Global Limited

Hayley Thomson

Operator

14 August 2026

Date of this Issue

14 August 2026

Date of First Issue

13 August 2031

Expiry Date



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To check the validity of this statement of verification please, visit www.greenbooklive.com/check or contact us.

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Environmental Product Declaration

EPD Number: 000833

General Information

EPD Programme Operator	Applicable Product Category Rules
BRE Global Watford, Herts WD25 9XX United Kingdom	BRE 2025 Product Category Rules (PN 514 Rev 3.2) for Type III environmental product declaration of construction products to EN 15804:2012+A2:2019
Commissioner of LCA study	LCA consultant/Tool
Moulded Foams Limited, Unit 2 Hawtin Park, Gellihaf, Blackwood, NP12 2EU	Francis Yu/ BRE LINA A2
Declared/Functional Unit	Applicability/Coverage
1 kg of Expanded polystyrene G Deck insulation infill panels	Product Specific.
EPD Type	Background database
Cradle to Gate with Module C and D	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)

Moulded Foams Limited,
Unit 2 Hawtin Park,
Gellihaf, Blackwood,
NP12 2EU

Moulded Foams Ltd
Units 8 & 9, Abbey Court, Menasha Way,
Queensway industrial Estate,
Scunthorpe,
North Lincolnshire,
DN16 3RT

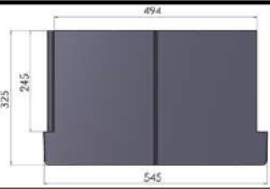
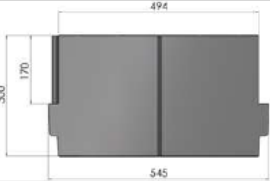
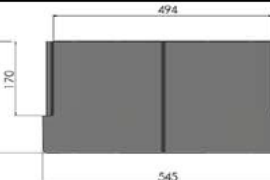
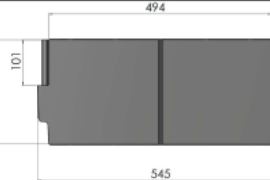
Construction Product:

Product Description

Expanded polystyrene G Deck insulation infill are used in conjunction with concrete T beams as EPS insulation and former for floor screed.

This Environmental Product Declaration (EPD) covers five types of G Deck products designed for various types and applications: GT09, GT11, GT12, GT15 and GT18. On a kg basis, the five products are identical in terms of product composition and manufacturing process.

See below diagram demonstrating each product:

Type	Weight	Dimensions
GT09	3.377kg	1200 x 545 x 325
		
GT11	3.123kg	1200 x 545 x 300
		
GT12	2.599kg	1200 x 545 x 250
		
GT15	2.413kg	1200 x 545 x 231
		
GT18	1.904kg	1200 x 545 x 181
		

Technical Information

Property	Value, Unit
Product Type	Type R1 & Type R2, Expanded Polystyrene G Deck Insulation Infill Panels.
Intended Use	Expanded Polystyrene ground floor insulation, used in conjunction with concrete T beams as EPS insulation & former for floor screed. Type 1 infills are able to support loads of 1.5kN in accordance with BS EN 15037-4. Type 2 infills are able to support loads of 2.0kN in accordance with BS EN 15037-4.
Attestation Level	Level 2+ SGS certificate number GB13/89072 In compliance with Regulation 305/2011/EU (The Construction Products Regulation)

Property	Value, Unit
Reference Harmonised Standard	BS EN 15037-4:2010 + Annex A1:2013 Precast concrete products – Beam and block floor systems. Part 4 – Expanded polystyrene blocks
Essential Characteristic	Type 1 & Type 2 Infill Thermal Conductivity: 0.030 mW/K (BS EN 13163:2012+A1:2015) Type 2 Rail: 0.032 mW/K (BS EN 13163:2012+A1:2015)
Infill Resistance to Concentrated Load	Type R1: ≥ 1.5 kN Type R2: ≥ 2.0 kN
Resistance & Reaction to Fire	Class F
Mechanical Resistance (According to BS EN 15037-4)	Infills Type 1 are equivalent to EPS 80 Infills Type 2 are equivalent to EPS 200 Rails are Type R2 and equivalent to EPS 250
Dangerous Substances	None- Fully REACH Compliant with Polymer based FRA Agent
Dimensional Tolerance	In accordance with BS EN 15037-4:2010 + Annex A1:2013

Note: The technical information is gathered from Moulded Foams' document, please contact Moulded Foams for details.

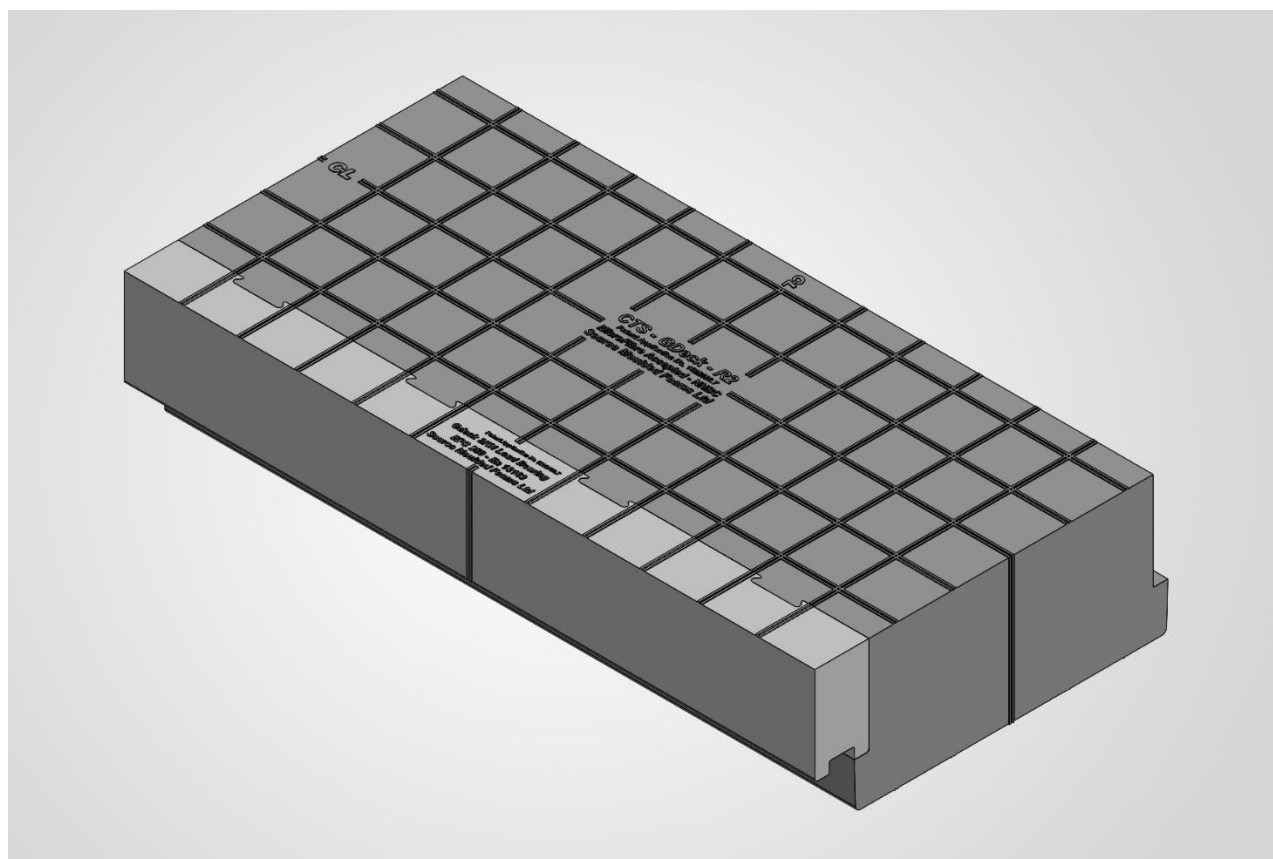


Image: Expanded polystyrene G Deck GT12 Panel shown in a typical installation configuration.



Main Product Contents

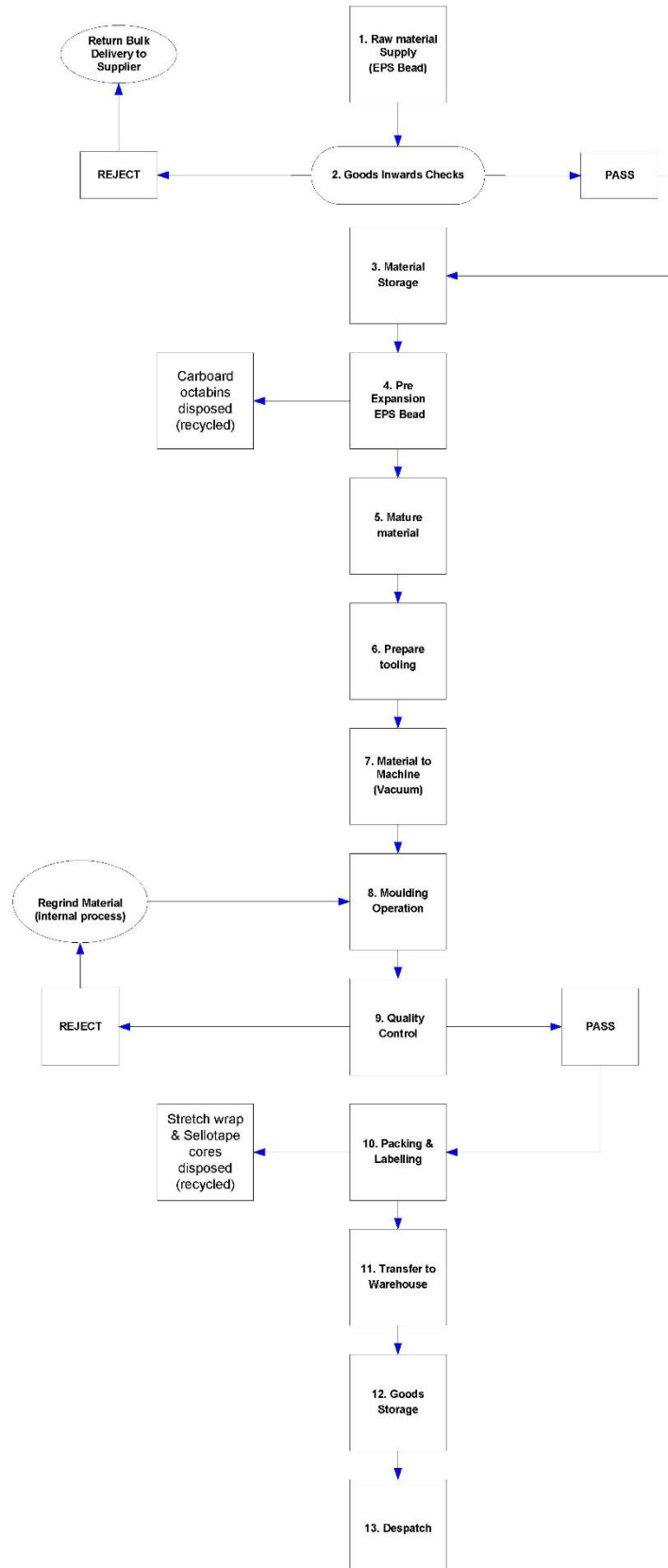
Material/Chemical Input	%
EPS	99
Pentane	1

Note: Each declared unit corresponds to 0.0067kg of packaging materials, of which 86.8% is plastic wrap, 7% is packaging label and 6.2% is polypropylene tape.

Manufacturing Process

Raw material is pre-expanded using steam to achieve required density. After resting to stabilize, the expanded beads are placed into a mould and steamed again so they fuse together into a solid shape. Once cooled and stabilised, the moulded EPS product is removed and stretch wrapped to a pallet. All set up scrap is regrinded and can be used again. Cardboard waste is produced from around the raw material octabins and other general waste such as sellotape and stretch wrap cores. Pallets are removed at point of loading and are handballed on to the vehicle.

Process flow diagram





End of Life

The Product is used in foundation of building - when a house is fully deconstructed the product can be recovered and recycled and either reground and put through new product or chemically recycled. No machinery or energy is needed to dismantle product - all carried out manually. At the end of life, an industrial average data for ' Insulation (rigid sheet), EPS' has been used according to BRE PCR PN 514 Rev 3.2, i.e. 100% of waste to incineration.



Life Cycle Assessment Calculation Rules

Declared / Functional unit description

1 kg of Expanded polystyrene G Deck insulation infill panels.

System boundary

This is a Cradle-to-Gate with Module C & D LCA, reporting all production life cycle stages of modules A1 to A3, end-of-life stages C1-C4, and D in accordance with EN 15804:2012+A2:2019 and BRE 2025 Product Category Rules (PN 514 Rev 3.2). The intended purpose of this LCA is for the data and results to be used in a published third-party verified EPD.

Data sources, quality and allocation

Specific primary data derived from Moulded Foams' production process at 2 Hawtin Park, Gellihaf, Blackwood, NP12 2EU factory, have been modelled using the LINA LCA A2 software and the ecoinvent 3.8 database. In accordance with the requirements of EN 15804:2012+A2:2019, the most current available data has been used. The manufacturer-specific data from Moulded Foams covers a period of one year (01/01/2024 – 31/12/2024). 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 EN 15804:2012+A2:2019.

The LCA study is for Expanded polystyrene G Deck insulation infill panel product. The factory also produces other products, the EPD product makes of 15.4% of the total site production. All energy, water and waste have been allocated to the product by kg according to the provisions of the BRE PCR PN514 Rev 3.2 and EN 15804:2012+A2:2019. Site wide values for energy, water and wastewater have been taken from bills. Figures for the raw materials, ancillary materials and packaging were from actual usages.

Data quality level and criteria are extracted from EN 15804+A2, Table E.1.

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).	Less than 3 years difference between the reference year according to the documentation, and the time period for which data are representative.

Specific UK datasets have been selected from the ecoinvent LCI for this LCA. The quality level of geographical and technical representativeness is therefore very good. The quality level of time representativeness is 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.

Location-based approach has been used for electricity modelling.

UK Consumption mix (2022) was used for electricity with an emissions factor of 0.239kgCO₂e/kWh.

UK Natural gas data (at industrial furnace, 2021) was used with an emissions factor of 0.232 kgCO₂e/kWh.



Cut-off criteria

All processes associated with the manufacturing process have been included. All inputs or outputs have been included and all raw materials, packaging and transport, energy, water use, and non-production wastes are included, except for ancillary materials, production waste and direct emissions (to air, water and soil), which are not measured. Upstream extraction and/or processing of inputs are included within the use of the background datasets within LINA. The dispatch process in the manufacturing flow diagram is not covered in the LCA.

LCA-method Cut-off, EN 15804+A2 has been used in this LCA, and the characterisation factors are based on Annex C of EN15804 Standard.

LCA Results

(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	3.78E+00	3.75E+00	3.12E-02	8.93E-06	4.22E-08	1.28E-02	1.11E-04
	Transport	A2	3.14E-01	3.14E-01	2.67E-04	1.23E-04	7.26E-08	1.27E-03	2.02E-05
	Manufacturing	A3	1.99E+00	1.96E+00	2.39E-02	3.90E-04	1.71E-07	1.63E-03	7.02E-05
	Total (Consumption grid)	A1-3	6.08E+00	6.02E+00	5.54E-02	5.22E-04	2.86E-07	1.58E-02	2.01E-04
100% EPS waste to incineration									
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	8.32E-03	8.31E-03	7.08E-06	3.26E-06	1.92E-09	3.37E-05	5.35E-07
	Waste processing	C3	3.18E+00	3.18E+00	8.54E-05	1.10E-05	2.62E-09	4.01E-04	4.13E-06
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	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	-1.49E+00	-1.49E+00	-2.47E-03	-2.03E-03	-1.01E-07	-4.65E-03	-2.38E-04

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	1.95E-03	2.08E-02	1.12E-02	3.86E-07	8.35E+01	2.78E+00	1.39E-07
	Transport	A2	3.84E-04	4.19E-03	1.28E-03	1.09E-06	4.74E+00	2.13E-02	2.71E-08
	Manufacturing	A3	8.10E-04	6.17E-03	2.84E-02	2.25E-06	3.72E+01	-2.44E-02	1.10E-08
	Total (Consumption grid)	A1-3	3.14E-03	3.12E-02	4.08E-02	3.72E-06	1.25E+02	2.78E+00	1.77E-07
100% EPS waste to incineration									
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-05	1.11E-04	3.40E-05	2.89E-08	1.26E-01	5.65E-04	7.17E-10
	Waste processing	C3	2.05E-04	2.02E-03	4.87E-04	9.01E-08	2.94E-01	3.49E-02	1.90E-09
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	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	-1.10E-03	-1.22E-02	-2.97E-03	-4.20E-06	-3.96E+01	-2.83E-01	-2.27E-08

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	1.29E-03	3.92E+00	6.48E-10	7.30E-09	9.36E-02
	Transport	A2	2.44E-02	3.70E+00	1.20E-10	3.88E-09	3.26E+00
	Manufacturing	A3	3.17E-01	9.88E+00	3.04E-10	4.98E-09	3.42E+00
	Total (Consumption grid)	A1-3	3.43E-01	1.75E+01	1.07E-09	1.62E-08	6.77E+00
100% EPS waste to incineration							
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	6.46E-04	9.81E-02	3.18E-12	1.03E-10	8.63E-02
	Waste processing	C3	6.25E-04	1.64E+01	2.10E-10	8.04E-09	9.69E-02
	Disposal	C4	0.00E+00	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	-1.39E+00	-1.85E+01	-3.74E-10	-1.06E-08	-1.48E+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.

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	4.30E-01	0.00E+00	4.30E-01	4.38E+01	3.87E+01	8.25E+01
	Transport	A2	6.68E-02	0.00E+00	6.68E-02	4.66E+00	0.00E+00	4.66E+00
	Manufacturing	A3	1.64E+00	3.86E-01	2.03E+00	4.10E+01	6.70E-01	4.17E+01
	Total (Consumption grid)	A1-3	2.14E+00	3.86E-01	2.53E+00	8.95E+01	3.93E+01	1.29E+02
100% EPS waste to incineration								
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	1.77E-03	0.00E+00	1.77E-03	1.23E-01	0.00E+00	1.23E-01
	Waste processing	C3	7.18E-03	0.00E+00	7.18E-03	-3.84E+01	3.87E+01	2.93E-01
	Disposal	C4	0.00E+00	0.00E+00	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	-7.20E+00	0.00E+00	-7.20E+00	-3.96E+01	0.00E+00	-3.96E+01

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	0.00E+00	0.00E+00	0.00E+00	6.48E-02
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	5.29E-04
	Manufacturing	A3	2.15E-03	7.88E-06	0.00E+00	9.15E-04
	Total (Consumption grid)	A1-3	2.15E-03	7.88E-06	0.00E+00	6.63E-02
100% EPS waste to incineration						
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	1.40E-05
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	8.17E-04
	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	-7.21E-03

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	5.67E-02	8.46E-02	1.06E-06
	Transport	A2	5.23E-03	9.29E-02	3.21E-05
	Manufacturing	A3	1.71E-02	2.90E-01	1.54E-04
	Total (Consumption grid)	A1-3	7.90E-02	4.67E-01	1.87E-04
100% EPS waste to incineration					
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.39E-04	2.46E-03	8.50E-07
	Waste processing	C3	2.62E-02	1.04E+00	4.99E-07
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-8.21E-02	-1.14E+00	-3.49E-04

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	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	2.74E-02	1.25E-07	7.74E-03
	Total (Consumption grid)	A1-3	0.00E+00	2.74E-02	1.25E-07	7.74E-03
100% EPS waste to incineration						
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	1.72E+01
	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	-1.14E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

Information on biogenic carbon content

Results per functional unit		
BIOGENIC CARBON CONTENT	Unit	Quantity
Biogenic carbon (product)	kg C	0.00E+00
Biogenic carbon (packaging)	kg C	6.52E-03

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO₂.

Scenarios and additional technical information

Scenarios and additional technical information			
Scenario	Parameter	Units	Results
C1 to C4 End of life,			
C1 – Deconstruction	Product is used in foundation of building - when a house is fully deconstructed the product can be recovered and recycled and either reground and put through new product or chemically recycled. No machinery or energy is needed to dismantle product - all carried out manually. 100% recovery rate of the product has been assumed at its end of life.		
C2 – Transport from site to pre-processing facility or landfill	A 50km assumption has been used in this module. The EPD users can calculate the C2 impacts for a specific distance on this basis.		
	Road, 16-32 metric ton, euro5	km	50
C3 - Pre-processing of uninstalled product	The end-of-waste state has been assumed when the waste flow is incinerated (energy recovery from waste, assuming the plant has an R1 value > 0.6). There is currently no process in place to dispose of the product waste. Therefore, industrial average end-of-life data for ' Insulation (rigid sheet), EPS' has been used according to BRE PCR PN 514 Rev 3.2, i.e. 100% of waste to incineration. So, all 1kg of product waste will be incinerated.		
	EPD waste to Incineration	kg	1
C4 – Disposal	Industrial average end-of-life data for ' Insulation (rigid sheet), EPS' has been used according to BRE PCR PN 514 Rev 3.2, i.e. 100% of waste to incineration. Therefore, no waste is sent to landfill.		
Module D	The existing recycled content is less than 1%. 1kg of EPS waste is declared in Module D for energy recovery benefits. Incineration of EPS waste dataset is used to calculate the benefits in Module D, and a specific calorific value for incineration is provided. The electricity benefit recovered from the EPS waste incineration process is 17.204MJ/kg (46MJ/kg according to British Plastics Federation, and 37.4% of the combustion heat recovered after incineration according to DEFRA, 2013). For benefits due to incineration of EPS waste, the UK electricity (Electricity, medium voltage {GB}) market for electricity, medium voltage EN15804, U, 2021) with an emission factor of 0.313 kgCO ₂ eq/kWh has been used as the background data for the energy recovered.		
	Benefits due to incineration of EPS waste	kg	1

Interpretation

Out of the total mass of input materials, EPS accounts for 99% and pentane accounts for 1% of all input materials. 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.

As a result, EPS contributes the most on GWP and overall environmental impacts, followed by EPS waste to incineration and natural gas (see figure 1 below).

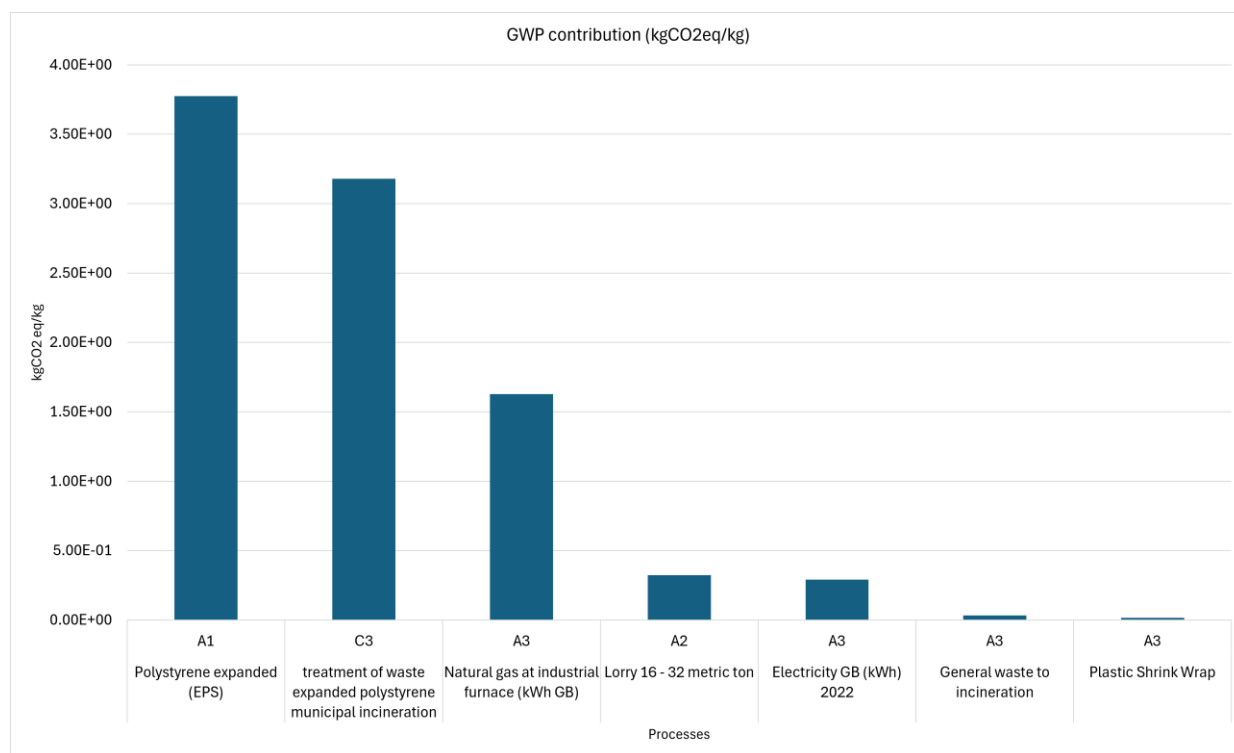


Figure 1



Example Calculation

The LCA results listed in the tables above are for 1 kg of Expanded polystyrene G Deck insulation infill panels. The end user can therefore use these results to calculate impact profiles for other product variants with specific weights listed in the table below. The LCA results for each EN15804 indicator will need to be multiplied by the conversion factors. Ref: Figure 2.

Product Name	Product Weight (kg) i.e. Conversion factor
GT09	3.377
GT11	3.123
GT12	2.599
GT15	2.413
GT18	1.904

Figure 2



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.

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BSI. Precast concrete products. Beam-and-block floor systems - Expanded polystyrene blocks. BS EN 15037-4:2010+A1:2013. London, BSI, 2010.

BSI. Thermal insulation products for buildings. Factory made expanded polystyrene (EPS) products. Specification. BS EN 13163:2012+A1:2015. London, BSI, 2012.

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BRE. BRE GLOBAL PRODUCT CATEGORY RULES (PCR) PN514 REV 3.2. BRE, 2025. [BRE Global Product Category Rules \(PCR\) PN514 Rev 3.2](#).