

CLIMATE DECLARATION FOR CARBON STEEL REINFORCEMENT BARS AND STEEL WIRES

Functional unit: 1 kg of carbon steel reinforcement bars and steel wires

The climate declaration shows the emissions of greenhouse gases, expressed as CO₂-equivalents. It is based on verified results from a lifecycle assessment (LCA) performed as basis for an EPD®, in accordance with ISO 14025 and EN 15804



Information about the product

Severstal-metiz Carbon steel reinforcement bars of B500A class are used for reinforcing reinforced concrete structures. Various steel wires are used for the manufacture of ropes and springs for various purposes, for making the trellises for vineyards and for making the harness belts, for the manufacture of shot, for the subsequent flattening, for the manufacture of furniture springs, for the manufacture of products for various purposes. In addition, it is used for the reinforcement of prestressed reinforced concrete structures.

Information about the company

The Severstal-metiz corporate group is an efficient enterprise aimed at the improvement of its business-processes, operating in niche segments with a high added value (markets, fields, products) and seeking to create unique value proposition through the best "product-service" offer. Quality management system (QMS) of the Company meets the requirements of the international standard ISO 9001-2015.

Climate declaration

The table below shows the carbon footprint of the product, calculated as carbon dioxide equivalents (kg CO₂ eq.) for 1 kg of carbon steel reinforcement bars and steel wires.

| GWP Total | A1 | A2 | A3 |
|------------------------------------|----------|----------|----------|
| Carbon steel reinforcement bars | 0,24E-01 | 3,28E-04 | 4,99E-05 |
| Zinc coated steel wire | 0,55E-01 | 0,11E-01 | 0,58E-03 |
| Uncoated steel wire | 2,59E+00 | 1,41E-01 | 1,91E-04 |
| Stabilized steel wire | 2,64E+00 | 1,07E-02 | 2,59E-04 |
| Boron alloyed steel billet wires | 2,80E+00 | 1,16E-02 | 5,02E-04 |
| Boron alloy stabilized steel wires | 2,67E+00 | 1,13E-02 | 2,67E-04 |
| Zinc coated steel wire | 4,92E+00 | 1,99E-01 | 5,92E-04 |
| Zinc coated steel wire | 2,53E+00 | 1,94E-02 | 2,23E-04 |

Other environmental impacts

For the full EPD, see www.environdec.com and www.epdrussia.org.

Contact information

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| EPD PROGRAMME: THE INTERNATIONAL EPD® SYSTEM | | REGISTRATION NO: S-P-02296 | VALIDITY: 2026-12-02 |
| PCR: 2012:01, V2.33 | UN CPC: 4124 | PCR REVIEW CONDUCTED BY: THE TECHNICAL COMMITTEE OF THE INTERNATIONAL EPD SYSTEM | |
| INDEPENDENT VERIFICATION OF THE DECLARATION AND DATA, ACCORDING TO ISO 14025: EXTERNAL VERIFIER: INDEPENDENT VERIFIER DR HUDAI KARA, METSIMS SUSTAINABILITY CONSULTING | | ACCREDITED / APPROVED BY: THE INTERNATIONAL EPD SYSTEM | |
| CLIMATE DECLARATIONS FROM DIFFERENT PROGRAMS MAY NOT BE COMPARABLE | | | |
| THIS CLIMATE DECLARATION ONLY ADDRESSES ONE IMPACT CATEGORY AND DOES NOT ASSESS OTHER POTENTIAL SOCIAL, ECONOMIC AND ENVIRONMENTAL IMPACTS ARISING FROM THE PROVISION OF THIS PRODUCT. THESE ASPECTS MAY BE OF EQUAL OR GREATER IMPORTANCE THAN THE IMPACT CATEGORY DISPLAYED | | | |