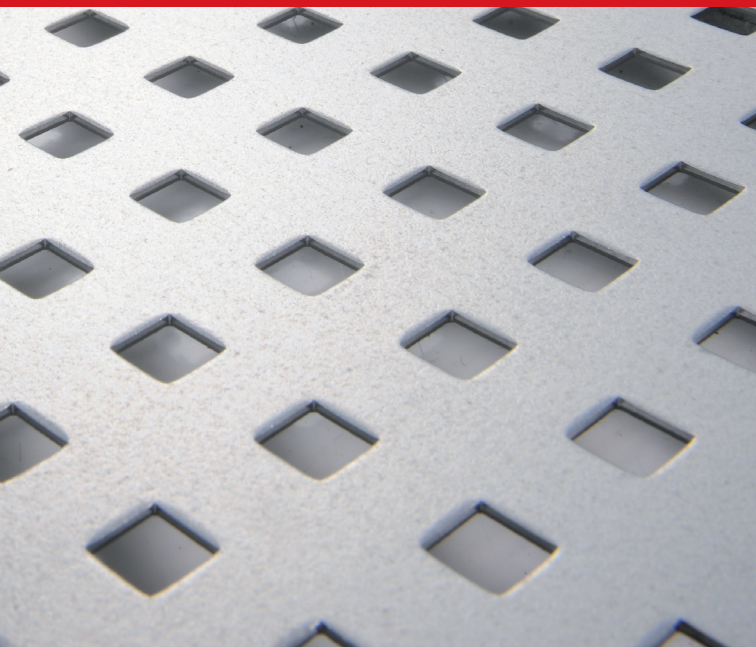


Because not all Hot-dip galvanising is alike

Magnelis[®] – the zinc-aluminium-magnesium-coating

- **The best corrosion resistance performance:**
up to 10 times better than galvanised steel
- **Superior corrosion resistance in chloride and ammonia environments**
- **Environmentally friendly**
- **Self-repairing protection for cut edges**



Superior corrosion resistanc

Nothing offers better protection than Magnelis® in chloride or ammonia environments. Due to its unique chemical composition, Magnelis® provides **superior corrosion resistance** than standard hot dip galvanised steel.

The destruction of coating that occurs in an ammonia environment is seven times less with Magnelis® than with a standard zinc coating. In addition, Magnelis® guarantees a longer-lasting, active coating protection over time.

Metallic coatings features comparison

Product features

Anti-corrosion properties

In a chloride environment(marine site, swimming pool)

In an ammonia environment (stable, farm, greenhouse)

In an SO₂ environment (acid industrial environment)

Temporary protection (transport, storage)

Edge protection (heavy gauge, perforated sheet)

Corrosion of a deformed part (bent or stamped)

Forming properties

Bending & roll-forming

Drawing

Assembling properties

Spot welding Reference = (equivalent thickness)

Aspect

Visual appearance

Range

Magnelis® coating range

Coating thickness (µm/per side)

Steel grades

Surface aspect

Surface treatment

Thickness range

Width range

* Brand of ArcelorMittal

Self-repairing protection on cut edges

In addition to being fortified by a cathodic protection equivalent to zinc coating, Magnelis® protects exposed cut edges with a thin zinc-based protective film with magnesium, which prevents corrosive reactions.

The nature of this film varies depending on the environment and the properties according to the aluminium and magnesium content.

HDG Zn	Magnelis®*
Reference	+++
Reference	++
Reference	+
Reference	+++
Reference	+++
Reference	++
Reference	+
Reference	+
Reference	=
Reference	=
ZM90	ZM310
7	25
DX51D to DX57D +ZM HX260LAD to HX420LAD +ZM	H240D +ZM
MA	
C (E-Passivation® CrVI-free)	
From 0,45 mm to 6 mm	
Up to 1.680 mm	

= Equivalent + Superior - Inferior

Environmentally responsible

The application of Magnelis® ensures the preservation of natural resources since it uses less zinc than pure zinc coatings.

Moreover, like Aluzinc®, Magnelis® reduces considerably the zinc runoff* in soils.

* Runoff rate: the rate of dissolution of a material from its surface into the external environment (in g/m²/year). In our case: 1.5 the quantity of zinc washed from the surface by falling rain water.

By courtesy of:

ArcelorMittal Europe – Flat Products

industry.arcelormittal.com/magnelis

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