

Environmental Product Declaration (EPD)

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021



URSA XPS ECO D N-III-PZ

EPD of multiple products for URSA XPS ECO D N-III-PZ
(thickness between 20-120 mm, based on a representative product of 20 mm)

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General information

EPD Owner: URSA Insulation www.ursa.com

Programme used: International EPD® System. www.environdec.com info@environdec.com

EPD prepared by: Silvia Herranz & Julia Álvarez del Cuadro (URSA Insulation)

Contacts: silvia.herranz@etexgroup.com & julia.alvarez@etexgroup.com

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Programme Information	
Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	support@environdec.com
Product Category Rules (PCR)	
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)	
Product Category Rules (PCR): <i>PCR 2019:14. Construction products (EN 15804+A2) Version 2.0.1.</i>	
<i>PCR 2019:14-c-PCR-005 Thermal Insulation products (EN 16783) (2024-05-03)</i>	
Third-party Verification	
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ Individual EPD verification without a pre-verified LCA/EPD tool Third-party verifier: <i>Itxaso Trabudua, IK Ingeniería S.L.</i> Approved by: International EPD System Observer: Patricia Lopez Cacheiro (FINSA) ☐ Individual EPD verification with a pre-verified LCA/EPD tool ☐ EPD process certification* without a pre-verified LCA/EPD tool ☐ EPD process certification* with a pre-verified LCA/EPD tool ☐ Fully pre-verified EPD tool *EPD process certification involves an accredited certification body certifying and periodically auditing the EPD process and conducting external and independent verification of EPDs that are regularly published. More information can be found in the General Programme Instructions on www.environdec.com.	
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 published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.

For further information about comparability, see EN 15804 and ISO 14025.

Company information

Owner of the EPD: URSA Insulation

Contacts:

Silvia Herranz (Sustainability & Technical Manager) (silvia.herranz@etexgroup.com)

Julia Álvarez del Cuadro (Sustainability & LCA Analyst) (julia.alvarez@etexgroup.com)

Description of the organization: URSA, a commercial brand of Etex, is a company dedicated to the production and commercialisation of thermal and acoustic insulation materials aimed at sustainability and energy efficiency in buildings. It is currently one of the largest manufacturers in Europe of mineral wool and extruded polystyrene (XPS), two totally complementary insulation materials that contribute to the thermal and acoustic insulation of buildings. There are 11 factories throughout Europe and the headquarters are in Spain.

URSA manufactures XPS products for thermal insulation that is used in buildings and industrial installations following European standards:

- EN 13164:2012+A1:2015 Thermal insulation products for buildings - Factory made products of extruded polystyrene foam (XPS) – Specification
- EN 14307:2015 Thermal insulation products for building equipment and industrial installations - Factory made extruded polystyrene foam (XPS) products – Specification
- EN 14934:2007 Thermal insulation and light weight fill products for civil engineering applications - Factory made products of extruded polystyrene foam (XPS) - Specification

Product-related or management system-related certifications: Queis plant is covered by EPD process certification system and certified ISO 9001, ISO 50001 and ISO 14001.

Name and location of production site(s): Queis plant (Uralita Straße 1, 06188 Landsberg OT Queis, Deutschland).

Product information

Product name: URSA XPS ECO D N-III-PZ

Product identification: this EPD describes the environmental impacts of URSA XPS ECO D N-III-PZ.

Product description: waffled extruded foam boards, **manufactured with an average of 70% recycled content**, foamed with CO₂, a cell gas of air. It has the following applications:

- **(WAP)** External wall insulation under plaster (e.g., thermal bridge insulation and plinth insulation).
- **(WAS)** External wall insulation in splash water areas, also partially embedded in soil.
- **(WI)** Internal wall insulation.
- **(DEO-dh)** Internal insulation of ceiling or floor slab (top side) under screed without acoustic requirements – high compressive strength.
- **(DI)** Internal insulation of ceiling (underside) or roof, insulation under rafters/supporting structure, suspended ceilings, etc.

The following table gathers all the main technical information for the representative product:

Table 1 – Technical characteristics of URSA XPS ECO D N-III-PZ

Technical characteristics	Value	Units	Standard
Thickness	20, 30, 40, 50, 60, 80, 100, 120	mm	DIN EN 823
Design thermal conductivity (λ)	0.032 – 0.036	W/(m·K)	DIN 4108-4
Declared thermal conductivity (λ^d)	0.031 – 0.035	W/(m·K)	DIN EN 13164
Compressive strength (10% deformation)	20-40 mm: 200 CS(10/Y)200 50-120 mm: 300 CS(10/Y)300	kPa	DIN EN 826
Dimensional stability (90% RH, 70 °C)	≤ 5 DS(70,90)	%	DIN EN 1604
Dimensional stability (0.04 N/mm ² , 70 °C)	≤ 5 DLT(2)5	%	DIN EN 1605
Long-term water absorption	≤ 3 WL(T)3	%	DIN EN 12087
Reaction to fire	Euroclass E		DIN EN 13501-1
Water vapor diffusion resistance factor (μ)	80–250		DIN EN 12086
Linear thermal expansion coefficient	0.07	mm/(m·K)	DIN EN 53752
Service temperature range	–50 to +70	°C	DIN EN 14706
Tensile strength perpendicular to face	≥ 200 TR 200	kPa	DIN EN 1607
Shear strength	> 200		DIN EN 12090

UN CPC code: 369 - Other plastics products.

Geographical scope: The product is manufactured in Germany and marketed mainly in Europe.

LCA Information

Functional unit: "Perform a thermal insulation function on 1 m² of wall by ensuring the thermal resistance of R = 0.60 K.m². W-1", include thickness 20 mm."

Mass conversion: 0.7 kg/m².

The following table shows the variability of the mandatory indicators for the worst- and best-case scenarios. In this analysis, the representative product is the 20 mm product, which is the smallest thickness. Therefore, the table only displays the difference relative to the product with the highest.

Table 2 – Results variability against worst case

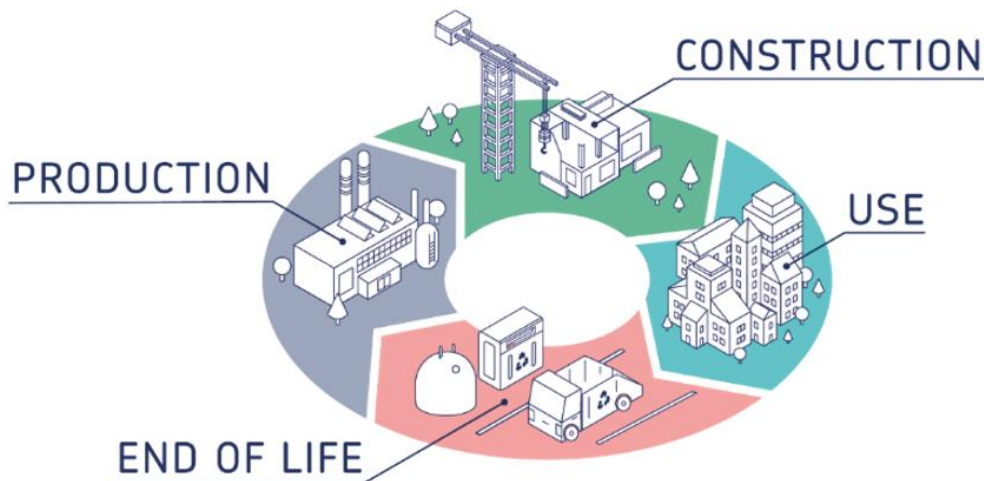
Indicators	URSA XPS ECO D N-III-PZ 120 mm (A-C) (%)
GWP-total	142%
GWP-fossil	142%
GWP-biogenic	192%
GWP-luluc	200%
ODP	200%
AP	191%
EP-freshwater	200%
EP- marine	198%
EP-terrestrial	182%
POCP	174%
ADP-minerals&metals*	200%
ADP-fossil*	196%
WDP*	137%

Reference service life: The durability of URSA XPS ECO D N-III-PZ-I is normally at least as long as the lifetime of the building in which it is used, at least **50 years**. The product retains its technical performance throughout its entire life cycle. The RSL chosen corresponds to the period after which it is assumed that the building will be renovated due to needs independent of the lifespan of the product (which may exceed 50 years). The choice of a 50-year-old SRL is based on the provisions included in the document prepared by CEN TC 88 "Thermal insulation products — Product category rules (PCR) for factory made and in-situ formed products for preparing environmental product declarations — Complementary element » System boundaries, scenarios, and modelling assumptions.

Time representativeness: Plant production data for the complete year 2024-2025.

Database(s) and LCA software used: EcoInvent 3.11 & OneclickLCA v4.0.10.

Description of system boundaries: this LCA report considers the scope 'c) **Cradle to grave and module D (A + B + C + D)**' defined in the PCR 2019:14-c-PCR-005 Thermal Insulation products (EN 16783) (2024-05-03). The analysis covers the full life cycle of the XPS products, from the extraction of raw materials to the final disposal.



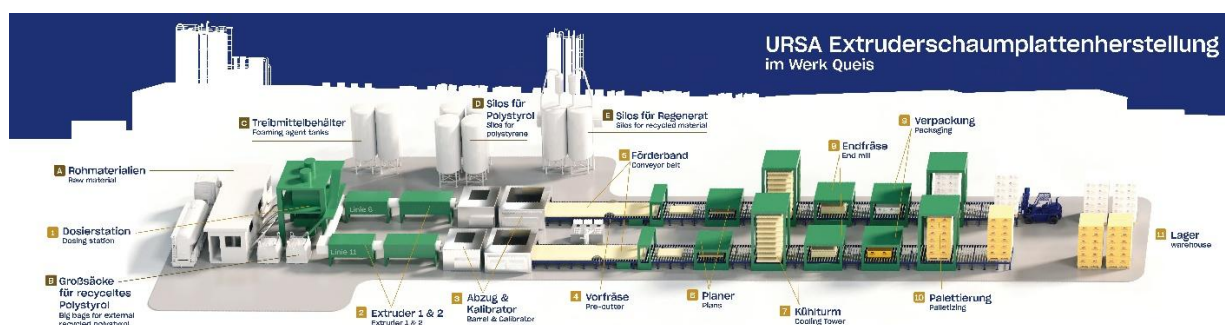
Product stage A1-A3

The production phase of XPS products is divided into three modules: raw materials (A1), raw materials transport (A2) and manufacturing process (A3).

A1 Raw materials supply: this module includes the environmental impacts associated with the raw material consumption data compiled for 2024-2025.

A2 Raw materials supply transport: This stage considers the transportation from the suppliers to Queis's manufacturing plant. The precise data of suppliers and their location is part of the confidential data.

A3 Manufacturing: extruded polystyrene (XPS) manufacture includes stages of mixing, extrusion, and cooling (see diagram of manufacturing process). This stage considers all data related to the consumption (energy, water...) for the manufacturing process, Queis's electricity mix and plant emissions, the products' packaging materials and the plant's waste from production where an average distance of 50 km is considered for the transportation of waste. The pallet used is made with the same material as the product itself.



For the electricity modelling, as Queis had percentage of energy connected to the public grid. The plant purchased 30% in 2024 and 50% in 2025 of wind renewable energy. Based on the contractual technology information ('Windkraft: Onshore-Windkraft' / 'Offshore-Windkraft'), electricity is modelled using processes specific to onshore and offshore wind power in Germany and the dataset of residual mix with medium voltage for the public grid percentage.

The production of 1 kWh of electricity consumed by the average production in Queis in the period of analysis generated 0.495 kg of CO₂ eq. emissions. The energy modelled is detailed in the following table:

QUEIS MIX	% 2024-2025
wind onshore	25.05%
wind offshore	14.95%
hard coal	29.57%
natural gas	8.91%
co-generation	20.55%
oil	0.97%
TOTAL	100.00%

Some of the following stages will be divided in three different scenarios for the product end-of-life. This affects modules A5, C3, C4 and D. The main EoL scenario for XPS products is incineration with energy recovery. The following table shows the three options that will be referenced in some of the next stages:

Table 3 – End-of-life possible scenarios throughout the life cycle of the product

Scenario	Description
S1	Incineration with energy recover
S2	Recycling
S3	Landfill

Construction phase A4-A5

The construction phase is divided into two modules: transport to the construction site (A4) and installation in the building (A5).

A4 Transport

This phase gathers the distances between the manufacturing plant and the final client. It uses the average distance from 2024-2025 obtained from registered clients' deliveries.

Table 4 – Module A4 details

A4 module characteristics	Description
Average distance	420 km
Type of fuel and consumption of the vehicle or type of vehicle used for the transport for example, long distance lorry, boat, etc.	The vehicle runs on diesel, its emission standard is classified as EURO6 and it under the truck size class of 7.5 to 16 metric tons
Use of capacity (including returning empty)	100 % volume capacity
Coefficient of use of volume capacity	>1 (products compressed in the packaging)

A5 Installation: XPS products require manual installation by the operator, without any other resources than the product itself. It is expected to have some leftovers in the installation, approximately 2 % of the product. The polyethylene-based packaging film and the XPS pallet beam is recycled.

Table 5 – Module A5 details

A5 module characteristics	Value
Ancillary inputs for installation (specified by material)	No ancillary inputs
Use of water	No water used
Use of other resources	No other resources
Quantitative description of the type of energy (regional mix) and consumption during the installation process	No energy consumption during installation
Waste produced on the construction site prior to waste treatment generated by installation of the product (specified by type)	2% of XPS
Materials (specified by type) produced by waste treatment on the construction site, for example collection with a view to recycling, recovery of energy, disposal (specified by channel)	Three scenarios are considered for the 2% EoL. Incineration with energy recovery (S1) is the main scenario declared in the EPD, the others (S2 & S3) are secondary and displayed in additional result tables. Packaging is recycled.
Direct emissions to atmosphere, soil and water	No emissions considered

B1-B7 Phase of use

The use phase is considered, but its impact is zero due to the type of functionality of the XPS products. No technical operation is required during the useful phase until the end of service life. Thus, XPS does not have any impact during this phase and permits potential energy savings during its lifetimes.

C1-C4 End of life phase

This phase includes the different modules of the end of service life as follows: C1, deconstruction, demolition; C2, transport to waste treatment; C3, waste treatment with a view to their reuse, recovery and/or recycling; C4, disposal.

Deconstruction, demolition: Deconstruction and /or dismantling of the insulation products is part of the demolition work of an entire building. The deconstruction stages for XPS only requires manual work from the operator without any additional resources.

Transport to waste treatment site: In this stage 130 km are considered for transport between the place of generation of waste and its treatment point for S1 and 80 km for S2 and S3.

Waste treatment with a view to reuse, recovery, and/or recycling: the main scenario (S1) considers that the product will go through energy recovery. For S2, recycling, C3 will also be affected. The only stage where C3 is zero will be for S3 (landfill).

Disposal: The final disposal of XPS is considered 100% for landfill in S3.

D Benefit and charge (refer to standard)

This module considers the hypothetical stage where potential XPS and packaging leftovers and its possibilities to be recycled. For XPS ECO D N-III-PZ, there are three scenarios for this stage explained in the following tables:

Table 6 – Module D considerations for S1 EoL

S1 – INCINERATION WITH ENERGY RECOVERY		
Stage	Material	Treatment
A1	Post consumer external PS	Recycled
A3	Post consumer LDPE	Recycled
A5	Packaging LDPE	Recycling
A5	Packaging XPS pallet beam	Recycling
A5	2% XPS waste	Incineration
C3	XPS	Incineration

Table 7 – Module D considerations for S2 EoL

S2 - RECYCLING		
Stage	Material	Treatment
A1	Post consumer external PS	Recycled
A3	Post consumer LDPE	Recycled
A5	Packaging LDPE	Recycling
A5	Packaging XPS pallet beam	Recycling
A5	2% XPS waste	Recycling
C3	XPS	Recycling

Table 8 – Module D considerations for S3 EoL

S3 - LANDFILL		
Stage	Material	Treatment
A1	Post consumer external PS	Recycled
A3	Post consumer LDPE	Recycled
A5	Packaging LDPE	Recycling
A5	Packaging XPS pallet beam	Recycling

Allocation procedures

The allocation procedure used for the LCI is physical, based on the mass (kg of production). Regarding the recycled material URSA XPS products uses a percentage of recycled polystyrene (PS). The PCR 2019:14 v2 section 4.5.3 “Allocation of materials for recycling” has been applied for pre- and post-consumer polystyrene.

The allocation applied is based on mass with real data. Queis has different providers for XPS and each of them probes the percentage of pre- and post-consumer material in supplier declarations that can be shown to the verifier during the audit. The distribution per provider in the inventory period results in an average of 98% post and 2% pre.

Hypotheses and considerations:

The LCA study has been developed using the Ecoinvent v3.11 database and the software OneclickLCA v4.0.10. The main hypothesis of the study are listed below:

- The production data used on the LCI analysis corresponds to 2024-2025 period, from September to October.
- The main end-of-life of the product, both for A5 waste and the EoL after its use, is incineration with energy recovery. The EPD also shows two additional final scenarios, one for recycling and another for landfill.

- Water consumption in XPS is very low, only used for refrigeration. Queis does not have a separate measure for water and compiles all the plant's water consumption that includes offices. An assumption has been made considering other URSA XPS' plants water consumption that do measure the water consumption at the production line.
- Packaging materials, both plastic for the panels and XPS for the pallet are considered recycled in all three scenarios.
- All waste transportations consider 50 km between the place of generation of waste and its treatment point. (Model for Life Cycle Assessment (LCA) of buildings, JRC Technical Reports 2018).
- The quality outgoing and ingoing material used in Module D calculation is defined on the Annex C of the PEF (Product Environmental Footprint).

Cut-off rules:

In the case that there is not enough information, the energy process and materials According to PCR 2019:14 Construction Products v2.0.1 and EN 15804:2012+A2:2019/AC:2021, at least 95% of all mass and energy inputs and outputs of the central system have been included in the analysis.

The infrastructure and capital goods have been excluded from the LCA. Besides, the following flows are excluded from the system boundaries, given their relatively low contribution to the impacts of the production system:

- Lighting, heating and cleaning of workshops,
- the administrative department,
- transportation of employees,
- the manufacture of the production tool and transport systems (machines, trucks, etc.),
- the maintenance of the factory infrastructure has not been considered,
- diffuse emissions of particulate matter during transport and storage of raw materials, & long-term emissions.

Data quality requirements

The data collection has considered 1 year between 2024 & 2025, following “Data quality level and criteria of the UN Environment Global Guidance on LCA database development” annex E, EN 15804+A2. It is quantified that all the data gathered for the LCA has a medium level of quality (3.8 out of 5), having a range of ‘very poor’ (1), poor (2), medium (3), good (4) and very good (5).

The share of primary data is calculated based on GWP-GHG results. It is a simplified indicator for data quality that supports the use of more primary data, to increase the representativeness of and comparability between EPDs. Note that the indicator does not capture all relevant aspects of data quality and is not comparable across product categories. The Ecoinvent 3.11 database has been used to choose the most representative processes for generic data. Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation:

Table 9 – Declared modules and data details

[illegible]

Content information

The content of the information gathered on the following table refers to the representative product URSA XPS ECO D N-III-PZ 20 mm thickness (0.7 kg/m² of weight).

Product components	Mass (kg)	Weight (%)	Pre-consumer material, weight-%	Post-consumer material, weight-%	Biogenic material, weight-% and kg C/kg
PS	0.60-0.63	85-90	0.9	44.1	0
Blowing agent	0.03-0.04	4-6	0	0	0
Flame retardant	0.01-0.04	2-5	0	0	0
Additives	0.03-0.03	4	0	0	0
Total	0.7	100	0.77	37.5	0

Packaging components	Weight, kg/m ²	Weight-% (versus the product)	Weight biogenic carbon, kg C/kg
Plastic Packaging	0.0194	2.77%	0
XPS pallet beam	0.0107	1.53%	0
TOTAL	0.0301	4.29%	0

Results of the environmental performance indicators

The following tables gather the environmental impacts for URSA XPS ECO D N-III-PZ 20 mm. The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks.

Environmental impact results for URSA XPS ECO D N-III-PZ for **incineration with energy recovery S1**

Potential environmental impact – mandatory indicators according to EN 15804

The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3)

Results per functional or declared unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-fossil	kg CO ₂ eq.	1.84E+00	5.49E-02	9.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	1.03E+00	0.00E+00	-1.81E+00
GWP-biogenic	kg CO ₂ eq.	7.41E-03	3.56E-05	7.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-06	2.26E-04	0.00E+00	-1.23E-02
GWP-luluc	kg CO ₂ eq.	3.10E-04	1.85E-05	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-06	0.00E+00	0.00E+00	1.83E-04
GWP-total	kg CO ₂ eq.	1.85E+00	5.49E-02	9.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	1.03E+00	0.00E+00	-1.82E+00
ODP	kg CFC 11 eq.	1.97E-08	1.20E-09	5.71E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-10	-1.17E-09	0.00E+00	-7.67E-09
AP	mol H ⁺ eq.	7.32E-03	1.18E-04	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	-1.73E-05	0.00E+00	-5.15E-03
EP-freshwater	kg P eq.	2.63E-04	3.81E-06	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-07	-2.32E-01	0.00E+00	1.50E-05
EP- marine	kg N eq.	1.48E-03	2.84E-05	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06	3.06E-04	0.00E+00	-8.13E-04
EP-terrestrial	mol N eq.	1.52E-02	3.06E-04	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05	3.32E-03	0.00E+00	-8.70E-03
POCP	kg NMVOC eq.	2.20E-02	1.87E-04	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	5.17E-04	0.00E+00	-4.43E-03
ADP-minerals&metals*	kg Sb eq.	4.04E-06	1.93E-07	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-08	-4.71E-08	0.00E+00	1.62E-07
ADP-fossil*	MJ	3.43E+01	7.80E-01	8.70E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-01	-1.65E+01	0.00E+00	-3.93E+01
WDP*	m ³	1.69E+00	4.14E-03	3.88E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-04	0.00E+00	0.00E+00	-8.82E-01
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.

Waste production and output flows

Waste production

Results per functional or declared unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	5.93E-02	1.13E-03	2.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	-1.06E-02
Non-hazardous waste disposed	kg	2.24E+00	2.43E-02	9.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-03	0.00E+00	0.00E+00	-3.72E-01
Radioactive waste disposed	kg	9.27E-06	2.32E-07	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-08	0.00E+00	0.00E+00	1.84E-06

Output flows

[illegible]

The following tables show the environmental impacts for the other end-of-life scenarios: **S2 – recycling** and **S3 – landfill**.

Potential environmental impact – mandatory indicators according to EN 15804 for S2

The use of the results of modules A1-A3 (A1-A5 for services) without considering the results of module C.

Results per functional or declared unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-fossil	kg CO ₂ eq.	1.84E+00	5.49E-02	5.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02	3.59E-01	0.00E+00	-3.36E+00
GWP-biogenic	kg CO ₂ eq.	7.41E-03	3.56E-05	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06	2.17E-02	0.00E+00	-2.07E-02
GWP-luluc	kg CO ₂ eq.	3.10E-04	1.85E-05	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06	5.10E-04	0.00E+00	6.54E-04
GWP-total	kg CO ₂ eq.	1.85E+00	5.49E-02	5.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	3.81E-01	0.00E+00	-3.38E+00
ODP	kg CFC 11 eq.	1.97E-08	1.20E-09	6.47E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-10	4.02E-09	0.00E+00	9.56E-09
AP	mol H ⁺ eq.	7.32E-03	1.18E-04	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	1.21E-03	0.00E+00	-1.29E-02
EP-freshwater	kg P eq.	2.63E-04	3.81E-06	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-07	1.75E-04	0.00E+00	8.19E-05
EP- marine	kg N eq.	1.48E-03	2.84E-05	4.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-06	3.05E-04	0.00E+00	-1.83E-03
EP-terrestrial	mol N eq.	1.52E-02	3.06E-04	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	2.34E-03	0.00E+00	-1.96E-02
POCP	kg NMVOC eq.	2.20E-02	1.87E-04	4.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	7.55E-04	0.00E+00	-8.59E-03
ADP-minerals&metals*	kg Sb eq.	4.04E-06	1.93E-07	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-08	2.54E-06	0.00E+00	1.21E-06
ADP-fossil*	MJ	3.43E+01	7.80E-01	9.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-01	4.49E+00	0.00E+00	-8.18E+01
WDP*	m ³	1.69E+00	4.14E-03	4.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	1.22E-01	0.00E+00	-2.41E+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.

Potential environmental impact – mandatory indicators according to EN 15804 for S3

The use of the results of modules A1-A3 (A1-A5 for services) without considering the results of module C.

Results per functional or declared unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-fossil	kg CO ₂ eq.	1.84E+00	5.49E-02	5.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02	0.00E+00	6.32E-02	-1.22E+00
GWP-biogenic	kg CO ₂ eq.	7.41E-03	3.56E-05	7.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06	0.00E+00	3.09E-05	-7.51E-03
GWP-luluc	kg CO ₂ eq.	3.10E-04	1.85E-05	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06	0.00E+00	4.61E-06	2.27E-04
GWP-total	kg CO ₂ eq.	1.85E+00	5.49E-02	5.30E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	6.33E-02	-1.23E+00
ODP	kg CFC 11 eq.	1.97E-08	1.20E-09	5.69E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-10	0.00E+00	1.89E-10	2.49E-09
AP	mol H ⁺ eq.	7.32E-03	1.18E-04	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	5.44E-05	-4.68E-03
EP-freshwater	kg P eq.	2.63E-04	3.81E-06	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-07	0.00E+00	7.94E-07	2.68E-05
EP- marine	kg N eq.	1.48E-03	2.84E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-06	0.00E+00	1.41E-03	-6.65E-04
EP-terrestrial	mol N eq.	1.52E-02	3.06E-04	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	2.22E-04	-7.13E-03
POCP	kg NMVOC eq.	2.20E-02	1.87E-04	4.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	9.13E-05	-3.20E-03
ADP-minerals&metals*	kg Sb eq.	4.04E-06	1.93E-07	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-08	0.00E+00	1.43E-08	3.56E-07
ADP-fossil*	MJ	3.43E+01	7.80E-01	8.69E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-01	0.00E+00	1.67E-01	-3.00E+01
WDP*	m ³	1.69E+00	4.14E-03	3.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	7.34E-03	-8.71E-01
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.

Potential environmental impact – additional mandatory and voluntary indicators for S2

Results per functional or declared unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG[1]	kg CO ₂ eq.	1.84E+00	5.49E-02	5.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	3.81E-01	0.00E+00	-3.38E+00
Acronyms	GWP-GHC = Potential Global Warming - Greenhouse gases;															

[1] This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO₂ is set to zero.

Potential environmental impact – additional mandatory and voluntary indicators for S3

Results per functional or declared unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG[1]	kg CO ₂ eq.	1.84E+00	5.49E-02	5.30E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	6.33E-02	-1.23E+00
Acronyms	GWP-GHC = Potential Global Warming - Greenhouse gases;															

[1] This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO₂ is set to zero.

Results per functional or declared unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	1.28E+00	1.29E-02	8.51E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03	1.06E+00	0.00E+00	1.14E-01
PERM	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	1.28E+00	1.29E-02	8.51E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03	1.06E+00	0.00E+00	1.14E-01
PENRE	MJ	5.71E+00	7.80E-01	-1.13E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-01	-2.48E+01	0.00E+00	-7.77E+01
PENRM	MJ	2.86E+01	0.00E+00	1.52E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E+01	0.00E+00	-4.11E+00
PENRT	MJ	3.43E+01	7.80E-01	3.84E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-01	4.49E+00	0.00E+00	-8.18E+01
SM	kg	1.11E-02	3.53E-04	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05	9.52E-04	0.00E+00	1.01E+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	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m³	1.70E-02	9.54E-05	4.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	2.73E-03	0.00E+00	-5.54E-02
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															

Results per functional or declared unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	1.28E+00	1.29E-02	6.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03	0.00E+00	2.31E-03	3.14E-02
PERM	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	1.28E+00	1.29E-02	6.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03	0.00E+00	2.31E-03	3.14E-02
PENRE	MJ	3.43E+01	7.80E-01	2.96E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-01	0.00E+00	1.67E-01	-3.00E+01
PENRM	MJ	2.92E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	3.43E+01	7.80E-01	2.96E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-01	0.00E+00	1.67E-01	-3.00E+01
SM	kg	1.11E-02	3.53E-04	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05	0.00E+00	5.74E-05	3.74E-01
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	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m³	1.70E-02	9.54E-05	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	-2.54E-03	-2.01E-02
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															

Waste production and output flows

Waste production for S2

Results per functional or declared unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	5.93E-02	1.13E-03	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	1.91E-02	0.00E+00	-1.54E-02
Non-hazardous waste disposed	kg	2.24E+00	2.43E-02	9.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-03	9.66E-01	0.00E+00	2.09E-02
Radioactive waste disposed	kg	9.27E-06	2.32E-07	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-08	2.81E-05	0.00E+00	7.30E-06

Waste production for S3

Results per functional or declared unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	5.93E-02	1.13E-03	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	2.79E-04	-5.98E-03
Non-hazardous waste disposed	kg	2.24E+00	2.43E-02	1.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-03	0.00E+00	1.81E+00	-3.00E-01
Radioactive waste disposed	kg	9.27E-06	2.32E-07	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-08	0.00E+00	3.46E-08	2.32E-06

Additional Information

Conversion factors:

This EPD covers the representative product URSA XPS ECO D N-III-PZ 20 mm. The product has different thickness between 20 and 120 mm. A conversion factor can be applied to obtain the environmental behaviour of every thickness.

To determine the environmental performance for each specific thickness, the results presented in this EPD “*Results of the environmental performance indicators*” section, must be multiplied by the corresponding conversion factor. This factor is calculated based on the GWP-GHG indicator for stages A1-A3, as stated in the PCR 2019:14.

Thickness (mm)	Declared lambda (λ^d)	Conversion factor for all GWP-GHG (A1-A3)
20	0.031	1.00
30	0.033	1.30
40	0.033	1.73
50	0.033	2.17
60	0.033	2.60
80	0.035	3.92
100	0.036	4.33
120	0.036	5.87

REACH:

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

The XPS products (rolls and boards) manufactured by URSA are defined as “articles” according to the article 3 (3) of EC Regulation 1907/2006 (REACH). Articles, whose functionality is more determinate by the shape, surface or design given in their production process, than by its chemical composition.

There, according to Art. 2 of EC Regulation 1907/2006 (REACH) our articles are excluded from the EC Regulation 1907/2006 (REACH).

Our products do not contain Substances of Very High Concern (SVHC) in a higher concentration than 0.01 % by weight according to the last update of the candidate list known at the date this document was issued.

ECHA-European Chemicals Agency regularly published an update SHVC list. The validity of this statement is therefore of ECHA new publications.

Circularity:

Recycled PS Content:

According to ISO 14021:

- 1) Recycled Content is a Proportion, by mass, of recycled material in a product. *Only pre-consumer and post-consumer materials shall be considered as recycled content, consistent with the following use of terms,*

Pre-consumer material: Material diverted from waste stream during a manufacturing process. Excluded is reutilization of materials such as rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it.

Post-consumer material: Material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product which can no longer be used for its intended purpose. This includes returns of materials from the distribution chain.

- 2) Recovered material: Material that would have otherwise been disposed of a waste or used for energy recovery but has instead been collected and recovered as a material input, in lieu of new primary material, for a recycling or a manufacturing process.

For the Queis plant, in the period from September to October 2024-2025, the values are:

Average of 70% Recycled PS Content, a mix of pre-consumer and post-consumer recycled material.

URSA XPS ECO D N-III-PZ				
Recovered material (%)	Recycled content of PS (%) (According to ISO 14021)			Total recycled (%)
	Pre- consumer	Post-consumer	Total	
29	0.9	44.1	45	74

Recycled Content in packaging:

The polyethylene-based packaging film is recyclable and recycled in those countries having a return system. Besides, the primary packaging has a 50% of recycled material post-consumer.

European Waste Codes

Waste XPS in modules A5 and C will be classified according to the European Waste Codes:

17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03

References

- ISO 14040:2006 Environmental Management Life Cycle Assessment — Principles and framework.
- ISO 14044:2006 Environmental Management Life Cycle Assessment — Requirements and guidelines.
- EN ISO 14020:2002 -Environmental labels and declarations - General principles. (ISO 14020:2000).
- -EN ISO 14025:2006 - Environmental labels and declarations — Type III environmental declarations — Principles and procedures.
- EN 15804:2012+A2:2019 Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products.
- EN 16783:2024 Thermal insulation products. Environmental Product.
- PCR 2.01, EN 15804:2012+A2:2019/AC:2021, Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products.
- c-PCR-005 Thermal Insulation products version 1.0.0 (EN 16783) (2024-05-03).
- General Programme Instructions of International EPD® System (GPI 5.01).

VERSION HISTORY

Version 1, 2026-07-24

- Original Version of the EPD

Version 2, 2026-07-29

- Changes in this update are editorial: product picture, diagram flow picture and table of conversion factors in Additional Information section where the lambda column has been updated to declared lambda.

