

Product Environmental Declaration (Type II)

TE 20 1000 Z STTZN

Type II according to ISO 14021 including life cycle impact assessment (LCIA)

Article Number: 620101

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General Information:

This environmental declaration is based on the international standard ISO 14021 (Environmental labels and declarations – Self declared environmental claims – Type II environmental labelling). The data in this document has been evaluated on a full-scale life cycle assessment (LCA) study according to ISO 14040/44, Product Category Rules: PCR 2019:14 Construction products (EN 15804+A2).

DEHN is dedicated to an environmentally conscious design of its products and has implemented an integrated management system according to ISO 9001, ISO 14001, ISO 50001 and ISO 45001.

Name of the Product: TE 20 1000 Z STTZN

Name of the variants of the product: 620151 for 1500mm

Description of the product: Earth rod Type Z St/tZn rod length 1000mm

Function of the product: Earth rod for implementing earth-termination systems for down conductors or transformer stations Type Z, with triple knurled pin (especially tension-proof coupling)

Analysis of the Product: Per piece

Product Carbon Footprint Value : 8.68 kg CO₂ eq.

Material Composition of the Product

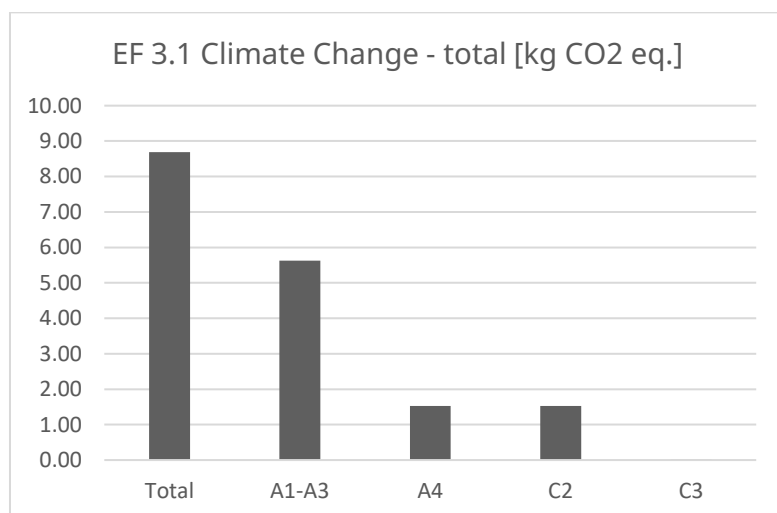
Material Group	Mass Share %
Metal Components	98
Other	2

Life Cycle Stages and their reference scenarios

Product Stage			Construc- tion process Stage		Use Stage						End-of-Life Stage				Benefits and loads beyond the system boundaries	
Raw material supply	Transport	Manufacturing	Transport	Construction Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction, demolition	Transport	Waste processing	Disposal	Reuse-recovery-recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D

Key environmental performance indicators

The following impact categories were analyzed as part of the product's environmental footprint. The results are calculated using the LCIA method EF 3.1, in accordance with EN 15804+A2. The LCA was conducted using the Sphera LCA tool, with background data from Ecoinvent 3.11 and additional professional datasets (MLC database 2025). The completeness of the LCA results is ensured by collecting the primary data for the resources used such as energy, fuel, and material. In case of the absence of the primary data, datasets with the nearest scientific assumptions were considered.



Statement here that the results can be used for the similar products according to EN50693. For the representation of the results EN 15804 +A2 based on EF 3.1 is used and described below.

EN 15804 +A2 (based on EF 3.1)

1. Environmental impact indicators	Total	A1-A3	A4	C2	C3
Climate Change - total [kg CO2 eq.]	8.703	5.620	1.528	1.528	0.026
Climate Change, fossil [kg CO2 eq.]	8.673	5.614	1.527	1.527	0.006
Climate Change, biogenic [kg CO2 eq.]	0.024	0.003	0.001	0.001	0.020
Climate Change, land use and land use change [kg CO2 eq.]	0.005	0.004	0.001	0.001	0.000
Ozone depletion [kg CFC-11 eq.]	0.000	0.000	0.000	0.000	0.000
Acidification [Mole of H+ eq.]	0.031	0.024	0.004	0.004	0.000
Eutrophication, freshwater [kg P eq.]	0.003	0.003	0.000	0.000	0.000
Eutrophication, marine [kg N eq.]	0.008	0.006	0.001	0.001	0.000
Eutrophication, terrestrial [Mole of N eq.]	0.077	0.056	0.011	0.011	0.000
Photochemical ozone formation, human health [kg NMVOC eq.]	0.032	0.020	0.006	0.006	0.000
Resource use, mineral and metals [kg Sb eq.]	0.000	0.000	0.000	0.000	0.000
Resource use, fossils [MJ]	12.928	78.359	23.244	23.244	0.081
Water use [m³ world equiv.]	2.930	2.652	0.139	0.139	0.001

2. Resource use indicators

Use of renewable primary energy (PERE) [MJ]	7.977	7.260	0.358	0.358	0.001
Total use of renewable primary energy resources (PERT) [MJ]	7.977	7.260	0.358	0.358	0.001
Use of non-renewable primary energy (PENRE) [MJ]	12.928	78.359	23.244	23.244	0.081
Total use of non-renewable primary energy resources (PENRT) [MJ]	12.928	78.359	23.244	23.244	0.081
Use of net fresh water (FW) [m3]	0.068	0.062	0.003	0.003	0.000

3. Output flows and waste categories

Hazardous waste disposed (HWD) [kg]	1.932	1.884	0.024	0.024	0.000
Non-hazardous waste disposed (NHWD) [kg]	16.484	16.024	0.223	0.223	0.014
Radioactive waste disposed (RWD) [kg]	0.000	0.000	0.000	0.000	0.000
Materials for Recycling (MFR) [kg]	0.097	0.000	0.000	0.000	0.097

Other Environmental Information

DEHN can provide, based on information from our suppliers, with the following details in accordance with the RoHS Directive 2011/65/EU (including Delegated Directive (EU) 2015/863), the REACH Regulation (EC) No. 1907/2006 in its current version, as well as the Waste Framework Directive 2008/98/EC.

Article number	Description	RoHS status	RoHS exemption	REACH SVHC*	CAS No.	SCIP number**
620101	TE 20 1000 Z STTZN	Compliant	---	Substance no longer present	---	5a9f4538-03db-4125-b02a-15ba4ded40ea

*) The Candidate List always refers to the latest version.

**) All SCIP notification numbers refer to articles purchased from DEHN SE.

Legal Disclaimer

This Environmental Product Declaration is for information purposes only. The results reflected only present the parameters of environmental profile. It does not guarantee performance, quality or regulatory compliance. The declared values must not be used for purposes other than those allowed under the EPD programme rules. There is no liability for decisions or actions taken based on the information contained in this document.