

Product

ZINCALUME® 340 Class 2 steel is hot dipped Al-Zn (55% Al, 43.5% Zn, 1.5% Si) alloy coated steel with guaranteed minimum yield strength of 340 MPa with good ductility.

Typical Uses

Roofing, Cladding, Rain Water Goods

Standard*

ASTM A 792M

*Other standards (e. g. AS 1397, ISO 9364, IS15961, etc.) and grades on specific agreement

Properties of Steel Base

Mechanical Properties	Guaranteed Minimum
Logitudinal tensile	
Yield Strength, MPa	340
Tensile Strength, MPa	-
Elongation on 50 mm, %	12
Hardness, HR30T	50 - 70

Chemical Composition of Steel Base

Element	Guaranteed Max# (%)
Carbon (C)	0.25
Manganese (Mn)	1.35
Phosphorus (P)	0.20
Sulphur (S)	0.04

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
AZM150	150	130
AZM165	165	150
AZM180	180	155
AZM210	210	180

Coating Adhesion - 180° Bend Test

Coating Class	Guaranteed Minimum
AZM150 / AZM165 AZM180 / AZM210	2t

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

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

**For requirements beyond the standard product range & tolerance, please contact Tata BlueScope Steel Office

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

Supply Condition	Normal	Optional
Surface Condition	Spangled	-
Coating Class	AZM150	AZM165, AZM180, AZM210 ⁱ
Surface Treatment	Passivated and Resin coated	Passivated (for post painting) ⁱⁱ
Branding	Branded	Unbranded
Tolerance Class		
1. Dimensions	A Class	-
2. Flatness	A Class	-

i) Dimensional and shape tolerances as per ASTM A 924M, ii) Product without Resin will not have "Anti-Fingerprint" quality.

Fabrication Performance

Method	Rating [#]	Method	Rating [#]
Drawing	-	Lock Forming	4
Pressing	3	Welding	4
Bending	5	Painting with Pre-treatment	5
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
0.45	350	450
0.60	340	400
0.80	340	390
1.00	340	420
1.20	340	430
	Tensile Strength (MPa)	
	Minimum	Maximum
0.45	430	490
0.60	430	490
0.80	420	500
1.00	410	530
1.20	410	530
	Total Elongation on 50mm (%)	
	Minimum	Maximum
0.45	18	28
0.60	20	30
0.80	22	30
1.00	23	31
1.20	24	32

Note:

©2015 Tata BlueScope Steel Ltd. All rights reserved. This brochure and its content is copyright of Tata BlueScope Steel Ltd. No part of this brochure may be reproduced or transmitted in any form or by any means, electronic or mechanical including photocopy, recording, or any information storage and retrieval system, without permission in writing from Tata BlueScope Steel Ltd.

ZINCALUME® steel is a registered trademark of BlueScope Steel Limited under license to Tata BlueScope Steel Limited.