

# Environmental Product Declaration



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

# Plastic spacers and related products from virgin material

(EPD of multiple products, based on the worst case results of the product group) from

#### Exte GmbH



Programme: The International EPD System, <u>www.environdec.com</u>

Programme operator: EPD International AB

Type of EPD: EPD of multiple products from a company

EPD registration number: EPD-IES-0025244:001

Version date: 2025-10-27 Validity date: 2025-10-26

An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and

to confirm its validity, see www.environdec.com







#### **GENERAL INFORMATION**

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 PCR
PCR: PCR 2019:14: CONSTRUCTION PRODUCTS, version 2.0.1
PCR review was conducted by: The Technical Committee of the International EPD System. See www.environdec.com for a list of members. Review chair Rob Rouwette and review co-chair Noa Meron. The review panemay be contacted via the Secretariat on www.environdec.com/contact.
c-PCR: Not applicable

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: Luciano Sambataro, Cacta Sustainability Solutions LLC Approved by: The International EPD <sup>®</sup> System									
Procedure for follow-up of data during EPD validity involves third party verifier:									
☐ Yes									

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.





#### INFORMATION ABOUT EPD OWNER

Owner of the EPD: Exte GmbH

Address: Industriestraße 3, 06429 Nienburg (Saale), Germany

Contact: Dr. Anja Hamblyn, a.hamblyn@exte.de

Address and contact information of the LCA practitioner commissioned by the EPD owner: Sphera Solutions GmbH, 70771 Leinfelden-Echterdingen, Germany, www.sphera.com

#### Description of the organisation:

#### **EXTE Group**

The EXTE Group is a global supplier of specialised products for the concrete, roller shutter box and window construction industries. Our independent, medium-sized family business combines tradition with innovation. Since our foundation in 1959, we evolved constantly and became a key player in the construction industry.

To live up to our guiding principles, we have been using an energy management system at our sites for over a decade, which is certified according to ISO 50 001.

#### **EXTE GmbH in Nienburg (Saale), Germany**

At our site in Nienburg (Saale), Germany, the EXTE GmbH employs 200 people in development, manufacture, warehousing, sales, and distribution. On a production area of around 22,000 m² formwork accessories and spacers for concrete construction are made from steel and plastics – a complete product range tailored to the needs of our customers.

Product-related or management system-related certifications: ISO 50 001





#### PRODUCT INFORMATION

#### Product name:

Plastic spacers and related products of different forms for reinforced concrete construction

#### Product identification:

Plastic spacers for maintaining defined concrete cover and supporting reinforcement in reinforced concrete construction, and related concrete accessories made from virgin material

#### Product description:

A plastic spacer is a component which is placed to maintain a defined concrete covering between the outer steel reinforcement and formwork or blinding in reinforced concrete construction. Certain spacers additionally provide support for the reinforcement. Spacers differ in shape, size, material and application. This EPD includes the following spacer types:

- **Continuous spacers** normally characterised by elongated linear shape; used to support horizontal layers of reinforcement mesh.
- Wheel spacers normally characterised by a circular section, perpendicular to the bar to which
  it is attached; used for maintaining distance between vertical layers of reinforcement mesh and
  formwork.
- **Clip-on spacers** normally characterised by an integrated clip to clamp around the rebar; used with horizontal and vertical layers of reinforcement mesh
- **Rebar chair spacers** normally characterised by cylindrical or rectangular shape with enlarged footing; used to support horizontal layers of reinforcement mesh or individual rebars.

Related products encompass concrete accessories, such as chamfers, profiles, shim pads, caps and plugs for tube spacers as well as protection caps for protruding rebars. They are used during or after concrete construction to facilitate the forming, pouring, finishing and positioning of concrete structures.

To produce spacers and related products from plastic for reinforced concrete construction the methods of injection moulding or extrusion are used.

#### Process steps for injection moulding:

- 1. Plasticisation
  - Plastic flakes or pellets fall from a hopper onto a rotating screw conveyer which feds the material through a heated barrel meanwhile melting it.
- 2. Injection and Cooling
  - The melt is forced through a nozzle, sprue and runners into cooled mould cavities where it solidifies.
- 3. Ejection and Recycling
  - After a defined cooling time, the mould opens and the solid articles are released. Material contained in the sprue and runners is separated and, together with non-conforming articles, shredded by an auxiliary grinder and returned to the production process.
- 4. Quality Control and Packaging
  - Visual inspections, dimensional checks, and mechanical testing are performed to ensure quality standards are met. The articles are packaged in bundles held by plastic strapping, bags or boxes, before being placed onto pallets and prepared for distribution.





#### Process steps for extrusion:

Steps 1 and 4 are identical to the injection moulding process.

- 2. Extrusion, Sizing, Cooling, Punching and Cutting The melt is forced through a die followed by a sizing unit in which shaping and dimensional calibration of the continuous strand takes place. The shape is stabilised by cooling. Depending on the product type, a punching unit might be applied to remove sections of the profile, before it is finally cut to length.
- Recycling
   Punched-out sections and non-conforming articles are shredded by an auxiliary grinder and returned to the production process.

#### Visual representation (e.g., an image) of the product:

A visual representation of the products is provided in the "List of products" section.

UN CPC code: 3695 Builders' ware of plastics

Name and location of production site(s): Industriestraße 3, 06429 Nienburg (Saale), Germany





#### **CONTENT DECLARATION**

Content declaration is done for plastic spacers made of virgin material

Product content	Mass, kg	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg Carbon / product or declared unit
ABS granulate	1	0%	0%	0
TOTAL	1	0%	0%	0

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg Carbon / product or declared unit
Pallets	9.242E-02	8.1940%	0.0310
Wire	5.449E-05	0.0048%	
Timber	1.885E-02	1.6710%	0.0074
LDPE film/sheet/bags	1.630E-02	1.4500%	
PP strapping	1.230E-04	0.0100%	
Sticky label	1.010E-05	0.0010%	
Label	4.250E-06	0.0004%	
TOTAL	1.278E-01	11.3260%	0.0380

<sup>1</sup> kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO<sub>2</sub>. No substance contained within the product requires declaration according to the Candidate List of SVHC for Authorisation subject to Article 59(10) of the Regulation (EC) No. 1907/2006 ("REACH").





#### LCA INFORMATION

Declared unit: 1 kg of plastic spacers with virgin material

Reference service life: Not applicable

Time representativeness: 2024

Geographical scope: A1-A2: EU, A3: Germany; A4-A5 and C1-D: EU

<u>Database(s)</u> and <u>LCA</u> software <u>used:</u> The background data has been taken from the Sphera MLC database CUP 2025.1. The LCA model was created using Sphera's LCA for Experts (LCA FE) software, version 10.9.

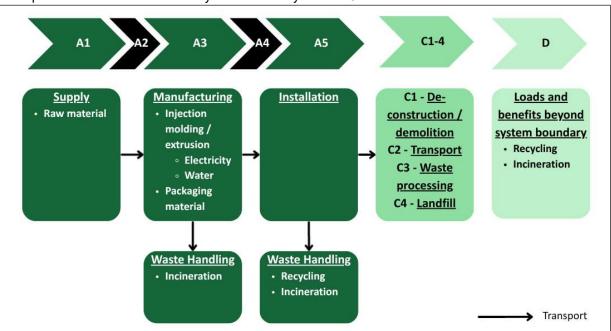
EPD/LCA Tool used: Not applicable

#### **Description of system boundaries:**

Cradle to gate with options, modules C1–C4, module D and with optional modules (A1–A3 + C + D and additional modules A4 and A5).

#### Process flow diagram:

Process flow diagram of the product system, divided into the life-cycle stages and modules showing the main processes included and the system boundary of the LCA.



#### More information:

More information on the product can be found under <a href="https://www.exte.de/schalungszubehoer/">https://www.exte.de/schalungszubehoer/</a>

#### <u>Information on electricity used in the manufacturing process:</u>

Exte produces solar photovoltaic power on-site, which in the year 2024 substituted 3.37% of the total manufacturing electricity demand. In accordance with the PCR, the German residual grid mix is used for the LCA-calculations to account for the rest of the 96.63%. The emission factor (with regards to the GWP-GHG indicator) accounts for: 0.85 kg CO<sub>2</sub> eq./kWh.





#### Information about declared modules and scenarios:

#### General:

This EPD covers a whole range of different products, and a worst-case representative of these products is declared. The declared average product composition represents the specific composition of all spacers produced at the production site over one year.

#### Module A1 to A3:

The product stage includes provision of all raw materials, transportation of raw materials to manufacturing site and the production process, as well as waste processing up to the end-of-waste state or disposal of final residues during the product stage.

The raw material for the plastic spacers is virgin plastic granulate (Module A1). The worst-case composition purchased by Exte is declared in this EPD, i.e. primary ABS granulate. This is delivered to the production site by EURO mix truck (Module A2). Further processing of the granulate is done by injection moulding and extrusion (Module A3). The impact of packaging material and its transportation is included.

#### Module A4:

This module considers 100 km truck transport to site (diesel driven, EURO mix, 40 tons total load, 64% utilization). The transport distance can be modified project-specific if required by linear scaling.

#### Module A5:

Manual installation is considered in this module. Treatment and disposal of packaging material are included in this module as well, i.e. recycling of steel packaging and incineration of plastic and wood packaging.

#### Module C1 to C4:

- De-construction/demolition (C1): Demolition of the spacers is done along with the concrete elements they are installed in; for spacers only, the environmental loads are assumed as unsignificant and declared as 0.
- Transport (C2): 50 km EURO mix truck (EU Scenario).
- Waste processing (C3): Not relevant, as the spacers are landfilled.
- Disposal (C4): Spacers are disposed of in landfill.

#### Module D:

- Benefits and loads from module A5

#### Excluded data and flows from the LCA calculation:

Infrastructure and capital goods are not considered within this EPD.

#### Allocation principles for secondary material:

Secondary plastics (in packaging) are assumed to reach the end-of-waste status before the recycling process; the recycling process is included in A1-A3.





#### Representativeness

<u>Technological:</u> All primary and secondary data are modelled to be specific to the technologies or technology mixes under study. Where technology-specific data are unavailable, proxy data are used. The overall technological representativeness is considered to be very good.

<u>Geographical</u>: All primary and secondary data are collected specific to the countries / regions under study. Where country / region specific data are unavailable, proxy data are used. The overall geographical representativeness is considered to be very good.

<u>Temporal</u>: All primary data are collected for the year 2024. All secondary data come from the Managed LCA Content (MLC) 2025.1 database and are representative of the years 2021 - 2024. As the study intended to compare the product systems for the reference year 2024, temporal representativeness is good.

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.

Process	Source type	Source	Reference	Data category	Share of primary data, of GWP-GHG results for A1-A3
Manufacturing of product	Collected data	MLC 2025.1	< 5 years	Secondary data	0%
Raw material supply	Databases	MLC 2025.1	< 5 years	Secondary data	0%
Generation of electricity used in manufacturing of product	Databases and collected data	MLC 2025.1	< 5 years	Primary data	17%
Transport of raw materials	Databases and collected data	MLC 2025.1	< 5 years	Primary data	1%
Other processes	Databases	MLC 2025.1	< 5 years	Secondary data	0%
Total share of primary data, of	18%				





#### **Content Information**

#### Module A4: Transport to the building site

This module considers 100 km truck transport to site (diesel driven, EURO mix, 40 tons total load, 64% utilization). The transport distance can be modified project-specific if required by linear scaling.

The following table displays technical information used in module A4 (transportation by truck to the building site)

Parameter	Unit	Amount
Diesel consumption	I/100 km (per kg of transported good)	0.0029
Distance	km	100
Capacity utilization (including empty returns)	%	64
Gross weight of transported product	kg	1
Volume capacity utilization factor	-	1

#### Module A5: Installation in the building

The following table displays technical information regarding the installation in the building (treatment of packaging waste).

Parameter	Unit	Amount
Wooden pallets sent to incineration	kg/ declared unit	9.240E-02
Timber sent to incineration	kg/ declared unit	1.880E-02
Steel packaging waste sent to recycling	kg/ declared unit	5.450E-05
Plastic packaging waste sent to incineration	kg/ declared unit	1.644E-02

Note: Installation offcuts or installation efforts and related auxiliary materials are not considered in this study and therefore not listed.

#### Module C: End-of-life

The following table displays the waste flows at the products' end of life (for the worst-case product). The transportation distance for C2 is considered to be 50 km.

The amounts listed represent gross quantities.

Parameter	Unit	Amount
Waste collected as mixed construction waste	kg	1
EoL Scenario (Landfill) Waste materials for final deposition	kg	1





## Modules declared, geographical scope, share of primary data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Pro	Product stage Distribution/ installation Use stage stage					Use stage					En	ıd-of-li	ife sta	ge	Beyond product ife cycle	
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling- potential
Module	A1	A2	А3	A4	<b>A</b> 5	В1	B2	В3	B4	B5	В6	В7	C1	C2	С3	C4	D
Modules declared	Х	х	Х	Х	Х	MND	MND	MND	QNW	QNW	MND	MND	х	х	x	х	Х
Geography	EU	EU	DE	EU	EU								EU	EU	EU	EU	EU
Share of primary data		18%		-		-	-	-	-	-	-	-	-	-	-	-	-
Variation – products		-44%		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites		0%		-	-	-	-	-	-	-	-	-	-	-	-	-	-





#### **ENVIRONMENTAL PERFORMANCE**

#### LCA results of the product(s) - main environmental performance results

The calculation of the resource use indicators follows option B from Annex 3 in PCR 2019:14 -Construction Products v.3.4 for packaging. Thus, there is an input in A3 for PERM and PENRM values and output in A5. Calorific value of secondary materials is declared. Biogenic carbon leaving the product system in module A5 has been balanced out in modules A1-A3.

#### Mandatory impact category indicators according to EN 15804

Results per 1 kg of plastic spacers with virgin material												
Indicator	Unit	A1-A3	<b>A</b> 4	A5	C1	C2	С3	C4	D			
GWP- total	kg CO <sub>2</sub> eq.	3.16 E+00	8.85 E-03	2.23 E-01	0	3.92 E-03	0	3.03 E-02	-7.52 E-02			
GWP-fossil	kg CO <sub>2</sub> eq.	3.36 E+00	8.74 E-03	5.45 E-02	0	3.88 E-03	0	3.02 E-02	-7.47 E-02			
GWP-biogenic	kg CO <sub>2</sub> eq.	-1.69 E-01	1.64 E-05	1.69 E-01	0	7.25 E-06	0	-8.47 E-06	-3.84 E-04			
GWP- luluc	kg CO <sub>2</sub> eq.	1.41 E-03	9.19 E-05	4.53 E-06	0	4.07 E-05	0	8.27 E-05	-1.02 E-04			
ODP	kg CFC 11 eq.	6.96 E-12	1.48 E-15	2.28 E-14	0	6.57 E-16	0	1.03 E-13	-6.99 E-13			
AP	mol H⁺ eq.	6.35 E-03	1.30 E-05	3.40 E-05	0	5.77 E-06	0	1.80 E-04	-8.81 E-05			
EP-freshwater	kg P eq.	8.73 E-06	2.41 E-08	3.53 E-09	0	1.07 E-08	0	1.68 E-05	-6.80 E-08			
EP- marine	kg N eq.	2.29 E-03	5.17 E-06	9.53 E-06	0	2.29 E-06	0	3.90 E-05	-2.55 E-05			
EP-terrestrial	mol N eq.	2.40 E-02	5.36 E-05	1.45 E-04	0	2.38 E-05	0	4.25 E-04	-2.85 E-04			
POCP	kg NMVOC eq.	7.18 E-03	1.15 E-05	2.64 E-05	0	5.11 E-06	0	1.23 E-04	-6.92 E-05			
ADP- minerals&metals*	kg Sb eq.	4.20 E-07	5.94 E-10	2.60 E-10	0	2.63 E-10	0	2.05 E-09	-7.36 E-09			
ADP-fossil*	MJ	8.94 E+01	1.14 E-01	4.87 E-02	0	5.07 E-02	0	5.00 E-01	-1.32 E+00			
WDP*	m <sup>3</sup>	6.81 E-01	4.08 E-05	2.37 E-02	0	1.81 E-05	0	3.72 E-03	-7.74 E-03			
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





<sup>\*</sup> Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

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.

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).

#### Additional mandatory and voluntary impact category indicators

Results per 1 kg of plastic spacers with virgin material													
Indicator	Unit	A1-A3	A4	<b>A</b> 5	C1	C2	С3	C4	D				
GWP-GHG <sup>1</sup>	kg CO <sub>2</sub> eq.	3.44 E+00	8.95 E-03	5.46 E-02	0	3.97 E-03	0	3.10 E-02	-7,64 E-02				

#### Resource use indicators

Results per 1 kg of plastic spacers with virgin material									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	5.51 E+00	8.62 E-03	1.68 E+00	0	3.82 E-03	0	8.34 E-02	-4.28 E-01
PERM	MJ	1.67 E+00	0	-1.67 E+00	0	0	0	0	0
PERT	MJ	7.17 E+00	8.62 E-03	1.31 E-02	0	3.82 E-03	0	8.34 E-02	-4.28 E-01
PENRE	MJ	5.96 E+01	1.14 E-01	8.05 E-01	2.91 E+01	5.07 E-02	0	5.00 E-01	-1.32 E+00
PENRM	MJ	2.98 E+01	0	-7.56 E-01	-2.91 E+01	0	0	0	0
PENRT	MJ	8.94 E+01	1.14 E-01	4.87 E-02	0	5.07 E-02	0	5.00 E-01	-1.32 E+00
SM	kg	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0
FW	m <sup>3</sup>	1.96 E-02	4.26 E-06	5.56 E-04	0	1.89 E-06	0	1.09 E-04	-3.34 E-04

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>&</sup>lt;sup>1</sup> 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 characterisation factor for biogenic CO<sub>2</sub> is set to zero.





#### **Waste indicators**

Results per 1 kg of plastic spacers with virgin material									
Indicator	Unit	A1-A3	A4	<b>A</b> 5	C1	C2	C3	C4	D
Hazardous waste disposed	kg	1.71 E-07	4.59 E-12	2.59 E-11	0	2.04 E-12	0	1.12 E-10	-8.30 E-10
Non-hazardous waste disposed	kg	3.14 E-02	1.60 E-05	3.59 E-03	0	7.08 E-06	0	9.96 E-01	-6.57 E-04
Radioactive waste disposed	kg	4.92 E-04	2.16 E-07	2.64 E-06	0	9.57 E-08	0	7.20 E-06	-9.88 E-05

#### **Output flow indicators**

Results per 1 kg of plastic spacers with virgin material									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
Components for re-use	kg	0	0	0	0	0	0	0	0
Material for recycling	kg	0	0	0	0	0	0	0	0
Materials for energy recovery	kg	0	0	0	0	0	0	0	0
Exported energy, electricity	MJ	0	0	3.49 E-01	0	0	0	0	0
Exported energy, thermal	MJ	0	0	6.26 E-01	0	0	0	0	0

Further information on the assumptions made in the LCA calculation and the interpretation of the results can be provided upon request.

#### ADDITIONAL ENVIRONMENTAL INFORMATION

Mass-based conversion factor for converting the declared results to results for specific products within the product group shall be used. The products represented by this EPD are provided in the "List of products" section. The mass of the products is provided upon request.





#### **ABBREVIATIONS**

Abbreviation	Definition				
ABS	Acrylonitrile Butadiene Styrene				
CEN	European Committee for Standardization				
CO <sub>2</sub> eq.	Carbon Dioxide Equivalent				
CO <sub>2</sub>	Carbon Dioxide				
c-PCR	Complementary Product Category Rule				
EC	European Commission				
ECHA	European Chemicals Agency				
EN	Europäische Norm (European Standard)				
EoL	End of Life				
EPD	Environmental Product Declaration				
EU	European Union				
GPI	General Programme Instructions				
GWP-GHG	Global Warming Potential of Greenhouse Gases				
ISO	International Organization for Standardization				
LCA	Life Cycle Assessment				
LDPE	Low-Density Polyethylene				
MND	Module Not Declared				
PCR	Product Category Rules				
PENRM	Primary Energy Non-Renewable, Material				
PERM	Primary Energy Renewable, Material				
PP	Polypropylene				
PVC	Polyvinyl Chloride				
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals				
SVHC	Substances of Very High Concern				
UN CPC	United Nations Central Product Classification				

#### **REFERENCES**

- a) General Programme Instructions of International EPD System. Version 4.
- b) PCR 2019:14: CONSTRUCTION PRODUCTS. version 2.0.1. The International EPD System. www.environdec.com.
- c) EN 15804:2012+A2:2019, Sustainability of construction works Environmental Product Declarations Core rules for the product category of construction products.
- d) ISO14025, 2006. Environmental labels and declarations Type III environmental declarations Principles and procedures.
- e) Software and database: Sphera LCA for Experts. LCA FE. software-system and databases. Managed LCA content MLC (fka GaBi database). University of Stuttgart and Sphera Solutions GmbH. 2024. CUP Version: 2024.1. MLC data set documentation under https://lcadatabase.sphera.com/ (Oct 2024)
- f) Candidate list of substances of very high concern (SVHC) for authorisation published by ECHA as defined in the REACH Regulation 1907/2006/EC (> 0.1 wt%)

#### **VERSION HISTORY**

Original Version of the EPD, 2025-10-26





### **List of products**

Article number	Description						
14019FW	AL PE - Linear spacer for bottom layer of reinforcement (PVC-free, white colour)						
17061H	ELSPE - Chamfer with nailing flange (solid profile, yellow colour)						
171.1	ELPEH - Chamfer without nailing flange (hollow profile, red colour)						
179.1	ELPEV - Chamfer with nailing flange (solid profile, red colour)						
30W	ASK - Rebar chair spacer with clamping device (white colour)						
316.	DS - Sealing plug						
3203x	RK - Groove cap for tube spacer						
3203X	x: [] = not watertight, D = watertight						
3204x	RST - Sealing plug for groove cap RK						
3204X	x: [] = not watertight, D = watertight						
322250W	SK - Supporting cone for tube spacer (white colour)						
3225	SK - Supporting cone for tube spacer (blue colour)						
3250	KA - Sealing plug for tube spacers						
3251	KU - Coupling for tube spacers						
327.	SKA - Protection cap for protruding rebars (yellow colour)						
327.R	SKA - Protection cap for protruding rebars (red colour)						
3276	SKV/ Drotaction can for protruding robots (orange colour)						
3277	SKV - Protection cap for protruding rebars (orange colour)						
3278	SKA D - Protection cap for protruding rebars to screw on (red colour)						
3279							
3278G	SKA D - Protection cap for protruding rebars to screw on (yellow colour)						
340.4	MPO - Shim pad with connector						
3440x	SPN - Panel pad						
3440%	x: [] = grey colour, N = natural colour, W = white colour						
3441x	SPH - Panel pad						
	x: [] = grey colour, N = natural colour, W = white colour						
3442S	SPS - Panel pad (with connector)						
3443	SPK - Panel pad (small size)						
3444	SPKH - Panel pad (small size, with hooks)						
3445	TW - Corner guard						
3446	SP - Panel pad						
3447	SPT - Panel pad (separable)						
388L	ASKS - Rebar chair spacer with clamping device (standard)						
398W	RES - Rectangular large-area spacer (white colour)						
	x: [] = round feet, F = flat feet, SF = pointed feet						
40xW	UNI - Universal wheel spacer						
41W	x: [] = not reinforced, S = reinforced						
42W							
44W	KAS - Clamp wheel spacer (white colour)						
46W							





