

## Product Environmental Declaration (Type II)

### **RD 8 STTZN R50M**

Type II according to ISO 14021 including life cycle impact assessment (LCIA)  
Article Number: 800028

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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, 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:** RD 8 STTZN R50M

**Description of the product:** Steel wire according to EN 62561-2 with zinc coating  $\geq 50 \mu\text{m}$  on average (about 350 g/m<sup>2</sup>)

**Function of the product:** use as air-termination system or down conductor in lightning protection systems.

**Analysis of the Product:** Per piece of 50 meters

**Product Carbon Footprint Value :** 14.45 kg CO<sub>2</sub> eq.

## Material Composition of the Product

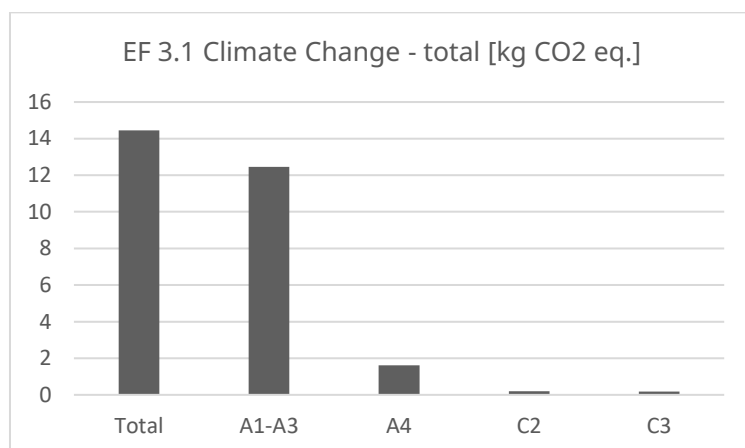
| Material Group   | Mass Share % |
|------------------|--------------|
| Steel Components | 98           |
| Other            | 2            |

## Life Cycle Stages and their reference scenarios

| Product Stage       |           |               | Construc-<br>tion process<br>Stage |                           | Use<br>Stage |             |        |             |               |                        |                       | End-of-Life<br>Stage       |           |                  |          | Benefits and<br>loads beyond<br>the system<br>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    | C4    |
|------------------------------------------------------------|---------|---------|--------|-------|-------|-------|
| Climate Change - total [kg CO2 eq.]                        | 16.139  | 12.242  | 1.614  | 0.202 | 2.082 | 0.050 |
| Climate Change, fossil [kg CO2 eq.]                        | 14.389  | 12.388  | 1.612  | 0.202 | 0.187 | 0.050 |
| Climate Change, biogenic [kg CO2 eq.]                      | 1.724   | -0.172  | 0.001  | 0.000 | 1.895 | 0.000 |
| Climate Change, land use and land use change [kg CO2 eq.]  | 0.026   | 0.025   | 0.001  | 0.000 | 0.000 | 0.000 |
| Ozone depletion [kg CFC-11 eq.]                            | 0.000   | 0.000   | 0.000  | 0.000 | 0.000 | 0.000 |
| Acidification [Mole of H+ eq.]                             | 0.060   | 0.054   | 0.004  | 0.000 | 0.001 | 0.000 |
| Eutrophication, freshwater [kg P eq.]                      | 0.007   | 0.007   | 0.000  | 0.000 | 0.000 | 0.000 |
| Eutrophication, marine [kg N eq.]                          | 0.015   | 0.013   | 0.001  | 0.000 | 0.001 | 0.000 |
| Eutrophication, terrestrial [Mole of N eq.]                | 0.148   | 0.130   | 0.011  | 0.001 | 0.005 | 0.001 |
| Photochemical ozone formation, human health [kg NMVOC eq.] | 0.050   | 0.041   | 0.007  | 0.001 | 0.002 | 0.000 |
| Resource use, mineral and metals [kg Sb eq.]               | 0.000   | 0.000   | 0.000  | 0.000 | 0.000 | 0.000 |
| Resource use, fossils [MJ]                                 | 225.515 | 193.889 | 24.545 | 3.068 | 4.012 | 0.638 |
| Water use [m³ world equiv.]                                | 8.344   | 7.942   | 0.146  | 0.018 | 0.237 | 0.005 |

|                                                                  |         |         |        |       |        |       |
|------------------------------------------------------------------|---------|---------|--------|-------|--------|-------|
| <b>2. Resource use indicators</b>                                | 0.000   | 0.000   | 0.000  | 0.000 | 0.000  |       |
| Use of renewable primary energy (PERE) [MJ]                      | 38.903  | 38.410  | 0.378  | 0.047 | 0.066  | 0.133 |
| Total use of renewable primary energy resources (PERT) [MJ]      | 38.903  | 38.410  | 0.378  | 0.047 | 0.066  | 0.133 |
| Use of non-renewable primary energy (PENRE) [MJ]                 | 225.515 | 193.889 | 24.545 | 3.068 | 4.012  | 0.638 |
| Total use of non-renewable primary energy resources (PENRT) [MJ] | 225.515 | 193.889 | 24.545 | 3.068 | 4.012  | 0.638 |
| Use of net fresh water (FW) [m3]                                 | 0.194   | 0.185   | 0.003  | 0.000 | 0.006  | 0.000 |
| <b>3. Output flows and waste categories</b>                      | 0.000   | 0.000   | 0.000  | 0.000 | 0.000  |       |
| Hazardous waste disposed (HWD) [kg]                              | 7.786   | 7.742   | 0.025  | 0.003 | 0.015  | 0.000 |
| Non-hazardous waste disposed (NHWD) [kg]                         | 24.747  | 3.412   | 0.236  | 0.029 | 21.070 | 3.343 |
| Radioactive waste disposed (RWD) [kg]                            | 0.000   | 0.000   | 0.000  | 0.000 | 0.000  | 0.000 |
| Materials for Recycling (MFR) Kg                                 | 19.680  | 0.000   | 0.000  | 0.000 | 19.680 | 0.000 |

## 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**                 |
|----------------|-----------------|-------------|----------------|------------------------------|---------|-------------------------------|
| 800028         | RD 8 STTZN R50M | Compliant   | ---            | No substance above threshold | ---     | No SCIP notification required |

\*) 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.