

Steel flat products for cold forming coated with Magnelis® ZM310

Holder/Issued to

ArcelorMittal Europe - Flat Products
1160 LUXEMBOURG, LUXEMBOURG

Product description

Steel flat products for cold forming coated with Magnelis® ZM310. Products are manufactured in accordance with EN 10346:2015 with steel grades as specified in table 1, table 2 and table 3 of the standard. Magnelis® ZM310 is a corrosion protective alloyed coating composed of zinc, aluminium and magnesium.

Intended use

Products and structures manufactured from steel flat products for indoor- and outdoor applications. Products coated with Magnelis® ZM310 are suitable for corrosivity category C5, according to in SS-EN ISO 12944-2 described class, based on a deemed expected lifetime of 15 years.

Trade name

Magnelis® ZM310

Approval

The product satisfies the requirements set forth in chapter 8, 4 § 1 PBL, in respect to and under conditions stated in this type approval, and is therefore approved in accordance with the provisions of the following sections of Boverket mandatory provisions on application of the European construction standards (Eurocodes), (EKS):

Durability

Section A, 16 §

This type approval does not cover steel flat products that shall be CE-marked according to the Construction Products Regulation (EU) 305/2011.

Associated documents

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Control

The factory production control (FPC) is monitored by an independent inspection body.

Control plan: Ref no. VAS-00347 and VAS-00740 including appendices, Inspection body: Karlsruher Institut für Technologie, KIT.

When the building proprietor performs inspection at the building site, markings shall be checked to ensure that the correct products have been supplied and that they are used in accordance with the conditions in this type approval. Further the product shall be accompanied by a manufacturer's assurance, certifying that the product has been manufactured in accordance with the documents on which this approval is based.

Type Approval SC0559-13 | 2021-12-27

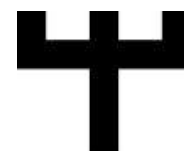
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Manufacturing sites

Production control includes the following places:

ArcelorMittal Belgium – Eurogal plant Chaussée de Ramioul 52, 4400 Yvoz-Ramet – BELGIUM

ArcelorMittal Bremen, Carl-Benz-Straße 30, 28237 Bremen – GERMANY

Marking

Products according to this approval shall be marked. The marking consists of a label on every coil and includes:

Approval holder	ArcelorMittal
Coating plant/Factory code	ArcelorMittal, Belgium or ArcelorMittal Bremen
Boverket's registered trade mark	†
Certification body and accreditation number	RISE Certifying 1002
Product type designation/trade name	Magnelis® ZM310
Technical Approval number	SC0559-13
Description/ Properties	Corrosivity category C5
Consecutive manufacture no./date of production	no./date
Inspection body	KIT

Basis for assessment/approval

Reports 9P05495-01 and 9P05495-01-01 from RISE Research Institutes of Sweden AB.

Reports 2042031-1 and 2042036 from Karlsruher Institut für Technologie, KIT.

Comments

Determination of corrosivity category according to EN ISO 12944-2:2017 table 1 with reference panels according to ISO 9226. Evaluation performed according to NORDTEST method NT MAT 003 in combination with assessments of results from field tests, performed by an independent third part.

The corrosivity class C5 requires an intact corrosion protection coating after installation.

This type approval supersedes the previous type approval with the same number dated 2020-12-08.

Validity

Valid through 2026-12-26.

Validity of this type approval can be verified on our website.

The validity of this type approval expires when the type approved product/s with the intended use according to this type approval shall be CE-marked according to the Construction Products Regulation (EU) 305/2011.

Martin Tillander

This is a translation from the Swedish original document. In the event of any dispute as to its content, the Swedish text shall take precedence