

Product

ZINCALUME® G300 steel is a hot-dipped Al-Zn 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.

Typical Uses

Roofing, Cladding, General Manufactured Articles

Standard*

Certified Standard: IS 15961

Reference Standard : ASTM A 792M, ISO 9364, AS1397

Properties of Steel Base

Mechanical Properties	Guaranteed Minimum
Logitudinal Tensile	
Yield Strength, MPa	300
Tensile Strength, MPa	340
Elongation on 80 mm, %	18

Chemical Composition of Steel Base

Element	Guaranteed Max(%)
Carbon (C)	0.25
Manganese (Mn)	1.7
Phosphorus (P)	0.050
Sulphur (S)	0.045

Values shown refer to relevant standard unless specifically agreed to Other elements that are not harmful for the application may be present

Coating Class

Coating Class	Minimum Coating - Total Both Surfaces, g/m ²	
	Triple Spot Test	Single Spot Test
AZ150	150	135
AZ200	200	180

Coating Adhesion - 180° Bend Test

Coating Class	Guaranteed Minimum
AZ150 / AZ200	1t

Dimension Range & Tolerances

Range	Base Metal Thickness (mm)	
	Tolerance	
	Width ≤ 1200	Width > 1200
0.30 - 0.50	± 0.03	± 0.04
0.51 - 0.80	± 0.04	± 0.05
0.81 - 1.20	± 0.05	± 0.06
1.21 - 1.30	± 0.06	± 0.07

Width (mm)	
Range	Tolerance
< 900 (in slit edge)	+1 / - 0
914 - 1000	+ 4 / - 0
1001 - 1250	+ 5 / - 0

Fire Hazard Properties (AS/NZS 1530.3)

Index	Range	Rating
Ignitability Index	0-20	0
Spread of Flame Index	0-10	0
Heat Evolved Index	0-10	0
Smoke Developed Index	0-10	0-1

Supply Conditions

This literature supersedes all previous issues.

Supply Condition	Normal	Optional
Coating Class	AZ150**	AZ200***
Surface Condition	Spangled	–
Surface Treatment	Passivated and Resin coated	Passivated and Resin coated
Branding	Branded	Branded
Flatness Tolerance***	A Class	A Class

* Metallic coating of minimum 150 g/m², ** Metallic coating of minimum 200 g/m², *** Dimensional and shape tolerances as per IS/ISO 16163 # where 1 = limited to 5 = excellent, NR = not recommended

Fabrication Performance

Method	Rating#	Method	Rating#
Drawing	2	Lock Forming/ Seaming	5
Pressing	2	Welding	4
Bending	5	Painting	NR
Roll-forming	5		

where 1 = limited to 5 = excellent, NR = not recommended

Material should be used promptly (within 6 months) to avoid the possibility of improper storage related corrosion & change in performance due to ageing

Typical Property Ranges (For Normal Supply Product)

Yield Strength (MPa)		
	Minimum	Maximum
0.35	330	400
0.45	320	390
0.75	315	385
1.0	310	375
1.2	300	370
Tensile Strength (MPa)		
0.35	410	460
0.45	400	450
0.75	395	440
1.0	385	430
1.2	375	420
Total Elongation on 80mm (%)		
0.35	18	28
0.45	20	30
0.75	23	31
1.0	25	32
1.2	25	32

Note:

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