

Environmental Product Declaration



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

Profiles of galvanized steel

EPD of multiple products, based on the average results of the product group

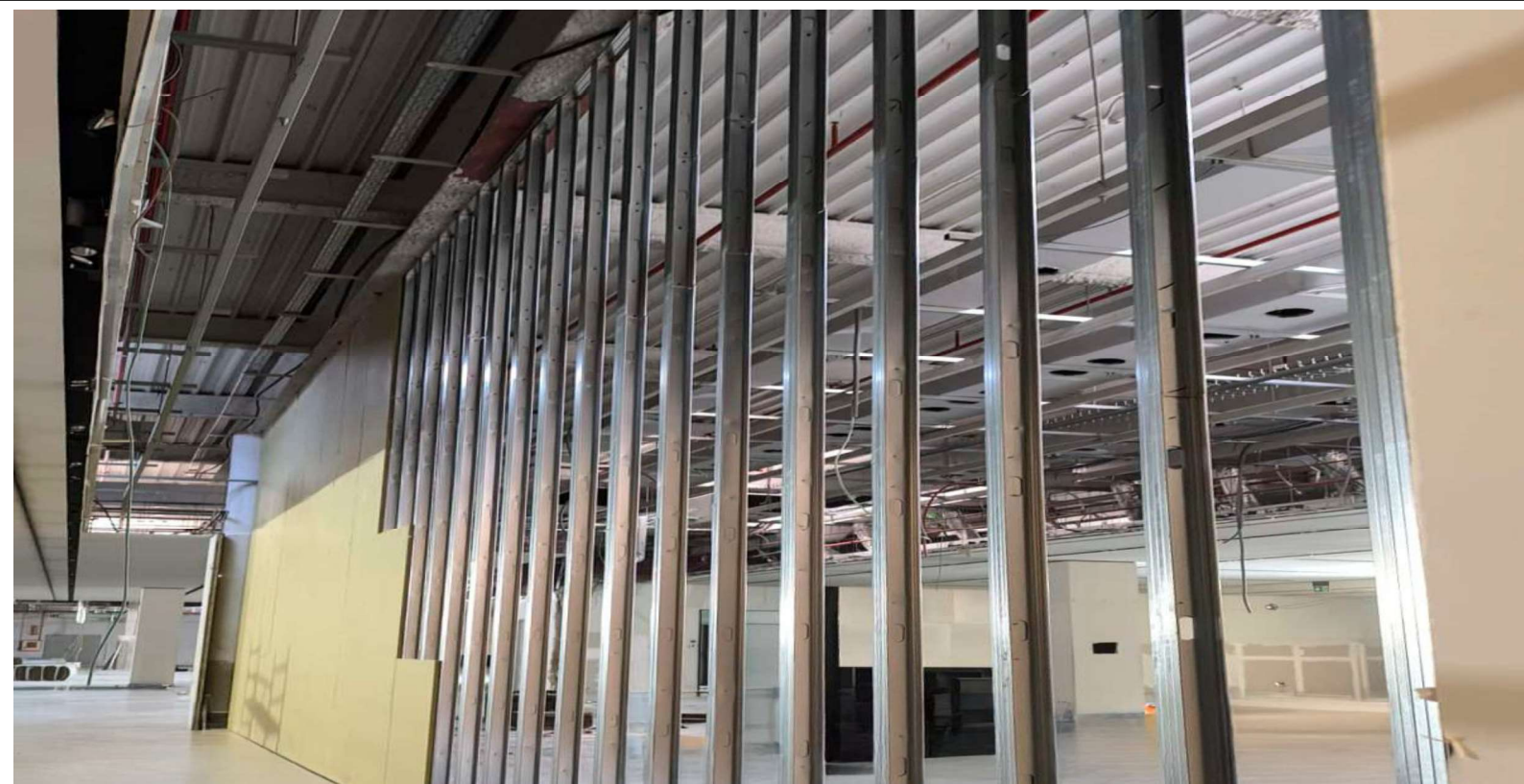
Products included are: Montantes, Railes, Techo, Angulares TZ, Clip and Perfiles U, Stec, Omega Maestra and Omega.

from



Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	EPD of multiple products from a company
EPD registration number:	EPD-IES-0028431:001
Version date:	2026-05-06
Validity date:	2031-05-05

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



General information

Programme information

Programme: The International EPD® System
EPD International AB
Box 210 60
SE-100 31 Stockholm
Sweden

Website: www.environdec.com

E-mail: support@environdec.com

Accountabilities for PCR, LCA and independent, third-party verification
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, version 2.0.1 published on 2025.06.05</i> UN CPC Code: 421 Structural products and Parts Thereof (CPC 421, version 2.1 dated 2015)
PCR review was conducted by: Technical Committee of the international EPD® System. See www.environdec.com for a list of members. Review: Rob Rouwette (chair), Noa Meron (co-chair). The review panel may be contacted via the Secretariat www.environdec.com/contact .
Life Cycle Assessment (LCA)
LCA accountability: <i>Engloba Consulting Professional Services, SL</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: Marcel Gómez, Marcel Gómez Consultoria Ambiental, S.L. (info@marcelgomez.com)
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 registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same 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 equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; 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:

TECZONE ESPAÑOLA S.A.U

Pol. Ind. Gamonal. c/ Alcalde Martín Cobos, s/n

E-09007 Burgos, Spain

Contact: Esther Moral; esther.moral@kingspan.com

Description of the organisation:

TECZONE ESPAÑOLA S.A.U is a global company specialising in advanced building envelope and insulation solutions.

Teczone's insulation board division is the world's largest manufacturer of high-performance board systems. With a wide range of insulation cores, from mineral fibre to other advanced PIR technologies, Kingspan offers solutions that are tailored to various regulations and enable faster and more efficient construction, with less optimisation of assembly processes compared to traditional systems.

In addition to insulation panels, Kingspan offers architectural façade solutions and standing seam systems in selected markets, expanding its offering for technically and aesthetically demanding projects.

Product-related or management system-related certifications:

- ISO 9001: 2015 Quality Management Systems. ER-416/1997
- ISO 14001:2015 Environmental Management Systems. GA-2007/0617
- ISO 45001:2015 occupational health and safety management systems. SST- 0173/2007
- ISO 37301:2021 Compliance management systems. 08250-44202

It also has the following product-level certification:

- AENOR product certification STEC UNE-EN 14195:2005. 035/001506
- AENOR product certification ANGULAR UNE-EN 14195:2005. 035/001507
- AENOR product certification CLIP UNE-EN 14195:2005. 035/001508
- AENOR product certification TECHO UNE-EN 14195:2005. 035/001509
- AENOR product certification OMEGA MAESTRA UNE-EN 14195:2005. 035/001511

Name and location of production site:

Name: TECZONE ESPAÑOLA S.A.U

Location: Pol. Ind. Gamonal. c/ Alcalde Martín Cobos, s/n, E-09007 Burgos, Spain.

Product information

Product name:

Profiles of galvanized steel

Product identification:

This EPD covers the average product of prefabricated profiles of galvanized steel for application in wall cladding and ceiling.

All steel profiles are manufactured by TECZONE in their production plant in Burgos, Spain (c/ Alcalde Martín Cobos, s/n).

From 8 different profiles the weighted average according to production in kg has been calculated. Results of the Life Cycle Assessment (LCA) are presented for this average. This product has been calculated based on a set of references which are certified with CE according to EN 14509.

One of the main objectives of the EPD is to communicate the environmental impacts of our product to B2B companies.

Product description:

All included references correspond to galvanized steel profiles. For each of the eight families, the most representative measurements from TECZONE's 2024 production have been selected to do the average.

Within this EPD are included the following references:

Characteristics	Montantes	Railes	Techo	Angulares	Clip y perfiles U	Stec	Omega maestra	Omega
Weight (kg/mL)	0,55	0,42	0,42	0,23	0,25	0,54	0,45	1,03
Thickness (mm)	0,58	0,52	0,58	0,52	0,52	0,7	0,56	0,9

In total, 8 steel profiles are included:

- Montantes
- Railes
- Techo
- Angulares TZ
- Clip y perfiles U
- Stec
- Omega maestra
- Omega

UN CPC code: CPC 421 Structural metal products and parts thereof

Geographical scope:

Product under study is produced in Burgos, Spain but can be used at a global scale.

LCA information

Declared unit:

One kilogram (kg) of galvanized steel profiles.

Reference service life:

TECZONE steel profiles used in metal constructions must withstand a minimum period of service life of at least 30 years. The term of service life is the period until first slight renewals in the surface of the profiles are required, only if there is no need for frequent inspections and service.

The service life depends on the location, weather conditions and the quality of the pre-painted coating of steel skins.

Time representativeness:

All specific data related to the production plants and used for the study date from 2024.

Database and LCA software used: The primary inventory data has been obtained from TECZONE ESPAÑOLA S.A.U corresponding to the references listed above produced on 2024 by TECZONE ESPAÑOLA S.A.U at its production site, located in Burgos, Spain.

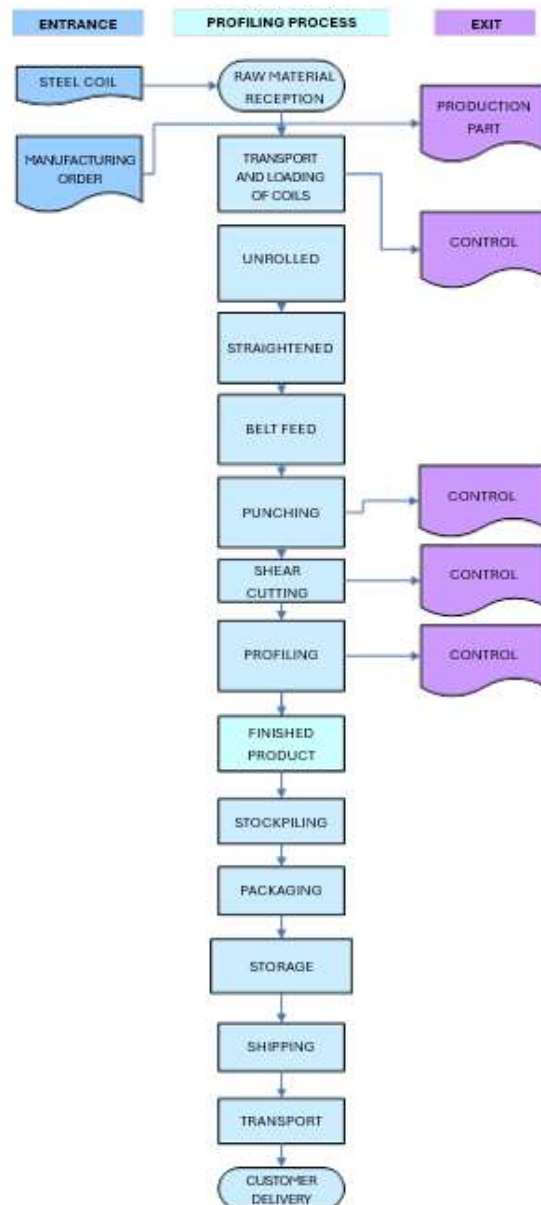
The secondary data has been extracted from the Ecoinvent version 3.12 database, included in the Earthster software and internationally recognized. Wherever possible, inventory data relating to Spain, or in its absence from Europe in general, has been selected. These have been used for the stage of production and transport of raw materials, as well as for electricity generation or waste management processes, over which the manufacturer has no direct influence.

Description of system boundaries: Cradle to gate with modules C1–C4 and module D (A1–A3 + C + D). Therefore, this EPD report considers the scope "cradle to gate with end of life of the product", covering the modules of extraction and processing of raw materials (A1), their transportation to the production plant (A2), manufacturing process (A3), end of life (C1–C4) and potential benefits and loads from the reuse and recycling of the steel aggregate at its end of life (D).

As permitted by PCR 2019:14 (version 2.0.1), remaining life cycle stages (modules A4–A5 and B1–B7) have been excluded from the study as not being relevant for this product. Therefore, since the steel can be identified and separated at its end of life, the end of life of the product and possible benefits from material recovery of the TECZONE product shall be included in the EPD (i.e., modules C1–C4 and D).

Applicable lifecycle stages within the system boundaries and processes are described below.

- Product stage (A1–A3):
 - Raw material supply (A1): This module considers the extraction and processing of raw materials used for the manufacture of the product. Moreover, raw materials' packaging enabling transportation to the production plant is included. Likewise, the production of the energy necessary for the manufacturing process (electricity, diesel, and other fuels) is also considered.
 - Transport of the raw materials (A2): This module consists of the transportation of all raw materials covered by module A1, from the extraction, production, and treatment site to the factory, considering the specific distances of each material supplier.
 - Manufacturing of galvanized steel profiles (A3):



This module refers to the production process of all galvanized steel profiles included in this EPD in the Burgos (Spain) production plant. It includes the combustion of fuels (diesel) and the water consumed during the manufacturing process. It also considers the waste generated from the production process: the treatment and transport from the production plant to the waste manager. Finally, it considers the packaging used for distribution: the materials of the packaging of the product and the transport of this packaging from suppliers to the TECZONE factory in Burgos. Electricity generation by photovoltaic solar panels has also been considered. In our case, the emission factor is 0,031 CO₂eq/kWh for electricity mix.

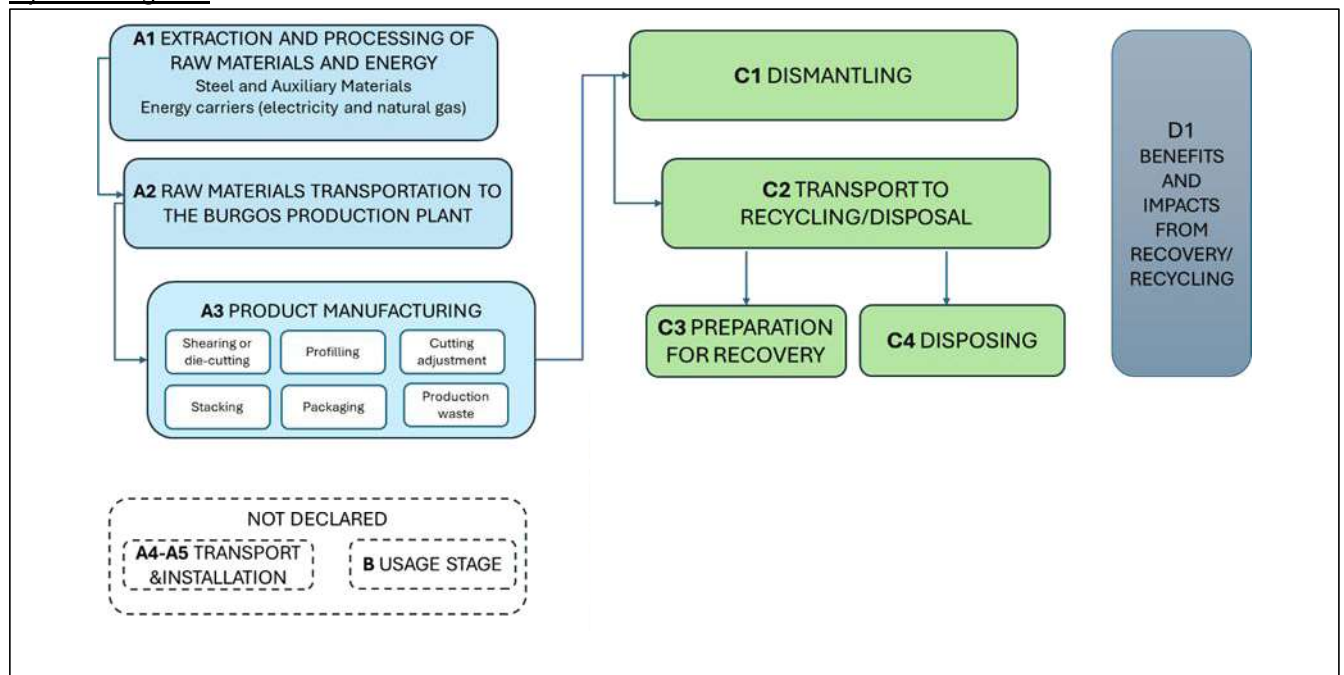
End of life stage (C):

- Deconstruction or demolition (C1): For this module has been considered diesel consumption of 1,1 kWh/tonne for machinery used.
- Transport to the waste processing site (C2): This module considers a default distance of 80 km between the building where the product was installed and the waste manager facility.
- Waste processing (C3): This module includes the reconditioning of the galvanized steel profiles for recycling. The 95% of the steel is considered for recycling.
- Disposal (C4): This module includes the final discharge of waste that has not been destined for recovery or treatment processes.

Parameter	Units per Declared Unit (m ²)	Value
Waste collection process, specified by type	Kg collected separately	1
	Kg collected mixed with demolition waste	0,00
Recovery process waste, steel	Kg for reuse	0,00
	Kg for recycling (C3)	0,95
	Kg of energy recovery	0,00
Recovery process waste, other materials	Kg for reuse	0,00
	Kg for recycling	0,00
	Kg for energy recovery	0,00
Waste disposal	Kg to landfill (C4)	0,05
Considerations for scenarios development	Distance to waste manager (km)	80

- Benefits and loads beyond the system boundary (D): This module analyses the benefits and burdens related to the process of recovery, reuse, or recycling of waste from the product under study at their end of life, which could form part of the cycle of a new product.

System diagram:



More information:

Company website for more information: <https://teczone.es/>

Name and contact information of LCA practitioner:

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+34 872 50 74 51
info@englobaconsulting.com
www.englobaconsulting.com

Cut-off rules: In accordance with the provisions of the PCR 2019:14 construction products, version 2.0.1 and the standard EN15804:2012+A2:2019/AC:2021, at least 95% of total inflows and outflows (mass and energy) per module have been included.

The "polluter pays" and modularity principle has been applied.

In addition, the following processes have not been included in the scope of the study:

- Manufacture of equipment used in production.
- Business trips.
- Maintenance activities at the production plants
- Transportation of personnel to and within the plants
- Diffuse particle emissions during the transport and storage of raw materials

Hypothesis and considerations applied:

The hypothesis and considerations assumed during the study are detailed below:

- All specific data used in the present study corresponds to 2024.
- Virgin steel has been considered to contain 10% of recycled iron.
- The electricity mix corresponding to the company's consumption has been modeled according to the data from its energy distributor. This gives an impact value to each resulting kWh (0,031 kg CO₂eq/kWh).
- It has been assumed that all truck transport complies with the EURO 5 emission standard, when carried out within European territory.
- As specified in ANNEX C of the Single Market for Green Products - The Product Environmental Footprint Pilots - Environment - European Commission (europa.eu), an end-of-life situation has been assumed for steel of 95% for the recycling process, and for the remaining 5%, it has been considered destined for landfill since the steel cannot be incinerated.
- 80 km distance has been assumed for the transport of waste from product deinstallation point to the waste manager's plant.
- Both for electricity consumption, as for the rest of the plant consumption, as well as for the generation of waste, an allocation per kg of galvanized steel profiles produced has been made.
- Regarding the transport of raw materials (module A2), specific distances have been introduced by supplier. We have considered dual sourcing supplier.
- For the transport of waste from the production plant to the waste manager, specific distances have been introduced to each waste manager based on waste type.

Data quality requirements: In this study, data quality requirements established by ISO 14025 standards and reference PCRs "PCR 2019:14 Construction products, version 2.0.1 Published on 2025-06-05 and EN 15804:2012+A2:2019/AC:2021 have been applied.

Data has been evaluated through a data quality matrix based on the Product Environmental Footprint Category rules criterion for data quality management, as it is established in the EN 15804:2012+A2:2019/AC:2021. The global data quality assessment reflects good quality (3,83).

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

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	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	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	x	x	x	ND	ND	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	ES	ES	ES	-	-	-	-	-	-	-	-	-	EU	EU	EU	EU	EU
Share of primary data	5,04%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	<10%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

Process	Source type	Source	Reference year	Data category	Share of primary data, of GWP-GHG results for A1-A3
Generation of electricity used in manufacturing of product	Monthly invoices	Energy supplier	2024	Primary data	0,050%
Raw material (steel)*	Supplier EPD	EPD	2024	Primary data	2,50%
Diesel consumption	Monthly invoices	Energy supplier	2024	Primary data	0,04%
Water consumption	Monthly invoices	Supplier	2024	Generic data	0,25%
Transport raw materials	BBDD	Ecoinvent 3.12	2024	Primary data	2,19%
Production of steel	Database	Ecoinvent 3.12	2024	Generic data	0,000%
Production of chemicals	Database	Ecoinvent 3.12	2024	Generic data	0,000%
Transport of packaging	BBDD	Ecoinvent 3.12	2024	Primary data	0,009%
Transport of waste	BBDD	Ecoinvent 3.12	2024	Primary data	0,003%
Total share of primary data, of GWP-GHG results for A1-A3					5,04 %

*Disclaimer: The reported share of primary data is associated with uncertainty, as an EPD used as data source lack information on the share of primary data.

The EPD covers the galvanized steel profiles manufactured by TECZONE at its production facility located in Burgos (Spain). The data used for the life cycle assessment correspond to the year 2024.

The EPD is developed in accordance with EN 15804:2012+A2:2019 and PCR 2019:14 Construction products (version 2.0.1) and includes the following modules: product stage (A1–A3), end-of-life stage (C1–C4) and module D (benefits and loads beyond the system boundary).

Primary data from Burgos manufacturing plant have been used for modules A1–A3, covering processes under the operational control of TECZONE. Background processes have been modelled using secondary data from the ecoinvent database (version 3.12), ensuring technological, geographical and temporal representativeness in line with the PCR data quality requirements.

No fair, poor or very poor data quality was identified during the assessment of relevant data according to EN 15941.

The data used in this analysis come from sources that meet the quality requirements established by EN 15804:2012+A2:2019 (Annex E) and EN 15941 standards. The data quality assessment score is 3,82, indicating a good level of data quality and reliability of the results. Data considered to be of poor quality have not been taken into account.

Content information

Product components	Mass, kg	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Galvanized steel	1,00E+00	1,59%	0,00E+00	0,00E+00
TOTAL	1,00E+00	1,59%	0,00E+00	0,00E+00

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/product or declared unit
Wood	1,62E-02	1,62%	8,10E-03
PP	3,73E-04	0,03%	0,00E+00
PET	3,71E-05	0,003%	0,00E+00
Metal	6,30E-06	0,0006%	0,00E+00
TOTAL	1,67E-02	1,65%	8,10E-03

The LCA was carried out by calculating the weighted average of the eight products based on the total annual production for each of the families studied.

The values expressed are the average values for every raw material and packaging material.

None of the components present in the final product and included in the “Candidate List of Substances of Extreme Concern in the authorization procedure” of the REACH regulation has a percentage higher than 0,1%.

Results of the environmental performance indicators

Considering a declared unit of one kilogram (kg) of galvanized steel profiles.

The impact assessment is based on EF3.1

The results of A1-A3 should not be used without taking into account the results of module C.

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.

Teczone commits to paying the GDOs for a period of 5 years. In the event that the payments are discontinued, a new version of this EPD will be issued.

Mandatory impact category indicators according to EN 15804 Results per declared unit

Indicator	Unit	TOTAL A1-A3	C1	C2	C3	C4	D
GWP-fossil	kg CO2 eq.	3,15E+00	5,52E-04	2,04E-02	4,10E-01	4,38E-04	-1,77E+00
GWP-biogenic	kg CO2 eq.	0,00E+00 ⁽¹⁾	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP- luluc	kg CO2 eq.	3,60E-03	8,68E-08	5,93E-06	6,72E-04	4,01E-07	-3,95E-04
GWP-total	kg CO2 eq.	3,18E+00	5,52E-04	2,04E-02	4,13E-01	4,39E-04	-1,77E+00
ODP	kg CFC 11 eq.	8,41E-08	2,66E-10	4,41E-10	2,44E-08	4,54E-11	-2,44E-08
AP	mol H+ eq.	1,04E-01	5,48E-06	3,84E-05	1,95E-03	3,14E-06	-6,92E-03
EP-freshwater	kg P eq.	1,72E-03	2,44E-08	1,34E-06	1,72E-04	4,16E-08	-1,12E-03
EP-marine	kg N eq.	6,34E-03	1,92E-06	9,75E-06	3,71E-04	1,20E-06	-1,56E-03
EP-terrestrial	mol N eq.	4,35E-01	2,10E-05	1,05E-04	4,00E-03	1,30E-05	-1,68E-02
POCP	kg NMVOC eq.	1,32E-02	6,57E-06	6,56E-05	1,47E-03	4,45E-06	-6,25E-03
ADP- minerals&metals*	kg Sb eq.	3,47E+01	5,53E-03	2,89E-01	1,71E-02	8,38E-03	-1,23E+01
ADP-fossil*	MJ	6,53E+00	1,66E-02	6,89E-08	4,95E+00	2,67E-03	-4,62E+00
WDP*	m ³	2,66E+00	2,00E-05	1,31E-03	2,66E-01	4,42E-04	-2,85E-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.*

(1) The impact of CC biogenic is 0 because A5 is not declared and this is compensated in modules A1-A3, although the value is 2,97E-02.

Additional mandatory and voluntary impact category indicators

Results per declared unit

Indicator	Unit	TOTAL A1-A3	C1	C2	C3	C4	D
GWP-GHG ¹ (1)	kg CO2 eq.	3,16E+00	5,52E-04	2,04E-02	4,10E-01	4,39E-04	-1,77E+00
PM	Disease inc.	5,38E-02	1,12E-10	1,23E-09	2,64E-08	6,88E-11	-1,37E-07
IRP (2)	kBq U-235 eq	2,71E-01	7,15E-05	3,77E-04	3,67E-02	1,73E-05	3,65E-02
ETP-fw (3)	CTUe	1,12E+02	4,95E-03	4,37E-02	2,34E+00	1,78E-03	-1,05E+01
HTP-c (3)	CTUh	7,82E-09	9,99E-14	2,92E-12	6,60E-09	1,12E-13	-2,67E-09
HTP-nc (3)	CTUh	8,38E-08	1,90E-12	1,56E-10	3,30E-08	2,27E-12	-1,10E-08
SQP (3)	Pt	1,15E+01	2,31E-03	1,40E-01	1,91E+00	2,00E-02	-5,48E+00

Acronyms	GWP-GHG: Global warming potential-Greenhouse gas; PM= particulate matter; IRP =Ionizing radiation, human health; ETP-fw=Ecotoxicity tap water-organic; HTP-c= human health, carcinogenic effects; HTP-nc= human health , non-carcinogenic effects; SQP=land use
(1)	The indicator includes all green house gases included in GWP -total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product.
(2)	This impact category refers to the eventual impacts of low amounts of ionizing radiation on human health from the nuclear fuel cycle. It does not consider the effects due to possible nuclear accidents or occupational exposure due to possible nuclear accidents or occupational exposure due to radon or from some construction materials
(3)	The results of this environmental impact category must be used wisely, as the uncertainties in the results are elevated and the results are elevated and the experience with this parameter is limited

Resource use indicators

Results per declared unit

Indicator	Unit	TOTAL A1-A3	C1	C2	C3	C4	D
PERE	MJ	3,03E+00	7,13E-05	5,05E-03	4,34E-01	1,20E-04	-1,23E+00
PERM	MJ	2,88E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	3,31E+00	7,13E-05	5,05E-03	4,34E-01	1,20E-04	-1,23E+00
PENRE	MJ	3,90E+01	2,18E-02	2,72E-01	4,97E+00	1,06E-02	-1,62E+01
PENRM	MJ	1,17E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	3,90E+01	2,18E-02	2,72E-01	4,97E+00	1,06E-02	-1,62E+01
SM	kg	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
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m ³	1,44E+01	3,47E-07	3,25E-05	1,01E-05	8,18E-06	-4,53E-03

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
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Waste indicators

Results per declared unit

Indicator	Unit	TOTAL A1-A3	C1	C2	C3	C4	D
Hazardous waste disposed	kg	6,71E+00	4,88E-08	6,38E-06	8,47E-07	1,15E-07	-1,93E-04
Non-hazardous waste disposed	kg	1,24E+03	3,31E-05	1,39E-02	5,31E-04	5,17E-02	-2,04E+00
Radioactive waste disposed	kg	6,29E-05	5,12E-10	9,20E-08	1,03E-07	1,07E-09	1,27E-05

Output flow indicators

Indicator	Unit	TOTAL A1-A3	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
Material for recycling	kg	2,90E-02	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	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
Exported energy, thermal	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Information on biogenic carbon content

The product under study and its packaging contains the biogenic carbon content presented below:

Results per declared unit

BIOGENIC CARBON CONTENT	Unit	Quantity
Biogenic carbon content in product	kg	0,00E+00
Biogenic carbon content in packaging	kg	8,10E-03

Variability analysis

The variability between the steel profile with the highest impact and the one with the lowest impact has not been calculated, since the difference between any of the profiles does not exceed 10%.

Additional information end of life

Recycling 100%

The values of C1 and C2 remain unchanged.

Indicator	unit	C3	C4	D
GWP-fossil	kg CO2 Equivalents	9,44E-04	0,00E+00	-1,25E+00
GWP-biogenic	kg CO2-Equivalents	0,00E+00	0,00E+00	0,00E+00
GWP-luluc	kg CO2-Equivalents	2,30E-06	0,00E+00	-1,61E-04
GWP-total	kg CO2 Equivalents	9,46E-04	0,00E+00	-1,25E+00
ODP	kg CFC11 equivalents	1,74E-11	0,00E+00	-3,96E-09
AP	mol H+ equivalents	5,58E-06	0,00E+00	-4,93E-03
EP-freshwater	kg P equivalents	8,30E-07	0,00E+00	-9,06E-04
EP-marine	kg N equivalents	1,14E-06	0,00E+00	-1,09E-03
EP-terrestrial	mol N equivalents	1,09E-05	0,00E+00	-1,19E-02
POCP	kg NMVOC equivalents	3,40E-06	0,00E+00	-4,07E-03
ADP-fossil	MJ	1,89E-02	0,00E+00	-1,23E+01
ADP-minerals&metals	kg Sb equivalents	1,17E-08	0,00E+00	-1,27E-05
WDP	m3-world equivalents	4,20E-04	0,00E+00	-1,52E-01
GWP-GHG	kg CO2 Equivalents	9,49E-04	0,00E+00	-1,25E+00
PM	disease incidence	4,17E-11	0,00E+00	-9,08E-08
IRP	kBq U235 equivalents	4,51E-04	0,00E+00	4,95E-02
ETP-fw	CTUe	3,08E-03	0,00E+00	-8,96E+00
HTP-c	CTUh	2,84E-13	0,00E+00	-1,73E-10
HTP-nc	CTUh	1,41E-11	0,00E+00	-7,72E-09
SQP	dimensionless (pt)	2,00E-02	0,00E+00	-3,56E+00
PERE	MJ	5,07E-03	0,00E+00	-9,79E-01
PERM	MJ	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	5,07E-03	0,00E+00	-9,79E-01
PENRE	MJ	1,81E-02	0,00E+00	-1,15E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	1,81E-02	0,00E+00	-1,15E+01
SM	kg	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00
FW	m3	1,12E-05	0,00E+00	-4,53E-03
Hazardous waste disposed	kg	9,36E-07	0,00E+00	-1,93E-04
Non-hazardous waste disposed	kg	5,87E-04	0,00E+00	-2,04E+00
Radioactive waste disposed	kg	1,14E-07	0,00E+00	1,27E-05

Landfill 100%

The values of C1 and C2 remain unchanged.

Indicator	unit	C3	C4	D
GWP-fossil	kg CO2 Equivalents	0,00E+00	6,78E-03	0,00E+00
GWP-biogenic	kg CO2-Equivalents	0,00E+00	0,00E+00	0,00E+00
GWP-luluc	kg CO2-Equivalents	0,00E+00	3,82E-06	0,00E+00
GWP-total	kg CO2 Equivalents	0,00E+00	6,78E-03	0,00E+00
ODP	kg CFC11 equivalents	0,00E+00	1,98E-10	0,00E+00
AP	mol H+ equivalents	0,00E+00	4,67E-05	0,00E+00
EP-freshwater	kg P equivalents	0,00E+00	5,97E-07	0,00E+00
EP-marine	kg N equivalents	0,00E+00	1,85E-05	0,00E+00
EP-terrestrial	mol N equivalents	0,00E+00	2,01E-04	0,00E+00
POCP	kg NMVOC equivalents	0,00E+00	7,28E-05	0,00E+00
ADP-fossil	MJ	0,00E+00	1,76E-01	0,00E+00
ADP-minerals&metals	kg Sb equivalents	0,00E+00	1,03E-08	0,00E+00
WDP	m3-world equivalents	0,00E+00	7,34E-03	0,00E+00
GWP-GHG	kg CO2 Equivalents	0,00E+00	6,79E-03	0,00E+00
PM	disease incidence	0,00E+00	1,10E-09	0,00E+00
IRP	kBq U235 equivalents	0,00E+00	9,56E-05	0,00E+00
ETP-fw	CTUe	0,00E+00	2,07E-02	0,00E+00
HTP-c	CTUh	0,00E+00	1,19E-12	0,00E+00
HTP-nc	CTUh	0,00E+00	2,88E-11	0,00E+00
SQP	dimensionless (pt)	0,00E+00	3,27E-01	0,00E+00
PERE	MJ	0,00E+00	1,54E-03	0,00E+00
PERM	MJ	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	0,00E+00	1,54E-03	0,00E+00
PENRE	MJ	0,00E+00	1,65E-01	0,00E+00
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	0,00E+00	1,65E-01	0,00E+00
SM	kg	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00
FW	m3	0,00E+00	1,72E-04	0,00E+00
Hazardous waste disposed	kg	0,00E+00	2,42E-06	0,00E+00
Non-hazardous waste disposed	kg	0,00E+00	1,08E+00	0,00E+00
Radioactive waste disposed	kg	0,00E+00	2,25E-08	0,00E+00

Abbreviations

Abbreviation	Definition
EPD	Environmental Product Declaration
PCR	Product Category Rules
LCA	Life Cycle Assessment
CPC	Central Product Classification
CEN	European Committee for Standardization
ISO	International Organization for Standardization
EN	European Norm (Standard)
SAU	User Administration System
CE	European Conformity
DARI	Waste Declaration System for Industrial Activities
BBDD	Database
EF	Environmental Footprint
CF	Carbon Footprint
ND	Not Declared
PET	Polyethylene terephthalate
PP	Polypropylene
ES	Spain
EU	Europe

References

- PCR 2019:14. Construction products. Version 2.0.1. Valid until 2030-04-07
- ISO 14025:2006 *Environmental labels and declarations-Type III Environmental Declarations-Principles and procedures*
- ISO 14040:2006 *Environmental management-Life Cycle Assessment-Principles and framework*
- ISO 14044:2006 *Environmental management-Life Cycle Assessment-Requirements and guidelines*
- EN 15804:2012+A2:2019/AC:2021 *Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products*
- General Programme Instructions for international EPD System version 5.0.1 (2025-02-27)
- LCA Report galvanized steel profiles

Version history

Original Version EPD, 2026-05-06

