



Environmental Product Declaration

EN ISO 14025:2010

EN 15804:2012+A2:2019

# AENOR Confía

## EASYCONNECT® WIRE MESH CABLE TRAYS

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### **VALDINOX S.L.**



The holder of this Declaration is responsible for its content, and for retaining the supporting documentation that substantiates the data and statements contained herein for the duration of its validity.



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EN 15804:2012+A2:2020										
•	declaration and data in accordance O 14025:2010  ⊠ External									
Verifica	ation body									







#### 1. General information

#### 1.1. The organisation

VALDINOX is a manufacturer that has specialised in mesh trays since 1982. It is a pioneer in Spain and one of the most experienced manufacturers with the greatest production capacity in Europe.

Thanks to the experience and know-how gained over the years manufacturing mesh trays for numerous other brands in Spain and the rest of Europe, in 2014, VALDINOX designed, developed and patented the EASYCONNECT tray. The great success of this innovative integrated fastening system since its launch has brought global recognition to a proprietary brand that focuses on quality and efficiency.

Currently, VALDINOX exports 90% of the EASYCONNECT trays it produces, which are sold in over 20 countries in Europe, America and Africa.

The outstanding benefits that EASYCONNECT provides in terms of efficiency, effectiveness and safety for wiring systems stem from the technical characteristics of this unique integrated fastening system.

VALDINOX's organisation, technical resources and experience allow us to effectively harness our considerable production capacity, which is greater than

15,000 metres of trays per day, and our available stock of more than 150 km, which ensures that we are able to meet the most demanding lead times.

#### 1.2. Scope of the Declaration

This environmental product declaration provides environmental information related to the life cycle of the cradle-to-grave production of EASYCONNECT® electro-welded steel mesh cable trays manufactured by Valdinox at its plant in San Mamés de Meruelo (Cantabria), with three different types of coatings:

- Electrolytic zinc-plating (EZ)
- Hot dip galvanised (HDG)
- Austenitic stainless steel (SS)



The function performed by the product system under analysis is the production of trays for use as passive cable management systems (support and guide) in the construction sector.

#### 1.3. Life cycle and conformity

This EPD has been prepared and verified in accordance with UNE-EN ISO 14025:2010 and UNE-EN ISO 14025:2010.

15804:2012+A2:2020.

Table 1-1. Product Category Rule

Títle	Sustainability in construction. Environmental product declarations. Core rules for the product category of construction products
Registration /version	UNE EN 15804:2012+A2:2020
Issue date	2020-03
Operator	AENOR

This EPD covers the life cycle stages listed in table 1-2. This is a cradle-to-grave, module D EPD.





**Table 1-2** System boundaries. Information modules considered

mout	1162 0	onsidered					
<b>5</b> .	A1	Raw material supply	Χ				
roduci	A2	Transport to plant	X				
₫,	А3	Manufacturing	Χ				
Sonsttr	A4	Transport to site	Х				
So =	A5	Installation/construction	X				
	B1	Use	Χ				
	B2 Maintenance						
des	В3	Repair	Χ				
Jse stages	B4	Replacement	Χ				
Use	B5	Refurbishmen	Χ				
	В6	Operantional energy use	Χ				
	В7	Operational water use	Χ				
	C1	Deconstruction/demolition	Χ				
End of life	C2	Transport	Χ				
End (	СЗ	Waste processing	Χ				
	C4	Disposal	Χ				
	D	Reuse, recovery and/or recycling potential	Х				

X = Module included in the LCA; NR = Module not relevant; MNE = Module not

This EPD may not be comparable with those prepared under other Programmes or according to different reference documents; in particular, it may not be comparable with Declarations not prepared and verified according to standard UNE-EN 15804.

Similarly, EPDs may not be comparable if the source of the data is different (e.g. databases), not all relevant information modules are included, or if they are not based on the same scenarios.

Construction products should be compared for the same function, using the same declared unit and at a building (or architectural or engineering project) level, i.e. covering the performance of the product throughout its life cycle, as well as the specifications of section 6.7.2 of standard UNE-EN ISO 14025.

## 1.4. Differences with previous versions of this EPD.

There are no previous versions of this EPD.







#### 2. The product

#### 2.1. Product identification

This EPD applies to EASYCONNECT? wire mesh cable trays made of electro-welded steel wire with three types of coating:

- Electrolytic zinc-plating (EZ)
- Hot dip galvanised (HDG)
- Austenitic stainless steel (SS)

CPC code: 4219.

#### 2.2. Product perfomance

EASYCONNECT® wire mesh cable trays, made of electro-welded steel wire, include their own fastening system, taking advantage of the elastic and mechanical properties of steel, reducing the cost and time of any installation, as well as increasing its strength and safety.

#### Efficiency

EASYCONNECT® is more efficient, both in terms of its manufacturing processes and its patented design, as it does not require additional fasteners to be installed, thus eliminating the water consumption and CO2 emissions that would have resulted from their production process.

#### Applicable regulations

EASYCONNECT® is certified by the IECEE according to international standard IEC 61537, certified by UL according to the NEMA and NFPA standards in force in the USA and it has successfully passed seismic resistance tests (IEC 60980), fire resistance tests (DIN 4102-12 / E90) and short-circuit resistance tests (IEC 61914, up to 157 KA).

EASYCONNECT? mesh trays are available in 4 side heights: 30 mm, 60 mm, 100 mm and 150 mm, and several widths, from 60 mm to 600 mm. Additionally, VALDINOX's manufacturing flexibility and extensive experience also allow it to offer custom sizes.

#### Coating type

- Electrolytic zinc-plating (EZ)
  - ✓ Passivated and coated with Cr3+ salts
  - ✓ Standards: ISO 2081, EN 112050, ISO 4520, 2011/65/EU European directives (RoHS).
  - Zinc layer thickness: minimum 12 μm average 14 μm.
  - ✓ IEC 61537: Class 2
- Discontinuous hot dip galvanised (HDG)
  - ✓ Anti-corrosive dip-coating in molten zinc
  - ✓ Standards : ISO 1461, EN 1179, 2011/65/EU European directives (RoHS).
  - ✓ Zinc layer thickness: minimum 85 µm average 150 µm.
  - ✓ IEC 61537 : Class 8
- AISI 304 stainless steel and 316L stainless steel (SS)
  - ✓ Austenitic stainless steel alloy (Cr, Ni, Mb)
  - ✓ IEC 61537: Class 9D





#### Quality seals

The quality of EASYCONNECT® trays is certified by the following bodies:

- UL certificate no. E350492-20120614 according to NFPA 70 National Electrical Code and NEMA VE1 Metal Cable Tray System standards.
- IECEE CB Scheme Certificate No. ES 1947-M1 according to IEC 61537:2006

#### 2.3. Product composition

EASYCONNECT® cable trays with 100% steel (electro-welded steel mesh):

- Steel C9D UNE-EN ISO 16120-2
  - √ Tensile strength: 70 kg/mm2
  - ✓ Yield strength: 67 kg/mm2
- AISI 304 and 316L stainless steel
  - ✓ Tensile strength: 79.3 kg/mm2
  - ✓ Yield strength: 71.3 kg/mm2

The percentage of hazardous substances listed in the "Candidate List of Substances of Very High Concern (SVHC) for authorisation" that are used during the life cycle of the product does not exceed 0.1% of the product's weight.







#### 3. Information about the LCA

#### 3.1. Life cycle assessment

The Life Cycle Assessment Report for the EPD of EASYCONNECT® mesh cable trays, dated June 2023, was performed by the company Abaleo S.L. using the Ecoinvent

3.9.1 database (January 2023) and SimaPro 9.5.0.0.0 software, which was the most up-to-date version available at the time of the LCA.

The study was carried out using data from the VALDINOX S.L. plant located in San Mamés de Meruelo, Cantabria.

The LCA study follows the recommendations and requirements of the international standards ISO 14040:2006, ISO 14044:2006 and the European Standard UNE- EN 15804:2012+A2:2020.

#### 3.2. Scope of the study

The scope of this EPD is the module D (modules A1-A3, A4, A5, B1-B7, C and D) cradle-to-grave production of EASYCONNECT® cable trays manufactured by VALDINOX S.L. for use as passive cable guide and support systems in the construction industry.

Data specific to the product manufacturing process is from the San Miguel de Meruelo plant in Cantabria, Spain, from the period between May 2022 and April 2023.

The LCA did not include:

- All equipment with a service life of more than 3 years.
- The construction of plant buildings and other capital goods.
- Work-related travel by staff; and travel to and from work by staff.
- · Research and development activities.

#### 3.3. Declared unit

The declared unit is one tonne of the EASYCONNECT® mesh tray, including its transport packaging.

#### 3.4. Allocation criteria

According to the PCR criteria:

- Where possible, the product system has been extended to avoid the allocation of environmental impacts from multi-output unit processes.
- Where it has not possible to avoid allocation, a mass-based allocation of the system's inputs and outputs has been applied.

It was not necessary to apply economic allocation criteria.

#### 3.5. Cut .of rule

In accordance with the PCR criteria, the gross weight/volume of all materials used in the manufacturing process has been included in the LCA, thus ensuring that at least 99% of the weight of the product unit has been obtained.

No material or energy consumption has been excluded.

## 3.6. Data representativeness, quality and selection

In order to model the manufacturing process for EASYCONNECT® cable trays, the production data from VALDINOX's

factory in Cantabria between May 2022 and April 2023 was used, a period considered representative of average production. The following data was obtained from this factory: consumption of materials and energy; distances from suppliers and waste generation and management.





Where necessary, the Ecoinvent 3.9.1 database (January 2023) has been used, which was the latest version available at the time of the LCA. For the inventory data, to model the LCA and calculate the environmental impact of the categories required by the Product Category Rule, the software SimaPro 9.5.0.0.0 has been used, the most up-to-date version available at the time of the study.

The following criteria were used to select the most representative processes:

- Data should be representative of the technological development actually applied to the manufacturing processes. Where no information was available, data representative of average technology was chosen.
- Geographic data should be as localised as possible and, where appropriate, based on regional averages.
- The data should be as up-to-date as possible.

The semi-quantitative data quality assessment criteria recommended by the European Union in its Guide to Product and Organisation Environmental Footprints are used to assess the quality of the primary data on the production of the products being assessed.

The results obtained were as follows:

- Very good completeness. Score 1.
- Good methodological appropriateness and consistency. Score 2.
- Very good time-related representativeness Score 1.
- Very good technological representativeness Score 1.
- Very good geographical representativeness Score 1.
- Very low data uncertainty. Score 1.

Based on the above data, the Data Quality Rating (DQR) is as follows: 7/6= 1.17, indicating that the quality of the data is excellent.

For a better understanding of the data quality assessment carried out, note that the score for each of the criteria ranges from 1 to 5 (the lower the score, the higher the quality) and the following table is used to determine the final score:

Overall data quality rating (DQR)	Overall data quality level
≤ 1,6	Excellent quality
1,6 a 2,0	Very Good quality
2,0 a 3,0	Good quality
3 a 4,0	Reasonable quality
> 4	Insufficient quality





## 4. System boundaries, scenarios and additional technical information

The analysis of the product system in the Life Cycle Assessment of EASYCONNECT® mesh cable trays is from cradle to grave with module D. The following production stages were analysed:

#### A1 module: Raw material production

This module includes the raw material production process, which covers:

Resource extraction and production of raw materials.

Transport of raw materials to processing/production plants.

Energy and fuel consumption during the production of raw materials.

Consumption of other resources (e.g. water) during the production of raw materials.

The generation of waste and air emissions and discharges to water and soil during the production of raw materials.

The production of electricity used in the manufacturing process.

#### A2 module: Transport

We included the transport by lorry of all raw materials from the production sites (suppliers) to VALDINOX's facilities in San Mamés de Meruelo. The transport distances for the raw materials were provided by the plant operators with knowledge of the location of the plant and their suppliers' facilities.

This stage includes forklift operations in the plant and the internal transportation of materials and transport of trays to and from the plants where they receive the surface treatment (galvanising and pickling).

#### A3 module: Manufacturing

In this stage, we included the consumption of auxiliary materials for production and the surface treatments carried out on the steel; the production of the packaging necessary to distribute the product to customers and transport it to the plant; and transportation of the waste generated during this stage of the life cycle to the waste management company. The transport distances of the waste were provided by the plant operators with knowledge of the location of the facilities of their waste management companies.

#### A4 module: Transport to the place of use

We examined the transport of the finished product from the VALDINOX plant in San Mamés de Meruelo to the customer, with data from the period in question (May 2022 - April 2023), distinguishing between the means of transport used: EURO 5 lorry, EURO 6 lorry or ship.Tabla 4-1. Parámetros del módulo A4





Table 3-3. Parameters of the A5 module

Parameter	Quality (per declared unit)
Litres of diesel: - EURO 5 lorry (MAM 15.79 t) - EURO 6 lorry (MAM 15.79 t) Ship	0,0451 l/tkm 0,0442 l/tkm 0,0026 l/tkm
Average distance - EZ galvanised tray - EURO 5 lorry - EURO 6 lorry Ship	810 km 1.282 km 2.622 km
Average distance - HDG galvanised tray - EURO 5 lorry - EURO 6 lorry Ship	1.287 km 1.282 km 1.365 km
Average distance - stainless steel tray - EURO 5 lorry - EURO 6 lorry Ship	941 km 1.282 km 3.905 km
Occupancy rate (including when empty on return)	50 %
Bulk density of transported products	-
Useful capacity factor	-

#### A5 module: Installation

We considered the installation of three tray formats, each determining the weight of the bracket used to support them:

Table 3- 2. Average size/weight ratio

Tray type	Tray weight (kg)	Bracket weight per 1.5m of tray (kg)
Small	1,5 kg	0,2 kg
Medium	6 kg	0,6 kg
Large	12 kg	0,8 kg

This phase includes the inputs and outputs associated with the installation of a 1.5 metre long tray (1 bracket):

- Production of the auxiliary materials for installation: screws (2 x 0.08 kg per 1.5 m of tray) and steel brackets (1 per 1.5 m of tray).
- 18 V drill/screwdriver operation, 1 minute per screw.
- Transport and management of the packaging waste generated: plastic, paper and wood (it is estimated that 80% of the wood used as shipping packaging is suitable for reuse). It is estimated that tray packaging waste is transported an average distance of 50 km to the nearest waste management (recycling) site by 16-32 tonne EURO 5 lorries.

Table 3- 3. Parameters of the A5 module

Parameter	Quantity (per
	declared unit)
Auxiliary materials for installation (for 1.5 m of tray):	
- Screws Bracket	0,16 kg
(small/medium/large tray)	0,2 / 0,6 / 0,8 kg
Water usage	
	0.16 kg
	0.2 / 0.6 / 0.8 kg
Use of other resources	-
Energy (national mix 2022)	-
Material waste on site prior to waste processing, generated by installation of the product	0.0054 kWh
Output of materials as a result of waste processing on the building site	4.092 kg of plastic 36.477 kg of wood 0.116 kg of paper
Direct emissions to ambient air, soil and water	29,181 kg for reuse 11,503 kg for recycling 0 kg for energy recovery 0 kg for disposal





#### Modules B1-B7 - Use

The manufacturer declares that, under normal conditions of use and when correctly installed, the products manufactured by VALDINOX do not require any consumption of material or energy during this stage.

#### Module C1 - Deconstruction/demolition

In the LCA it has been assumed that electrical machinery similar to that used during installation is used during the process of deconstructing and disassembling the product.

## C2 module: Transport to the waste processing/recovery site

At the end of its service life, the product being assessed is estimated to be transported an average distance of 50 km by road to the nearest waste management facility, using 16-32 tonne EURO 5 lorries.

## Module C3 - Waste processing and Module C4 - Waste disposal

According to the envisaged waste scenario, the steel tray is sent to be recycled so that steel can be obtained as a secondary material.

Table 4-2. Parameters of the C1-C4 module

Parameter	Value (per declared unit)
Demolition	it has been assumed that electrical machinery similar to that used during installation is used during the process of deconstructing and disassembling the product: 0.162 kWh
Recovery system,	0 kg for reuse.
by type	1,000 kg for recycling.
	0 kg for energy recovery.
Disposal, by type	0 kg for final disposal (landfill):
Scenario development assumptions (transport)	Transport of waste by 16-32 tonne EURO 5 lorries:  - Average distance of 50 km from the construction site to the waste management facilities.







Table 4-3. Stages and information modules for the building assessment. Building life cycle.

#### Information about the building's life cycle.

Additional information

A <sup>'</sup>	1 to :	3	A4 ·	- A5			B1 to				C1		D							
Pro sta	duct ge		Consti proces stage	ruction	Use stages End of life stage						Use stages End of life stage									
<b>A</b> 1	A2	А3	A4	A5	B1 B2 B3 B4 B5			C1	C2	C3	C4	D								
Х	Х	Х	Х	Х	X	Х	X	X	Х	Х	X	X	Х	х						
Raw material supply	Transport	Manufacturing	Transport	Construction/installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Deconstruction, demolition	Transport	Waste processing	Waste disposal	Reuse, recovery and recycling potential						

Scen- Scen-

X: Module evaluated

**MNE**: Module not evaluated

**B6** Operational energy use

Scenario → X¶

**B7** Operational water use

Scenario → X¶





#### 5. Declaration of LCA and LCIE environmental parameters

#### Environmental impact parameters for 1 tonne of EASYCONNECT® wire mesh cable tray

Table 5-1. Environmental impact parameters defined in standard UNE-EN 15804

	EZ carbon steel tray Declared unit: 1 tonne														
Parameter	A1	A2	А3	A4	A5 (1)	A5 (2)	A5 (3)	B1- B7	C1 (1)	C1 (2)	C1 (3)	C2	C3	C4	D
GWP-total	7,36E+02	1,86E+02	6,13E+02	1,50E+02	2,72E+02	3,78E+02	1,44E+03	0	1,77E-01	3,54E-01	1,42E+00	7,64E+00	0	0	0
GWP-fossil	7,30E+02	1,86E+02	6,08E+02	1,50E+02	2,71E+02	3,76E+02	1,44E+03	0	1,77E-01	3,54E-01	1,42E+00	7,64E+00	0	0	0
GWP-biogenic	5,12E+00	1,10E-02	2,72E+00	8,64E-03	5,93E-01	6,93E-01	9,86E-01	0	3,83E-05	7,67E-05	3,07E-04	4,51E-04	0	0	0
GWP-luluc	1,40E+00	4,01E-03	1,56E+00	3,22E-03	1,02E+00	1,09E+00	1,26E+00	0	1,03E-05	2,07E-05	8,27E-05	1,50E-04	0	0	0
ODP	1,82E-05	3,92E-06	2,49E-05	3,10E-06	1,37E-05	1,55E-05	3,43E-05	0	4,74E-09	9,47E-09	3,79E-08	1,65E-07	0	0	0
AP	2,36E+00	4,23E-01	4,94E+00	9,59E-01	1,42E+00	1,88E+00	6,73E+00	0	4,81E-04	9,63E-04	3,85E-03	1,99E-02	0	0	0
EP-freshwater	3,30E-02	1,47E-04	4,51E-02	1,16E-04	2,14E-02	2,78E-02	4,38E-02	0	2,53E-06	5,06E-06	2,02E-05	6,00E-06	0	0	0
EP-marine	5,41E-01	1,54E-01	9,61E-01	2,81E-01	3,51E-01	4,48E-01	2,50E+00	0	1,03E-04	2,07E-04	8,28E-04	7,78E-03	0	0	0
EP-terrestrial	5,49E+00	1,62E+00	1,19E+01	3,05E+00	3,87E+00	4,92E+00	2,71E+01	0	1,13E-03	2,26E-03	9,06E-03	8,24E-02	0	0	0
POFP	2,60E+00	7,09E-01	3,06E+00	9,87E-01	1,59E+00	2,08E+00	1,18E+01	0	4,69E-04	9,39E-04	3,76E-03	3,21E-02	0	0	0
ADP- minerals&metals	1,71E-03	6,56E-06	2,02E-01	4,70E-06	9,48E-04	1,48E-03	2,77E-03	0	1,49E-08	2,98E-08	1,19E-07	2,64E-07	0	0	0
ADP-fossil <sup>2</sup>	8,83E+03	2,46E+03	7,25E+03	1,96E+03	3,05E+03	4,11E+03	1,62E+04	0	2,50E+00	5,00E+00	2,00E+01	1,01E+02	0	0	0
WDP	2,55E+02	2,33E+00	4,27E+02	1,78E+00	1,07E+02	1,38E+02	2,23E+02	0	5,61E-02	1,12E-01	4,49E-01	9,21E-02	0	0	0

GWP - total (kg CO<sub>2</sub> eq): Global warming potential; GWP - fossil (kg CO<sub>2</sub> eq): Global warming potential of fossil fuels; GWP - biogenic (kg CO<sub>2</sub> eq): Global warming potential - biogenic; GWP - luluc (kg CO<sub>2</sub> eq): Global warming potential - land use and land use change; ODP (kg CFC-11 eq): Stratospheric ozone depletion potential; AP (mol H+ eq): Acidification potential, accumulated exceedance; EP-freshwater (kg P eq): Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial (mol N eq): Eutrophication potential, accumulated exceedance; POFP (kg NMVOC eq): Photochemical ozone creation potential; ADP-minerals&metals (kg Sb eq): Abiotic depletion potential for non-fossil resources; ADP-fossil (MJ, NCV): Abiotic depletion potential for fossil resources; WDP (m³ eq): Water (user) deprivation potential, deprivation-weighted water consumption





Table 4-2. Additional environmental impact parameters defined in standard UNE-EN 15804.

	EZ carbon steel tray Declared unit: 1 tonne														
Parameter	A1	A2	А3	A4	A5 (1)	A5 (2)	A5 (3)	B1- B7	C1 (1)	C1 (2)	C1 (3)	C2	СЗ	C4	D
PM	4,36E-05	1,50E-05	3,11E-05	9,03E-06	4,61E-05	5,46E-05	1,73E-04	0	1,07E-09	2,14E-09	8,57E-09	5,10E-07	0	0	0
IRP <sup>1</sup>	4,06E+01	3,84E-01	4,29E+01	3,01E-01	1,25E+01	1,41E+01	1,96E+01	0	5,24E-02	1,05E-01	4,19E-01	1,62E-02	0	0	0
ETP-fw <sup>2</sup>	2,75E+03	1,11E+03	5,76E+04	8,84E+02	1,34E+03	1,88E+03	7,19E+03	0	2,76E-01	5,52E-01	2,21E+00	4,50E+01	0	0	0
HTP-c <sup>2</sup>	3,43E-06	1,20E-08	2,78E-06	1,19E-08	1,63E-06	2,43E-06	4,39E-06	0	1,08E-11	2,16E-11	8,63E-11	5,28E-10	0	0	0
HTP-nc <sup>2</sup>	5,81E-06	1,22E-06	6,52E-05	9,64E-07	4,34E-06	6,37E-06	1,27E-05	0	6,10E-10	1,22E-09	4,88E-09	5,39E-08	0	0	0
SQP <sup>2</sup>	2,34E+03	4,70E+00	8,05E+03	3,62E+00	7,65E+04	7,67E+04	7,71E+04	0	1,64E-01	3,29E-01	1,31E+00	1,93E-01	0	0	0

PM (incidence of disease): Disease incidence potential due to particulate matter emissions; IRP (kBq U235 eq): Potential human exposure efficiency relative to U235; ETP-fw (CTUe): Comparative toxic unit potential for ecosystems - freshwater; HTP-c (CTUh): Comparative toxic unit potential for ecosystems - ocarcinogenic effects; SQP (Pt): Soil quality potential index.

(1) Small tray; (2) Medium tray; (3) Large tray

Note 1. This impact category mainly refers to the potential impacts on human health of low doses of ionising radiation from the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents and occupational exposure resulting from the disposal of radioactive waste in underground facilities. The ionising radiation potential in soil, due to radon or some building materials is also not measured in this parameter.

Note 2. The results of this environmental impact indicator should be used with caution as there is a high level of uncertainty regarding the results and limited experience with this parameter.





Table 4-3. Environmental impact parameters defined in standard UNE-EN 15804

	HDG carbon steel tray Declared unit: 1 tonne														
Parameter	<b>A</b> 1	A2	А3	A4	A5 (1)	A5 (2)	A5 (3)	B1- B7	C1 (1)	C1 (2)	C1 (3)	C2	СЗ	C4	D
GWP-total	7,36E+02	1,86E+02	6,13E+02	1,98E+02	2,72E+02	3,78E+02	1,44E+03	0	1,77E-01	3,54E-01	1,42E+00	7,64E+00	0	0	0
GWP-fossil	7,30E+02	1,86E+02	6,08E+02	1,98E+02	2,71E+02	3,76E+02	1,44E+03	0	1,77E-01	3,54E-01	1,42E+00	7,64E+00	0	0	0
GWP-biogenic	5,12E+00	1,10E-02	2,72E+00	1,17E-02	5,93E-01	6,93E-01	9,86E-01	0	3,83E-05	7,67E-05	3,07E-04	4,51E-04	0	0	0
GWP-luluc	1,40E+00	4,01E-03	1,56E+00	3,91E-03	1,02E+00	1,09E+00	1,26E+00	0	1,03E-05	2,07E-05	8,27E-05	1,50E-04	0	0	0
ODP	1,82E-05	3,92E-06	2,49E-05	4,26E-06	1,37E-05	1,55E-05	3,43E-05	0	4,74E-09	9,47E-09	3,79E-08	1,65E-07	0	0	0
AP	2,36E+00	4,23E-01	4,94E+00	5,34E-01	1,42E+00	1,88E+00	6,73E+00	0	4,81E-04	9,63E-04	3,85E-03	1,99E-02	0	0	0
EP-freshwater	3,30E-02	1,47E-04	4,51E-02	1,55E-04	2,14E-02	2,78E-02	4,38E-02	0	2,53E-06	5,06E-06	2,02E-05	6,00E-06	0	0	0
EP-marine	5,41E-01	1,54E-01	9,61E-01	1,91E-01	3,51E-01	4,48E-01	2,50E+00	0	1,03E-04	2,07E-04	8,28E-04	7,78E-03	0	0	0
EP-terrestrial	5,49E+00	1,62E+00	1,19E+01	2,02E+00	3,87E+00	4,92E+00	2,71E+01	0	1,13E-03	2,26E-03	9,06E-03	8,24E-02	0	0	0
POFP	2,60E+00	7,09E-01	3,06E+00	8,07E-01	1,59E+00	2,08E+00	1,18E+01	0	4,69E-04	9,39E-04	3,76E-03	3,21E-02	0	0	0
ADP- minerals&metals	1,71E-03	6,56E-06	2,02E-01	6,79E-06	9,48E-04	1,48E-03	2,77E-03	0	1,49E-08	2,98E-08	1,19E-07	2,64E-07	0	0	0
ADP-fossil <sup>2</sup>	8,83E+03	2,46E+03	7,24E+03	2,61E+03	3,05E+03	4,11E+03	1,62E+04	0	2,50E+00	5,00E+00	2,00E+01	1,01E+02	0	0	0
WDP	2,55E+02	2,33E+00	4,27E+02	2,39E+00	1,07E+02	1,38E+02	2,23E+02	0	5,61E-02	1,12E-01	4,49E-01	9,21E-02	0	0	0

GWP - total (kg CO<sub>2</sub> eq): Global warming potential; GWP - fossil (kg CO<sub>2</sub> eq): Global warming potential - biogenic; GWP - luluc (kg CO<sub>2</sub> eq): Global warming potential - land use and land use change; ODP (kg CFC-11 eq): Stratospheric ozone depletion potential; AP (mol H+ eq): Acidification potential, accumulated exceedance; EP-freshwater (kg P eq): Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine (kg N eq): Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial (mol N eq): Eutrophication potential, accumulated exceedance; POFP (kg NMVOC eq): Photochemical ozone creation potential; ADP-minerals&metals (kg Sb eq): Abiotic depletion potential for non-fossil resources; ADP-fossil (MJ, NCV): Abiotic depletion potential for fossil resources; WDP (m³ eq): Water (user) deprivation potential, deprivation-weighted water consumption.





Table 4-4. Additional environmental impact parameters defined in standard UNE-EN 15804.

						OG carbon seclared unit:	•								
Parameter	A1	A2	А3	A4	A5 (1)	A5 (2)	A5 (3)	B1- B7	C1 (1)	C1 (2)	C1 (3)	C2	СЗ	C4	D
PM	4,36E-05	1,50E-05	3,11E-05	1,29E-05	4,61E-05	5,46E-05	1,73E-04	0	1,07E-09	2,14E-09	8,57E-09	5,10E-07	0	0	0
IRP <sup>1</sup>	4,06E+01	3,84E-01	4,29E+01	4,17E-01	1,25E+01	1,41E+01	1,96E+01	0	5,24E-02	1,05E-01	4,19E-01	1,62E-02	0	0	0
ETP-fw <sup>2</sup>	2,75E+03	1,11E+03	5,76E+04	1,17E+03	1,34E+03	1,88E+03	7,19E+03	0	2,76E-01	5,52E-01	2,21E+00	4,50E+01	0	0	0
HTP-c <sup>2</sup>	3,43E-06	1,20E-08	2,78E-06	1,37E-08	1,63E-06	2,43E-06	4,39E-06	0	1,08E-11	2,16E-11	8,63E-11	5,28E-10	0	0	0
HTP-nc <sup>2</sup>	5,81E-06	1,22E-06	6,52E-05	1,39E-06	4,34E-06	6,37E-06	1,27E-05	0	6,10E-10	1,22E-09	4,88E-09	5,39E-08	0	0	0
SQP <sup>2</sup>	2,34E+03	4,70E+00	8,05E+03	4,98E+00	7,65E+04	7,67E+04	7,71E+04	0	1,64E-01	3,29E-01	1,31E+00	1,93E-01	0	0	0

PM (incidence of disease): Disease incidence potential due to particulate matter emissions; IRP (kBq U235 eq): Potential human exposure efficiency relative to U235; ETP-fw (CTUe): Comparative toxic unit potential for ecosystems - freshwater; HTP-c (CTUh): Comparative toxic unit potential for ecosystems - carcinogenic effects; HTP-nc (CTUh): Comparative toxic unit potential for ecosystems - no carcinogenic effects; SQP (Pt): Soil quality potential index.

(1) Small tray; (2) Medium tray; (3) Large tray

Note 1. This impact category mainly refers to the potential impacts on human health of low doses of ionising radiation from the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents and occupational exposure resulting from the disposal of radioactive waste in underground facilities. The ionising radiation potential in soil, due to radon or some building materials is also not measured in this parameter.

Note 2. The results of this environmental impact indicator should be used with caution as there is a high level of uncertainty regarding the results and limited experience with this parameter.





Table 4-5. Environmental impact parameters defined in standard UNE-EN 15804

						ainless stee lared unit: 1									
Parameter	A1	A2	А3	A4	A5 (1)	A5 (2)	A5 (3)	B1- B7	C1 (1)	C1 (2)	C1 (3)	C2	СЗ	C4	D
GWP-total	4,61E+03	3,85E+02	2,16E+01	1,67E+02	2,72E+02	3,78E+02	1,44E+03	0	1,77E-01	3,54E-01	1,42E+00	7,64E+00	0	0	0
GWP-fossil	4,60E+03	3,85E+02	2,14E+01	1,67E+02	2,71E+02	3,76E+02	1,44E+03	0	1,77E-01	3,54E-01	1,42E+00	7,64E+00	0	0	0
GWP-biogenic	7,11E+00	2,28E-02	1,32E-01	9,77E-03	5,93E-01	6,93E-01	9,86E-01	0	3,83E-05	7,67E-05	3,07E-04	4,51E-04	0	0	0
GWP-luluc	4,74E+00	7,91E-03	7,19E-02	3,42E-03	1,02E+00	1,09E+00	1,26E+00	0	1,03E-05	2,07E-05	8,27E-05	1,50E-04	0	0	0
ODP	5,09E-05	8,23E-06	4,16E-07	3,54E-06	1,37E-05	1,55E-05	3,43E-05	0	4,74E-09	9,47E-09	3,79E-08	1,65E-07	0	0	0
AP	2,46E+01	9,27E-01	1,01E-01	6,66E-01	1,42E+00	1,88E+00	6,73E+00	0	4,81E-04	9,63E-04	3,85E-03	1,99E-02	0	0	0
EP-freshwater	1,95E-01	3,04E-04	3,88E-03	1,31E-04	2,14E-02	2,78E-02	4,38E-02	0	2,53E-06	5,06E-06	2,02E-05	6,00E-06	0	0	0
EP-marine	4,09E+00	3,49E-01	5,20E-02	2,05E-01	3,51E-01	4,48E-01	2,50E+00	0	1,03E-04	2,07E-04	8,28E-04	7,78E-03	0	0	0
EP-terrestrial	4,59E+01	3,68E+00	2,92E-01	2,20E+00	3,87E+00	4,92E+00	2,71E+01	0	1,13E-03	2,26E-03	9,06E-03	8,24E-02	0	0	0
POFP	1,64E+01	1,53E+00	1,31E-01	8,04E-01	1,59E+00	2,08E+00	1,18E+01	0	4,69E-04	9,39E-04	3,76E-03	3,21E-02	0	0	0
ADP- minerals&metals	1,09E-01	1,35E-05	1,05E-05	5,53E-06	9,48E-04	1,48E-03	2,77E-03	0	1,49E-08	2,98E-08	1,19E-07	2,64E-07	0	0	0
ADP-fossil <sup>2</sup>	4,60E+04	5,09E+03	4,69E+02	2,20E+03	3,05E+03	4,11E+03	1,62E+04	0	2,50E+00	5,00E+00	2,00E+01	1,01E+02	0	0	0
ADP	1,73E+03	4,73E+00	1,66E+01	2,00E+00	1,07E+02	1,38E+02	2,23E+02	0	5,61E-02	1,12E-01	4,49E-01	9,21E-02	0	0	0

GWP - total (kg CO<sub>2</sub> eq): Global warming potential; GWP - fossil (kg CO<sub>2</sub> eq): Global warming potential - biogenic; GWP - luluc (kg CO<sub>2</sub> eq): Global warming potential - land use and land use change; ODP (kg CFC-11 eq): Stratospheric ozone depletion potential; AP (mol H+ eq): Acidification potential, accumulated exceedance; EP-freshwater (kg P eq): Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine (kg N eq): Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial (mol N eq): Eutrophication potential, accumulated exceedance; POFP (kg NMVOC eq): Photochemical ozone creation potential; ADP-minerals&metals (kg Sb eq): Abiotic depletion potential for non-fossil resources; ADP-fossil (MJ, NCV): Abiotic depletion potential for fossil resources; WDP (m³ eq): Water (user) deprivation potential, deprivation-weighted water consumption.





Table 4-6. Additional environmental impact parameters defined in standard UNE-EN 15804.

						Z carbon st clared unit:	_								
Parameter	A1	A2	А3	A4	A5 (1)	A5 (2)	A5 (3)	B1- B7	C1 (1)	C1 (2)	C1 (3)	C2	СЗ	C4	D
PM	3,59E-04	2,83E-05	1,45E-06	1,04E-05	4,61E-05	5,46E-05	1,73E-04	0	1,07E-09	2,14E-09	8,57E-09	5,10E-07	0	0	0
IRP <sup>1</sup>	1,74E+02	8,06E-01	7,97E-01	3,45E-01	1,25E+01	1,41E+01	1,96E+01	0	5,24E-02	1,05E-01	4,19E-01	1,62E-02	0	0	0
ETP-fw <sup>2</sup>	1,62E+04	2,28E+03	2,30E+02	9,86E+02	1,34E+03	1,88E+03	7,19E+03	0	2,76E-01	5,52E-01	2,21E+00	4,50E+01	0	0	0
HTP-c <sup>2</sup>	3,21E-05	2,58E-08	7,48E-08	1,21E-08	1,63E-06	2,43E-06	4,39E-06	0	1,08E-11	2,16E-11	8,63E-11	5,28E-10	0	0	0
HTP-nc <sup>2</sup>	9,55E-05	2,63E-06	2,23E-07	1,13E-06	4,34E-06	6,37E-06	1,27E-05	0	6,10E-10	1,22E-09	4,88E-09	5,39E-08	0	0	0
SQP <sup>2</sup>	1,40E+04	9,73E+00	5,20E+03	4,14E+00	7,65E+04	7,67E+04	7,71E+04	0	1,64E-01	3,29E-01	1,31E+00	1,93E-01	0	0	0

**PM** (incidence of disease): Disease incidence potential due to particulate matter emissions; **IRP** (**kBq U235 eq**): Potential human exposure efficiency relative to U235; **ETP-fw** (**CTUe**): Comparative toxic unit potential for ecosystems - carcinogenic effects; **HTP-nc** (**CTUh**): Comparative toxic unit potential for ecosystems - no carcinogenic effects; **SQP** (**Pt**): Soil quality potential index.

(1) Small tray; (2) Medium tray; (3) Large tray

Note 1. This impact category mainly refers to the potential impacts on human health of low doses of ionising radiation from the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents and occupational exposure resulting from the disposal of radioactive waste in underground facilities. The ionising radiation potential in soil, due to radon or some building materials is also not measured in this parameter.

Note 2. The results of this environmental impact indicator should be used with caution as there is a high level of uncertainty regarding the results and limited experience with this parameter.





#### 1.1. Use of resources for 1 tonne of EASYCONNECT® mesh cable tray

**Table 4-7** Parameters detailing the use of resources.

						EZ carbon Declared un									
Parameter	<b>A</b> 1	A2	А3	A4	A5 (1)	A5 (2)	A5 (3)	B1- B7	C1 (1)	C1 (2)	C1 (3)	C2	С3	C4	D
PERE	1,34E+03	6,35E+00	2,04E+03	4,94E+00	1,45E+04	1,46E+04	1,49E+04	0	1,03E-01	2,07E-01	8,27E-01	2,67E-01	0	0	0
PERM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERT	1,34E+03	6,35E+00	2,04E+03	4,94E+00	1,45E+04	1,46E+04	1,49E+04	0	1,03E-01	2,07E-01	8,27E-01	2,67E-01	0	0	0
PENRE	2,51E+01	8,79E-04	3,25E-01	6,35E-04	1,20E+00	1,29E+00	1,52E+00	0	4,40E-06	8,79E-06	3,52E-05	1,11E-05	0	0	0
PENRM	1,05E+04	2,47E+03	8,91E+03	1,97E+03	3,59E+03	4,72E+03	1,70E+04	0	4,88E+00	9,76E+00	3,91E+01	1,02E+02	0	0	0
PENRT	1,05E+04	2,47E+03	8,91E+03	1,97E+03	3,59E+03	4,72E+03	1,70E+04	0	4,88E+00	9,76E+00	3,91E+01	1,02E+02	0	0	0
SM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	7,46E+00	1,06E-01	1,39E+01	8,18E-02	3,53E+00	4,49E+00	8,08E+00	0	1,03E-03	2,07E-03	8,27E-03	4,26E-03	0	0	0

PERE (MJ, NCV): Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM (MJ, NCV): Use of renewable primary energy resources used as raw materials; PERT (MJ, NCV): Total use of renewable primary energy resources; PENRE (MJ, NCV): Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM (MJ, NCV): Use of non-renewable primary energy resources used as raw materials; PENRT (MJ, NCV): Total use of non-renewable primary energy resources; SM (kg): Use of secondary materials; RSF (MJ, NCV): Use of renewable secondary fuels; NRSF (MJ, NCV): Use of non-renewable secondary fuels; FW (m³): Net freshwater use.





Table 5-2 Parameters detailing the use of resources.

						DG carbon eclared unit	•								
Parameter	<b>A</b> 1	A2	А3	A4	A5 (1)	A5 (2)	A5 (3)	B1- B7	C1 (1)	C1 (2)	C1 (3)	C2	СЗ	C4	D
PERE	1,34E+03	6,35E+00	2,04E+03	6,88E+00	1,45E+04	1,46E+04	1,49E+04	0	1,03E-01	2,07E-01	8,27E-01	2,67E-01	0	0	0
PERM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERT	1,34E+03	6,35E+00	2,04E+03	6,88E+00	1,45E+04	1,46E+04	1,49E+04	0	1,03E-01	2,07E-01	8,27E-01	2,67E-01	0	0	0
PENRE	2,51E+01	8,79E-04	3,25E-01	3,37E-04	1,20E+00	1,29E+00	1,52E+00	0	4,40E-06	8,79E-06	3,52E-05	1,11E-05	0	0	0
PENRM	1,05E+04	2,47E+03	8,91E+03	2,63E+03	3,59E+03	4,72E+03	1,70E+04	0	4,88E+00	9,76E+00	3,91E+01	1,02E+02	0	0	0
PENRT	1,05E+04	2,47E+03	8,91E+03	2,63E+03	3,59E+03	4,72E+03	1,70E+04	0	4,88E+00	9,76E+00	3,91E+01	1,02E+02	0	0	0
SM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	7,46E+00	1,06E-01	1,39E+01	1,10E-01	3,53E+00	4,49E+00	8,08E+00	0	1,03E-03	2,07E-03	8,27E-03	4,26E-03	0	0	0

PERE (MJ, NCV): Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM (MJ, NCV): Use of renewable primary energy resources used as raw materials; PERT (MJ, NCV): Total use of renewable primary energy resources; PENRE (MJ, NCV): Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM (MJ, NCV): Use of non-renewable primary energy resources used as raw materials; PENRT (MJ, NCV): Total use of non-renewable primary energy resources; SM (kg): Use of secondary materials; RSF (MJ, NCV): Use of renewable secondary fuels; NRSF (MJ, NCV): Use of non-renewable secondary fuels; FW (m³): Net freshwater use.





Table 5-3 Parameters detailing the use of resources.

						•	o inoxidable a: 1 tonelada								
Parameter	<b>A</b> 1	A2	А3	A4	A5 (1)	A5 (2)	A5 (3)	B1- B7	C1 (1)	C1 (2)	C1 (3)	C2	СЗ	C4	D
PERE	1,31E+04	1,33E+01	9,76E+02	5,69E+00	1,45E+04	1,46E+04	1,49E+04	0	1,03E-01	2,07E-01	8,27E-01	2,67E-01	0	0	0
PERM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERT	1,31E+04	1,33E+01	9,76E+02	5,69E+00	1,45E+04	1,46E+04	1,49E+04	0	1,03E-01	2,07E-01	8,27E-01	2,67E-01	0	0	0
PENRE	1,44E+00	1,17E-03	5,76E-02	4,55E-04	1,20E+00	1,29E+00	1,52E+00	0	4,40E-06	8,79E-06	3,52E-05	1,11E-05	0	0	0
PENRM	5,41E+04	5,12E+03	5,18E+02	2,21E+03	3,59E+03	4,72E+03	1,70E+04	0	4,88E+00	9,76E+00	3,91E+01	1,02E+02	0	0	0
PENRT	5,41E+04	5,12E+03	5,18E+02	2,21E+03	3,59E+03	4,72E+03	1,70E+04	0	4,88E+00	9,76E+00	3,91E+01	1,02E+02	0	0	0
SM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	4,99E+01	2,17E-01	3,90E-01	9,23E-02	3,53E+00	4,49E+00	8,08E+00	0	1,03E-03	2,07E-03	8,27E-03	4,26E-03	0	0	0

PERE (MJ, NCV): Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM (MJ, NCV): Use of renewable primary energy resources used as raw materials; PERT (MJ, NCV): Total use of renewable primary energy resources; PENRE (MJ, NCV): Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM (MJ, NCV): Use of non-renewable primary energy resources used as raw materials; PENRT (MJ, NCV): Total use of non-renewable primary energy resources; SM (kg): Use of secondary materials; RSF (MJ, NCV): Use of renewable secondary fuels; NRSF (MJ, NCV): Use of non-renewable secondary fuels; FW (m³): Net freshwater use.





#### Categories of waste for 1 tonne of EASYCONNECT® mesh cable tray

Tabla 5-4 Parameters detailing waste generation.

						EZ carbon Declared un									
Parameter	<b>A</b> 1	A2	А3	A4	A5 (1)	A5 (2)	A5 (3)	B1- B7	C1 (1)	C1 (2)	C1 (3)	C2	СЗ	C4	D
HWD	4,48E-02	1,63E-02	1,21E+00	1,25E-02	1,51E-02	2,25E-02	8,05E-02	0	9,58E-06	1,92E-05	7,66E-05	6,70E-04	0	0	0
NHWD	1,71E+02	1,28E-01	9,15E+01	1,00E-01	7,01E+01	1,09E+02	2,04E+02	0	2,44E-03	4,88E-03	1,95E-02	5,01E-03	0	0	0
RWD	2,41E-02	2,04E-04	2,73E-02	1,58E-04	1,12E-02	1,23E-02	1,57E-02	0	3,35E-05	6,69E-05	2,68E-04	8,71E-06	0	0	0

HWD (kg): Hazardous waste disposed; NHWD (kg): Non-hazardous waste disposed; RWD (kg): Radioactive waste disposed.

Tabla 5-5 Parameters detailing waste generation.

					-	·	al carbono - da: 1 tonelad								
Parameter	В7 - С7 -														
HWD	4,48E-02	1,63E-02	1,21E+00	1,73E-02	1,51E-02	2,25E-02	8,05E-02	0	9,58E-06	1,92E-05	7,66E-05	6,70E-04	0	0	0
NHWD	1,71E+02	1,28E-01	9,15E+01	1,30E-01	7,01E+01	1,09E+02	2,04E+02	0	2,44E-03	4,88E-03	1,95E-02	5,01E-03	0	0	0
RWD	2,41E-02	2,04E-04	2,73E-02	2,24E-04	1,12E-02	1,23E-02	1,57E-02	0	3,35E-05	6,69E-05	2,68E-04	8,71E-06	0	0	0

HWD (kg): Hazardous waste disposed; NHWD (kg): Non-hazardous waste disposed; RWD (kg): Radioactive waste disposed.

**Table 4-12** Parameters detailing waste generation.

						Stainless s Declared un	_								
Parameter	<b>A</b> 1	A2	А3	A4	A5 (1)	A5 (2)	A5 (3)	B1- B7	C1 (1)	C1 (2)	C1 (3)	C2	СЗ	C4	D
HWD	1,03E-01	3,38E-02	8,12E-04	1,44E-02	1,51E-02	2,25E-02	8,05E-02	0	9,58E-06	1,92E-05	7,66E-05	6,70E-04	0	0	0
NHWD	4,97E+03	2,58E-01	1,12E+00	1,10E-01	7,01E+01	1,09E+02	2,04E+02	0	2,44E-03	4,88E-03	1,95E-02	5,01E-03	0	0	0
RWD	1,21E-01	4,31E-04	6,25E-04	1,84E-04	1,12E-02	1,23E-02	1,57E-02	0	3,35E-05	6,69E-05	2,68E-04	8,71E-06	0	0	0

HWD (kg): Hazardous waste disposed; NHWD (kg): Non-hazardous waste disposed; RWD (kg): Radioactive waste disposed.





#### Output flows for 1 tonne of EASYCONNECT® mesh cable tray

**Table 5-6** Parameters detailing output flows.

							n steel tray ınit: 1 tonne								
Parameter	<b>A</b> 1	A2	А3	A4	A5 (1)	A5 (2)	A5 (3)	B1- B7	C1 (1)	C1 (2)	C1 (3)	C2	C3	C4	D
CRU	0	0	0	0	3,01E+01	3,01E+01	3,01E+01	0	0	0	0	0	0	0	0
MFR	0	0	1,02E-02	0	1,19E+01	1,19E+01	1,19E+01	0	0	0	0	0	1,00E+03	0	0
MER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CRU (kg): Components for reuse; MFR (kg): Materials for recycling; MER (kg): Materials for energy recovery; EE (MJ): Exported energy.

(1) Small tray; (2) Medium tray; (3) Large tray

**Table 4-14** Parameters detailing output flows.

							n steel tray nit: 1 tonne								
Parameter	<b>A</b> 1	A2	А3	A4	A5 (1)	A5 (2)	A5 (3)	B1- B7	C1 (1)	C1 (2)	C1 (3)	C2	С3	C4	D
CRU	0	0	0	0	3,01E+01	3,01E+01	3,01E+01	0	0	0	0	0	0	0	0
MFR	0	0	1,02E-02	0	1,19E+01	1,19E+01	1,19E+01	0	0	0	0	0	1,00E+03	0	0
MER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CRU (kg): Components for reuse; MFR (kg): Materials for recycling; MER (kg): Materials for energy recovery; EE (MJ): Exported energy.





Tabla 5-7 Parameters detailing output flows..

							steel tray nit: 1 tonne								
Parameter	<b>A</b> 1	A2	А3	A4	A5 (1)	A5 (2)	A5 (3)	B1- B7	C1 (1)	C1 (2)	C1 (3)	C2	C3	C4	D
CRU	0	0	0	0	3,01E+01	3,01E+01	3,01E+01	0	0	0	0	0	0	0	0
MFR	0	0	1,02E-02	0	1,19E+01	1,19E+01	1,19E+01	0	0	0	0	0	1,00E+03	0	0
MER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CRU (kg): Components for reuse; MFR (kg): Materials for recycling; MER (kg): Materials for energy recovery; EE (MJ): Exported energy.





#### 6. Additional environmental information

#### 6.1. Indoor air emissions

The manufacturer declares that EASYCONNECT® mesh cable trays do not generate emissions into indoor air during their service life.

#### 6.2. Emissions into soil and water

The manufacturer declares that EASYCONNECT® mesh cable trays do not generate emissions into soil or water during their service life.

#### 6.3. Biogenic carbon content

The manufacturer declares that EASYCONNECT® mesh cable trays do not contain materials with biological content.

The biogenic carbon packaging used to distribute VALDINOX's product accounts for 3.648% of the product's weight. Following the guidelines in the reference standard, the declaration of the packaging's biogenic carbon content has been omitted because the weight of biogenic carbon-containing materials in the packaging is less than 5% of the total weight of the product.







#### 6.4. Results of the impact assessment according to standard UNE-EN 50693

This section shows the results of the impact assessment of the life cycle of the trays that were analysed based on standard UNE-EN 50693, Product category rules for life cycle assessments of electrical and electronic products and systems.

#### Potential environmental impacts (UNE-EN 50693)

Bandeja de acero al carbono - EZ  Unidad declarada: 1 tonelada										
Parameter	Unit	FF	FD	FI (1)	FI (2)	FI (3)	FU	FFV (1)	FFV (2)	FFV (3)
GWP-total	kg CO₂ eq	1,54E+03	1,50E+02	2,72E+02	3,78E+02	1,44E+03	0	7,82E+00	7,99E+00	9,06E+00
GWP-fossil	kg CO₂ eq	1,52E+03	1,50E+02	2,71E+02	3,76E+02	1,44E+03	0	7,82E+00	7,99E+00	9,06E+00
GWP-biogenic	kg CO₂ eq	7,85E+00	8,64E-03	5,93E-01	6,93E-01	9,86E-01	0	4,90E-04	5,28E-04	7,58E-04
GWP-luluc	kg CO₂ eq	2,97E+00	3,22E-03	1,02E+00	1,09E+00	1,26E+00	0	1,60E-04	1,70E-04	2,32E-04
ODP	kg CFC11 eq	4,70E-05	3,10E-06	1,37E-05	1,55E-05	3,43E-05	0	1,70E-07	1,74E-07	2,03E-07
HTP-c	CTUh	6,23E-06	1,19E-08	1,63E-06	2,43E-06	4,39E-06	0	5,39E-10	5,50E-10	6,15E-10
HTP-nc	CTUh	7,22E-05	9,64E-07	4,34E-06	6,37E-06	1,27E-05	0	5,45E-08	5,51E-08	5,88E-08
PM	disease inc.	8,97E-05	9,03E-06	4,61E-05	5,46E-05	1,73E-04	0	5,11E-07	5,12E-07	5,19E-07
IRP	kBq U-235 eq	8,39E+01	3,01E-01	1,25E+01	1,41E+01	1,96E+01	0	6,85E-02	1,21E-01	4,35E-01
POCP	kg NMVOC eq	6,38E+00	9,87E-01	1,59E+00	2,08E+00	1,18E+01	0	3,26E-02	3,30E-02	3,59E-02
AP	mol H+ eq	7,73E+00	9,59E-01	1,42E+00	1,88E+00	6,73E+00	0	2,04E-02	2,08E-02	2,37E-02
EP-terrestrial	mol N eq	1,90E+01	3,05E+00	3,87E+00	4,92E+00	2,71E+01	0	8,35E-02	8,46E-02	9,14E-02
EP-freshwater	kg P eq	7,82E-02	1,16E-04	2,14E-02	2,78E-02	4,38E-02	0	8,53E-06	1,11E-05	2,62E-05
EP-marine	kg N eq	1,66E+00	2,81E-01	3,51E-01	4,48E-01	2,50E+00	0	7,89E-03	7,99E-03	8,61E-03
ETP-fw	CTUe	6,15E+04	8,84E+02	1,34E+03	1,88E+03	7,19E+03	0	4,53E+01	4,56E+01	4,73E+01
SQP	Pt	1,04E+04	3,62E+00	7,65E+04	7,67E+04	7,71E+04	0	3,57E-01	5,22E-01	1,51E+00
WDP	m3	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00
ADP-minerals	kg Sb eq	2,03E-01	4,70E-06	9,48E-04	1,48E-03	2,77E-03	0	2,79E-07	2,94E-07	3,83E-07
&metals ADP-fossil	MJ	1,85E+04	1,96E+03	3,05E+03	4,11E+03	1,62E+04	0	1,03E+02	1,06E+02	1,21E+02

**GWP - total**: Global warming potential; **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**: Stratospheric ozone depletion potential; **HTP-c**: Comparative toxic unit potential for ecosystems - carcinogenic effects; **HTP-nc**: Comparative toxic unit potential for ecosystems - no carcinogenic effects; **PM**: Disease incidence potential due to particulate matter emissions; **IRP**: Potential human exposure efficiency relative to U235; **POCP**: Photochemical ozone creation potential; **AP**: Acidification potential, accumulated exceedance; **EP-terrestrial**: Eutrophication 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; **ETP-fw**: Comparative toxic unit potential for ecosystems - freshwater; **SQP**: Soil quality potential index; **WDP**: Water deprivation potential (user), deprivation-weighted water; **ADP-minerals&metals**: Abiotic depletion potential for non-fossil resources; **ADP-fossil**: Abiotic depletion potential for fossil resources





	HDG carbon steel tray Declared unit: 1 tonne										
Parameter	Unit	FF	FD	FI (1)	FI (2)	FI (3)	FU	FFV (1)	FFV (2)	FFV (3)	
GWP-total	kg CO2 eq	1,54E+03	1,98E+02	2,72E+02	3,78E+02	1,44E+03	0	7,82E+00	7,99E+00	9,06E+00	
GWP-fossil	kg CO2 eq	1,52E+03	1,98E+02	2,71E+02	3,76E+02	1,44E+03	0	7,82E+00	7,99E+00	9,06E+00	
GWP-biogenic	kg CO2 eq	7,85E+00	1,17E-02	5,93E-01	6,93E-01	9,86E-01	0	4,90E-04	5,28E-04	7,58E-04	
GWP-luluc	kg CO2 eq	2,97E+00	3,91E-03	1,02E+00	1,09E+00	1,26E+00	0	1,60E-04	1,70E-04	2,32E-04	
ODP	kg CFC11 eq	4,70E-05	4,26E-06	1,37E-05	1,55E-05	3,43E-05	0	1,70E-07	1,74E-07	2,03E-07	
HTP-c	CTUh	6,23E-06	1,37E-08	1,63E-06	2,43E-06	4,39E-06	0	5,39E-10	5,50E-10	6,15E-10	
HTP-nc	CTUh	7,22E-05	1,39E-06	4,34E-06	6,37E-06	1,27E-05	0	5,45E-08	5,51E-08	5,88E-08	
PM	disease inc.	8,97E-05	1,29E-05	4,61E-05	5,46E-05	1,73E-04	0	5,11E-07	5,12E-07	5,19E-07	
IRP	kBq U-235 eq	8,39E+01	4,17E-01	1,25E+01	1,41E+01	1,96E+01	0	6,85E-02	1,21E-01	4,35E-01	
POCP	kg NMVOC eq	6,38E+00	8,07E-01	1,59E+00	2,08E+00	1,18E+01	0	3,26E-02	3,30E-02	3,59E-02	
AP	mol H+ eq	7,73E+00	5,34E-01	1,42E+00	1,88E+00	6,73E+00	0	2,04E-02	2,08E-02	2,37E-02	
EP-terrestrial	mol N eq	1,90E+01	2,02E+00	3,87E+00	4,92E+00	2,71E+01	0	8,35E-02	8,46E-02	9,14E-02	
EP-freshwater	kg P eq	7,82E-02	1,55E-04	2,14E-02	2,78E-02	4,38E-02	0	8,53E-06	1,11E-05	2,62E-05	
EP-marine	kg N eq	1,66E+00	1,91E-01	3,51E-01	4,48E-01	2,50E+00	0	7,89E-03	7,99E-03	8,61E-03	
ETP-fw	CTUe	6,15E+04	1,17E+03	1,34E+03	1,88E+03	7,19E+03	0	4,53E+01	4,56E+01	4,73E+01	
SQP	Pt	1,04E+04	4,98E+00	7,65E+04	7,67E+04	7,71E+04	0	3,57E-01	5,22E-01	1,51E+00	
WDP	m3	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	
ADP-minerals &metals	kg Sb eq	2,03E-01	6,79E-06	9,48E-04	1,48E-03	2,77E-03	0	2,79E-07	2,94E-07	3,83E-07	
ADP-fossil	MJ	1,85E+04	2,61E+03	3,05E+03	4,11E+03	1,62E+04	0	1,03E+02	1,06E+02	1,21E+02	

**GWP - total**: Global warming potential; **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**: Stratospheric ozone depletion potential; **HTP-c**: Comparative toxic unit potential for ecosystems - carcinogenic effects; **HTP-nc**: Comparative toxic unit potential for ecosystems - no carcinogenic effects; **PM**: Disease incidence potential due to particulate matter emissions; **IRP**: Potential human exposure efficiency relative to U235; **POCP**: Photochemical ozone creation potential; **AP**: Acidification potential, accumulated exceedance; **EP-terrestrial**: Eutrophication potential, accumulated exceedance; **EP-marine**: Eutrophication potential, fraction of nutrients reaching marine end compartment; **ETP-fw**: Comparative toxic unit potential for ecosystems - freshwater; **SQP**: Soil quality potential index; **WDP**: Water deprivation potential (user), deprivation-weighted water; **ADP-minerals&metals**: Abiotic depletion potential for non-fossil resources; **ADP-fossil**: Abiotic depletion potential for fossil resources.





	Stainless steel tray Declared unit: 1 tonne										
Parameter	Unit	FF	FD	FI (1)	FI (2)	FI (3)	FU	FFV (1)	FFV (2)	FFV (3)	
GWP-total	kg CO₂ eq	5,02E+03	1,67E+02	2,72E+02	3,78E+02	1,44E+03	0	7,82E+00	7,99E+00	9,06E+00	
GWP-fossil	kg CO₂ eq	5,01E+03	1,67E+02	2,71E+02	3,76E+02	1,44E+03	0	7,82E+00	7,99E+00	9,06E+00	
GWP-biogenic	kg CO₂ eq	7,26E+00	9,77E-03	5,93E-01	6,93E-01	9,86E-01	0	4,90E-04	5,28E-04	7,58E-04	
GWP-luluc	kg CO₂ eq	4,82E+00	3,42E-03	1,02E+00	1,09E+00	1,26E+00	0	1,60E-04	1,70E-04	2,32E-04	
ODP	kg CFC11 eq	5,95E-05	3,54E-06	1,37E-05	1,55E-05	3,43E-05	0	1,70E-07	1,74E-07	2,03E-07	
HTP-c	CTUh	3,22E-05	1,21E-08	1,63E-06	2,43E-06	4,39E-06	0	5,39E-10	5,50E-10	6,15E-10	
HTP-nc	CTUh	9,83E-05	1,13E-06	4,34E-06	6,37E-06	1,27E-05	0	5,45E-08	5,51E-08	5,88E-08	
PM	disease inc.	3,89E-04	1,04E-05	4,61E-05	5,46E-05	1,73E-04	0	5,11E-07	5,12E-07	5,19E-07	
IRP	kBq U-235 eq	1,75E+02	3,45E-01	1,25E+01	1,41E+01	1,96E+01	0	6,85E-02	1,21E-01	4,35E-01	
POCP	kg NMVOC eq	1,81E+01	8,04E-01	1,59E+00	2,08E+00	1,18E+01	0	3,26E-02	3,30E-02	3,59E-02	
AP	mol H+ eq	2,56E+01	6,66E-01	1,42E+00	1,88E+00	6,73E+00	0	2,04E-02	2,08E-02	2,37E-02	
EP-terrestrial	mol N eq	4,98E+01	2,20E+00	3,87E+00	4,92E+00	2,71E+01	0	8,35E-02	8,46E-02	9,14E-02	
EP-freshwater	kg P eq	1,99E-01	1,31E-04	2,14E-02	2,78E-02	4,38E-02	0	8,53E-06	1,11E-05	2,62E-05	
EP-marine	kg N eq	4,49E+00	2,05E-01	3,51E-01	4,48E-01	2,50E+00	0	7,89E-03	7,99E-03	8,61E-03	
ETP-fw	CTUe	1,87E+04	9,86E+02	1,34E+03	1,88E+03	7,19E+03	0	4,53E+01	4,56E+01	4,73E+01	
SQP	Pt	1,92E+04	4,14E+00	7,65E+04	7,67E+04	7,71E+04	0	3,57E-01	5,22E-01	1,51E+00	
WDP	m3	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	
ADP-minerals &metals	kg Sb eq	1,09E-01	5,53E-06	9,48E-04	1,48E-03	2,77E-03	0	2,79E-07	2,94E-07	3,83E-07	
ADP-fossil	MJ	5,16E+04	2,20E+03	3,05E+03	4,11E+03	1,62E+04	0	1,03E+02	1,06E+02	1,21E+02	

**GWP - total**: Global warming potential; **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**: Stratospheric ozone depletion potential; **HTP-c**: Comparative toxic unit potential for ecosystems - carcinogenic effects; **HTP-nc**: Comparative toxic unit potential for ecosystems - no carcinogenic effects; **PM**: Disease incidence potential due to particulate matter emissions; **IRP**: Potential human exposure efficiency relative to U235; **POCP**: Photochemical ozone creation potential; **AP**: Acidification potential, accumulated exceedance; **EP-terrestrial**: Eutrophication potential, accumulated exceedance; **EP-marine**: Eutrophication potential, fraction of nutrients reaching marine end compartment; **ETP-fw**: Comparative toxic unit potential for ecosystems - freshwater; **SQP**: Soil quality potential index; **WDP**: Water deprivation potential (user), deprivation-weighted water; **ADP-minerals&metals**: Abiotic depletion potential for non-fossil resources; **ADP-fossil**: Abiotic depletion potential for fossil resources.





#### **Use of resources (UNE-EN 50693)**

	EZ carbon steel tray Declared unit: 1 tonne									
Parameter	Unit	FF	FD	FI (1)	FI (2)	FI (3)	FU	FFV (1)	FFV (2)	FFV (3)
PERE	MJ, v.c.n.	3,39E+03	4,94E+00	1,45E+04	1,46E+04	1,49E+04	0	3,70E-01	4,74E-01	1,09E+00
PERM	MJ, v.c.n.	0	0	0	0	0	0	0	0	0
PERT	MJ, v.c.n.	3,39E+03	4,94E+00	1,45E+04	1,46E+04	1,49E+04	0	3,70E-01	4,74E-01	1,09E+00
PENRE	MJ, v.c.n.	2,54E+01	6,35E-04	1,20E+00	1,29E+00	1,52E+00	0	1,55E-05	1,99E-05	4,62E-05
PENRM	MJ, v.c.n.	2,19E+04	1,97E+03	3,59E+03	4,72E+03	1,70E+04	0	1,06E+02	1,11E+02	1,41E+02
PENRT	MJ, v.c.n.	2,19E+04	1,97E+03	3,59E+03	4,72E+03	1,70E+04	0	1,06E+02	1,11E+02	1,41E+02
SM	kg	0	0	0	0	0	0	0	0	0
RSF	MJ, v.c.n.	0	0	0	0	0	0	0	0	0
NRSF	MJ, v.c.n.	0	0	0	0	0	0	0	0	0
FW	$m^3$	2,15E+01	8,18E-02	3,53E+00	4,49E+00	8,08E+00	0	5,30E-03	6,33E-03	1,25E-02

**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; **PERM:** 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; **SM:** Use of secondary materials; **RSF:** Use of renewable secondary fuels; **NRSF:** Use of non-renewable secondary fuels; **NRSF:** Use of non-renewable secondary fuels; **PW:** Net freshwater use.

(1) Small tray; (2) Medium tray; (3) Large tray

	Bandeja de acero al carbono - HDG Unidad declarada: 1 tonelada										
Parámetro	Unidad	FF	FD	FI (1)	FI (2)	FI (3)	FU	FFV (1)	FFV (2)	FFV (3)	
PERE	MJ, v.c.n.	3,39E+03	6,88E+00	1,45E+04	1,46E+04	1,49E+04	0	3,70E-01	4,74E-01	1,09E+00	
PERM	MJ, v.c.n.	0	0	0	0	0	0	0	0	0	
PERT	MJ, v.c.n.	3,39E+03	6,88E+00	1,45E+04	1,46E+04	1,49E+04	0	3,70E-01	4,74E-01	1,09E+00	
PENRE	MJ, v.c.n.	2,54E+01	3,37E-04	1,20E+00	1,29E+00	1,52E+00	0	1,55E-05	1,99E-05	4,62E-05	
PENRM	MJ, v.c.n.	2,19E+04	2,63E+03	3,59E+03	4,72E+03	1,70E+04	0	1,06E+02	1,11E+02	1,41E+02	
PENRT	MJ, v.c.n.	2,19E+04	2,63E+03	3,59E+03	4,72E+03	1,70E+04	0	1,06E+02	1,11E+02	1,41E+02	
SM	kg	0	0	0	0	0	0	0	0	0	
RSF	MJ, v.c.n.	0	0	0	0	0	0	0	0	0	
NRSF	MJ, v.c.n.	0	0	0	0	0	0	0	0	0	
FW	m <sup>3</sup>	2,14E+01	1,10E-01	3,53E+00	4,49E+00	8,08E+00	0	5,30E-03	6,33E-03	1,25E-02	

PERE: Uso de energía primaria renovable excluyendo los recursos de energía primaria renovable utilizada como materia prima; PERM: Uso de energía primaria renovable; pente utilizada como materia prima; pente uti





#### (1) Small tray; (2) Medium tray; (3) Large tray

	Stainless steel tray Declared unit: 1 tonne										
Parameter	Unit	FF	FD	FI (1)	FI (2)	FI (3)	FU	FFV (1)	FFV (2)	FFV (3)	
PERE	MJ, v.c.n.	1,41E+04	5,69E+00	1,45E+04	1,46E+04	1,49E+04	0	3,70E-01	4,74E-01	1,09E+00	
PERM	MJ, v.c.n.	0	0	0	0	0	0	0	0	0	
PERT	MJ, v.c.n.	1,41E+04	5,69E+00	1,45E+04	1,46E+04	1,49E+04	0	3,70E-01	4,74E-01	1,09E+00	
PENRE	MJ, v.c.n.	1,50E+00	4,55E-04	1,20E+00	1,29E+00	1,52E+00	0	1,55E-05	1,99E-05	4,62E-05	
PENRM	MJ, v.c.n.	5,97E+04	2,21E+03	3,59E+03	4,72E+03	1,70E+04	0	1,06E+02	1,11E+02	1,41E+02	
PENRT	MJ, v.c.n.	5,97E+04	2,21E+03	3,59E+03	4,72E+03	1,70E+04	0	1,06E+02	1,11E+02	1,41E+02	
SM	kg	0	0	0	0	0	0	0	0	0	
RSF	MJ, v.c.n.	0	0	0	0	0	0	0	0	0	
NRSF	MJ, v.c.n.	0	0	0	0	0	0	0	0	0	
FW	m <sup>3</sup>	5,05E+01	9,23E-02	3,53E+00	4,49E+00	8,08E+00	0	5,30E-03	6,33E-03	1,25E-02	

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; SM: Use of secondary materials; RSF: Use of renewable secondary fuels; NRSF: Use of non-renewable secondary fuels; FW: Net freshwater use.





#### Category of waste and output flows (UNE-EN 50693)

	EZ carbon steel tray Declared unit: 1 tonne									
Parameter	Unit	FF	FD	FI (1)	FI (2)	FI (3)	FU	FFV (1)	FFV (2)	FFV (3)
HWD	kg	1,28E+00	1,25E-02	1,51E-02	2,25E-02	8,05E-02	0	6,80E-04	6,89E-04	7,47E-04
NHWD	kg	2,63E+02	1,00E-01	7,01E+01	1,09E+02	2,04E+02	0	7,45E-03	9,89E-03	2,45E-02
RWD	kg	5,17E-02	1,58E-04	1,12E-02	1,23E-02	1,57E-02	0	4,22E-05	7,56E-05	2,76E-04
CRU	kg	0	0	3,01E+01	3,01E+01	3,01E+01	0	0	0	0
MFR	kg	1,02E-02	0	1,19E+01	1,19E+01	1,19E+01	0	1,00E+03	1,00E+03	1,00E+03
MER	kg	0	0	0	0	0	0	0	0	0
EE	MJ, v.c.n.	0	0	0	0	0	0	0	0	0

**HWD**: Hazardous waste disposed; **NHWD**: Non-hazardous waste disposed; **RWD**: Radioactive waste disposed; **CRU**: Components for reuse; **MFR**: Materials for recycling; **MER**: Materials for energy recovery; **EE**: Exported energy.

(1) Small tray; (2) Medium tray; (3) Large tray

	HDG carbon steel tray Declared unit: 1 tonne									
Parameter	Unit	FF	FD	FI (1)	FI (2)	FI (3)	FU	FFV (1)	FFV (2)	FFV (3)
HWD	kg	1,28E+00	1,73E-02	1,51E-02	2,25E-02	8,05E-02	0	6,80E-04	6,89E-04	7,47E-04
NHWD	kg	2,63E+02	1,30E-01	7,01E+01	1,09E+02	2,04E+02	0	7,45E-03	9,89E-03	2,45E-02
RWD	kg	5,17E-02	2,24E-04	1,12E-02	1,23E-02	1,57E-02	0	4,22E-05	7,56E-05	2,76E-04
CRU	kg	0	0	3,01E+01	3,01E+01	3,01E+01	0	0	0	0
MFR	kg	1,02E-02	0	1,19E+01	1,19E+01	1,19E+01	0	1,00E+03	1,00E+03	1,00E+03
MER	kg	0	0	0	0	0	0	0	0	0
EE	MJ, v.c.n.	0	0	0	0	0	0	0	0	0

HWD: Hazardous waste disposed; NHWD: Non-hazardous waste disposed; RWD: Radioactive waste disposed; CRU: Components for reuse; MFR: Materials for recycling; MER: Materials for energy recovery; EE: Exported energy.





	Stainless steel tray Declared unit: 1 tonne										
Parameter	Parameter Unit FF FD FI (1) FI (2) FI (3) FU FFV (1) FFV (2) FFV (3)										
HWD	kg	1,38E-01	1,44E-02	1,51E-02	2,25E-02	8,05E-02	0	6,80E-04	6,89E-04	7,47E-04	
NHWD	kg	4,97E+03	1,10E-01	7,01E+01	1,09E+02	2,04E+02	0	7,45E-03	9,89E-03	2,45E-02	
RWD	kg	1,22E-01	1,84E-04	1,12E-02	1,23E-02	1,57E-02	0	4,22E-05	7,56E-05	2,76E-04	
CRU	kg	0	0	3,01E+01	3,01E+01	3,01E+01	0	0	0	0	
MFR	kg	1,02E-02	0	1,19E+01	1,19E+01	1,19E+01	0	1,00E+03	1,00E+03	1,00E+03	
MER	kg	0	0	0	0	0	0	0	0	0	
EE	MJ, v.c.n.	0	0	0	0	0	0	0	0	0	

HWD: Hazardous waste disposed; NHWD: Non-hazardous waste disposed; RWD: Radioactive waste disposed; CRU: Components for reuse; MFR: Materials for recycling; MER: Materials for energy recovery; EE: Exported energy.





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A verified environmental declaration

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