

General Information

bauforumstahl e.V.

Published by

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Sohnstraße 65
40237 Düsseldorf
Germany

Declaration number

EPD-BFS-20180116-IBG2-EN
EPD-BFS-20180116-IBG2-DE
EPD-BFS-20180167-IBG1-DE

This Annex is based on an Environmental Product Declaration:

Structural steel, 10-2018
Hot dip galvanized structural steel, 12-2018

(EPDs verified independently)

Issue date

2018

Valid to

2023

(Hot dip galvanized) Structural Steel: Sections and Plates

Owner of the Annex

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Industrieverband Feuerverzinken e.V.
Mörsenbroicher Weg 200
40470 Düsseldorf
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Scope:

This environmental product declarations cover blank and hot-dip galvanized steel products rolled out to structural sections, merchant bars and heavy plates, intended for bolted, welded or otherwise connected constructions of buildings, bridges and other structures.

This environmental product declaration are valid for the following products:

Heavy Plates produced by:

- Dillinger with the sites in Dillingen (Germany) and Dunkirk (France)

Hot rolled sections produced by:

- ArcelorMittal on the sites Ostrava (Czech Republic), Differdange (Luxembourg), Dabrowa (Poland), Esch-Belval (Luxembourg), Bergara (Spain), Hunedoara (Romania), Olaberria (Spain), Warszawa (Poland) and Rodange (Luxembourg)
- Peiner Träger (Germany)
- Stahlwerk Thüringen (Germany)

Hot-dip galvanizing of the structural steel is done by the member and partner companies of the Industrieverband Feuerverzinken e.V.

The production shares in this EPD are 30% Basic Oxygen Furnace route (primary steel production) and 70% Electric Arc Furnace route (secondary steel production) based on the total yearly production volume. The data used represent >95% of the annual production of sections and plates from all bauforumstahl member companies.

LEED rating system and Version

LEED v4

Product

Product description

1 t of structural steel (sections and plates). It covers steel products of the grades S235 to S960 rolled out to structural sections, merchant bars and heavy plates.

Application

Structural steels are intended for bolted, welded or otherwise connected constructions of buildings, bridges and other structures, or in composite steel and concrete structures.

Examples:

- single storey buildings (industrial and storage halls, etc.)
- multistorey buildings (offices, residential buildings, shops, car parks, high rise, etc.)
- bridges (railway bridge, road bridge, pedestrian bridge, etc.)
- other structures (power plants, stadiums, convention centers, airports, stations, etc.)

LEED - Materials and Resources (MR)

MR Credit 4: Recycled Content

List of waste materials during construction

Name	Value	Unit
Total weight of the product	1000	kg
Postconsumer recycled content	72	%
Pre-consumer recycled content	12,4	%

MR Credit 4: Recycled Content

Relevant for:

Every product.

Requirements:

Certified Report encouraged but not yet required: Indication of the recycled content distinct to Post- and Pre-consumer recycled content.

Target on building level:

10-20% recycled content based on total costs of the building.

Info:

MR Credit 4: 1-2 points