

ZM EcoProtect®

No room for corrosion



CONSTRUCTION

ThyssenKrupp Steel Europe
Thinking the future of steel



ThyssenKrupp

ZM EcoProtect® is an anti-corrosion coating with features that make it ideal for numerous uses in the construction industry. The high-quality zinc-magnesium coating offers high corrosion protection as well as enhanced cost efficiency, improved eco-friendliness and outstanding processing properties for a variety of parts and applications.

SEAL OF SPECIAL QUALITY

Corrosion protection: enhanced

The special zinc-magnesium coating ZM EcoProtect® offers much greater corrosion resistance than a conventional hot-dip zinc coating. That's not just an advantage in contact with, for example, salt-containing media, but also provides enhanced protection of cut edges.

Coating weight: reduced

The corrosion resistance of ZM EcoProtect® is so high that even with a significantly reduced coating thickness the same level of protection is achieved. The resultant zinc savings contribute to efficient, eco-friendly use of resources.

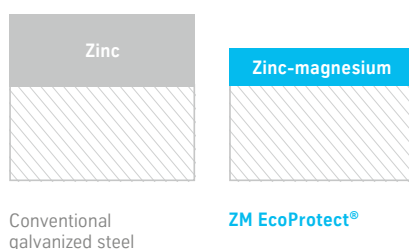
Cost efficiency: increased

Outstanding corrosion protection means parts last longer, contributing to increased cost efficiency. In addition, the use of ZM EcoProtect® means costly post-galvanizing can be dispensed with.

Formability and paintability: good

When it comes to processing, ZM EcoProtect® outperforms conventional galvanized steel. Better forming properties are part of this, as is good paintability and suitability for all thermal and mechanical joining techniques.

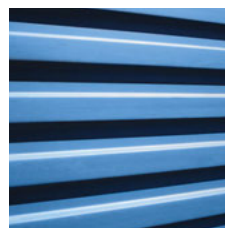
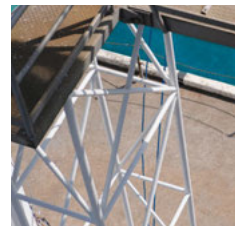
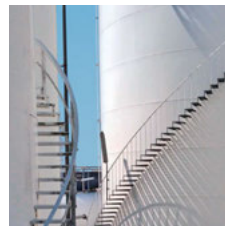
Reduction of metallic coating weight




A SOUND LONG-TERM CHOICE

Where ZM EcoProtect® pays off

Durability, ease of processing and cost efficiency are particularly important in industrial construction. That's why ZM EcoProtect® with its outstanding quality features is the number one choice for racks, cable ducts, silos, profiles, scaffolds, window profiles, garage doors, trapezoidal profiles, sandwich panels, liner trays plus (powder) color coating.





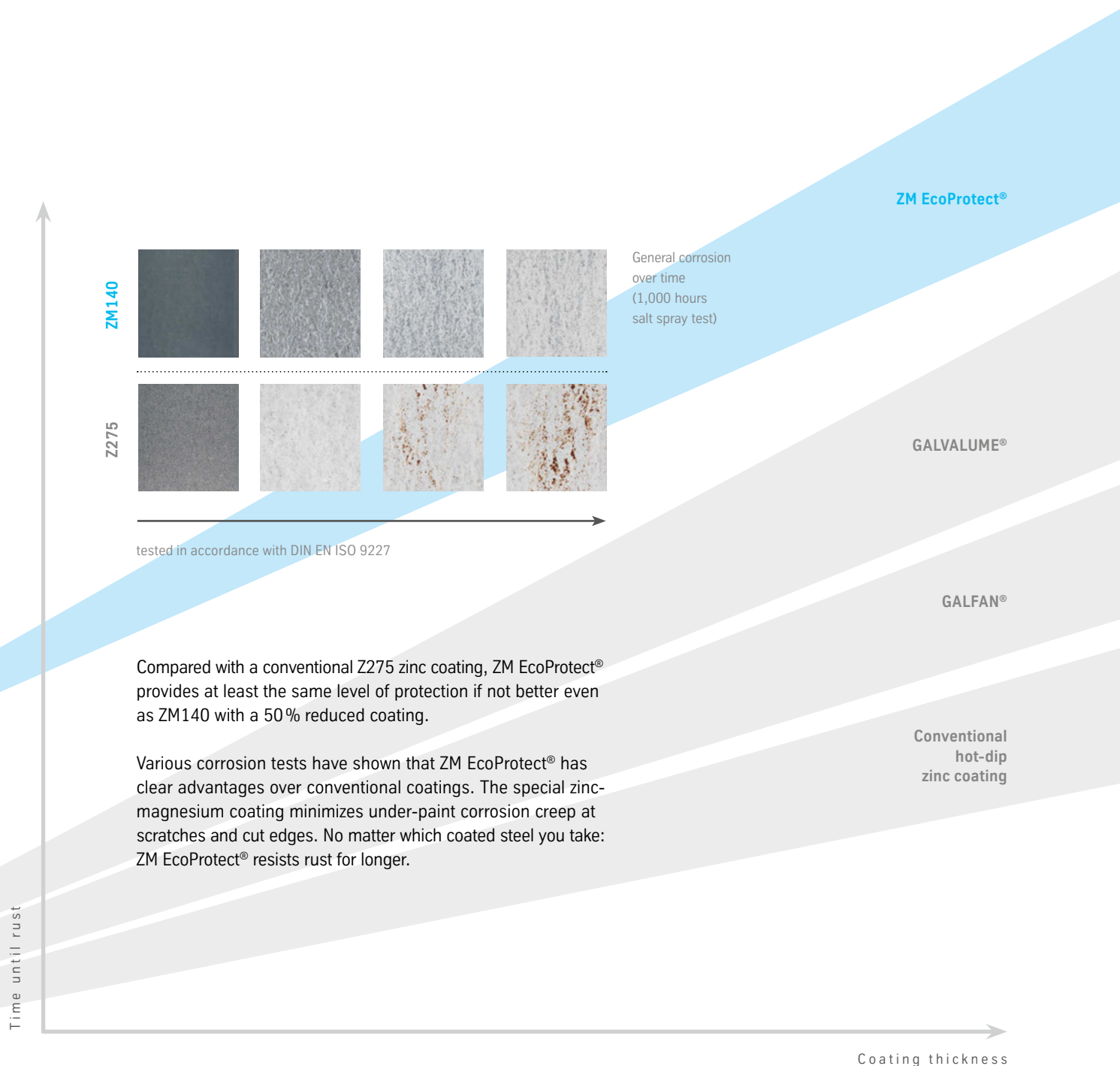
How ZM EcoProtect® pays off

ZM EcoProtect® with its special composition of at least 1 % aluminum and 1 % magnesium provides not only longer product life but also a long list of impressive quality features.

- Increased corrosion protection, even with reduced coating weight
- Enhanced corrosion protection on bend shoulders and cut edges
- Resistant to under-paint corrosion creep
- High weathering resistance (validated in salt spray test)
 - in humid and rough climates (corrosion-promoting environment)
 - in agriculture (chloride- and ammonia-containing and highly alkaline environments)
- Straightforward bonding and welding (comparable with zinc)
- Cost-effective alternative to post-galvanizing
- Conserves resources through reduced zinc usage
- Good protection during long storage periods (oiled, chemically passivated or sealed)

COMPARISONS SHOW: NOTHING COMPARES

**Whether compared with a conventional zinc coating
or with other metallic coatings: ZM EcoProtect® is
always the better option.**



Availability

Coating weights: 70, 80, 100, 130, 140, 200, 275, 300g/m², Post-treatment: oiled, chemically passivated, sealed

Deep-drawing steel	
DIN EN 10 346	
Steel grade designation	Standard designation
DX51D	DX51D
DX52D	DX52D
DX53D	DX53D
DX54D	DX54D
DX56D*	DX56D*
Hot-dip coated structural steel	
DIN EN 10 346	
Steel grade designation	Standard designation
S220GD	S220GD
S250GD	S250GD
S280GD	S280GD
S320GD	S320GD
S350GD	S350GD
S390GD	S390GD
S420GD	S420GD
S450GD	S450GD
High-strength IF steel	
DIN EN 10 152, DIN EN 10 268, DIN EN 10 346	
Steel grade designation	Standard designation
HX 180	HC180Y/HX180YD
HX 220	HC220Y/HX220YD
HX 260	HC260Y/HX260YD
Microalloyed steel	
DIN EN 10 152, DIN EN 10 268, DIN EN 10 346	
Steel grade designation	Standard designation
MHZ 260	HC260LA/HX260LAD
MHZ 300	HC300LA/HX300LAD
MHZ 340	HC340LA/HX340LAD
MHZ 380	HC380LA/HX380LAD
MHZ 420	HC420LA/HX420LAD

* = not in finish C

All the ingredients for joint success.

As one of the world's leading suppliers of premium flat carbon steel we believe it is vital not just to rely on our vast research, development and production expertise but also to cooperate closely with our customers. Specifically, this means:

- Working together from new idea to market launch
- Support on technical and quality issues
- Advice on products and processes
- Continuously reexamining and improving our services

Working in partnership, bringing together all these ingredients, we can develop material solutions that move our customers forward.

When can we start working with you?

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