



MetFloor & Magnelis® ZM310 / ZM430

Standard MetFloor products are manufactured in galvanised steel in accordance with BS EN 10346 & BS EN 10143 for continuously hot dipped structural steel strip. This results in a minimum zinc coating total mass of 275g/m².

MetFloor profiles can also be manufactured using the ArcelorMittal Magnelis® Coating. This is generally specified for more demanding or aggressive C4 and C5 environments and may provide up to ten times more protection than standard galvanising.



COATING THICKNESS: 25µm
- METALLICS (ZM310) BS EN 10346

SURFACE TREATMENT C (E-Passivation®
CrVI-free, O (oiled))

TYPICAL STEEL GRADES AVAILABLE FROM CMF S350GD + ZM

COATING

The Magnelis® Coating is a unique metallic steel coating that is used in a range of applications and offers long-term surface protection and highly effective corrosion resistance. Magnelis® ZM310 provides 310g/m² of coating mass which equates to a thickness of 25µm (micron) per side. The unique composition contains 3.5% aluminium and 3% magnesium. The Magnesium content ensures a stable and durable protective layer, with excellent self-healing properties. (Magnelis® online: <http://industry.arcelormittal.com/magnelis>)

LIFESPAN

The expected life time provided by ArcelorMittal Magnelis® is the estimated duration of effective protection of the steel substrate. The following table displays the estimated life time based on ArcelorMittal's extensive accelerated tests:

Application / Category		Lifespan	Guarantee
C3 Exterior: urban inland or mild coastal		> 60 years	Guarantee is dependent upon location and environmental category, provided on a project by project basis.
C4 Exterior: industrial inland or urban coastal		> 40 years	
C5 Exterior: high salinity coastal (>300m from sea)		> 30 years	
C3 Interior: moderate condensation and/or pollution	e.g. food processing, laundry, brewery	> 45 years	
C4 Interior: high frequency condensation and/or pollution	e.g. swimming pools, fabric factory	> 30 years	

NB: Lifespans may vary with project location and usage – must be confirmed per project

When utilised in more corrosive environments, such as car park structures, additional steps to ensure adequate waterproofing, drainage and crack mitigation must be taken.

WELDING

Due to access for coating repair being impractical to the underside of decking at beam locations, Magnelis® is considered as not suitable for through deck stud welding. CMF recommend single span decking with pre-studded beams for Magnelis® applications.

STANDARD GALVANIZED Z275

ARCELORMITTAL MAGNELIS® »

Note: Magnelis® coated MetFloor decking is a non-standard product; supply is subject to minimum volume and contract assessment.

For further information please contact CMF:

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Magnelis® is a registered trademark of ArcelorMittal.



Construction Metal Forming
Unit 3, Mamhilad Technology Park,
Old Abergavenny Rd, Mamhilad,
Monmouthshire, NP4 0JJ.

Customer services: 01495 761 080
Sales enquiries: 01485 788 936
Technical support: 01495 788 937

e: info@cmf.uk.com | www.cmf.uk.com