

Statement of Verification

BREG EN EPD No.: 000725

Issue 01

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



is in accordance with the requirements of:
EN 15804:2012+A2:2019

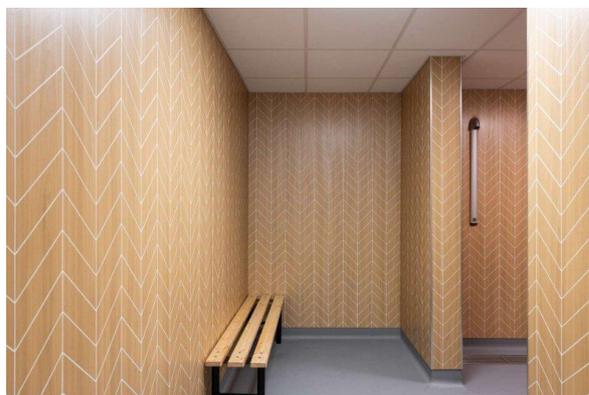
and

BRE Global Scheme Document SD207

This declaration is for:
1m² of Altro Tegulis with the thickness of 2.5mm and an average weight of 3.45 kg/m²

Company Address

Altro Limited
Works Road
Letchworth Garden City
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SG6 1NW
United Kingdom



Hayley Thomson
Signed for BRE Global Ltd

Hayley Thomson
Operator

20 March 2026
Date of this Issue

20 March 2026
Date of First Issue

19 March 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: **000725**

General Information

EPD Programme Operator	Applicable Product Category Rules
BRE Global Watford, Herts WD25 9XX United Kingdom	BRE 2023 Product Category Rules (PN 514 Rev 3.1) for Type III environmental product declaration of construction products to EN 15804:2012+A2:2019.
Commissioner of LCA study	LCA consultant/Tool
Altro Limited Works Road Letchworth Garden City Hertfordshire SG6 1NW United Kingdom	Bala Subramanian/ BRE LINA A2
Declared/Functional Unit	Applicability/Coverage
1m ² of Altro Tegulis with the thickness of 2.5mm and an average weight of 3.45 kg/m ²	Other (please specify). Product Specific
EPD Type	Background database
Cradle to Gate with Module C and D	ecoinvent
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 <input checked="" type="checkbox"/> Internal <input type="checkbox"/> External	
(Where appropriate ^b) Third party verifier: Roger Connick	
<small>a: Product category rules b: Optional for business-to-business communication; mandatory for business-to-consumer communication (see EN ISO 14025:2010, 9.4)</small>	
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
A1	A2	A3	A4	A5	Related to the building fabric					Related to the building		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
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				

Note: Ticks indicate the Information Modules declared.

Manufacturing site(s)

Altro Limited
48 Pinbush Road,
Lowestoft,
Suffolk,
NR33 7NL

Construction Product:

Product Description

Altro Tegulis is a tile-effect wall sheet, precision-engraved from Altro Whiterock to replicate the look of traditional tiles.

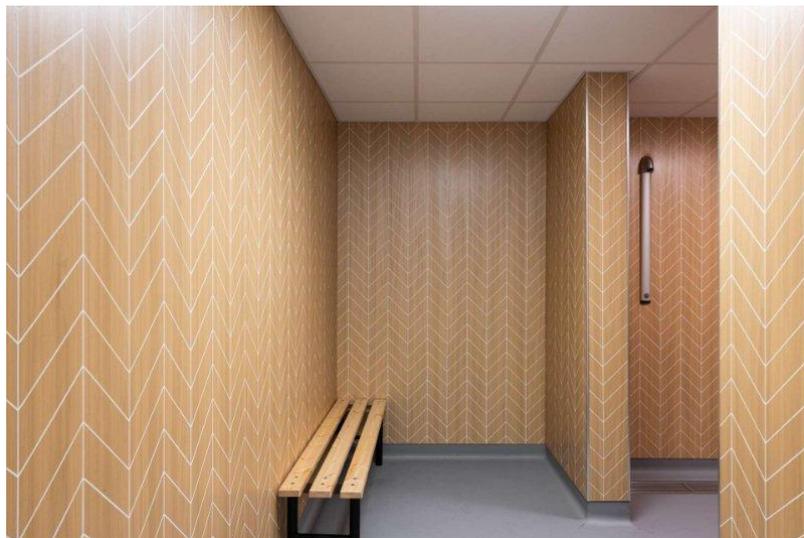
Designed as an alternative to conventional tiles, it is ideal for wet rooms, bathrooms, kitchens, and retail spaces. The custom-etched grout lines provide a hygienic solution, eliminating the cleaning and maintenance issues typically associated with tiled surfaces. Altro Tegulis is also suitable for areas where the sheet may come into contact with food.

Available in a range of colours, it has an average weight of 3.45 kg/m² and a thickness of 2.5 mm. In this EPD, the total production quantity of Altro Tegulis is used to conduct an LCA analysis.

Technical Information

The below table covers the basic technical properties of Altro Tegulis. For these and further properties, please see the product's page on Altro's website www.altro.com :

Property	Standard	Value
Surface finish		Satin
Thickness		2.5 mm
Size		Contact Altro for details
Weight		3300 g/m ² - 3600 g/m ²
Density	ISO 1183	1.44 g/cm ³
Maximum service temperature		60°C
Hardness (Shore D)	ISO 868	76
Fire resistance	EN 13501-1	B- s3, d0



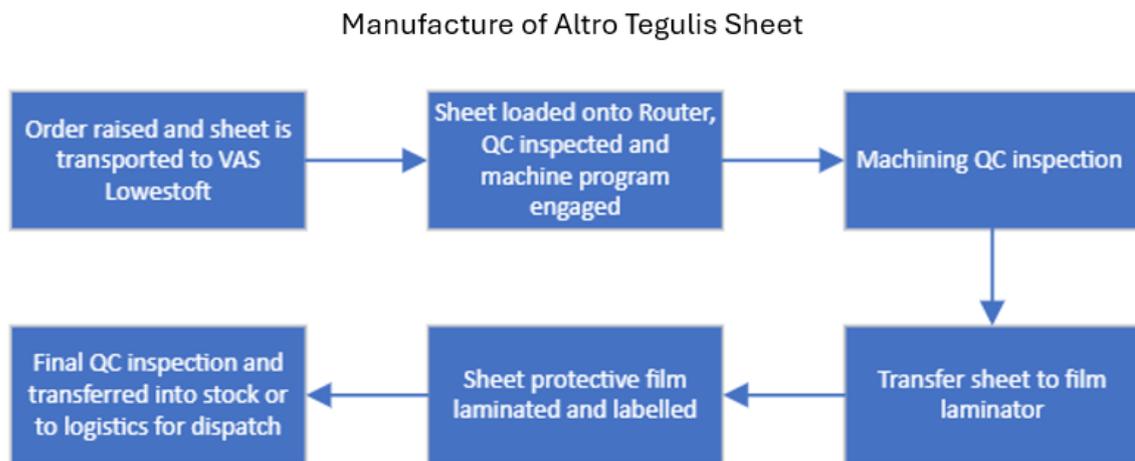
Main Product Contents

Material/Chemical Input	%
PVC	80.5
Chalk	4.6
Modifier/ Processing aid/ Lubricant	11.8
Titanium dioxide	3.1

Manufacturing Process

The production of Altro Tegulis begins with order placement and the transportation of the Altro Whiterock base sheets to the Value Added Services (VAS) facility in Lowestoft. Upon arrival, the sheets are loaded onto a router for an initial quality control (QC) inspection, followed by machining processes that cuts and shapes the material according to specifications. A secondary QC check is then carried out to confirm accuracy before the sheets move to the film laminator. Here, a protective film is applied, and labels are added, followed by a final, comprehensive QC inspection. The finished sheets are then either placed into stock or sent to logistics for customer delivery, ensuring precision and quality throughout the entire process.

Process flow diagram



End of Life

Altro Tegulis cannot be recovered at the end of life as it is bonded to the wall with an adhesive. Therefore, according to BRE PCR 3.1, 100% of Altro Tegulis will end up in landfill.

Life Cycle Assessment Calculation Rules

Declared unit

1m² of Altro Tegulis with the thickness of 2.5mm and an average weight of 3.45 kg/m²

System boundary

This is a cradle-to-gate with modules C and D LCA, reporting all production life cycle stages of modules A1 to A3. In A1, the manufacturing impacts of the Altro Whiterock product are included. In A2, the transportation of the manufactured product from the production site in Germany to the manufacturing site in Lowestoft, UK, is covered and the processing of the Altro Whiterock product is included in A3. It also includes the end-of-life stages C1-C4, and D in accordance with EN 15804:2012+A2:2019 and BRE 2023 Product Category Rules (PN 514 Rev 3.1)

Data sources, quality and allocation

The supporting LCA study was carried out using BRE LINA A2 using manufacturer specific data provided by Altro for the production period of the 12 months (01/04/2023 - 31/03/2024) at the Lowestoft, UK site. This facility exclusively produces the Altro Tegulis range; therefore, 100% of the allocation for packaging and energy was applied to site-wide values, based on m² production basis. No uplift was applied to the raw material input, as the total raw material usage for all Altro Tegulis products manufactured during the production period was used.

Altro Whiterock is used as the base sheet for engraving the Altro Tegulis design to create a tile-effect finish. Consequently, the Altro Whiterock LCA is conducted separately, and the results are incorporated into the backend for this LCA analysis, which includes the product manufacturing impacts.

At the Lowestoft manufacturing facility, the engraving of Altro Whiterock base sheets is performed to achieve the tile effect. Electricity consumption for the engraving process is included in the analysis, based on actual meter readings. No natural gas or water is required for this stage of production. The manufacturer has also confirmed that the process generates no waste, as it solely involves engraving the sheets.

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.

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

For this LCA, specific UK and European datasets from Ecoinvent 3.8 were selected. The base sheet, Altro Whiterock, is manufactured in Germany, with an additional engraving process conducted at a UK facility, to produce the Altro Tegulis product.

Both the German and UK manufacturing sites utilise national grid electricity and natural gas. Therefore, the respective national grid electricity and industrial natural gas datasets have been used for LCA modelling.

The GWP carbon footprint for using 1 kWh of Germany consumption mix electricity is 0.604 kgCO₂e/kWh and for the Natural gas, at industrial furnace (kWh, EU) carbon footprint for using 1 kWh is 0.256 kgCO₂eq.

The GWP carbon footprint for using 1 kWh of the UK electricity is 0.239 kgCO₂e/kWh and for the Natural gas, at industrial furnace (kWh, UK) has carbon footprint for using 1 kWh is 0.232 kgCO₂eq.

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

No inputs or outputs have been excluded. All raw materials and packaging inputs, along with their transport, process energy, general energy, and water use, are included—except for direct emissions to air, water, and soil, which are not measured. The manufacturer has confirmed that there is no production waste, water consumption, or discharge during the production process.

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 CFC11 eq	mol H ⁺ eq	kg (PO ₄) ³⁻ eq			
Product stage	Raw material supply	A1	7.82E+00	8.04E+00	-2.21E-01	7.00E-03	3.36E-06	1.43E-02	3.33E-03
	Transport	A2	4.76E-01	4.75E-01	4.03E-04	1.87E-04	1.10E-07	1.98E-03	3.05E-05
	Manufacturing	A3	3.26E+00	3.25E+00	7.60E-03	8.90E-04	2.75E-07	2.92E-03	1.20E-04
	Total (Consumption grid)	A1-3	1.16E+01	1.18E+01	-2.13E-01	8.08E-03	3.75E-06	1.92E-02	3.48E-03
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	2.87E-02	2.87E-02	2.44E-05	1.13E-05	6.63E-09	1.16E-04	1.85E-06
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	4.05E-01	4.04E-01	2.61E-04	4.14E-05	1.11E-08	3.31E-04	6.08E-06
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	0.00E+00	0.00E+00	0.00E+00

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	6.83E-03	6.62E-02	2.29E-02	3.86E-05	5.42E-01	6.24E+00	3.29E-07
	Transport	A2	5.93E-04	6.48E-03	1.98E-03	1.65E-06	7.18E+00	3.23E-02	4.09E-08
	Manufacturing	A3	1.01E-03	1.12E-02	2.99E-03	5.28E-06	6.41E+01	6.10E-02	1.82E-08
	Total (Consumption grid)	A1-3	8.44E-03	8.39E-02	2.79E-02	4.56E-05	7.18E+01	6.34E+00	3.88E-07
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	3.50E-05	3.83E-04	1.17E-04	9.97E-08	4.33E-01	1.95E-03	2.47E-09
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	7.38E-03	1.20E-03	4.29E-04	1.29E-07	8.82E-01	3.90E-02	6.26E-09
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	0.00E+00	0.00E+00	0.00E+00

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	1.12E+00	1.37E+02	8.00E-09	1.63E-07	6.04E+01
	Transport	A2	3.69E-02	5.60E+00	1.82E-10	5.86E-09	4.92E+00
	Manufacturing	A3	7.80E-01	1.04E+01	4.61E-10	7.48E-09	8.21E+00
	Total (Consumption grid)	A1-3	1.94E+00	1.53E+02	8.65E-09	1.76E-07	7.35E+01
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	2.23E-03	3.38E-01	1.10E-11	3.55E-10	2.98E-01
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	4.30E-03	1.84E+00	2.96E-11	7.82E-10	2.05E+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	0.00E+00

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	1.23E+01	4.28E+00	3.31E+01	1.12E+02	0.00E+00	2.92E+02
	Transport	A2	1.01E-01	0.00E+00	1.01E-01	7.05E+00	0.00E+00	7.05E+00
	Manufacturing	A3	5.16E+00	0.00E+00	5.16E+00	7.39E+01	1.26E-01	7.40E+01
	Total (Consumption grid)	A1-3	1.75E+01	4.28E+00	3.83E+01	1.93E+02	1.26E-01	3.73E+02
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	6.11E-03	0.00E+00	6.11E-03	4.26E-01	0.00E+00	4.26E-01
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	1.81E-02	0.00E+00	1.81E-02	-1.05E+02	1.06E+02	8.67E-01
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	0.00E+00	0.00E+00

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	3.93E-02	0.00E+00	0.00E+00	1.49E-01
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	7.99E-04
	Manufacturing	A3	3.94E-03	2.00E-05	0.00E+00	5.18E-03
	Total (Consumption grid)	A1-3	4.33E-02	2.00E-05	0.00E+00	1.55E-01
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	4.83E-05
	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	9.19E-04
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

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	1.91E-01	1.72E+01	5.14E-01
	Transport	A2	7.92E-03	1.40E-01	4.86E-05
	Manufacturing	A3	3.31E-02	5.36E-01	3.07E-04
	Total (Consumption grid)	A1-3	2.32E-01	1.79E+01	5.14E-01
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	4.78E-04	8.49E-03	2.93E-06
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	1.86E-03	3.48E+00	5.18E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00

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	Biogenic carbon (product)	Biogenic carbon (packaging)
			kg	kg	kg	MJ per energy carrier	kg C	kg C
Product stage	Raw material supply	A1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02	0.00E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Manufacturing	A3	0.00E+00	3.24E-04	2.48E-07	1.82E-02	0.00E+00	0.00E+00
	Total (Consumption grid)	A1-3	0.00E+00	3.24E-04	2.48E-07	1.82E-02	1.43E-02	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	0.00E+00	0.00E+00	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	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	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

Scenarios and additional technical information

Scenarios and additional technical information			
Scenario	Parameter	Units	Results
C1 - Deconstruction	<p>When the product reaches the end of its life, it will be extracted from the building using power tools and sent to landfill. Unfortunately, the waste product cannot be recovered because it is contaminated with other materials such as the substrate and adhesive. Therefore, according to BRE PCR 3.1, 100% of Altro Tegulis will end up in landfill.</p> <p>Note: The energy used for product removal is not accounted for in the LCA analysis. It can reasonably be assumed that the energy associated with deconstructing Altro Tegulis is negligible compared to the overall demolition process</p>		
C2 – Transportation	50km by road has been modelled for module C2 as a typical distance from the demolition site to the disposal 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.	Litres per km	0.227
	Fuel type / Vehicle type	Road transport	16–32-ton lorry
	Deconstruction site to the disposal unit	km	50
C3 – Preprocessing	No preprocessing as the product is 100% sent to landfill.		
C4 – Disposal	The recovered waste is landfilled therefore no module D benefits.		
	PVC Waste – 100% landfill – average 3.45 kg/m ²		

Interpretation of results

The bulk of the environmental impacts for Altro Tegulis are attributed to the manufacturing of Altro Whiterock base sheet covered by information modules A1-A3 of EN15804:2012+A2:2019. Figure 1 below breaks down the GWP of Altro Tegulis into clear categories to understand the modules which cause the largest environmental impact. It's clear that the majority of the environmental impact stems from the product modules (A1 – A3). Stage A1 production of Altro Whiterock base sheet (raw material) accounts for nearly all emissions, with a minor contribution from A2 (transportation). Stage A3 (manufacturing) shows a significant negative value, indicating a reduction in CO₂ equivalent emissions from biogenic sources in A1.

Figure 1 GWP Contribution

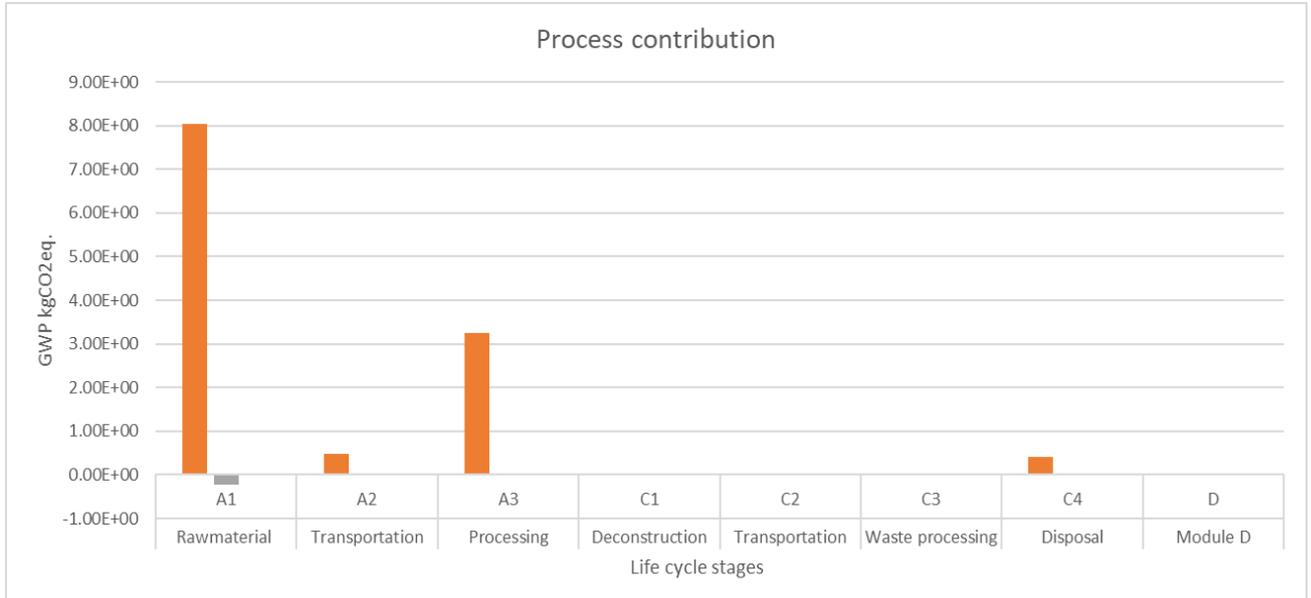
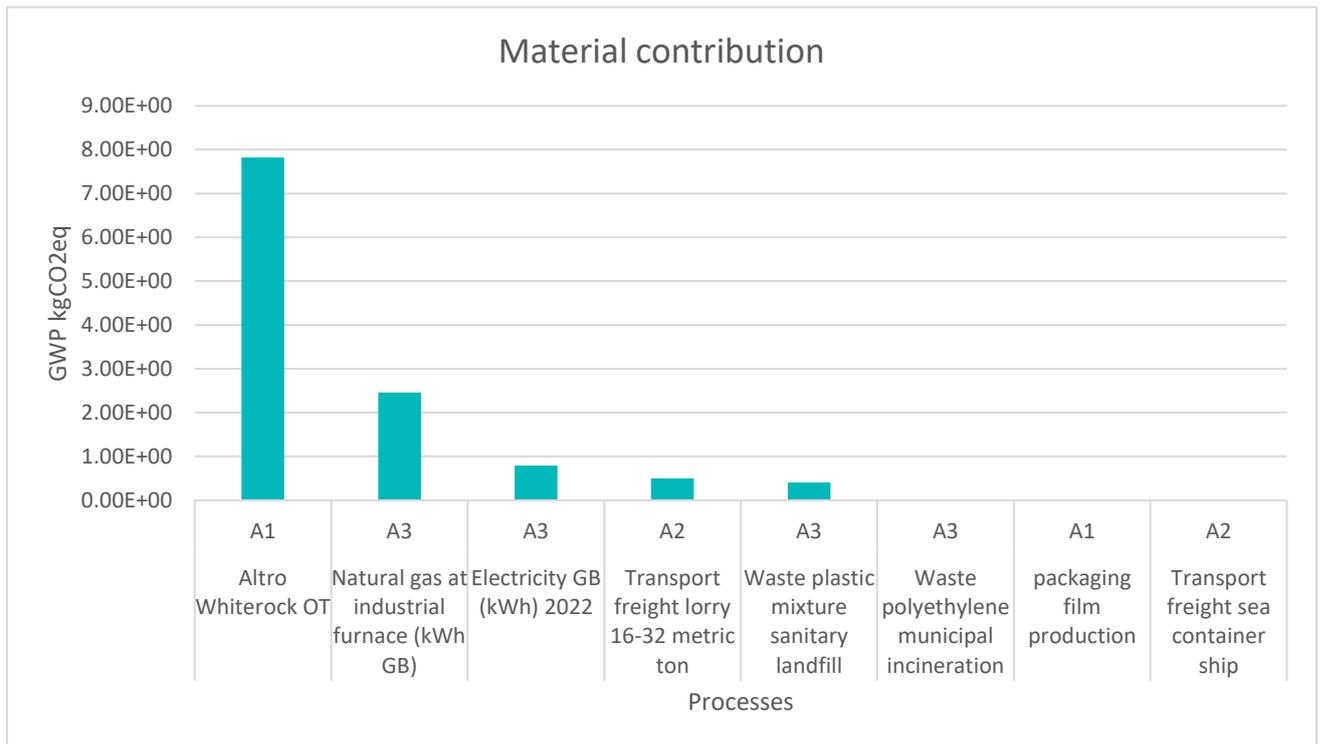


Figure 2 provides a detailed breakdown of the processes contributing to the impact in the A1–A3 stages. Altro Whiterock production has the highest impact in Stage A1, followed by transportation (A2) of Altro Whiterock and energy and natural gas used for the processing of the Altro Whiterock in the factory (A2).

Figure 2 Material contribution



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.

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