



ArcelorMittal

Magnelis®

ArcelorMittal Flat Carbon Europe S.A. provides this warranty to

hereafter referred to as the “Client”

relating to the quality of its Magnelis® ZM310-type coated sheets. Subject to the conditions of this document, this warranty covers the structural integrity, in other words the non-perforation and non-rupture due to corrosion, of Magnelis® steel sheet in up to 1.0 mm thickness, coated with 310 g/m², used for building purposes indoors and outdoors, for a period of 20 years, from the date of shipping by ArcelorMittal.

Magnelis® - Date

ArcelorMittal Flat Carbon Europe S.A.

The Client

20 year warranty
for Roofing & Cladding
in Marine Environment

ArcelorMittal Flat Carbon Europe S.A. subjects its production to accelerated corrosion tests, the results of which act as a guide to continuously improve the quality of its products.

Since start of production, ArcelorMittal Flat Carbon Europe S.A. is taking samples and places them in exterior exposure sites. These samples are checked on a regular basis.

ArcelorMittal Flat Carbon Europe S.A. regularly inspects several objects constructed using Magnelis® in various climatic conditions.

ArcelorMittal Flat Carbon Europe S.A. runs quality assurance systems in line with the requirements of standard ISO 9000 in its production plants.

ArcelorMittal Flat Carbon Europe

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Extent of the warranty

1. ArcelorMittal Flat Carbon Europe S.A.'s liability in pursuance of this warranty shall be exclusively limited, at the choice of ArcelorMittal Flat Carbon Europe S.A., either to the cost of repairing the faulty parts of the sheets or to supplying free of charge to the Client's facilities a sufficient quantity of sheets allowing the Client to manufacture components to replace those deemed faulty (profiled trays, panels etc). The replacement products must be Magnelis® sheets of the same type and with the same specifications as the original sheets.
2. Under no circumstances shall ArcelorMittal Flat Carbon Europe S.A. be liable for labour costs or other costs incurred due to the faulty sheets, or for repairing direct or indirect damage caused by the faulty sheets.
3. All warranty claims shall be sent in writing as soon as possible after the damage occurs to ArcelorMittal Flat Carbon Europe S.A., which shall be allowed to inspect the items deemed to be faulty. The Client shall detail in its claim the precise identification of the materials deemed to be non-compliant, including the order number, the invoice number, the coil number, the shipping date and the installation date.
4. The Client shall do everything possible to facilitate the inspection of the materials by ArcelorMittal Flat Carbon Europe S.A. and to limit building reinstatement costs.
5. This warranty is granted to the Client of ArcelorMittal Flat Carbon Europe S.A. and to the Client alone. It may only be transferred in the event of a change of control of the Client's company, and within 15 days of the change occurring. Only in this case may the remainder of the warranty be transferred to the Client's successor.

Grade	Thickness ≤ 0.75 mm	Thickness > 0.75 mm
DX51 to DX57 S220GD to S390GD HX260LAD to HX420LAD	r = 2 x thickness	r = 4 x thickness

The Client may not provide its own customers with warranties relating to the product sold by ArcelorMittal Flat Carbon Europe S.A. and which would exceed the terms of this warranty.

6. The warranty covers all products shipped from the date of signing of this warranty certificate. ArcelorMittal Flat Carbon Europe S.A. reserves the right to modify the terms of the warranty at any time, with the exception of sheets already delivered or orders already placed.
7. It is agreed that the warranty shall not apply in the event of damage caused during transportation.
8. In the event of a dispute resulting from or in connection with this warranty, the Courts of the City of Luxembourg shall have exclusive jurisdiction in relation thereto. This warranty is governed by Luxembourg law. Only the English version of this text shall be deemed authentic.

Application conditions

The 20 year warranty applies to all buildings:

1. Situated in areas with a distance of at least 300 m and up to 2000 m from the seafront (atmospheric corrosivity category C5-M for steel from EN ISO 12944-2). Buildings exposed to permanent spraying with fresh water or sea spray are excluded from the warranty.

The warranty applies to Magnelis® sheets used for roofing and cladding in buildings situated in geographical Europe and North Africa.

It covers the following European countries: Norway, Sweden, Finland, Denmark, Ireland, United Kingdom, Netherlands, Belgium, Luxembourg, Germany, Poland, Estonia, Latvia, Lithuania, Byelorussia, Ukraine, Czech Republic, Slovakia, Austria, Switzerland, France, Spain, Portugal, Italy, Slovenia, Croatia, Hungary, Romania, Bulgaria, Greece, Moldavia and Russia West of 60° east longitude.

It covers the following North African countries: Morocco, Algeria, Tunisia, Libya and Egypt.

2. Exposed to moderate corrosive

emissions, in other words excluding those subject to industrial pollution (SO₂) or to the fallout of corrosive chemical products of any kind, smoke or rainwater containing carbon, deposits or particles of heavy metals such as iron or copper, alkaline products such as ash, cement dust or animal excrement.

Construction rules

To ensure the warranty applies, the following rules must be complied with during installation.

1. Internal bending radii must be at least equal to the values in the given table.
2. For use as roofing, this shall be designed so that there is no possibility of water or waste – organic or otherwise – stagnating on the Magnelis®, including right on the fixings and under the profile overlaps.
3. The slope of the roof shall be at least 2 degrees.
4. Fixings shall not contain any copper or lead parts in direct contact with the Magnelis® sheet, or any material liable to cause corrosive run-off onto the Magnelis® sheet. They shall be suitably shaped to prevent any local indentation of the Magnelis® sheets, which may prevent rainwater from draining off freely.
5. Forming shall occur without subjecting the Magnelis® sheet to high tensile stress or alternating bending stress.
6. Magnelis® sheets that have sustained damage of a mechanical or chemical nature during forming, transportation, storage or assembly shall not be used. Sheets that sustain damage after assembly shall be replaced before construction work comes to an end.
7. All contact with wet insulation materials, impregnated wood and other corrosive products is to be avoided.
8. After fitting, all tools, debris and miscellaneous items must be removed. Pencil or pen marks and any other type of marking must be removed. Magnelis® roofs are to be inspected annually by the Client or its authorised representative. They are to be cleaned regularly and any accidental damage noted is to be repaired (scratches, dents etc).