

# Is your roofing, walling & light structural steel compliant?



Steel made by BlueScope Steel meets the requirements of the relevant Australian Standards referenced by the BCA. Is your steel compliant? Know the risks. Get the facts.

The risks of using imported steel	The facts – steel made by BlueScope Steel
It may not automatically meet the “deemed to satisfy” requirements of the Building Code of Australia (BCA).	✓ Steel made by BlueScope Steel meets the requirements of the relevant Australian Standards referenced by the Building Code of Australia (BCA).
It may not have been tested, for as long or as rigorously in the Australian environment.	✓ BlueScope Steel has been rigorously testing and improving its steel products for over 40 years. There are now thousands of test samples undergoing exposure in many test sites and environmental conditions in Australia.
The minimum single-spot coating mass requirement in the American Standard ASTM A792M is lower than required by the Australian Standard AS1397:2001. If the lower coating mass side is exposed, the material may not perform the same as an AS1397:2001 compliant product.	✓ All steel made by BlueScope Steel is quality assured to meet or exceed Australian Standards. Both sides of BlueScope Steel metallic coated products have a minimum coating requirement as defined by AS1397:2001.
It may have base steel properties that are different to those required by Australian Standards and therefore may have lower ductility and be more prone to cracking under design load.	✓ All steel by BlueScope Steel is quality assured to meet or exceed Australian Standards which can specify minimum requirements for mechanical properties eg. ductility.
Who would back up your warranty if your steel failed?	✓ BlueScope Steel stands by its reputation as Australia’s leading flat steel maker with local on the ground technical support and a range of warranties* for various applications.
If the metallic coated steel product is not legibly and durably marked with ‘AS1397’ then it may not comply with AS1397:2001. This requirement does not apply to pre-painted steel products.	✓ Metallic coated steel products made by BlueScope Steel that meet AS1397:2001 are legibly and durably marked to visibly show compliance. This marking is a requirement of this Australian Standard.
Many foreign standards use Total Coated Thickness (TCT - see over) to describe steel product thickness which may not be suitable for design loads under Australian Standards.	✓ The thickness of BlueScope Steel products is specified as Base Metal Thickness (BMT) not TCT. BMT is the relevant measurement for structural strength.
Some pre-painted steel products sold in Australia to AS2728:2007 do not use AS1397:2001 compliant substrate (base metallic coated steel).	✓ BlueScope Steel’s COLORBOND® steel meets AS2728:2007 and has a steel substrate compliant to AS1397:2001. COLORBOND® steel is marked with ‘COLORBOND® steel made by BlueScope Steel’ for identification purposes.

Examples of relevant technical bulletins available	
<b>Technical Bulletin TB-1a and TB-1b</b> <i>Detailed information about matching the right product to the environment</i>	<b>Technical Bulletin TB-14</b> <i>“Builders Guide to Australian Steel Sheet and Strip Standards”</i>
<b>Technical Bulletin TB-4</b> <i>Refers to maintenance procedures to contribute to long life</i>	<b>Technical Bulletin TB-14</b> <i>“Builders Guide to Australian Steel Sheet and Strip Standards”</i>
<b>Technical Bulletin TB-5</b> <i>Refers to cutting and avoidance of swarf damage</i>	<b>Technical Bulletin TB-16</b> <i>“Fasteners for Roofing and Walling Products – Selection Guide”</i>
<b>Technical Bulletin TB-7</b> <i>“Care and Storage of Exterior Products Prior to Installation”</i>	<b>Technical Bulletin TB-30</b> <i>“Sheds and Garages”</i>
	<b>Technical Bulletin TB-34</b> <i>“Steel Homes”</i>

*Technical Bulletins are also available for Special Service Environments*

For more information about this important industry topic, please contact BlueScope Steel on 1800 022 999 or visit [www.steelselect.com/check](http://www.steelselect.com/check)

[steelselect.com/check](http://steelselect.com/check)



Zincalume® Truecore® Galvaspan® Colorbond®

\*Warranty subject to application and eligibility criteria. For full terms and conditions and to determine the eligibility of your building for the warranty visit [bluescopesteel.com.au/warranties](http://bluescopesteel.com.au/warranties) or call 1800 022 999.

# Not all steels are created equal. Look for our good name.

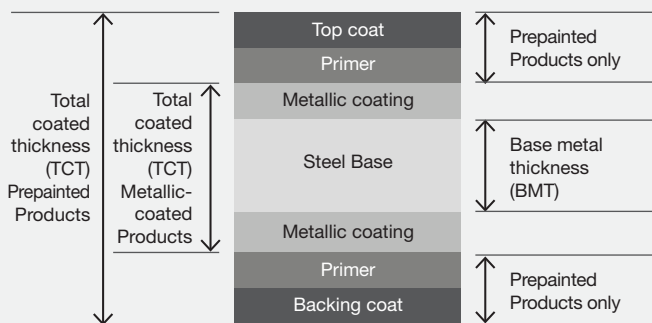


Made by BlueScope Steel AS1397 (F1)



**Important:** specify Base Metal Thickness not Total Coated Thickness for determining structural performance

### Base Metal Thickness (BMT) V Total Coated Thickness (TCT)



Structural capability is a function of base metal thickness and steel grade, whereas corrosion performance is afforded by metallic coating thickness and type.

### Ensure your building complies. Insist on Base Metal Thickness (BMT) to manage your risk.

BMT <mm>	Coating Class	ZINCALUME®	COLORBOND®
		Approx TCT <mm>	Approx TCT <mm>
0.35	AZ150	0.40	0.43
0.42	AZ150	0.47	0.50
0.50	AZ150	0.55	0.58
0.55	AZ150	0.60	0.63

0.42mm AZ150 metallic coated steel purchased on a TCT basis will have inferior structural performance compared with 0.42mm BMT specified steel – the base metal will be nominally 12% thinner in the TCT product. For COLORBOND® steel the difference is even greater.

Protect your good name, insist on BlueScope Steel's ZINCALUME®, COLORBOND® and TRUECORE® steel products which are only sold on a BMT basis.

### Choosing the correct BlueScope Steel roofing product for salt marine environments

Marine Environment Severity	Distance from Breaking Surf* or Exposed Marine*	Distance from Calm Marine*	Recommended Product
Very Severe Marine	0m – 100m	N/A	COLORBOND® Stainless steel
Severe Marine	101m – 200m	0m – 100m	COLORBOND® Ultra steel
Marine	201m – 400m	101m – 200m	COLORBOND® steel
Moderate	401m – 1000m	201m – 1000m	COLORBOND® steel, COLORBOND® Metallic steel, ZINCALUME® AZ150 steel
Benign	1001m+	1001m+	COLORBOND® steel, COLORBOND® Metallic steel, ZINCALUME® AZ150 steel

The above refers to salt marine environments only. Where roof cladding, both internal and external, is subject to heavy dust, emissions, contaminant fallout or corrosive chemicals, it is essential to consult with your local BlueScope Steel Sales Office.

\*Definitions and examples of surf, exposed and calm marine are outlined in Technical Bulletin TB-35 "Australian Marine Classifications".

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