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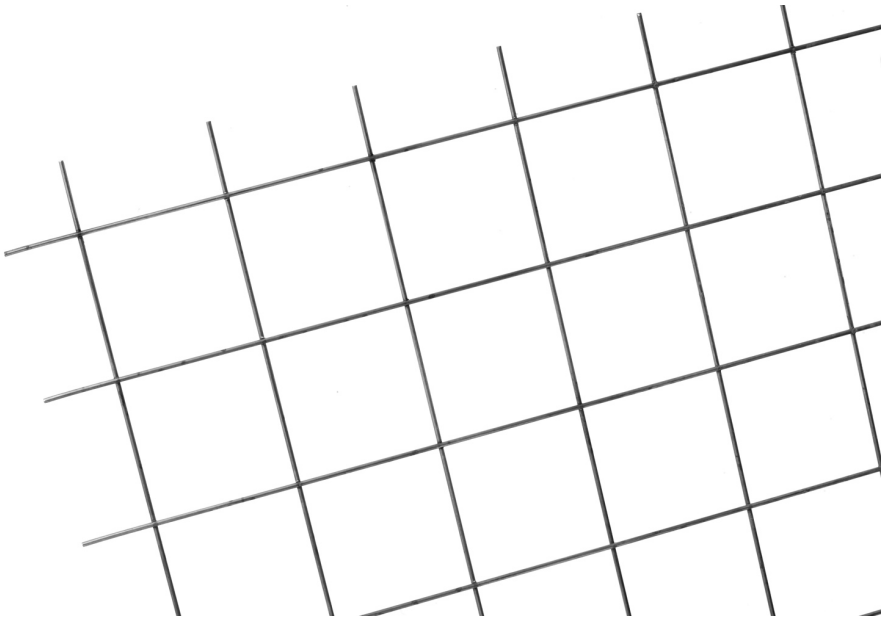
Environmental Product Declaration

Specific EPD

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

Wire Mesh

Tebo Byggtillbehör AB



Programme
EPD Square | www.epdsquare.com

Programme operator
EPD Square, s.r.o.

EPD Registration number
SQ 00-042

Publication date
23.10.2025

Valid until
22.10.2030

epd square .

TEBO®

General information

Product
Wire Mesh

Program operator
EPD Square, s.r.o.
Lermontovova 3, 811 05 Bratislava, Slovakia
Email: info@epdsquare.com

Registration number
SQ 00-042

Publication date
23.10.2025

Valid until date
22.10.2030

Owner of the declaration
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Manufacturer
Sakshi innovations pvt. Ltd.
Gurudwara Somasra, PO Sahnewal, Ludhiana 141120
Punjab, India

Place of production
India

Product Category Rules (PCR)
The CEN standard EN 15804+A2 serves as the core PCR.
In addition,EPD Square PCR v1.0, 2024

Declared/Functional unit
1 kg

Mass per DU
1 kg

UN CPC code
412 – Products of iron and steel

Geographical scope
Europe

Year of study
01/04/2024-31/03/2025

Comparability
EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in the context of the building. This EPD is used in B2B and B2C communication.

EPD author
Sarah Curpen, Silvia Vilčeková, EPD Clarity s.r.o.

Verification type
Independent verification of the declaration and data, according to ISO14025:2006
Internal: ☐
External: ☒

Verified by
Gaurav Das

GD

The owner of the declaration shall be liable for the underlying information and evidence.
EPD Square shall not be liable with respect to manufacturer, life cycle assessment data and evidence.

System boundaries

Cradle to gate with additional modules. That is modules A1-A3, C1-C4, D and additional modules A4-A5 are declared.

Modules declared and geographical scope

	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	✓	✓	✓	✓	✓	MND	MND	MND	MND	MND	MND	MND	✓	✓	✓	✓	✓
Geography	IN	IN	IN	EU	EU	-	-	-	-	-	-	-	EU	EU	EU	EU	EU

Modules not declared = MND

Description of Organization

Tebo Byggtillbehör AB (Tebo) develops and markets specialized products for professional craftsmen in tiling, floor leveling, and bricklaying. In collaboration with its own and selected partner brands, Tebo provides an innovative product range designed to simplify and improve modern construction. The company is part of Byggtillbehørsgruppen AS.

Tebo Byggtillbehör AB develops and distributes quality products for both professional users and consumers. Through in-house product development, quality testing, and documentation, products are continuously monitored to ensure compliance with both internal standards and customer requirements.

A strong focus is placed on minimizing environmental impact, with sustainability considered in the selection of solutions, services, and products. Close cooperation with suppliers and partners helps to identify and implement optimal environmental solutions in daily operations. By integrating the UN Sustainable Development Goals into business practices, the company actively advances its environmental and sustainability work.

Long-term commitment, collaboration, and joint responsibility are seen as key drivers for contributing to a more sustainable future.

More info: https://www.tebo.se/

Product information

Product name
Wire Mesh

Product description
Wire mesh made of galvanized steel. Average tensile strength 50 kg/mm².

Thickness 2.5 mm & 2.8 mm wires

770mm x 1170mm, 765mm x 1165mm, 1200mm x 2261mm

Standards: EN 13658-1:2005 & DIN 488.

Product application
Used in construction, agriculture, security, and landscaping

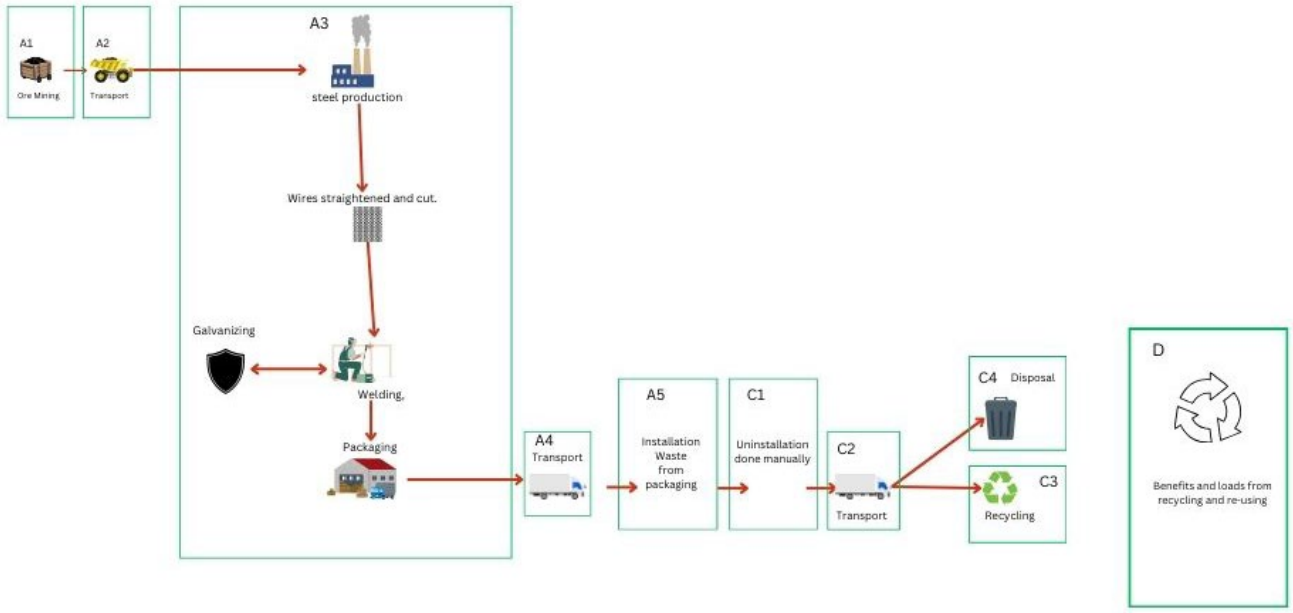
Geographical scope
Europe

Product contents information

Product components	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%
Steel	0.965	0.00	0.00
Zinc	0.035	0.00	0.00
TOTAL	1.00	0.00	0.00
Packaging materials	**Weight, kg**	**Weight-% (versus the product)**	
Paper	0.00203	0.2	
Packaging Film	0.000215	0.02	
Cardboard	0.0206	2.1	
Wood Pallet	0.00671	0.7	
TOTAL	0.0300	3.00	

Manufacturing process

Incoming steel wires undergo a thorough visual and dimensional check to ensure compliance with purchase order specifications. Wires are straightened and cut to the required dimensions. Quality checks ensure accurate wire length and confirm that wires are free from bends, defects, or irregularities. Longitudinal and cross wires are spot-welded to form a rigid grid structure. Each weld is inspected for consistency, strength, and proper spacing. Any weak or incomplete welds are corrected. Edges of the welded panels are cut and cleaned. The edges are verified to be smooth, even, and free from burrs or sharp points that could cause injury or damage during handling. Finished panels are inspected for deformities, rust, or other defects. Correct dimensions and specifications are verified. Panels are then packed in boxes, strapped, and wrapped securely to protect them during storage and transport.



Life cycle assessment

Cut-off criteria

The study does not exclude any modules or processes which are stated mandatory in the EN 15804:2012+A2:2019 and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass. The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

Allocation, estimations, and assumptions

Allocation is based on annual production rate and made with high accuracy and precision. The values for 1 m^2 of the products which are used within this study are calculated by considering the total product weight per annual production. In the production plant, several kinds of products are produced; since the production processes of these products are similar, the annual production percentages are taken into consideration for allocation. According to the ratio of the annual production of the declared product to the total annual production at the factory, the annual total energy consumption, packaging materials and the generated waste per the declared product are allocated. Subsequently, the produced products output fixed to 1 m^2 and the corresponding amount of product is used in the calculations.

Database(s) and LCA software

This EPD has been created using One Click LCA Pre-Verified EPD Generator. Ecoinvent v3.10.1 and One Click LCA databases were used as sources of environmental data.

LCA Scenarios and additional technical information

Scenarios included in the LCA are based on realistic scenarios which are currently in use and are representative for one of the most likely scenario alternatives.

A1 Raw material extraction: This module includes the extraction and processing of all raw materials and packaging which occur upstream to the manufacturing site.

A2 Transport: Vehicle capacity utilization volume factor is assumed to be 1 which means full load. It may vary but as the role of transportation emission in total results is small and so the variety in load assumed to be negligible. Empty returns are not taken into account as it is assumed that return trip is used by transportation companies to serve the needs of other clients. The considered transportation impacts include exhaust emissions resulting from transportation of all raw materials from suppliers to production plant as well as the environmental impacts of production of the used fuel. The transportation distances and methods were provided by manufacturer.

A3 Manufacturing: The environmental impacts considered for the production stage cover the manufacturing of the production materials and fuels used by machines. The environmental impacts of this stage have been calculated using the most recent data in regard to what applied in the factory.

Manufacturing energy scenario

Electricity data source and quality	Electricity, India, IEA, 2022
Electricity CO2e / kWh	1.13
Energy data source and quality	Diesel, burned in building machine
Diesel CO2e / MJ	0.1

A4 Transport: A weighted distance of 334 km calculated from the trader's records is used. Transportation impacts occurred from final products delivery to construction site cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions. Vehicle capacity utilization volume factor is assumed to be 1. Empty returns are considered. Transportation does not cause losses as the product is packaged properly.

Transportation scenario (A4)

Vehicle type used for transport	Transport, freight, lorry >32 metric ton, EURO6
Distance to the construction site	334 km
Capacity utilization factor	1

A5 Installation: The packaging waste is considered in A5. 9% of the plastic packaging is recycled and 12% incinerated with energy recovery.32% of the wooden pallets are recycled and 30% is incinerated with energy recovery. The remaining plastic packaging is landfilled. The remaining wooden pallet are also landfilled.

C1 Disassembly: The impacts of the disassembly stage are assumed zero, since the consumption of energy and natural resources for disassembling the end-of-life product is negligible. The product is removed manually.

C2 Transport: Transportation distance to the closest disposal area is estimated as 50 km and the transportation method is assumed as lorry which is the most common. Part of the product is also transported 250 km away to a recycling facility.

C3 Waste Processing: 85% of the product is recycled.

C4 Final Disposal: 15% of the product ends at a landfill without prior treatment.

D Benefits and Loads: The benefits and loads of steel recycling are considered as well as the benefits and loads of packaging recycling.

End of Life (C1, C3, C4)

	Value	Unit
Collected separately	-	kg
Collected as mixed construction waste	1	kg
Reuse	-	kg
Recycling	0.85	kg
Energy recovery	-	kg
To landfill	0.15	kg

LCA results

Results are presented per 1 kg (Declared Unit) of the product. Estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks. Conversion mass factor: 1.

Core environmental impact indicators – EN 15804+A2, EF 3.1

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	3.55E+00	3.56E-02	4.64E-02	0.00E+00	4.30E-02	1.76E-02	6.56E-04	-1.63E+00
GWP-fossil	kg CO2 eq.	3.58E+00	3.56E-02	1.31E-03	0.00E+00	4.30E-02	1.92E-02	9.36E-04	-1.63E+00
GWP-biogenic	kg CO2 eq.	-4.32E-02	0.00E+00	4.51E-02	0.00E+00	0.00E+00	-1.59E-03	-2.81E-04	-2.86E-04
GWP-LULUC	kg CO2 eq.	9.52E-03	1.38E-05	8.00E-07	0.00E+00	1.90E-05	2.37E-05	5.35E-07	-6.29E-04
ODP	kg CFC11 eq.	2.29E-08	7.42E-10	1.21E-11	0.00E+00	6.01E-10	2.58E-10	2.71E-11	-5.25E-09
AP	mol H^+ eq.	3.18E-02	8.39E-05	4.63E-06	0.00E+00	1.43E-04	2.29E-04	6.64E-06	-5.62E-03
EP-freshwater	kg P eq.	1.18E-03	2.49E-06	2.44E-07	0.00E+00	3.34E-06	1.24E-05	7.70E-08	-5.70E-04
EP-marine	kg N eq.	4.87E-03	2.20E-05	6.79E-06	0.00E+00	4.64E-05	5.06E-05	2.53E-06	-1.29E-03
EP-terrestrial	mol N eq.	9.94E-02	2.38E-04	1.59E-05	0.00E+00	5.05E-04	5.72E-04	2.76E-05	-1.39E-02
POCP	kg NMVOC eq.	1.52E-02	1.46E-04	5.78E-06	0.00E+00	1.99E-04	1.69E-04	9.90E-06	-4.72E-03
ADP-M&M	kg Sb eq.	4.18E-05	1.02E-07	5.94E-09	0.00E+00	1.41E-07	1.36E-06	1.49E-09	-1.14E-06
ADP-fossil	MJ	3.67E+01	5.34E-01	1.08E-02	0.00E+00	6.03E-01	2.58E-01	2.30E-02	-1.53E+01
WDP	m^3	1.06E+01	2.73E-03	3.01E-04	0.00E+00	2.80E-03	4.64E-03	6.63E-05	-4.25E-01

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: Depletion potential of the stratospheric ozone layer; AP: Acidification potential, Accumulated Exceedance; EP-freshwater: Eutrophication potential, fraction of nutrients reaching freshwater end compartment; See "additional requirements" for indicator given as PO4 eq. EP-marine: Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-terrestrial: Eutrophication potential, Accumulated Exceedance; POCP: Formation potential of tropospheric ozone; ADP-M&M: Abiotic depletion potential for non-fossil resources (minerals and metals); ADP-fossil: Abiotic depletion potential for fossil resources; WDP: Water deprivation potential, deprivation weighted water consumption

Additional (optional) environmental impact indicators – EN 15804+A2, EF 3.1

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	Disease incidence	3.50E-07	3.47E-09	6.74E-11	0.00E+00	3.41E-09	3.10E-09	1.51E-10	-1.42E-07
IRP	kBq U235 eq.	1.06E-01	6.44E-04	5.76E-05	0.00E+00	4.88E-04	2.19E-03	1.44E-05	-2.21E-02
ETP-fw	CTUe	2.23E+01	6.29E-02	2.82E-02	0.00E+00	9.53E-02	1.50E-01	1.93E-03	-4.65E+00
HTP-c	CTUh	3.20E-09	5.92E-12	7.21E-13	0.00E+00	7.31E-12	1.72E-11	1.73E-13	-1.91E-09
HTP-nc	CTUh	2.49E-08	3.45E-10	3.85E-11	0.00E+00	3.77E-10	1.17E-09	3.97E-12	-6.31E-09
SQP	Dimensionless	1.11E+01	5.38E-01	8.64E-03	0.00E+00	3.60E-01	5.02E-01	4.52E-02	-3.79E+00

PM: Particulate matter emissions; IRP: Ionising radiation, human health; ETP-fw: Ecotoxicity (freshwater); ETP-c: Human toxicity, cancer effects; HTP-nc: Human toxicity, non-cancer effects; SQP: Land use related impacts / soil quality

Use of Natural Resources

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
RPEE	MJ	2.19E+00	8.69E-03	-4.54E-01	0.00E+00	8.27E-03	4.81E-02	2.22E-04	-5.06E-01
RPEM	MJ	3.75E-01	0.00E+00	-3.75E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-03
TPE	MJ	2.57E+00	8.69E-03	-8.28E-01	0.00E+00	8.27E-03	4.81E-02	2.22E-04	-5.00E-01
NRPE	MJ	3.69E+01	5.34E-01	2.12E-03	0.00E+00	6.03E-01	2.58E-01	2.30E-02	-1.53E+01
NRPM	MJ	1.80E-02	0.00E+00	-1.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
TRPE	MJ	3.70E+01	5.34E-01	-1.58E-02	0.00E+00	6.03E-01	2.58E-01	2.30E-02	-1.53E+01
SM	kg	2.81E-01	2.31E-04	1.48E-05	0.00E+00	2.71E-04	3.15E-04	5.78E-06	-2.00E-01
RSF	MJ	5.07E-03	2.91E-06	9.37E-08	0.00E+00	3.45E-06	1.46E-05	1.20E-07	-7.01E-05
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W	m^3	4.63E-02	7.88E-05	-1.28E-05	0.00E+00	7.99E-05	1.37E-04	2.39E-05	-8.75E-03

RPEE: Renewable primary energy resources used as energy carrier; RPEM: Renewable primary energy resources used as raw materials; TPE: Total use of renewable primary energy resources; NRPE: Non-renewable primary energy resources used as energy carrier; NRPM: Non-renewable primary energy resources used as materials; TRPE: Total 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; W: Use of net fresh water

End of life – Waste

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HW	KG	5.45E-01	7.73E-04	1.51E-04	0.00E+00	1.05E-03	1.69E-03	2.54E-05	-2.94E-01
NHW	KG	5.41E+00	1.55E-02	2.96E-02	0.00E+00	1.97E-02	6.09E-02	5.80E-04	-3.28E+00
RW	KG	2.19E-05	1.59E-07	1.46E-08	0.00E+00	1.20E-07	5.60E-07	3.52E-09	-5.38E-06

HW: Hazardous waste disposed; NHW: Non-hazardous waste disposed; RW: Radioactive waste disposed

End of life – Output flows

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
CR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR	kg	0.00E+00	0.00E+00	2.09E-02	0.00E+00	0.00E+00	8.50E-01	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	0.00E+00	0.00E+00	2.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETE	MJ	0.00E+00	0.00E+00	2.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CR: Components for reuse; MR: Materials for recycling; MER: Materials for energy recovery; EEE: Exported electric energy; ETE: Exported thermal energy

Information describing biogenic carbon content at factory gate

Biogenic carbon content	Value	Unit
Biogenic carbon content in product	0	kg C
Biogenic carbon content in the accompanying packaging	0.0122	kg C

Specific data (GWP-GHG) and data variation for A1-A3

Specific data and data variation	Value-%
Specific data	22
Variation - product	-
Variation - site	-

Hazardous substances

☒ The product does not contain any REACH SVHC substances in amounts greater than 0.1 %.

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Bibliography

ISO 14020:2000
Environmental labels and declarations – General principles

ISO 14025:2010
Environmental labels and declarations - Type III environmental declarations - Principles and procedures

ISO 14044:2006
Environmental management - Life cycle assessment - Requirements and guidelines

EN 15804:2012+A2:2019
Sustainability of construction works - Environmental product declaration - Core rules for the product category of construction products

EPD Square PCR v.1.0, 2024

EPD Square, General Programme Instructions v.1, 2024

Ecoinvent database v3.8 (2021) and One Click LCA database

LCA background report 29.08.2025

Annex

Environmental impacts – EN 15804+A1, CML/ISO 21930

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP	kg CO2 eq.	3.57E+00	3.53E-02	3.78E-03	0.00E+00	4.27E-02	1.92E-02	9.28E-04	-1.62E+00
ODP	kg CFC11 eq.	2.12E-08	5.90E-10	9.86E-12	0.00E+00	4.80E-10	2.13E-10	2.15E-11	-4.85E-09
AP	kg SO_2 eq.	2.25E-02	6.66E-05	3.51E-06	0.00E+00	1.10E-04	1.84E-04	4.91E-06	-4.52E-03
EP	kg PO_4 eq.	4.36E-03	1.66E-05	4.20E-06	0.00E+00	2.67E-05	2.66E-05	1.56E-06	-8.04E-04
POCP	kg C_2H_4 eq.	1.50E-03	6.79E-06	8.65E-07	0.00E+00	9.83E-06	1.09E-05	4.65E-07	-7.42E-04
ADP-M&M	kg Sb eq.	4.14E-05	9.93E-08	5.81E-09	0.00E+00	1.38E-07	1.36E-06	1.46E-09	-1.04E-06
ADP-fossil	MJ	3.55E+01	5.23E-01	9.80E-03	0.00E+00	5.95E-01	2.20E-01	2.28E-02	-1.49E+01

Environmental impacts – GWP-GHG

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP - GHG	kg CO2e	3.58E+00	3.56E-02	1.31E-03	0.00E+00	4.30E-02	1.92E-02	9.36E-04	-1.63E+00

GWP- GHG: Global Warming Potential, greenhouse gases