



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 AS1397:2011. If the lower coating mass side is exposed, the material may not perform the same as an AS1397:2011 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 AS1397:2011.
Some steel products are not made specifically to the grades specified in Australian standards. Rather they are made to other grades and regraded or rebadged as the grades specified in Australian Standards. These may have lower ductility or strength than assumed in design calculations in Australian Standards.	✓ BlueScope Steel manufactures steel products specifically to Australian Standards. These products are quality assured to meet or exceed Australian Standards which can specify minimum requirements for mechanical properties eg. Ductility, tensile strength.
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 AS1397:2011. This requirement does not apply to pre-painted steel products.	✓ Metallic coated steel products made by BlueScope Steel that meet AS1397:2011 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 claiming to meet AS2728:2013 do not use AS1397:2011 compliant substrate (base metallic coated steel) and are consequently non compliant with AS2728:2013.	✓ BlueScope Steel’s COLORBOND® steel meets AS2728:2013 and has a steel substrate compliant to AS1397:2011. COLORBOND® steel is marked with ‘COLORBOND® steel made by BlueScope Steel’ for identification purposes.

Examples of relevant technical bulletins available	
Technical Bulletin TB-1a and TB-1b <i>Selection guides for steel roofing and walling products</i>	Technical Bulletin TB-14 <i>Builders’ guide to Australian steel sheet and strip standards</i>
Technical Bulletin TB-4 <i>Maintenance of COLORBOND® steel and ZINCALUME® steel</i>	Technical Bulletin TB-16 <i>Fasteners for roofing and walling products – selection guide</i>
Technical Bulletin TB-5 <i>Swarf staining of steel profiles</i>	Technical Bulletin TB-30 <i>Sheds and garages</i>
Technical Bulletin TB-7 <i>Care and storage of BlueScope Steel exterior products prior to installation</i>	Technical Bulletin TB-34 <i>Steel house frames</i>
	<i>Technical Bulletins are also available for Special Service Environments</i>

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

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 or call 1800 022 999.

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

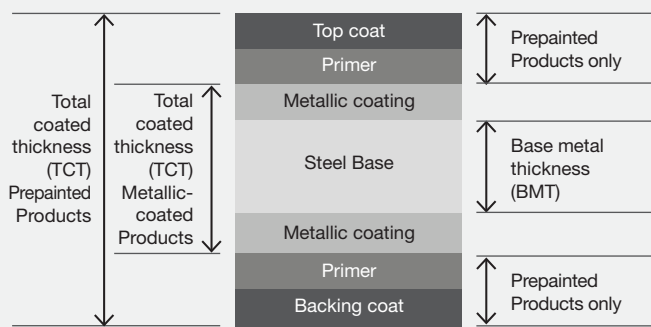


Made by **BlueScope Steel** AS1397 (F1)



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.

Insist on Base Metal Thickness (BMT) to manage your risk

For example: If a design has been specified as 0.42mm BMT steel, supply of an imported 0.42mm TCT would deliver inferior structural performance as 0.42mm TCT is ONLY 0.37mm BMT*. The table below outlines the important difference in structural steel thicknesses for unpainted imported steel supplied on a TCT basis rather than BMT.

AM125 to AS1397:2011 ZINCALUME® steel supplied as BMT	AZ150 Imported Zinc-Aluminium coated steel supplied as TCT
0.30mm	0.30mm TCT = 0.25mm BMT (16% thinner)
0.35mm	0.35mm TCT = 0.30mm BMT (14% thinner)
0.42mm	0.42mm TCT = 0.37mm BMT (12% thinner)
0.48mm	0.48mm TCT = 0.43mm BMT (10% thinner)

*assuming equivalent mechanical properties

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

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 COLORBOND® Coolmax® steel ZINCALUME® AM125 steel
Moderate	401m – 1000m	201m – 1000m	COLORBOND® steel, COLORBOND® Metallic steel COLORBOND® Coolmax® steel ZINCALUME® AM125 steel
Benign	>1Km	>1Km	COLORBOND® steel COLORBOND® Metallic steel COLORBOND® Coolmax® steel ZINCALUME® AM125 steel

The above refers to 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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