Statement of Verification

BREG EN EPD No: 000802 Issue: 01

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

Prismo Road Markings 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 Multidot and Prismolux® Multidot (designation Screed/Extrusion D2018.4)

Company Address

Prismo Road Markings Limited,
5 Drumhead Road,
Chorley North Industrial Park,
Chorley,
PR6 7BX,
United Kingdom.

Signed for BRE Global Limited — Hayley Thomson, Operator

26 May 2026	26 May 2026	25 May 2031
Date of this Issue	Date of First Issue	Expiry Date

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Environmental Product Declaration

EPD Number: 000802

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**
Prismo Road Markings Limited, 5 Drumhead Road, Chorley North Industrial Park, Chorley, PR6 7BX, United Kingdom	**LCA consultant**: Arjun Vijayaragavan 7 Hubbard Street, London, SE100AF **Tool**: KarbonWise LCA software with Ecoinvent 3.10 database
Declared Unit	**Applicability/Coverage**
1 kg of Multidot and Prismolux® Multidot (designation Screed/Extrusion D2018.4)	Product Specific
EPD Type	**Background database**
Cradle-to-gate with options (A4-A5), modules C1-C4 and D	Ecoinvent 3.10

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: Bala Subramanian
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.

The below processes have not been included since its impact is not significant:

- Manufacture of equipment used in production, buildings or any other capital good in A3;
- Transportation of personnel to the plant;
- Transportation of personnel within the plant;
- Research and development activities.
- Domestic water use and other ancillary materials used in production

Manufacturing site(s)

The transport distances were adapted to the factory, specific transport distances for each provider were used for raw material transport. The manufacturing sites included in this EPD are:

Prismo Road Markings Limited
5 Drumhead Road, Chorley North Industrial Park
Chorley, PR6 7BX, United Kingdom

Construction Product:

Product Description

This EPD is representative for **Multidot and Prismolux® Multidot (designation Screed/Extrusion D2018.4).**

Multidot and Prismolux® Multidot (designation Screed/Extrusion D2018.4) are trade names for the same high performance, Type II hot applied thermoplastic road marking material. The product is a structured “dotted” profile line marking that delivers high performance visibility and skid resistance for improved road safety, particularly at night and in wet conditions. The marking consists of raised dotted agglomerates that provide excellent retroreflection, drainage, and audible alerts to drivers, ensuring visibility in both dry and wet weather. It is supplied in powdered form in 20 kg meltable bags, and it is applied by extrusion using specialist equipment.

Multidot and Prismolux® Multidot is Nordic certified for longevity and durability. The material is BS EN 1824 road trial certified by VTI, conforming to EN 1871 (physical properties), EN 1824 (road trials), and EN 1436 (on-road performance).

Geographical Scope: United Kingdom

Technical Information

Property	Value, Unit
Density	2.0 kg/L
Material type	Thermoplastic extrusion/screed

Main Product Contents

The material composition of the declared mixed product:

Material/Chemical Input	% (Approx)
Binders	12.5
Glass Beads	40
Extender, fillers & Additives	36
Others	11.5

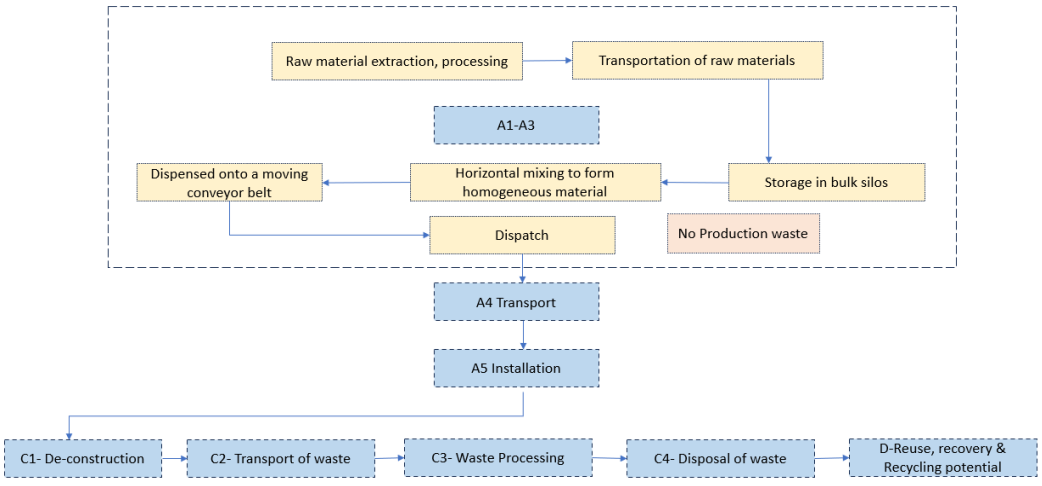
Manufacturing Process

The manufacturing process of Screed Extrusion D2018.4 is comprised of mixing various ingredients together to form a homogenous mixture of powders, oil and resin. The powders are stored in bulk silos and are weighed into specified amounts as determined in the formulation.

They are then conveyed into the bulk receivers at the same time as the resins. Low concentration components for the formula are also added to the mixture via a separate part of the system from bulk bags, and 20Kg bags. These components are also quantified in the same manner by loads cells and then conveyed to the receivers. Once all of the dry raw materials are weighed and conveyed the receivers they are dropped into a horizontal mixer. Once the mixer starts to rotate the oil is dosed into the moving powders.

Once the mixing is complete the resulting homogenous material is dispensed onto a moving conveyor belt where it is transferred to a bagging unit. There the material is weighed into 20Kg bags, the bags are sealed and then stacked onto pallets of 1 tonne in total weight. The pallet is the wrapped and ready for distribution.

Process flow diagram



Life Cycle Assessment Calculation Rules

Declared unit description

1 kg of Multidot and Prismolux® Multidot (designation Screed/Extrusion D2018.4)

System boundary

LCA model of Multidot and Prismolux® Multidot (designation Screed/Extrusion D2018.4) represents a Cradle-to-gate with options (A4-A5), modules C1-C4 and D, starting from raw materials extraction, transportation of raw materials, manufacturing of Multidot and Prismolux® Multidot (designation Screed/Extrusion D2018.4). Demolition (C1), Transport of waste (C2), Waste processing (C3), end of life- disposal of waste (C4) and Resource recovery stage (D) in accordance with EN 15804:2012+A2:2019 and BRE 2023 Product Category Rules (PN 514 Rev 3.1).

Module	Life Cycle Stage	Description
A1	Raw Material Extraction and Processing	Includes the extraction and production of raw materials such as Rosin Ester, Glass Beads, and Plasticising Oil.
A2	Transport of Raw Materials	Covers the road and sea transportation of raw materials to the manufacturing site.
A3	Product Manufacturing	Encompasses all manufacturing and processing activities, including energy and fuel consumption, as well as the packaging materials. The non-production waste generated is included.
A4	Transport to site	Assumes that final product is transported over an average distance of 100 kms.
A5	Installation	Packaging waste treatment is considered in this stage. Packaging materials such as wooden pallets and polythene packages are directed to incineration and landfill & recycled respectively
C1	Deconstruction/Demolition	Considered immaterial or negligible, as waste road markings degrade progressively due to weathering and traffic wear. No additional materials, water, or energy are required. In most cases, new markings are applied over existing ones. In this analysis, the worst-case scenario assumes that 100% of the Multidot and Prismolux® Multidot (designation Screed/Extrusion D2018.4) is removed and sent to a waste-processing facility. The road markings cannot be recycled, as they are mixed with other wastes and are disposed of in landfill without additional processing.
C2	Transport of Waste	The transportation of recovered product waste from the demolition site, the average distance of 50 km is considered.
C3	Waste Processing	The recovered road markings are mixed with other wastes and disposed of in landfill without additional processing.
C4	Disposal of Waste	100% of the road marking waste is assumed to reach landfill.
D	Reuse, Recovery, and Recycling Potential	Not considered in this study as no benefits or loads beyond the system boundary are included.

Data sources, quality and allocation

Data characterizing the core processes (Jan 2023 to Dec 2023) has been considered as the reference year in UK manufacturing unit. The product is manufactured only in one location.

All primary data were collected from Prismo Road markings limited. There is no production waste. The small amount of fine filler materials collected through the extraction system are reintroduced into the production process for reuse. No waste arises from product changeovers, quality assurance activities, overproduction, or minimum-order-quantity runs. Upon data review, it was noted that the mass balance is within the acceptable range.

Proxy datasets were used only for secondary data where direct Ecoinvent datasets were unavailable. For such materials suitable proxy combinations were selected based on similarity in material characteristics and typical production processes.

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 3.10 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 data quality assessment complies with the requirements of ISO 14044:2006.

ISO 14044 Guidelines Quality level	Time Representativeness	Geographical Representativeness	Technological Representativeness
Very Good	There are less than 2 years between the Ecoinvent LCI reference year, and the time period for which the LCA was undertaken.	-	The data used reflects the specific technical characteristics of the process. Same state of technology applied as defined in goal and scope (i.e., identical technology).
Good	-	The data used refers to a similar geographic context	-

The production site manufactures multiple products. Where direct measurement was not feasible, allocation was performed based on production volumes (kg) per product line, as recorded in the factory's production tracking system for the reference year. Accordingly, a kg-based allocation approach was applied to packaging, energy and fuels, and non-production waste to ensure an equitable distribution of impacts among the co-products. This approach ensures that the data reported for the A1–A3 stages accurately represent the share attributable to the declared unit of the product under study.

Electricity Activity – Location based modelling – the UK consumption mix	Time period	Unit	Value
electricity, high voltage, production mix	2020-2023	$kgCO_2eq/kWh$	0.243

Cut-off criteria

The collected data covered all raw materials, consumables; associated transport to the manufacturing site; process energy and all resources. In accordance with the defined cut-off criteria, items contributing less than 1% of the total mass (ancillary products, domestic water, etc) have been excluded from the system boundary. The emission to air, water, and soil is not included in the analysis.

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	1.98E+00	1.93E+00	-2.56E-01	3.07E-01	3.40E-08	1.60E-02	4.29E-03
	Transport	A2	2.11E-01	2.11E-01	5.92E-06	8.65E-05	2.99E-09	8.06E-04	1.68E-05
	Manufacturing	A3	2.65E-03	1.69E-02	-1.42E-02	1.80E-05	4.60E-10	6.76E-05	3.60E-06
	Total (Product stage)	A1-3	2.19E+00	2.16E+00	-2.70E-01	3.07E-01	3.75E-08	1.68E-02	4.31E-03
Construction process stage	Transport	A4	1.57E-02	1.57E-02	5.46E-07	6.41E-06	2.23E-10	5.25E-05	1.26E-06
	Construction	A5	1.43E-02	1.31E-03	2.72E-02	1.31E-06	8.52E-12	7.18E-06	4.69E-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	9.79E-03	9.78E-03	-3.28E-08	3.89E-06	1.37E-10	3.26E-05	7.67E-07
	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	9.51E-02	9.50E-02	2.56E-01	6.20E-06	2.82E-10	7.82E-05	1.16E-06
Potential benefits and loads beyond the system	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	4.31E-03	2.80E-02	8.32E-03	4.44E-05	2.32E+01	1.77E+00	1.64E-07
	Transport	A2	2.51E-04	2.74E-03	1.06E-03	6.69E-07	2.98E+00	1.39E-02	1.77E-08
	Manufacturing	A3	1.56E-05	1.68E-04	8.26E-05	8.95E-08	3.89E-01	5.66E-03	9.53E-10
	Total (Product stage)	A1-3	4.58E-03	3.09E-02	9.46E-03	4.51E-05	2.66E+01	1.79E+00	1.83E-07
Construction process stage	Transport	A4	1.69E-05	1.84E-04	7.42E-05	5.04E-08	2.22E-01	1.04E-03	1.33E-09
	Construction	A5	2.26E-06	1.93E-05	5.42E-06	6.08E-09	1.32E-02	4.87E-04	1.32E-10
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	1.06E-05	1.15E-04	4.54E-05	3.21E-08	1.37E-01	6.17E-04	7.75E-10
	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	2.97E-05	3.22E-04	1.34E-04	2.50E-08	2.47E-01	1.12E-03	1.80E-09
Potential benefits and loads beyond	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	1.05E-01	5.00E+01	7.85E-09	4.37E-08	2.91E+01
	Transport	A2	2.58E-03	7.82E-01	1.07E-09	1.90E-09	2.21E+00
	Manufacturing	A3	3.31E-03	1.19E-01	1.02E-10	1.29E-10	1.89E+00
	Total (Product stage)	A1-3	1.11E-01	5.09E+01	9.03E-09	4.57E-08	3.32E+01
Construction process stage	Transport	A4	1.94E-04	5.87E-02	7.99E-11	1.43E-10	1.67E-01
	Construction	A5	5.82E-05	7.82E-03	4.54E-12	3.09E-11	4.95E-03
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.13E-04	3.66E-02	5.07E-11	8.78E-11	8.18E-02
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	2.24E-04	3.54E-01	7.21E-11	3.23E-09	5.79E-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

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	7.76E+00	2.86E+00	1.06E+01	7.42E+00	1.61E+01	2.36E+01
	Transport	A2	4.05E-02	0.00E+00	4.05E-02	2.98E+00	0.00E+00	2.98E+00
	Manufacturing	A3	1.56E-01	1.25E-01	2.81E-01	2.43E-01	1.46E-01	3.89E-01
	Total (Production stage)	A1-3	7.95E+00	2.98E+00	1.09E+01	1.06E+01	1.63E+01	2.69E+01
Construction process stage	Transport	A4	3.04E-03	0.00E+00	3.04E-03	2.22E-01	0.00E+00	2.22E-01
	Construction	A5	-1.47E-01	1.48E-01	1.49E-03	-1.21E-01	1.34E-01	1.32E-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	1.80E-03	0.00E+00	1.80E-03	1.37E-01	0.00E+00	1.37E-01
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	3.52E-03	0.00E+00	3.52E-03	-9.89E+00	1.01E+01	2.47E-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	0.00E+00	3.86E-04	0.00E+00	4.29E-02
	Transport	A2	1.34E-03	1.67E-05	0.00E+00	4.04E-04
	Manufacturing	A3	4.35E-04	0.00E+00	0.00E+00	1.34E-04
	Total (Production stage)	A1-3	1.77E-03	4.03E-04	0.00E+00	4.34E-02
Construction process stage	Transport	A4	9.97E-05	1.26E-06	0.00E+00	3.04E-05
	Construction	A5	2.41E-03	7.52E-08	0.00E+00	3.22E-06
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	6.16E-05	7.84E-07	0.00E+00	1.77E-05
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	8.94E-05	1.69E-06	0.00E+00	-3.70E-03
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	3.06E-01	1.17E+01	7.02E-06
	Transport	A2	5.26E-03	9.87E-02	1.88E-07
	Manufacturing	A3	1.07E-03	6.30E-02	1.41E-07
	Total (Production Stage)	A1-3	3.13E-01	1.19E+01	7.35E-06
Construction process stage	Transport	A4	3.94E-04	7.42E-03	1.41E-08
	Construction	A5	1.53E-04	1.63E-02	6.01E-09
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	2.40E-04	4.52E-03	8.23E-09
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	4.36E-04	4.97E+00	1.62E-08
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	9.79E-04	1.25E-03	8.02E-03	7.29E-02	0.00E+00
	Transport	A2	0.00E+00	2.81E-05	1.85E-07	2.29E-04	0.00E+00	0.00E+00
	Manufacturing	A3	0.00E+00	7.82E-06	5.33E-07	5.06E-05	3.90E-03	3.89E-02
	Total (Product stage)	A1-3	0.00E+00	1.01E-03	1.25E-03	8.30E-03	7.68E-02	3.89E-02
Construction process stage	Transport	A4	0.00E+00	1.70E-06	1.40E-08	1.72E-05	0.00E+00	0.00E+00
	Construction	A5	0.00E+00	1.43E-06	1.02E-09	4.31E-06	3.51E-03	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	1.01E-06	8.85E-09	9.98E-06	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	4.17E-06	1.74E-08	2.04E-05	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

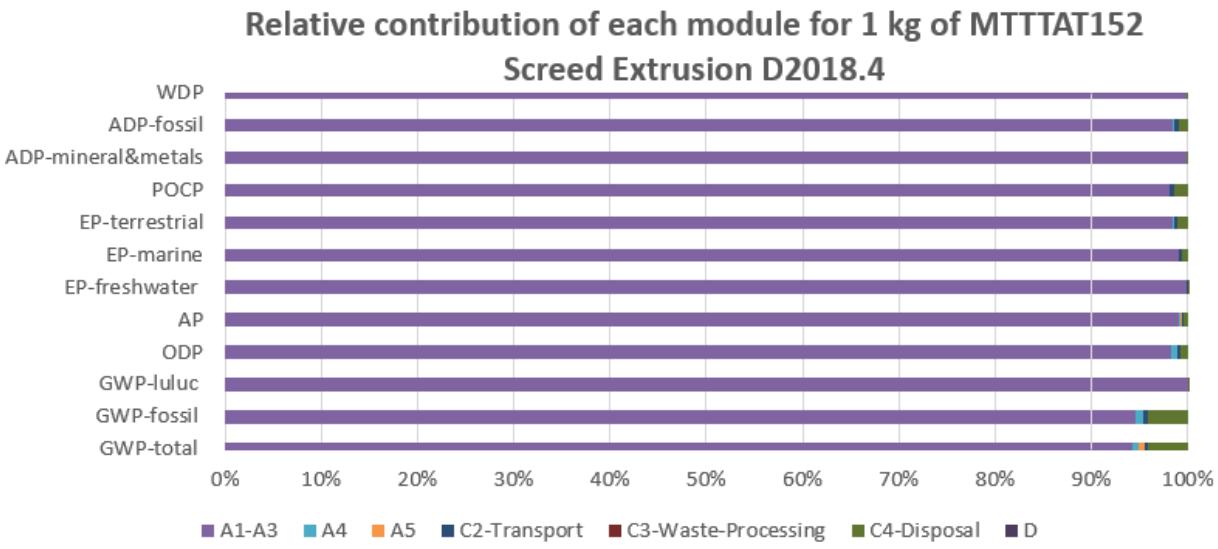
Scenarios and additional technical information

Scenarios and additional technical information			
Scenario	Parameter	Units	Results
A4 – Transport to the building site	Assumes that final product is transported over an average distance of 100 kms.		
Transport	Transport, Freight, Lorry, All Sizes, Euro5	km	100
	Quantity of material considered	kg	1
A5 – Installation in the building	No product waste is generated during installation only packaging waste is produced. Packaging materials such as wooden pallets and polythene packages are directed to incineration and landfill & recycled respectively		
Installation waste	Installation wastage rate (Product waste)	%	0
	Packaging waste- Wooden pallets to incineration	kg	0.00874
	Packaging waste- Polyethylene waste to landfill	kg	0.000971
	Packaging waste- Polyethylene waste to recycle	kg	0.002265
Reference service life	2 years		
Design application parameter	Use as indicated in product brochure and instructions		
C1- De-construction/Demolition	Considered immaterial or negligible, as waste road markings degrade progressively due to weathering and traffic wear. No additional materials, water, or energy are required. In most cases, new markings are applied over existing ones. In this analysis, the worst-case scenario assumes that 100% of the Multidot and Prismolux® Multidot (designation Screed/Extrusion D2018.4) is removed and sent to a waste-processing facility. The road markings cannot be recycled, as they are mixed with other wastes and are disposed of in landfill without additional processing.		
C2- Transport of waste	The transportation of recovered product waste from the demolition site, the average distance of 50 km is considered.		
Transport	Transport, Freight, Lorry 16-32 Metric Ton, Euro5	km	50
C3- Waste processing	The recovered road markings are mixed with other wastes and disposed of in landfill without additional processing.		
C4- Disposal of waste	100% of the road-marking waste generated at end-of-life is sent to landfill	kg	1
Module D	Not considered in this study as no benefits or loads beyond the system boundary are included.		

Interpretation

The results displayed below apply to 1 kilogram of Multidot and Prismolux® Multidot (designation Screed/Extrusion D2018.4). It illustrates the relative contributions of the different modules assessed to various environmental impact categories. Most impacts relate to the production stage of the product (included in Module A1-A3).

Figure 1



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