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ZALMAX™

ZINC-ALUMINIUM PIPE & HOLLOW SECTIONS

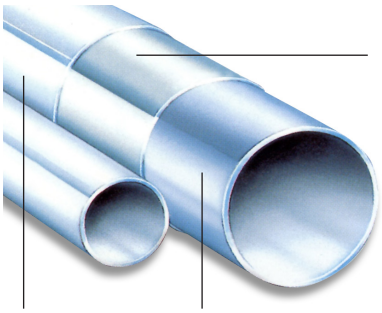
Steel & Tube's new Zalmax™ Zinc-Aluminium-Magnesium (Zn-Al-Mg) **coated high strength dual grade pipe** (350L0-AS/NZS 1163 & AS 1074) **and RHS/SHS** (350L0 AS/NZS 1163) **offers new-generation coating technology compared to traditional galvanised products. Zalmax™ offers a step-change in corrosion performance over standard mill-galvanized hollow sections, without the need for post-fabrication galvanizing in appropriate applications.**

Supplied with a standard coat weight of ZM200, a range of coatings from Z120 to Z275 are available on request. There is a superior cost efficient Zalmax™ solution, whatever the end use or application.

Made from Zinc (Zn), Aluminium (Al) and Magnesium (Mg) coated coil, the advanced Zalmax™ coating system provides corrosion performance which in appropriate, controlled applications, can remove the need for post-fabrication hot-dip galvanizing of standard mill-finished ('black') steel. Zalmax™ (ZM200) pipe and hollows (RHS/SHS) have a minimum average coating mass of 100g/m² inside which completely protects the surface of the steel.

- + Excellent coating adhesion
- + Superior resistance to corrosion and abrasion
- + "Self-Healing" oxide coating
- + Strong ductility & elasticity - reduced surface cracking
- + Environmentally friendly





- > Surface Barrier Coat (8 microns)
- > Coil Cleaned Surface Class 3 Blast

- > Coil coated both sides in 95% Zinc / 5% Aluminium and Magnesium continuous hot dip coating process
- > Pipe cold rolled and ERW welded
- > Zn/Al thermal coating spray weld repair

CORROSION & COATING PERFORMANCE

Advanced ZAM Coating Technology

Zalmax™ is manufactured from Zinc–Aluminium–Magnesium (ZAM) coated coil, combining zinc's traditional galvanic protection with the enhanced barrier performance of aluminium and magnesium.

The 95% Zn / 5% Al-Mg alloy coating promotes the formation of a stable protective surface layer that helps slow corrosion progression and maintain coating integrity over time. This alloy structure also supports improved cut-edge performance compared with conventional mill-applied galvanized (Z) coatings.

Enhanced Performance Over Conventional Mill-Galvanized Products

Published atmospheric exposure testing and field performance data for ZAM-coated steels demonstrate improved corrosion resistance and edge performance relative to traditional in-line galvanized coatings.

This makes Zalmax™ a strong alternative to standard mill-galvanized hollow sections in demanding light-to-medium structural applications.

Why Choose Zalmax™?

Feature	Conventional Mill Pre-Galvanized (Z)	Zalmax™ (ZAM)
Cut-edge protection	Standard	Enhanced
Coating integrity after forming	Standard	Improved
Paint finish suitability	Moderate	Excellent
Surface finish consistency	Standard	Improved
Corrosion performance	Standard	Enhanced

Comparisons are indicative only and relate to conventional mill-applied galvanized (Z) coatings in comparable applications.

Application Guidance

Zalmax™ is suited to light to medium structural applications manufactured in controlled fabrication environments, including modular, prefab and engineered systems.

For heavy fabrication, higher exposure conditions or long-design-life applications, Steel & Tube's Perry Metal Protection hot-dip galvanizing services remain the appropriate solution.

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SPECIFICATION SHEET
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With a smooth even coat, Zalmax™ is an easy option for all paint finished fabrications, providing a superior result and the added benefit of an additional corrosion protection barrier for the steel if scratched, ideal for demanding manufactured and engineered applications.

Quality counts! Zalmax™ pipe and RHS/SHS are made to the AS/NZS standards, by an industry leading third-party accredited mill. All product is certified and traceable, to ensure you receive the safest and highest quality hollow section every time.

Experience the Zalmax™ advantage in a variety of uses such as scaffolding and fencing, agricultural products, shelters and greenhouses, gates, trailers and other manufactured products or fabricated structures.

Provide your engineered solution a point of difference, contact Steel & Tube today for more information on Zalmax™ Pipe and Hollows.

Try the Zalmax™ advantage today!

- The (Zn/Al/Mg) galvanised, smooth, even, and ductile coating provides a superior finish
- In comparable environments and applications, Zalmax offers improved corrosion performance relative to conventional zinc-coated products [1]
- No preparation required for painted applications
- No costly outsourcing to galvanizers of black RHS / SHS / Pipe
- Versatile Dual Grade pipe specification for structural (AS/NZS 1163) and reticulation (AS 1074)
- Converting to high grade Zalmax™ 350L0 Pipe provides an opportunity to drop wall thickness, meaning lighter fabrications, less carbon, and more metres per tonne in application.[2]

Product size	2mm	2.5mm	2.6mm	3mm	3.2mm	3.6mm	4mm	5mm
RHS / SHS								
25 x 25mm		P0089010						
35 x 35mm		P0089011						
40 x 40mm		P0089012		P0089000			P0089019	
50 x 25mm		P0089013						
50 x 50mm		P0089014		P0079435			P0089020	P0089024
65 x 65mm		P0089015		P0089017				
75 x 50mm				P0079436			P0089004	
75 x 75mm		P0089016		P0089001			P0089021	P0089006
100 x 100mm				P0079437			P0089022	P0089018
100 x 50mm				P0079439			P0089005	P0089007
125 x 75mm				P0089003			P0089023	P0089008
150 x 50mm				P0079438				P0089009
PIPE								
25NB x 3.2	High grade Zalmax™ 350L0 Pipe enables the opportunity to drop to a light wall thickness pipe for some end use applications[3]				✓			
32NB x 3.2					✓			
40NB x 3.2					✓			
50NB x 3.6						✓		
65NB x 3.2					✓			
65NB x 3.6						✓		
80NB x 3.2					✓			
100NB x 3.6						✓		

N.B: Indicative range – other sizes (e.g. 1.6mm, 3.5mm) are Price On Application

1. 'Pre-Hot-Dip 5% Al-Mg-Zn AMZCOT' Product Guide, E-United Group
2. Zalmax™ 350L0 Pipe has higher guaranteed strength compared to AS1074 pipe, allowing lighter weight pipe to be used in appropriate circumstances

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Example applications

