



ZINCALUME® G550 Steel

**TATA BLUESCOPE
STEEL**

Technical Data Sheet

Document no.: 008

Revision no.: 01

May 2025

This literature supersedes all previous issues.

Product

ZINCALUME® G550 steel is a hot-dipped Al-Zn alloy coated structural steel with a regular spangle surface and guaranteed minimum yield strength of 550 MPa with limited ductility. Suitable for roll forming to a minimum internal diameter of 4t.

Typical Uses

Roofing, Cladding, Structural sections

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	550
Tensile Strength, MPa	550
Elongation on 80 mm, %	-

For thickness \geq 0.60 mm

Note: *AS 1397, **ASTM A792M, #IS 15961

On request, the steel can be produced with micro-alloying elements, such as Boron, either individually or in combination, up to a maximum limit of 0.006%.

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	2t

Dimension Range & Tolerances

Range	Base Metal Thickness (mm)	
	Tolerance	
	Width \leq 1200	Width $>$ 1200
0.30 - 0.50	\pm 0.03	\pm 0.04
0.51 - 0.80	\pm 0.04	\pm 0.05
0.81 - 1.20	\pm 0.05	\pm 0.06
$>$ 1.20	\pm 0.06	\pm 0.07

Width (mm)	
Range	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

This literature supersedes all previous issues.

Supply Conditions

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	-	Lock Forming/ Seaming	NR
Pressing	-	Welding	4
Bending	1	Painting	NR
Roll-forming	3		

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	580	710
0.42	570	700
0.60	560	700
1.00	550	670
1.20	550	650
	Tensile Strength (MPa)	
0.35	600	790
0.42	590	770
0.60	590	760
1.00	580	700
1.20	580	680
	Total Elongation on 80 mm (%)	
0.35	1	3
0.42	1	4
0.60	2	7
1.00	2	8
1.20	4	11

Note:

©2025 Tata BlueScope Steel Pvt.Ltd. All rights reserved. This brochure and its content is copyright of Tata BlueScope Steel Pvt. 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 Pvt. Ltd. ZINCALUME® steel is a trademark of Tata BlueScope Steel.



1800 270 8333

TOLL FREE

Email: contact@tatabluescopesteel.com

Follow us on Social Media



Explore More
Download
Tata BlueScope Steel App
Available on the App Store | Get it on Google play

Tata BlueScope Steel Pvt. Ltd.
CIN: U45209PN2005PTC020270
Floor no. 9 & 10, Kalpataru Infinia, Wakdevadi,
Final Plot no. 21, Sub plot no. 3 at CTS no. 15/1
Shivajinagar, Pune - 411003, India.
Tel: +91 2066218000 | Website: www.tatabluescopesteel.com