



Construction  
Metal Forming



ArcelorMittal

Enhanced corrosion resistant  
metallic coating

# MetFloor & Magnelis® ZM310

MetFloor®

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/m<sup>2</sup>.

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:  
- METALLICS (ZM310)** 25µm  
BS EN 10346

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

**TYPICAL STEEL GRADES  
AVAILABLE FROM CMF** S350GD + ZM  
S450GD + 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/m<sup>2</sup> 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:

Lifespan	Application / Category	
> 60 years	C3 Exterior: urban inland or mild coastal	
> 40 years	C4 Exterior: industrial inland or urban coastal	
> 30 years	C5 Exterior: high salinity coastal (>300m from sea)	
> 45 years	C3 Interior: moderate condensation and/or pollution	e.g. food processing, laundry, brewery
> 30 years	C4 Interior: high frequency condensation and/or pollution	e.g. swimming pools, fabric factory

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.

STANDARD GALVANIZED Z275

ARCELORMITTAL MAGNELIS® ZM310 »

For further information please contact CMF:

September 2018; v2.1

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 761080

Sales enquiries: 0121 389 5064

Technical support: 0121 389 5069

e: [info@cmf.uk.com](mailto:info@cmf.uk.com) | [www.cmf.uk.com](http://www.cmf.uk.com)