Magnelis ZM310, Corrosion protection

Holder/Issued to

ArcelorMittal Europe - Flat Products
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Organisation number/VAT number: LU19172014
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Product description
Corrosion protection coating, Magnelis ZM310, is a special coating composed by an alloy of zinc, aluminium and magnesium.

Intended use
Intended as corrosion protection of steel sheet for indoor- and outdoor applications.
The corrosion protection is suitable for corrosivity class C5*, according to in SS-EN ISO 12944-2 described class, based on a deemed expected lifetime of 15 years.

*See Comments

Trade name
Magnelis ZM310.

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

EKS
Durability
Section A, 16 §
Durability
Section G, 4 §

Associated documents
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Control
The factory production control (FPC) is monitored by an independent inspection body.
Control agreement: Appendix dated 2014-03-28, Inspection body: Karlsruher Institut für Technologie.
Control agreement: 210-14-0161, Inspection body: RISE Research Institutes of Sweden AB.
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 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.

Manufacturing places
Production control includes the following places:
ArcelorMittal Liège, Yvoz-Ramet, Belgium
ArcelorMittal Bremen, Bremen, Germany

Marking
Products coated with a corrosion protection according to this approval shall be marked. The marking consists of a label on every packing supplied and includes:

- Approval holder/Coating plant: ArcelorMittal / Liége or Bremen
- Boverket’s registered trade mark
- Certification body and accreditation number: RISE Certifiering 1002
- Product type designation/trade name: Magnelis ZM310
- Technical Approval number: SC0559-13
- Description/ Properties: Typgodkänt rostskydd klass C5
- Consecutive manufacture no./date of production
- Inspection body: KIT/RISE

Basis for assessment/approval
Report No. 3P05801A from SP Technical Research Institute of Sweden.
Report IC 820003 rev 00 from French Corrosion Institute.
Report Nr. 1942010-1 from Karlsruher Institut für Technologie (KIT).
Report 8P05884-02 from RISE Research Institutes of Sweden AB.

Comments
The evaluation of corrosivity class C5 is performed according to NORDTEST method NT MAT 003 with reference panels of steel and zinc. References for aluminium and magnesium is not part of this evaluation. Corrosivity class C5 requires an intact corrosion protection after installation. This approval supersedes the previous approval with the same number dated 2014-06-05, valid through 2019-06-04.

Validity
Valid through 2020-11-25.

The validity of this approval expires when the characteristics included in this approval shall be CE-marked according to the Construction Products Regulation (EU) 305/2011.

Signed by: Stefan Coric
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Stefan Coric

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.