

UNDERSTANDING COMPLIANCE

The NCC outlines deem-to-satisfy requirements for metal claddings based on compliance to Australian Standards. Whilst the applicable Australian Standards differ between Residential and Non-Residential buildings the underlying common tenants are;

- a) that installed metal claddings must be able to meet expected Structural, Wind and Installation loads as per the Australian Standards,
- b) that installed metal claddings must be sufficiently durable to meet the amenity and sustainability requirements of the Australian Standards.

To determine a metal cladding's capacities and ability to comply with Australian design standards, metal cladding products must be tested in accordance with AS 4040.1. Metal cladding products that cannot demonstrate testing to AS 4040.1 and compliance with other relevant Australian Standards do not meet the deemed-to-comply provisions of the NCC.

LYSAGHT® steel building products have been tested in Lysaght's own NATA accredited testing facility to meet all relevant Australian Standards as outlined in this document.

CHAIN OF RESPONSIBILITY

It is the primary responsibility of each person in the value chain, from designer to supplier to installer to builder to ensure that products used on a building are;

- a) Suitable for the intended use, and
- b) Comply with relevant Australian Standards and NCC provisions

Increasingly regulatory authorities are requiring documentary evidence of a products compliance to the requirements of the NCC. Recent Queensland legislation goes further placing an onus on all members in the chain of responsibility to report the use of any non-conforming product.

INSIDE OUR BRANDS

Lysaght's range of steel building products are manufactured using Australia's leading coated steel and prepainted aluminium materials.

COLORBOND® prepainted steel and ZINCALUME® aluminium/zinc/magnesium alloy coated steel are supplied to Lysaght in large coils. Lysaght then shapes and forms these materials (through the process known as rollforming) into their range of roofing profiles, gutters, fascias and downpipes, plus products for fencing systems and home additions such as verandahs, patios and carports.

Similarly, PERMALITE® prepainted aluminium is used to manufacture a range of roofing, walling and structural products ideally suited to the most aggressive of environments.

FOR YOUR NEAREST SUPPLIER VISIT:

WWW.LYSAGHT.COM

FOR SALES ENQUIRIES CALL 13 30 38

FOR TECHNICAL ENQUIRIES CALL 1800 641 417

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ZENITH™ CLADDING RANGE



YOUR COMPLIANCE CHECKLIST

- Fully specify LYSAGHT® Profile, Finish & Coating class
- Check all details when you receive order confirmation
- On-Site - check delivery docket and product branding

THIS BULLETIN DETAILS RELEVANT NCC OF AUSTRALIA COMPLIANCE INFORMATION RELEVANT TO THE FOLLOWING LYSAGHT ZENITH™ STEEL CLADDING PRODUCTS.

- LYSAGHT DOMINION®
- LYSAGHT IMPERIAL™
- LYSAGHT ENSEAM®
- LYSAGHT BAROQUE®
- LYSAGHT LONGLINE 305®

LYSAGHT® – YOUR GUARANTEE OF COMPLIANCE

The National Construction Code of Australia (NCC) details the minimum necessary requirements for safety, health, amenity and sustainability that need to be met in the design and construction of new buildings (and new building work in existing buildings) throughout Australia.

Using products that do not conform to the NCC requirements can leave installers, builders and suppliers liable for cost of replacement, rectification and consequential damages.

Lysaght's range of Australian-made steel building products has been developed, tested and manufactured to not only meet our country's demanding climatic and geographic requirements but also to provide building designers, builders and owners with the

confidence that comes from using guaranteed compliant products.

The compliance statements overleaf outline compliance of Lysaght's ZENITH™ roofing and walling products with both the National Construction Code of Australia and the relevant Australian Standards for both Residential and Non-residential buildings.



NATIONAL CONSTRUCTION CODE OF AUSTRALIA (NCC) COMPLIANCE STATEMENT

LYSAGHT ZENITH™ ARCHITECTURAL ROOFING AND WALLING PRODUCT RANGE

Issuing entity:		BlueScope Steel Limited			Ref #: LYS-NCC- R&W	Version: V2.0	Issue date: 09/10/2019
Application		Architectural Roofing and or Walling for class 2 to 9 Buildings (Non-Residential) and For class 1 and 10 Buildings (Residential)					
Scope of Use		All products noted below may be used as roof cladding and/or wall cladding when designed using the individual technical data available for each product at www.lysaght.com for Lysaght products or www.permalite.com.au for PERMALITE® products					
APPLICABLE PRODUCTS		ROOFING LYSAGHT IMPERIAL™ LYSAGHT ENSEAM® LYSAGHT BAROQUE® LYSAGHT LONGLINE 305® (only available in 0.70mm bmt)			WALLING LYSAGHT DOMINION® LYSAGHT IMPERIAL™ LYSAGHT ENSEAM® LYSAGHT BAROQUE® LYSAGHT LONGLINE 305® (only available in 0.70mm bmt)		
Product Attributes	Base Metal Thickness Range	0.55mm - 0.75mm					
	Min Yield Strength	300 MPa					
Base Material Brand Name		 ZINCALUME® steel	 COLORBOND® steel	 COLORBOND® steel Matt	 COLORBOND® Metallic steel	 COLORBOND® Ultra steel	
Typical Environments		For Low to High corrosive environments; >200m from breaking surf > 100m from calm marine	For Low to High corrosive environments; >200m from breaking surf > 100m from calm marine	For Low to High corrosive environments; >200m from breaking surf > 100m from calm marine	For Low to High corrosive environments; >200m from breaking surf > 100m from calm marine	For Very High to High corrosive Environments; >100m from breaking surf > 0m from calm marine	
Material Specification	Coating	AM125 125 g/m ² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397:2011	AM100 100 g/m ² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397:2011	AM100 100 g/m ² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397:2011	AM100 100 g/m ² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397:2011	AM150 150 g/m ² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397:2011	
	Paint	N/A	Paint Coating to AS2728 : 2013 includes Thermatech® solar reflectance technology*	Paint Coating to AS2728 : 2013 includes Thermatech® solar reflectance technology*	Paint Coating to AS2728 : 2013 Type 3	Paint Coating to AS2728 : 2013 Type 4 includes Thermatech® solar reflectance technology*	
	Solar Absorptance Value		Range from 0.32 to 0.96	Range from 0.35 to 0.79	Range from 0.34 to 0.93	Range from 0.32 to 0.73	
Warranty**	Roofing	Up to 36 years**	Up to 36 years**	Up to 36 years**	Up to 30 years**	Up to 36 years**	
	Walling	Up to 18 years** (Non - residential) Up to 15 years** (Residential)	Up to 20 years** (Non - residential) Up to 15 years** (Residential)	Up to 20 years** (Non - residential) Up to 15 years** (Residential)	Up to 20 years** (Non - residential) Up to 10 years** (Residential)	Up to 20 years** (Non - residential) Up to 15 years** (Residential)	
Combustibility		LYSAGHT® products manufactured from COLORBOND®, ZINCALUME® or galvanised steel materials all have an Ignitability Index, Spread of Flame index and Heat Evolved Index of 0 (zero) and as such may be used wherever a non-combustible material is required as per the National Construction Code clauses C1.9.(e).(v) and 3.7.1.1.(e).					
Compliance with the deemed-to-satisfy provision of the NCC		NCC Volume 1 - For class 2 to 9 Buildings (Non-Residential) Section B1.4 Structural Resistance (j) (iv) Metal roofing: AS1562.1 (except in cyclone areas) Section F1.5 Roof coverings Metal Sheet roofing complying with AS1562.1 NCC Volume 2 - For class 1 and 10 Buildings (Housing Provisions) 3.5.1 Roof cladding Published Capacity tables in reference manuals noted below are suitable to determine structural adequacy and serviceability of nominated products for individual projects referencing the following Australian Standards and NCC requirements: NCC, Volume One, Section B - Structure, Part B1 - Structural provisions (Deemed-to-Satisfy Provisions), Clause B1.1 Resistance to actions, and Clause B1.2 Determination of individual actions NCC, Volume One, Section B - Structure, Specification B1.2 - Design of Buildings in Cyclonic Areas AS/NZS 1170.0 : 2002 Structural design actions, Part 0: General principles AS/NZS 1170.1 : 2002 (Reconfirmed 2016) Structural design actions, Part 1: Permanent, imposed and other actions AS/NZS 1170.2 : 2011 (Reconfirmed 2016) Structural design actions, Part 2: Wind actions AS/NZS 1170.3 : 2011 (Reconfirmed 2016) Structural design actions, Part 3: Snow and ice actions					
Acceptable Construction Manuals		AS1562.1 - Design and Installation of sheet and wall cladding - Metal LYSAGHT ZENITH™ Roofing & Walling Installation Manual (Non Cyclonic) www.lysaght.com - LYSAGHT ZENITH™ Roofing & Walling Installation Manual (Cyclonic) at www.lysaght.com - LYSAGHT® Architectural Detailing and Flashing Manual for Architects and Detailing professionals available at www.lysaght.com - LYSAGHT® Product Advisory Bulletins Guides and Technical materials available at www.lysaght.com BlueScope Technical Bulletin 1A Steel roofing products - selection guide available at http://steelproducts.bluescopesteel.com.au					
Australian Standards Compliance		Lysaght published Limit State Capacities for Strength and Serviceability have been determined from testing at our NATA ¹ accredited facilities in compliance with the following standards AS 1562.1 : 2018 Design and installation of sheet roof and wall cladding. Part 1: Metal AS 4040.0 – 1992 (Reconfirmed 2016) Methods of testing sheet roof and wall cladding. Method 0 : Introduction, list of methods and general requirements AS 4040.1 – 1992 (Reconfirmed 2016) Methods of testing sheet roof and wall cladding. Method 1 : Resistance to concentrated loads AS 4040.2 – 1992 (Reconfirmed 2016) Methods of testing sheet roof and wall cladding. Method 2 : Resistance to wind pressures for non-cyclone regions AS 4040.3 : 2018 Methods of testing sheet roof and wall cladding. Method 3 : Resistance to wind pressures for cyclone regions AS 1562.1 : 2018 Design and Installation of sheet and wall cladding Part 1 : Metal Section 2.1.3 Steel: Requires metallic coated products to comply with ; - AS 1397-2011 - Continuous hot dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed aluminium and magnesium and Pre-painted products to comply with ; - AS/NZS 2728 : 2013 - Pre-finished /pre-painted sheet metal products for interior/ exterior applications AS 1397 defines the coating types and classes and steel grades for hot dip metallic coated steel. Product made to other standards may not meet the ductility or strength requirements assumed by design standards or the minimum coating class requirements critical to building durability. LYSAGHT Product coating compliance is nominated at "Coating" above. AS/NZS 2728 specifies requirements for the physical properties and long-term durability of pre-finished/pre-painted sheet metal products. LYSAGHT pre-painted compliance is nominated at "Paint" above for Performance requirement 1.3.1 Metal products Hot dipped metallic coated steel (types Z, ZM, AZ, AM) complying with AS1397, stainless steel, aluminium or aluminium ally in the form of sheet, coil or strip.					

Please note that not all products are available in all finishes or in each state. Please refer to your local Lysaght service centre for product availability for your region.

*Thermatech® solar reflectance technology is incorporated in the standard COLORBOND® steel colour range, however excludes Night Sky®.

** Warranties subject to application and eligibility criteria. For full terms and conditions and to determine the eligibility of your product for a warranty visit bluescopesteel.com.au/warranties or call BlueScope on 1800 800 789.

1. National Association of Testing Authorities.