

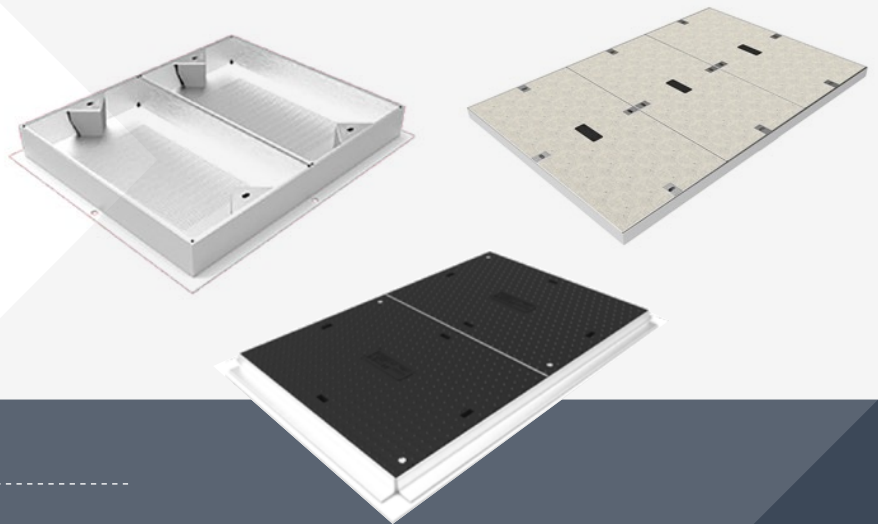


# ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025 and EN 15804:2012+A2:2019 for:

## AX-S™ Composite, Concrete & Recessed Access Covers

from Cubis Systems



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**PROGRAMME:**

The International EPD® System, [www.environdec.com](http://www.environdec.com)

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**PROGRAMME OPERATOR:**

EPD International AB

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**EPD REGISTRATION NUMBER:**

S-P-04968

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**PUBLICATION DATE:**

2022-02-07

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**VALID UNTIL:**

2026-12-12

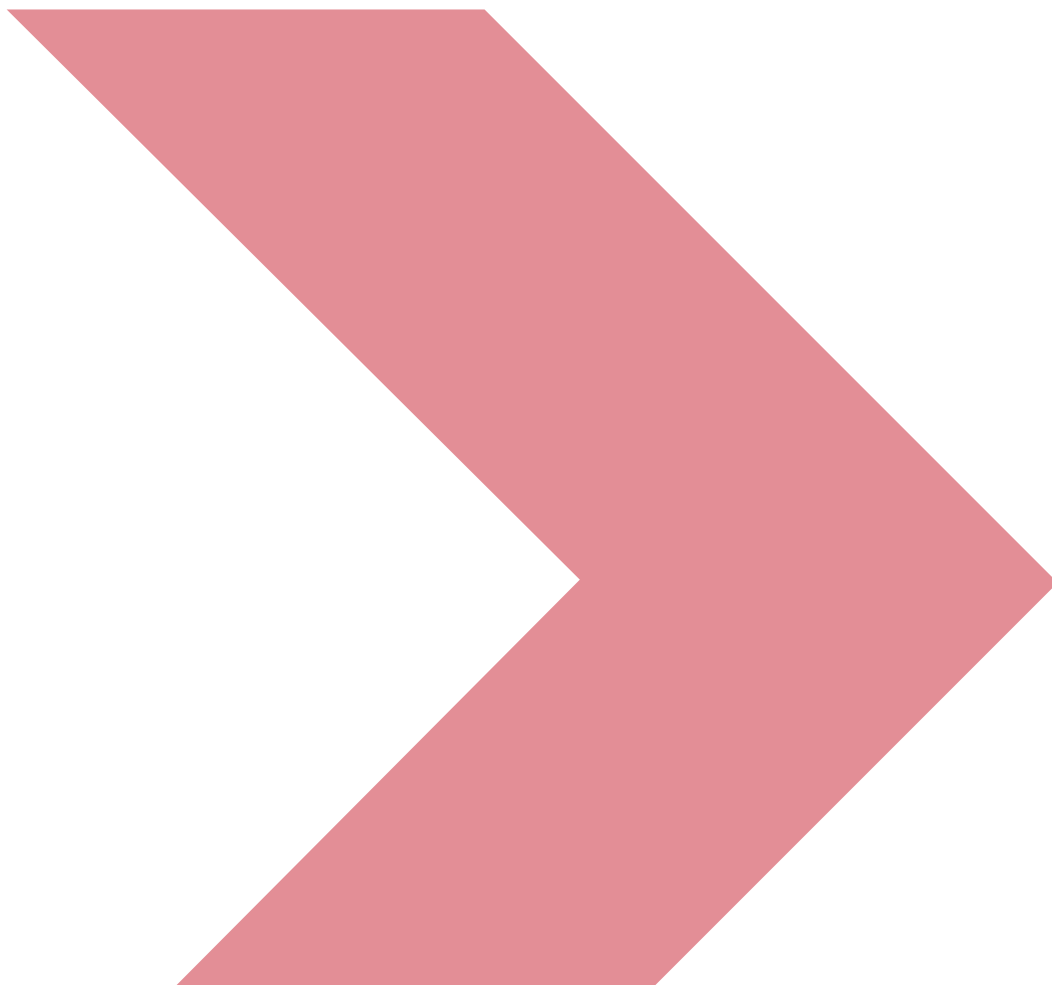
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An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at [www.environdec.com](http://www.environdec.com)



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# ENVIRONMENTAL PRODUCT DECLARATION

## PROGRAMME DETAILS

### PROGRAMME:

The International EPD® System

### ADDRESS:

EPD International AB  
Box 210 60  
SE-100 31 Stockholm  
Sweden

### WEBSITE:

www.environdec.com

### EMAIL:

info@environdec.com

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

Product category rules (PCR): PCR 2019:14  
Construction products. Version 1.11, 2021-02-05

PCR review was conducted by: technical committee of the International EPD® System.  
www.environdec.com - info@environdec.com

Independent third-party verification of the declaration and data, according to ISO 14025:2006:

EPD process certification       EPD verification

Third party verifier: Chris Foster, EuGeos Srl  
Approved by: The International EPD® System

Procedure for follow-up of data during EPD validity involves third party verifier:

Yes       No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804. For further information about comparability, see EN 15804 and ISO 14025.

## CUBIS SYSTEMS

### OWNER OF THE EPD:

Cubis Systems  
4 Silverwood Industrial Estate  
Lurgan, Co. Armagh, BT66 6LN, UK  
www.cubis-systems.com

### CONTACT:

Julia McDaid  
Technical Director  
JMcDaid@cubis-systems.com

### PRODUCT RELATED OR MANAGEMENT SYSTEM RELATED CERTIFICATIONS:

Cubis Systems is certified to ISO 14001:2015 Environmental Management and ISO 9001:2015 Quality Management.

### NAME AND LOCATION OF PRODUCTION SITE(S):

Cubis Systems  
Lurgan: 4 Silverwood Industrial Estate, Co. Armagh,  
BT66 6LN, UK

Cubis Systems  
Liverpool: 3-5 Yardley Road, Knowsley Ind Estate, Kirkby,  
Liverpool, L33 7SS, UK

### DESCRIPTION OF THE ORGANISATION:

Cubis Systems is the market leader in access chambers and cable protection systems for use within global infrastructure markets. Active across seven distinct market sectors from water to telecoms, and selling to more than 30 countries, Cubis manufactures its products at sites across the UK and Ireland. Being part of CRH enables Cubis to draw down on some of the highest ethical standards and practices, whilst providing knowledge and expertise from one of the largest construction materials companies globally.

### Our People

At Cubis, our ability to deliver the best for our customers rests on the commitment, talent and skills of our people. Our employees are dedicated to making the company's innovations in new designs, manufacturing techniques and materials work consistently for customers across the world.

With customer satisfaction strongly embedded in our company culture, we build close relationships in key industries internationally to ensure Cubis products solve real-world issues in the building of underground infrastructure networks.

### Our Products

Cubis products deliver high-quality modern solutions that replace conventional construction materials like bricks and concrete. Our strong, lightweight modular products incorporate intelligent design features and can be installed much faster than traditional methods, saving customers time and money.

All our products have been designed to maximise structural strength using the optimum amount of material thus eliminating any unnecessary weight or waste. By re-using materials, where possible, that would otherwise be disposed of as a waste, we not only divert them from waste streams, but also reduce the carbon footprint of our products and promote resource efficiency. The design and adaptability of our products also future proofs the system allowing for expanded capacity without a need for product replacement. Lightweight product parts remove the need for heavy lifting equipment, reducing the energy demand during installation.

### Our Responsibilities

Whether in the workplace, the marketplace, the community or the environment, corporate responsibility matters to Cubis and we show it through the way we work and behave.

At Cubis Systems, we use a variety of materials to manufacture our products. Our goal is to create a closed loop recycling system and a circular economy. We can achieve this by using as much recycled material as we can in our manufacturing process and by ensuring our products are either recyclable or reusable wherever possible.

Health and Safety is integrated into the fabric of the company's business and operations. We fully support the right of every employee to work in an environment that means we all go home safely at the end of each day. We also take our responsibility to the environment seriously. We work hard to address the challenges of climate change both through product design and careful management of our production processes.



## PRODUCT INFORMATION

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### PRODUCT NAME:

AX-S™ Composite, Concrete or Recessed Access Covers

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### PRODUCT IDENTIFICATION:

Access covers in Glass-Reinforced Polyester (GRP), concrete and steel.

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### UN CPC CODE:

CPC 3712 Glass fibres and articles thereof, except woven fabrics; CPC 3756 Other articles of cement, concrete or artificial stone; CPC 4219 Other structures (except prefabricated buildings) and parts of structures, of iron, steel or aluminium.

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### PRODUCT DESCRIPTION:

Cubis' AX-S™ range of access covers have been developed to deliver the complete underground network access system. Designed to complement the STAKKAbox™ chamber ranges, the AX-S™ range of covers can be tailored to meet any loading requirement internationally, from pedestrian up to carriageway applications. Available in an extensive range of sizes and design options from composite, concrete and steel, complete with galvanised steel frames.

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### AX-S™ COMPOSITE COVERS

The composite cover range offers a lightweight solution in a wide range of sizes. Combinations of covers, located in bespoke steel frames are used to achieve larger clear opening sizes. The composite cover tread pattern is anti-slip, exceeding a Slip Resistance Value (SRV) of 80. Also, the long lifespan provides lower total life costs for the end user.

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### AX-S™ CONCRETE COVERS

The concrete cover range offers flexibility in size and design. Bespoke badging and locking features provide customers with a safe, secure and easy access cover system. Tapered sides and central lifting points allow for a one person lift and slide to access utilities beneath. Slip resistance increases over the product life cycle as it ages.

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### AX-S™ RECESSED COVERS

The recessed cover range has developed a reputation in the construction industry for providing the highest quality, safe to use and secure cover system that can blend into the surrounding installation area. The ideal solution for shared spaces that feature slow moving traffic and where the demarcation between pedestrians and drivers is minimised.

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### TECHNICAL INFORMATION

Further technical information including, product data sheets, technical drawings, BIM models, product brochures, installation guides, certifications and accreditations is available on the Cubis Systems website:  
[www.cubis-systems.com/uk/technical-area/](http://www.cubis-systems.com/uk/technical-area/)



# LIFE CYCLE ASSESSMENT METHODOLOGY

## LCA INFORMATION

### DECLARED UNIT:

1 kg of AX-S™ Composite, Concrete & Recessed Access Covers

### TIME REPRESENTATIVENESS:

2019

### DATABASE USED:

Ecoinvent 3.6

### LCA SOFTWARE USED:

Simapro 9.1

### LCA PRACTITIONER:

Studio Fieschi & soci Srl  
C.so Vittorio Emanuele II, 18 10123 Torino, IT  
[www.studiofieschi.it](http://www.studiofieschi.it)



### DESCRIPTION OF SYSTEM BOUNDARIES:

Cradle-to-gate with options (Modules A4–A5), modules C1–C4 and module D. System boundaries include:

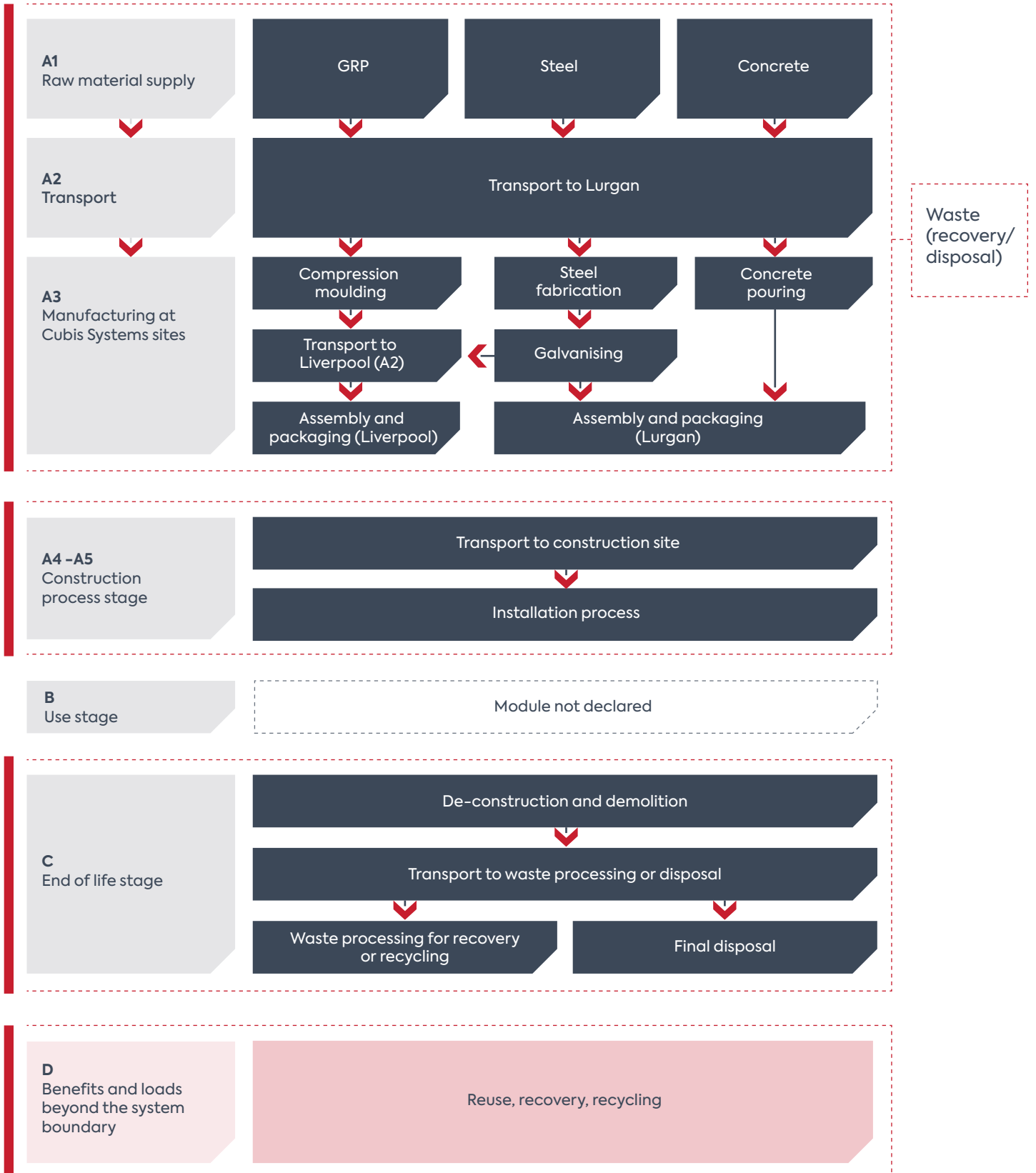
- A1: Raw material extraction and processing, processing of secondary material input, production of energy used in manufacturing processes (A3);
- A2: Transport of raw materials and secondary material inputs to Cubis Systems sites and internal transport;
- A3: Manufacturing of the construction product and packaging, including water use, emissions to air and water discharges, waste disposal;
- A4: Transport to the installation site;
- A5: Installation;
- C1: De-construction and demolition;
- C2: Transport to waste processing;
- C3: Waste processing for reuse, recovery and/or recycling;
- C4: Final disposal;
- D: Estimate of the potential benefits and/or impacts in case the products under study were reused, recycled or recovered.

### The system boundaries do not include:

- Input and output flows related to personnel (e.g., energy used in head offices and sales offices, transport of employees to and from the workplace, water use for toilets, etc);
- Input and output flows related to production and maintenance of equipment.



**System diagram**



**CUT-OFF:**

The following cut-offs were applied: steel strapping used for packaging; auxiliary materials used at Lurgan (solvent).

**ALLOCATION RULES:**

Multifunctional situations were managed as follows:

- electricity consumptions in Lurgan and Liverpool were allocated to the different production processes according to estimates provided by Cubis Systems staff;
- VOC and waste oil in Liverpool manufacturing site were allocated to compression/injection moulded products only;
- oily water and oil absorbent in Lurgan manufacturing site were allocated to compression moulded products only;
- concrete waste in Lurgan manufacturing site was allocated to concrete products only;
- other input and output flows than those listed above were allocated based on the mass of products and co-products.

**IMPACT ASSESSMENT:**

Inventory indicators relating to the use of renewable and non-renewable secondary fuels, as well as energy exported in output flows, have been assumed 0, as these flows are not significant for the products under analysis and their modelling would be subject to a high level of uncertainty.

**PRODUCTION PROCESS (A1-A3):**

Access covers complete the underground network access system and are produced by Cubis Systems in composite materials, concrete or steel, complete with galvanised steel frames.

All AX-S covers are combined with galvanised steel frames. Common sizes of covers are presented later in Additional Information on Pages 26 – 28.

All covers are manufactured in Lurgan. Composite covers are then sent to Liverpool for assembly and packaging.

All raw materials are processed in Lurgan.

**PACKAGING:**

The product is packed on wooden pallets. It is assumed that pallets are reused 25 times [9].

**ENERGY MIX:**

Lurgan site uses electricity 42.9% from renewable sources. The GWP-GHG of the electric mix used is 267 g CO<sub>2</sub>eq./kWh.

Liverpool site uses electricity 100% from renewable sources. The GWP-GHG of the electric mix used is 31.4 g CO<sub>2</sub>eq./kWh.

**TRANSPORT AND INSTALLATION (A4 – A5):**

- **Module A4:** Transportation impacts occurred from delivering the final products to the construction site, covering direct fuel exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions. The distribution scenario was modelled according to logistics data provided by Cubis Systems and using Ecoinvent datasets for freight transport: truck > 32t (diesel) for road transport and ship (diesel) for extra-European transportation:
  - Vehicle type: truck > 32t (diesel) for road transport and ship (diesel) for extra-European transportation;
  - Weighted average distance: 664 km by truck, 87 km by ship for composite covers. 505 km by truck, 244 km by ship for concrete covers. 474 km by truck, 213 km by ship for recessed covers;
  - Capacity utilisation: according to Ecoinvent datasets for freight transport in Europe;
  - Bulk density of transported products: trucks are loaded to their maximum mass capacity;
  - Volume capacity utilisation factor: <1.
- **Module A5:** AX-S covers do not require the use of machinery or removal of excess soil. Waste materials generated by the product's installation: packaging, wooden pallet, to energy recovery (assumed 50 km to recovery facility): 0.00086 kg.

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## END OF LIFE SCENARIO (C1-C4, D):

➤ **Collection process:** 1 kg of waste collected separately.

➤ **Recovery system:**

- Composite covers: 0.49 kg of steel frame for recycling;
- Concrete covers: 0.80 kg of concrete cover and 0.10 kg of steel frame for recycling;
- Recessed covers: 0.95 kg of steel frame and cover for recycling.





➤ **Disposal:**

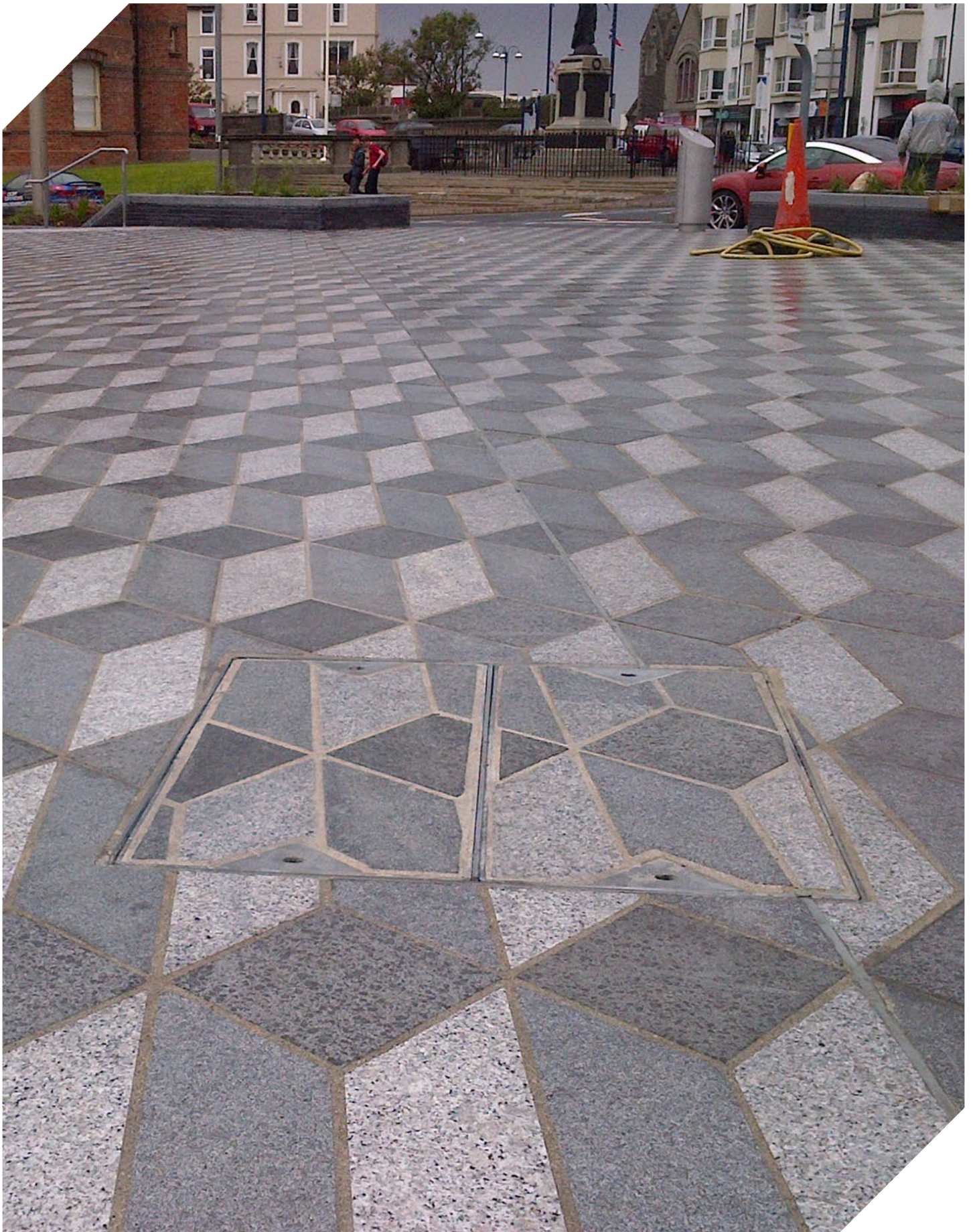
- Composite covers: 0.48 kg of GRP cover and 0.026 kg of steel frame for final disposal;
- Concrete covers: 0.10 kg of concrete cover and 0.0051 kg of steel frame for final disposal;
- Recessed covers: 0.050 kg of steel frame and cover for final disposal.

➤ **Assumptions for scenario development:**

- **Module C1:** not relevant (as for installation, the removal of AX-S covers does not require the use of machinery);
- **Module C2:** a distance of 50 km is assumed for the transport of materials to disposal, distributed as 63% by truck and 37% by train [8];
- **Modules C3 / C4:** the following EoL scenario was set:
  - GRP: Although recent industry analyses have recognised the possibility of recovering part of the GRP at the end of its life, as a precautionary measure GRP is assumed to be 100% destined to landfill.
  - Steel: 95% to recycling and 5% to landfill [12].
  - Concrete: 89% to recycling and 11% to landfill. To reach the end-of-waste state, the consumption of 0.044 MJ/ kg diesel for crushing activities was assumed [13].

Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation:

Stages		Module	Modules declared	Geography	Specific data used	Variation – products	Variation – sites
 <b>Product stage</b>	Raw material supply	A1	X	EU	>90%	Not relevant	Not relevant
	Transport	A2	X	EU			
	Manufacturing	A3	X	UK			
 <b>Construction process stage</b>	Transport	A4	X	Global			
	Construction installation	A5	X	Global			
 <b>Use stage</b>	Use	B1	ND	-	-	-	-
	Maintenance	B2	ND	-	-	-	-
	Repair	B3	ND	-	-	-	-
	Replacement	B4	ND	-	-	-	-
	Refurbishment	B5	ND	-	-	-	-
	Operational energy use	B6	ND	-	-	-	-
	Operational water use	B7	ND	-	-	-	-
 <b>End of life stage</b>	De-construction demolition	C1	X	Global	-	-	-
	Transport	C2	X	Global	-	-	-
	Waste processing	C3	X	Global	-	-	-
	Disposal	C4	X	Global	-	-	-
<b>Resource recovery stage</b>	Reuse-Recovery-Recycling-potential	D	X	Global	-	-	-



# PRODUCT CONTENT

## AX-S™ Composite Covers

Product components	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%
Cover - GRP, sheet moulded compound	0.47	0	0
Frame - Steel	0.53	30%	0
<b>TOTAL</b>	1.0	16%	0
Packaging materials	Weight, kg	Weight-% (versus the product)	
Pallet - Wood	0.00083	0.083%	
<b>TOTAL</b>	0.00083	0.083%	

## AX-S™ Concrete Covers

Product components	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%
Cover - Concrete	0.89	0	0
Frame - Steel	0.11	30%	0
<b>TOTAL</b>	1.0	3.3%	0
Packaging materials	Weight, kg	Weight-% (versus the product)	
Pallet - Wood	0.00084	0.084%	
<b>TOTAL</b>	0.00084	0.084%	



## AX-S™ Recessed Covers

Product components	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%
Cover + Frame – Steel	1.0	30%	0
<b>TOTAL</b>	1.0	30%	0
Packaging materials	Weight, kg	Weight-% (versus the product)	
Pallet - Wood	0.0013	0.13%	
<b>TOTAL</b>	0.0013	0.13%	

The product does not contain dangerous substances from the candidate list of Substances of Very High Concern (SVHC) for Authorisation.

# ENVIRONMENTAL PERFORMANCE

## AX-S™ Composite Covers - Potential environmental impact - mandatory indicators according to EN 15804

Results per 1 kg of AX-S Composite Cover									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO <sub>2</sub> eq.	2.48E+00	6.38E-02	3.91E-06	0.00E+00	3.67E-03	0.00E+00	1.83E-02	0.00E+00
GWP-fossil	kg CO <sub>2</sub> eq.	2.47E+00	6.38E-02	3.91E-06	0.00E+00	3.66E-03	0.00E+00	1.83E-02	0.00E+00
GWP-biogenic**	kg CO <sub>2</sub> eq.	8.54E-03	2.67E-05	1.60E-09	0.00E+00	4.54E-06	0.00E+00	1.63E-06	0.00E+00
GWP-luluc	kg CO <sub>2</sub> eq.	1.54E-03	2.14E-05	1.14E-09	0.00E+00	2.28E-06	0.00E+00	3.56E-07	0.00E+00
ODP	kg CFC 11 eq.	2.05E-07	1.49E-08	9.19E-13	0.00E+00	7.52E-10	0.00E+00	5.00E-10	0.00E+00
AP	mol H <sup>+</sup> eq.	1.18E-02	2.92E-04	1.64E-08	0.00E+00	1.68E-05	0.00E+00	1.24E-05	0.00E+00
EP-freshwater	kg P eq.	1.08E-04	4.93E-07	2.98E-11	0.00E+00	7.71E-08	0.00E+00	1.64E-08	0.00E+00
EP-freshwater	kg PO <sub>4</sub> <sup>3-</sup> eq.	3.32E-04	1.51E-06	9.13E-11	0.00E+00	2.36E-07	0.00E+00	5.02E-08	0.00E+00
EP-marine	kg N eq.	2.25E-03	8.90E-05	4.94E-09	0.00E+00	4.63E-06	0.00E+00	2.34E-05	0.00E+00
EP-terrestrial	mol N eq.	2.57E-02	9.84E-04	5.46E-08	0.00E+00	5.16E-05	0.00E+00	4.93E-05	0.00E+00
POCP	kg NMVOC eq.	9.54E-03	3.09E-04	1.76E-08	0.00E+00	1.61E-05	0.00E+00	1.79E-05	0.00E+00
ADP-minerals & metals*	kg Sb eq.	2.59E-03	1.07E-06	6.67E-11	0.00E+00	5.69E-08	0.00E+00	1.21E-08	0.00E+00
ADP-fossil*	MJ	3.22E+01	9.86E-01	6.08E-05	0.00E+00	5.76E-02	0.00E+00	3.68E-02	0.00E+00
WDP	m <sup>3</sup>	8.85E-01	3.20E-03	1.97E-07	0.00E+00	2.99E-04	0.00E+00	1.70E-04	0.00E+00
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; 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; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption								

\* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator. \*\* Disclaimer: As there is no significant contribution of biogenic carbon in the product, the balance of CO<sub>2</sub> from biogenic origin entering and leaving the system was assumed to be neutral.



**AX-S™ Composite Covers - Potential environmental impact - additional mandatory and voluntary indicators**

Results per 1 kg of AX-S Composite Cover									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-GHG <sup>1</sup>	kg CO <sub>2</sub> eq.	2.39E+00	6.32E-02	3.87E-06	0.00E+00	3.63E-03	0.00E+00	1.56E-02	0.00E+00

**AX-S™ Composite Covers - Use of resources**

Results per 1 kg of AX-S Composite Cover									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	3.57E+00	1.27E-02	7.66E-07	0.00E+00	2.26E-03	0.00E+00	1.70E-03	0.00E+00
PERM	MJ	1.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	3.59E+00	1.27E-02	7.66E-07	0.00E+00	2.26E-03	0.00E+00	1.70E-03	0.00E+00
PENRE	MJ	2.49E+01	9.86E-01	6.08E-05	0.00E+00	5.76E-02	0.00E+00	3.68E-02	0.00E+00
PENRM	MJ.	7.34E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	3.22E+01	9.86E-01	6.08E-05	0.00E+00	5.76E-02	0.00E+00	3.68E-02	0.00E+00
SM	kg	1.57E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m <sup>3</sup>	2.59E-02	1.13E-04	6.92E-09	0.00E+00	1.41E-05	0.00E+00	4.58E-05	0.00E+00
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources 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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water								

<sup>1</sup> The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus almost equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.3.

## AX-S™ Composite Covers - Waste production and output flows

### Waste production

Results per 1 kg of AX-S Composite Cover									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
Hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-hazardous waste disposed	kg	5.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-01	0.00E+00
Radioactive waste disposed	kg	1.04E-04	6.73E-06	4.15E-10	0.00E+00	3.83E-07	0.00E+00	2.42E-07	0.00E+00

### Output flows

Results per 1 kg of AX-S Composite Cover									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-01	0.00E+00	0.00E+00
Materials for energy recovery	kg	5.84E-02	0.00E+00	8.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, electricity	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

## AX-S™ Composite Cover - Information on biogenic carbon content

Results per functional or declared unit		
BIOGENIC CARBON CONTENT	UNIT	QUANTITY
Biogenic carbon content in product	kg C	0
Biogenic carbon content in packaging	kg C	0.00041

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO<sub>2</sub>.

**AX-S™ Concrete Covers - Potential environmental impact - mandatory indicators according to EN 15804**

Results per 1 kg of AX-S Concrete Cover									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO <sub>2</sub> eq.	3.82E-01	5.77E-02	3.82E-07	0.00E+00	3.67E-03	3.18E-03	1.11E-03	0.00E+00
GWP-fossil	kg CO <sub>2</sub> eq.	3.77E-01	5.77E-02	3.82E-07	0.00E+00	3.66E-03	3.18E-03	1.11E-03	0.00E+00
GWP-biogenic**	kg CO <sub>2</sub> eq.	4.50E-03	2.77E-05	1.57E-10	0.00E+00	4.54E-06	5.96E-07	4.39E-06	0.00E+00
GWP-luluc	kg CO <sub>2</sub> eq.	1.98E-04	3.35E-05	1.11E-10	0.00E+00	2.28E-06	2.50E-07	4.94E-07	0.00E+00
ODP	kg CFC 11 eq.	2.24E-08	1.30E-08	8.97E-14	0.00E+00	7.52E-10	6.86E-10	3.43E-10	0.00E+00
AP	mol H <sup>+</sup> eq.	1.65E-03	3.10E-04	1.60E-09	0.00E+00	1.68E-05	3.32E-05	9.44E-06	0.00E+00
EP-freshwater	kg P eq.	1.63E-05	4.91E-07	2.91E-12	0.00E+00	7.71E-08	1.16E-08	1.85E-08	0.00E+00
EP-freshwater	kg PO <sub>4</sub> <sup>3-</sup> eq.	5.01E-05	1.51E-06	8.92E-12	0.00E+00	2.36E-07	3.54E-08	5.68E-08	0.00E+00
EP-marine	kg N eq.	3.44E-04	1.07E-04	4.82E-10	0.00E+00	4.63E-06	1.47E-05	3.19E-06	0.00E+00
EP-terrestrial	mol N eq.	3.94E-03	1.18E-03	5.34E-09	0.00E+00	5.16E-05	1.61E-04	3.52E-05	0.00E+00
POCP	kg NMVOC eq.	1.40E-03	3.45E-04	1.72E-09	0.00E+00	1.61E-05	4.43E-05	1.02E-05	0.00E+00
ADP-minerals & metals*	kg Sb eq.	5.00E-04	8.90E-07	6.51E-12	0.00E+00	5.69E-08	4.87E-09	1.18E-08	0.00E+00
ADP-fossil*	MJ	3.59E+00	8.69E-01	5.94E-06	0.00E+00	5.76E-02	4.37E-02	2.60E-02	0.00E+00
WDP	m <sup>3</sup>	1.12E-01	2.89E-03	1.93E-08	0.00E+00	2.99E-04	5.86E-05	1.12E-03	0.00E+00
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; 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; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption								

\* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator. \*\* Disclaimer: As there is no significant contribution of biogenic carbon in the product, the balance of CO<sub>2</sub> from biogenic origin entering and leaving the system was assumed to be neutral.

### AX-S™ Concrete Covers - Potential environmental impact – additional mandatory and voluntary indicators

Results per 1 kg of AX-S Concrete Cover									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-GHG <sup>1</sup>	kg CO <sub>2</sub> eq.	2.11E-08	4.48E-09	3.45E-14	0.00E+00	2.96E-10	8.81E-10	1.81E-10	0.00E+00

### AX-S™ Concrete Covers - Use of resources

Results per 1 kg of AX-S Cover Concrete									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	4.46E-01	1.27E-02	7.48E-08	0.00E+00	2.26E-03	2.37E-04	4.29E-04	0.00E+00
PERM	MJ	1.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	4.60E-01	1.27E-02	7.48E-08	0.00E+00	2.26E-03	2.37E-04	4.29E-04	0.00E+00
PENRE	MJ	3.59E+00	8.69E-01	5.94E-06	0.00E+00	5.76E-02	4.37E-02	2.60E-02	0.00E+00
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	3.59E+00	8.69E-01	5.94E-06	0.00E+00	5.76E-02	4.37E-02	2.60E-02	0.00E+00
SM	kg	3.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m <sup>3</sup>	4.07E-03	1.08E-04	6.76E-10	0.00E+00	1.41E-05	2.25E-06	2.73E-05	0.00E+00
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources 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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water								

<sup>2</sup> The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus almost equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

**AX-S™ Concrete Covers - Waste production and output flows**

Waste production

Results per 1 kg of AX-S Concrete Cover									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
Hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-hazardous waste disposed	kg	5.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-01	0.00E+00
Radioactive waste disposed	kg	1.28E-05	5.92E-06	4.05E-11	0.00E+00	3.83E-07	3.04E-07	1.56E-07	0.00E+00

Output flows

Results per 1 kg of AX-S Concrete Cover									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-01	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	8.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, electricity	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

**AX-S™ Concrete Covers - Information on biogenic carbon content**

Results per functional or declared unit		
BIOGENIC CARBON CONTENT	UNIT	QUANTITY
Biogenic carbon content in product	kg C	0
Biogenic carbon content in packaging	kg C	0.00042

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO<sub>2</sub>.

## AX-S™ Recessed Covers - Potential environmental impact - mandatory indicators according to EN 15804

Results per 1 kg of AX-S Recessed Cover									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO <sub>2</sub> eq.	2.40E+00	5.46E-02	5.73E-06	0.00E+00	3.67E-03	0.00E+00	5.29E-04	0.00E+00
GWP-fossil	kg CO <sub>2</sub> eq.	2.39E+00	5.45E-02	5.73E-06	0.00E+00	3.66E-03	0.00E+00	5.27E-04	0.00E+00
GWP-biogenic**	kg CO <sub>2</sub> eq.	8.79E-03	2.62E-05	2.35E-09	0.00E+00	4.54E-06	0.00E+00	2.09E-06	0.00E+00
GWP-luluc	kg CO <sub>2</sub> eq.	1.73E-03	3.18E-05	1.67E-09	0.00E+00	2.28E-06	0.00E+00	2.35E-07	0.00E+00
ODP	kg CFC 11 eq.	1.58E-07	1.23E-08	1.35E-12	0.00E+00	7.52E-10	0.00E+00	1.63E-10	0.00E+00
AP	mol H <sup>+</sup> eq.	1.29E-02	2.89E-04	2.41E-08	0.00E+00	1.68E-05	0.00E+00	4.50E-06	0.00E+00
EP-freshwater	kg P eq.	1.46E-04	4.66E-07	4.37E-11	0.00E+00	7.71E-08	0.00E+00	8.82E-09	0.00E+00
EP-freshwater	kg PO <sub>4</sub> <sup>3-</sup> eq.	4.48E-04	1.43E-06	1.34E-10	0.00E+00	2.36E-07	0.00E+00	2.70E-08	0.00E+00
EP-marine	kg N eq.	2.47E-03	1.00E-04	7.24E-09	0.00E+00	4.63E-06	0.00E+00	1.52E-06	0.00E+00
EP-terrestrial	mol N eq.	2.88E-02	1.10E-03	8.00E-08	0.00E+00	5.16E-05	0.00E+00	1.68E-05	0.00E+00
POCP	kg NMVOC eq.	1.12E-02	3.24E-04	2.57E-08	0.00E+00	1.61E-05	0.00E+00	4.85E-06	0.00E+00
ADP-minerals & metals*	kg Sb eq.	4.94E-03	8.42E-07	9.77E-11	0.00E+00	5.69E-08	0.00E+00	5.63E-09	0.00E+00
ADP-fossil*	MJ	2.83E+01	8.21E-01	8.91E-05	0.00E+00	5.76E-02	0.00E+00	1.24E-02	0.00E+00
WDP	m <sup>3</sup>	9.44E-01	2.74E-03	2.89E-07	0.00E+00	2.99E-04	0.00E+00	5.36E-04	0.00E+00
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; 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; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption								

\* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator. \*\* Disclaimer: As there is no significant contribution of biogenic carbon in the product, the balance of CO<sub>2</sub> from biogenic origin entering and leaving the system was assumed to be neutral.

**AX-S™ Recessed Covers - Potential environmental impact - additional mandatory and voluntary indicators**

Results per 1 kg of AX-S Recessed Cover									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-GHG <sup>1</sup>	kg CO <sub>2</sub> eq.	2.31E+00	5.41E-02	5.68E-06	0.00E+00	3.63E-03	0.00E+00	5.19E-04	0.00E+00

**AX-S™ Recessed Covers - Use of resources**

Results per 1 kg of AX-S Recessed Cover									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	3.57E+00	1.21E-02	1.12E-06	0.00E+00	2.26E-03	0.00E+00	2.04E-04	0.00E+00
PERM	MJ	2.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	3.59E+00	1.21E-02	1.12E-06	0.00E+00	2.26E-03	0.00E+00	2.04E-04	0.00E+00
PENRE	MJ	2.83E+01	8.21E-01	8.91E-05	0.00E+00	5.76E-02	0.00E+00	1.24E-02	0.00E+00
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	2.83E+01	8.21E-01	8.91E-05	0.00E+00	5.76E-02	0.00E+00	1.24E-02	0.00E+00
SM	kg	3.02E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m <sup>3</sup>	2.71E-02	1.03E-04	1.01E-08	0.00E+00	1.41E-05	0.00E+00	1.30E-05	0.00E+00
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources 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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water								

<sup>1</sup> The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus almost equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

**AX-S™ Recessed Covers - Waste production and output flows**

## Waste production

Results per 1 kg of AX-S Recessed Cover									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
Hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-hazardous waste disposed	kg	5.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-02	0.00E+00
Radioactive waste disposed	kg	8.59E-05	5.59E-06	6.08E-10	0.00E+00	3.83E-07	0.00E+00	7.42E-08	0.00E+00

## Output flows

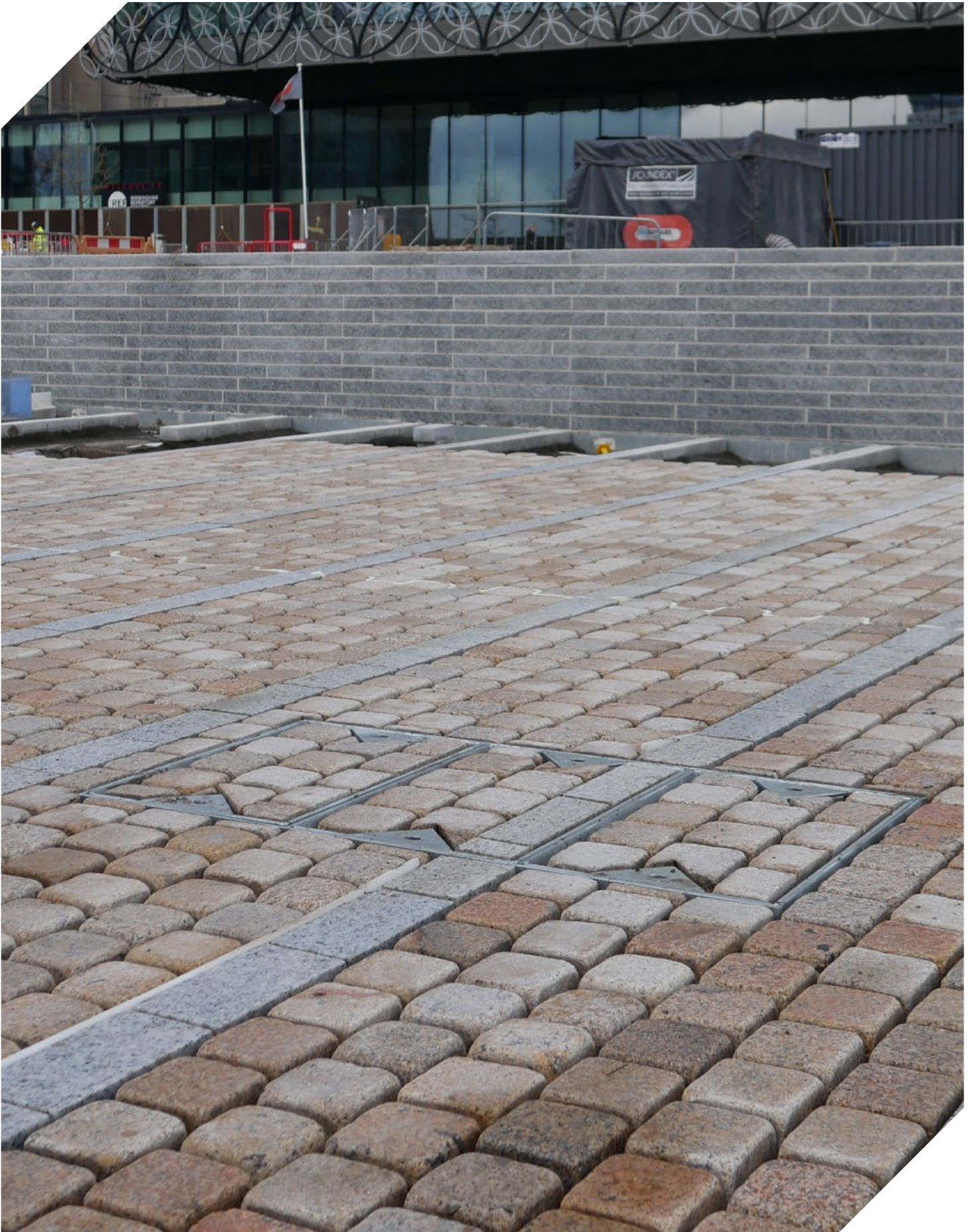
Results per 1 kg of AX-S Recessed Cover									
INDICATOR	UNIT	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-01	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, electricity	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

**AX-S™ Composite Covers - Information on biogenic carbon content**

Results per functional or declared unit		
BIOGENIC CARBON CONTENT	UNIT	QUANTITY
Biogenic carbon content in product	kg C	0
Biogenic carbon content in packaging	kg C	0.00063

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO<sub>2</sub>.

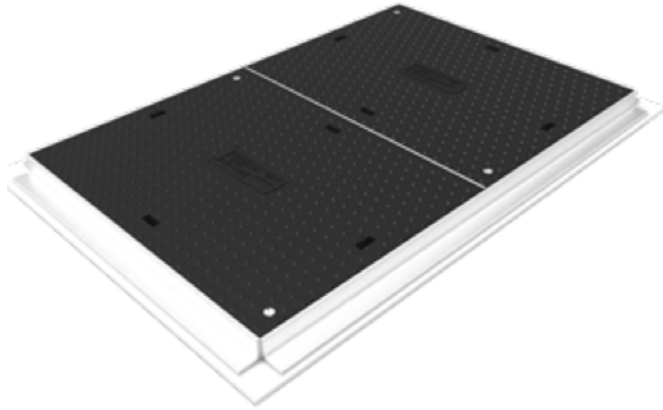




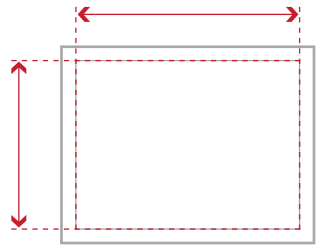
# ADDITIONAL INFORMATION

## PRODUCT SPECIFICATION

### AX-S™ COMPOSITE COVERS\*



\*\* Clear opening size is measured by the inside measurement

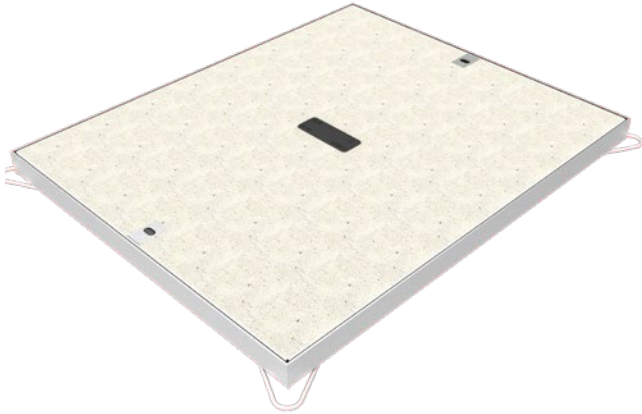


FRAME & COVER, CLEAR OPENING SIZE**		B125 LOAD CLASS			
LENGTH (mm)	WIDTH (mm)	NO. OF COVERS	TOTAL COVER WEIGHT (kg)	FRAME WEIGHT (kg)	TOTAL COVER & FRAME WEIGHT (kg)
300	300	1	4.1	3.7	7.8
450	300	1	6.5	6.1	12.6
450	450	1	11.8	6.6	18.4
600	450	1	16.7	7.1	23.8
600	600	1	21.5	8.4	29.9
800	800	4	47.2	47.2	94.4
900	450	2	23.6	14.2	37.8
900	600	2	33.4	20	53.4
915	610	2	33.4	21	54.4
915	915	4	47.2	38	85.2
1000	1000	4	66.7	47.2	113.9
1200	600	2	43	17.8	60.8
1200	900	4	66.8	46.2	113
1200	1200	4	86	50.2	136.2
1310	850	4	70.8	53	123.8
1500	900	6	80.6	65	145.6
1500	1500	9	135	95.3	230.3
1900	1200	6	129	93.1	222.1
2000	600	4	66.8	76	142.8
2500	1200	8	172	156	328
3500	1500	18	300.2	311	611.2

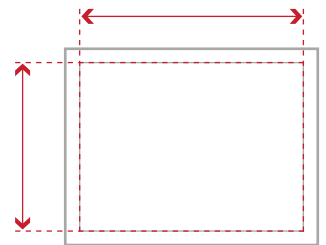
\* The above table provides clear opening dimensions and weights for common sizes of AX-S composite covers with galvanised steel frames. For sizes not listed above (including larger sizes) or design deviations, these details can be obtained from CUBIS. The weight of the cover and frame can be used to calculate the environmental indicators on pages 16 - 24.

## PRODUCT SPECIFICATION

### AX-S™ CONCRETE COVERS\*



\*\* Clear opening size is measured by the inside measurement

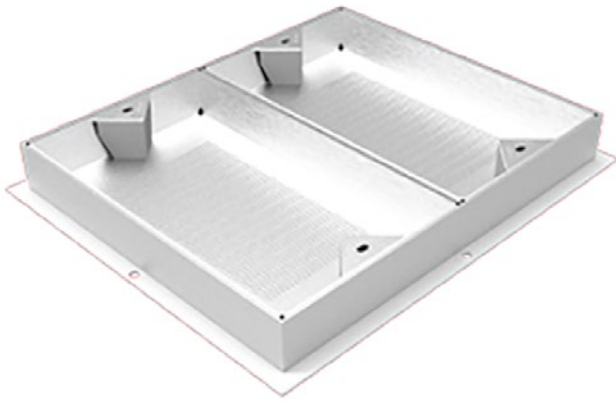


FRAME & COVER, CLEAR OPENING SIZE**		B125 LOAD CLASS			
LENGTH (mm)	WIDTH (mm)	NO. OF COVERS	TOTAL COVER WEIGHT (kg)	FRAME WEIGHT (kg)	TOTAL COVER & FRAME WEIGHT (kg)
915	445	1	70.2	6.8	77
600	450	1	44.5	5.4	49.9
725	255	1	38	5.1	43.1
610	610	1	63	6.2	69.2
1310	610	2	126	9.5	135.5
2319	742	3	256.8	14.7	271.5
1705	710	3	184.2	11.8	196

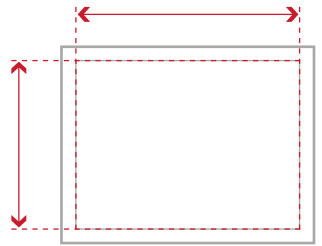
\* The above table provides clear opening dimensions and weights for common sizes of AX-S concrete covers with galvanised steel frames. For sizes not listed above (including larger sizes) or design deviations, these details can be obtained from CUBIS. The weight of the cover and frame can be used to calculate the environmental indicators on pages 16 - 24.

## PRODUCT SPECIFICATION

### AX-S™ RECESSED COVERS\*



\*\* Clear opening size is measured by the inside measurement



FRAME & COVER, CLEAR OPENING SIZE**		B125 LOAD CLASS			
LENGTH (mm)	WIDTH (mm)	NO. OF COVERS	TOTAL COVER WEIGHT (kg)	FRAME WEIGHT (kg)	TOTAL COVER & FRAME WEIGHT (kg)
915	445	3	43.2	24.6	67.8
600	450	1	14.2	20.6	34.8
725	255	1	21.9	20.2	42.1
610	610	2	35.6	22.9	58.5
1310	610	4	71.2	34.7	105.9
2319	742	6	156	51.3	207.3
1705	710	5	99	42.1	141.1

\* The above table provides clear opening dimensions and weights for common sizes of AX-S recessed covers with galvanised steel frames. For sizes not listed above (including larger sizes) or design deviations, these details can be obtained from CUBIS. The weight of the cover and frame can be used to calculate the environmental indicators on pages 16 - 24.

## OTHER ADDITIONAL INFORMATION

Cubis Systems is a member of Composites UK. Within this association, CUBIS participate in the Composites UK Sustainability & Construction Sub-Groups with involvement in research projects to expand the recycling knowledge and capabilities of composites.

For further information and for a copy of the Cubis Sustainability Report please see our website:  
[www.cubis-systems.com](http://www.cubis-systems.com)

## REFERENCES

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# ENVIRONMENTAL PRODUCT DECLARATION

## AX-S™ Composite, Concrete & Recessed Access Covers

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### DRIVEN BY INNOVATION

Cubis Systems is Europe's leading manufacturer of network access chamber and ducting systems, used in the construction of infrastructure networks for rail, telecoms, water, construction and energy markets.

Cubis has developed an innovative approach in a traditional industry. This has been achieved by developing quality products which replace traditional construction materials, like bricks and concrete, with lightweight plastics incorporating intelligent design features. These can then be installed faster and ultimately save our customers both time and money.

Cubis manufactures preformed network access chamber systems STAKKAbox™, AX-S™ access covers, MULTIduct™ multiple duct system and PROtrough cable trough at its manufacturing sites throughout the UK and Ireland these products are exported to more than 30 countries throughout the world.

At Cubis we pride ourselves on delivering technical customer support, new innovation, product quality and the highest levels of customer satisfaction.