# Data Sheet G300



# Metal Coated - ZINCALUME® - Structural

Revision: 09/07/2025

## **General Description**

ZINCALUME® G300 steel is a hot-dipped aluminium/zinc/magnesium alloy-coated structural steel with guaranteed minimum yield strength of 300MPa with good ductility. Suitable for roll forming to a minimum internal diameter of 1t.

# **Applications**

- · Rainwater goods
- Gutters
- · Garden sheds
- Roofing
- Cladding

### **Standards**

- AS/NZS 1397:2011
- AS/NZS 1365:1996

CHEMICAL COMPOSITION	TYPICA	L (wt%)	EXPECTED MAXIMUM (wt %) [1]				
	≤0.8mm	>0.8mm	≤0.80mm	>0.80mm			
Carbon (C)	0.035 - 0.070	0.06 - 0.100	0.07	0.10			
Manganese (Mn)	0.14 - 0.25	0.50 - 0.70	0.25	0.70			
Sulphur (S)	0.01 - 0.02	0.00 - 0.02	0.03	0.03			
Phosphorus (P)	0.01 - 0.02	0.00 - 0.02	0.03	0.03			
Silicon (Si)	0.00 - 0.03	0.00 - 0.02	0.03	0.03			
Aluminium (AI)	0.03 - 0.07	0.03 - 0.07	0.08	0.08			

<sup>[1]</sup> Values shown refer to relevant Australian / New Zealand standards unless tighter internal limits are applied.

MECHANICAL PROPERTIES	EXPECTED MINIMUM				
Yield strength, MPa	300				
Tensile strength, MPa	340				
Elongation, % on Lo= 50mm (≥0.6mm)	20				
180° transverse bend	1t				

Typical Mechanical Properties are based on typical product dispatched to customers. Note that ductility will decline through a natural aging process during storage and/or paint stoving cycle.

COATING ADHESION - 180° BEND TEST								
COATING CLASS	GUARANTEED							
AM125	1t							

Other coating classes may be available by enquiry.

DIMENSION CAPABILITIES								
WIDTH (mm)								
70 – 1082								
70 – 1193								
70 – 1250								

Slitting is available on request from New Zealand Steel.

These dimensions are a reflection of technical capability to produce. Supply conditions may be subject to dimensional restrictions and is subject to New Zealand Steel Marketing confirmation. Other dimensional combinations may be available by enquiry.



FABRICATING PERFORMANCE  1 = Limited 5 = Excellent NR= Not Recommended								
METHOD	RATING							
Drawing	2							
Pressing	2							
Bending	5							
Roll-forming	5							
Welding	4							
Painting (Pre-treatment)	5							

AVAILABLE FINISHES								
	NORMAL	OPTIONAL						
Surface Condition	Finely spangled	-						
Surface Treatment	Passivated & Resin coated	Oiled						
Branding	Branded	Unbranded						

Material should be used promptly (within 6 months) to avoid the possibility of storage related corrosion.

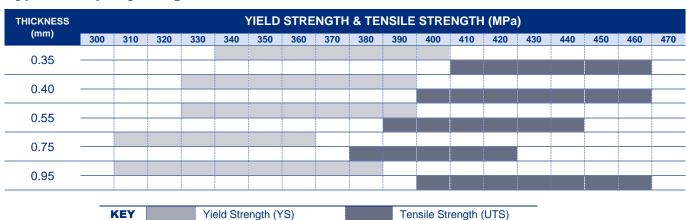
Mechanical properties are guaranteed at ambient/room temperatures. Please consult technical representatives at New Zealand Steel for high/low temperature use.

In the as-oiled state long-term corrosion, resistance cannot be guaranteed. Further surface treatment/coating is required.

## **Packing**

Despatched material will be packed appropriately providing protection against weather and transit damage.

# **Typical Property Ranges**



THICKNESS	TOTAL ELONGATION (%) GL= 50mm																
(mm)	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
0.35																	
0.40																	
0.55																	
0.75																	
0.95																	

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