

# RAINWATER GOODS



## NATIONAL CONSTRUCTION CODE (NCC) COMPLIANCE BULLETIN

OCTOBER 2023 | This version supersedes all previous issues.



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

- QUAD GUTTER
- SHEERLINE® GUTTER & CAPPING
- TRIMLINE®
- FITFAST® GUTTER
- EMLINE® GUTTER
- HALF ROUND GUTTER
- FLATBACK GUTTER
- RANCELINE® GUTTER
- COLONIAL® GUTTER
- SHORELINE® GUTTER
- NOVALINE® FASCIA SYSTEM
- ROLLTOP RIDGE
- VALLEY GUTTER
- BARGE ROLL
- BARGE CAPPING
- GUTTER STOP ENDS
- GUTTER INTERNAL AND EXTERNAL CORNERS
- DOWNPIPES
- DOWNPIPE ACCESSORIES
- GUTTER ENDSTOPS
- GUTTER / FASCIA SPRING CLIPS
- GUTTER OVERSTRAPS
- GUTTER INTERNAL BRACKETS
- NOVALINE® FASCIA RAFTER BRACKETS
- INTERNAL AND EXTERNAL CAST CORNERS
- HALF ROUND EXTERNAL GUTTER BRACKETS

### 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 rainwater goods 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 2022) COMPLIANCE STATEMENT

## LYSAGHT® RAINWATER PRODUCT RANGE



<b>Issuing entity:</b>		BlueScope Steel Limited trading as Lysaght								
<b>Issue Date</b>		October, 2023								
<b>Application</b>		Rainwater goods for Class 1 and 10 Buildings (Vol 2 of the NCC)								
<b>Scope of Use</b>		All products noted below may be used as roof guttering, fascia, capping and accessories when designed using the individual technical data available for each product, accessible at lysaght.com								
<b>Product Brand</b>		LYSAGHT®								
<b>PRODUCTS¹</b>	<b>Gutters</b>	<ul style="list-style-type: none"> <li>QUAD Gutter</li> <li>SHEERLINE®</li> <li>TRIMLINE®</li> <li>FITFAST®</li> <li>EMLINE®</li> <li>Half Round</li> <li>Flat Back</li> <li>RANCELINE®</li> <li>COLONIAL</li> <li>SHORELINE®</li> <li>Valley Gutter</li> </ul>			N/A		N/A		N/A	
	<b>Fascia</b>	<ul style="list-style-type: none"> <li>NOVALINE®</li> </ul>			N/A		N/A		N/A	
	<b>Cappings &amp; Gutter Accessories</b>	<ul style="list-style-type: none"> <li>SHEERLINE®</li> <li>Roll Top Ridge</li> <li>Barge Roll</li> <li>Barge Capping</li> <li>Stop Ends</li> <li>Gutter Internal Corners</li> <li>Gutter External Corners</li> <li>Downpipes</li> <li>Downpipes Accessories</li> <li>Gutter Stop Ends</li> </ul>			<ul style="list-style-type: none"> <li>Gutter/Fascia Spring Clips</li> </ul>		<ul style="list-style-type: none"> <li>Gutter Overstraps</li> <li>Gutter Internal Corners</li> <li>NOVALINE® Fascia Rafter Brackets</li> <li>External Gutter Brackets</li> </ul>		<ul style="list-style-type: none"> <li>Gutter Internal Cast Corners</li> <li>Gutter External Cast Corners</li> <li>Half Round External Brackets</li> </ul>	
<b>Base Metal Brand</b>		<b>ZINCALUME® steel</b>	<b>COLORBOND® steel</b>	<b>COLORBOND® Ultra steel</b>	<b>CK1055 Steel</b>	<b>CK1055 steel with electrostatic coating</b>	<b>ZINCALUME® steel</b>	<b>ZINCALUME® steel with electrostatic coating</b>	<b>Cast Zinc Alloy steel with electrostatic coating</b>	
<b>Typical Environments</b>		For low to high corrosive environments >200m from breaking surf >200m from calm marine	For low to high corrosive environments >200m from breaking surf >200m from calm marine	For high to very high corrosive environments >100m from braking surf >100m from calm marine	For low to high corrosive environments >200m from breaking surf >200m from calm marine	For high to very high corrosive environments >100m from breaking surf >100m from calm marine	For low to high corrosive environments >200m from breaking surf >100m from calm marine	For high to very high corrosive environments >100m from breaking surf >100m from calm marine	For low to high corrosive environments >200m from breaking surf >200m from calm marine	
<b>Base Metal Thickness Range</b>	<b>Gutters</b>	0.42mm – 0.48mm	0.42mm – 0.48mm	0.42mm – 0.48mm	N/A	N/A	N/A	N/A	N/A	
	<b>Fascia</b>	0.42mm	0.42mm	0.42mm	N/A	N/A	N/A	N/A	N/A	
	<b>Cappings &amp; Gutter Accessories</b>	0.4mm – 0.6mm	0.4mm – 0.6mm	0.4mm – 0.6mm	0.9mm – 1mm	0.9mm – 1mm	1mm – 1.6mm	1mm – 1.6mm	As per cast (2.5mm typical)	
<b>Minimum Yield Strength</b>	<b>Gutters</b>	550 MPa	550 MPa	550 MPa	N/A	N/A	N/A	N/A	N/A	
	<b>Fascia</b>	550 MPa	550 MPa	550 MPa	N/A	N/A	N/A	N/A	N/A	
	<b>Cappings &amp; Gutter Accessories</b>	300 MPa	300 MPa	300 MPa	560 MPa	560 MPa	250 MPa – 300 MPa	250 MPa – 300 MPa	N/A	
<b>Coating</b>		AM125	AM100	AM150	Zinc electroplated 12um min, FeZn12c Type A Trivalent Hydrogen De-embrittlement 190°C, 6 Hrs min to AS 1789	Zinc electroplated 12um min, FeZn12c Type A Trivalent Hydrogen De-embrittlement 190°C, 6 Hrs min to AS 1789	AM125	AM125	EZDA 3 Zinc Alloy³	
		125 g/m² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397	100 g/m² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397	150 g/m² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397			125 g/m² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397	125 g/m² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397	Zinc/ aluminium alloy with typical composition of ZN - 94.75% - 95.06% AL - 0.04% - 0.05% Other Elements < 1%	
<b>Paint²</b>	N/A	Paint Coating to AS 2728 includes Thermatech® solar reflectance technology	Paint Coating to AS 2728 Type 4 includes Thermatech® solar reflectance technology	N/A	Electrostatically coated with 50-70 of Microns Interpon MetaPrep and a further 60-80 Microns of Interpon D1000 Excel	N/A	Electrostatically coated with 50-70 of Microns Interpon MetaPrep and a further 60-80 Microns of Interpon D1000 Excel	Electrostatically coated with 50-70 of Microns Interpon MetaPrep and a further 60-80 Microns of Interpon D1000 Excel	Electrostatically coated with 50-70 of Microns Interpon MetaPrep and a further 60-80 Microns of Interpon D1000 Excel	
<b>Acceptable Construction Manuals</b>		LYSAGHT® Rainwater Solutions Guide NSW/ACT LYSAGHT® Rainwater Solutions Guide QLD/NT LYSAGHT® Rainwater Solutions Guide SA LYSAGHT® Rainwater Solutions Guide VIC/TAS LYSAGHT® Rainwater Solutions Guide WA LYSAGHT® Architectural Detailing and Flashing Manual for Architects and Detailing Professionals LYSAGHT® Product Advisory Bulletins BlueScope Technical Bulletin 1A Steel Roofing Products - Selection Guide								
<b>Australian Standards Compliance</b>		AS/NZS 2179.1:2014 - Specifications for rainwater goods, accessories and fasteners Metal shape or sheet rainwater goods, and metal accessories and fasteners AS/NZS 3500.3:2021 - Plumbing and drainage, Part 3: Stormwater drainage Metallic coated products comply with AS 1397:2021 - Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium Pre-painted products comply with AS/NZS 2728:2013 - Prefinished/prepainted sheet metal products for interior/exterior building applications - Performance requirements CK1055 steel product complies with AS/NZS 1789:2023 - Metallic and other inorganic coatings – Electroplated coatings of zinc with supplementary treatments on iron or steel (ISO 2081:2018, MOD) CK1055 steel product complies with AS/NZS 1789:2023 - Electroplated zinc coatings on ferrous articles with electrostatic coating. Electrostatic coatings have passed 1000-hour salt spray testing to AS 3715:2002, 1000 hour Humidity Resistance testing to AS 3715:2002 and Exterior Durability testing to AS 3715:2002 Zinc Alloy complies with AS 1881-1986								
<b>Compliance with the deemed-to-satisfy provision of the NCC</b>		NCC Volume 1 - For class 2 to 9 Buildings (Non-Residential) • Damp and Weatherproofing Performance requirements H2P1 Rainwater management - H2D6 (1) Roofing and Wall Cladding NCC Volume 2 - For class 1 and 10 Buildings (Housing Provisions) • 7.4 Gutters and downpipes Lysaght published tables in reference manuals noted below are suitable to design gutter and downpipe systems in conjunction with: • AS/NZS 3500.3 or NCC Housing Provisions 2022 - 7.4.2 (a) Materials, 7.4.3 Selection of Guttering, 7.4.4 Installation of gutters, 7.4.5 Downpipes - size and installation, 7.4.5 Downpipes - size and installation to meet NCC Performance Requirement H2P1 Rainwater management								

### Notes:

- Not all products are available in all materials and finishes. Not all products are available in all regions. Visit lysaght.com for more information.
- Thermatech® solar reflectance technology is incorporated in the standard COLORBOND® steel colour range, excluding colour Night Sky®.
- Warranties are subject to application and eligibility criteria. For full terms and conditions and warranty eligibility for BlueScope steel products visit warranties.bluescopesteel.com.au.
- NATA – National Association of Testing Authorities.

## UNDERSTANDING COMPLIANCE

The National Construction Code (NCC) outlines deemed-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 products must be able to meet expected Structural, Wind and Installation loads as per the Australian Standards,
- b) That installed metal products must be sufficiently durable to meet the amenity and sustainability requirements of the Australian Standards.

To determine a rainwater good's ability to comply with Australian design standards, metal fencing products must be tested in accordance with AS/NZS 2179.1. Rainwater Goods products that cannot demonstrate testing to AS/NZS 2179.1 and compliance with other relevant Australian Standards do not meet the deemed-to-comply provisions of the NCC.

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

## STATEMENT OF PRODUCT CONFORMANCE

This document confirms that the structural design capacity tables for LYSAGHT® Rainwater Goods products included in the Acceptable Construction Manuals referenced in this bulletin have been prepared in accordance with the relevant Australian Standards & Deemed to satisfy provisions of NCC 2022 as referenced below.

Designs utilising data from these reference documents can form part of a structurally adequate assembly, subject to the following conditions:

- Installation of rainwater goods products is in accordance with the Acceptable Construction Manuals referenced in this bulletin and accepted good construction practice.

## 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.

## DISCLAIMER, WARRANTIES AND LIMITATIONS OF LIABILITY

This publication is intended to be an aid for all trades and professionals involved with specifying and installing LYSAGHT® products and not be a substitute for professional judgement.

Terms and conditions of sale are available at [lysaght.com/terms](https://www.lysaght.com/terms)

Except to the extent to which liability may not lawfully be excluded or limited, BlueScope Steel Limited will not be under or incur any liability to you for any direct or indirect loss or damage (including, without limitation, consequential loss or damage such as loss of profit or anticipated profit, loss of use, damage to goodwill and loss due to delay) however caused (including, without limitation, breach of contract, negligence and/or breach of statute), which you may suffer or incur in connection with this publication.

## INSIDE OUR BRANDS

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

COLORBOND® prepainted steel and ZINCALUME® metallic coated steel are supplied to Lysaght in large coils. Lysaght then shapes and forms these materials (through the process known as rollforming) into our range of roofing profiles, gutters, fascia and downpipes, plus products for fencing systems and home additions such as verandahs, patios and carport.

## 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

FOR DETAILED PRODUCT INFORMATION,  
MANUALS AND PROJECT CASE STUDIES VISIT:

[WWW.LYSAGHT.COM](https://www.lysaght.com)

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