Metal Cladding & Roofing Range

National Construction Code of Australia
Compliance Data Sheet - 2024 V03

Compliance Information

This data sheet details NCC of Australia information relevant to the following ACS metal cladding and roofing products:

- **SNAPLOCK**
- **INTERLOCKING**
- **NAILSTRIP**
- **STANDING SEAM**
- **METAL WEATHERBOARDS**

Brands

ZINCALUME® steel
COLORBOND® steel
COLORBOND® steel Matt
COLORBOND® Metallic steel
COLORBOND® Ultra steel
REDCOR® weathering steel
Unicote® Lux / Unicote® Select

Tested to NCC Requirements

Our range of Australian-made steel cladding and roofing products has been developed, tested and manufactured to not only meet our country's demanding climatic conditions but also to provide architects, builders and owners with the confidence that comes from using guaranteed compliant products. The compliance statement within this data sheet outlines the compliance of ACS products - SNAPLOCK, INTERLOCKING, NAILSTRIP, STANDING SEAM and METAL WEATHERBOARDS with both the National Construction Code of Australia and the relevant Australian Standards for both Residential and Non-residential buildings. 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).

** Note: For further information and expert advice please contact Architectural Cladding Suppliers.*

National Construction Code Of Australia (NCC) Compliance Statement

Architectural Metal Cladding & Roofing Product Range

APPLICATION

Architectural Roofing and/or Cladding for class 2 to 9 Buildings (Non-Residential) and 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.

APPLICABLE PRODUCTS

Roofing

- SNAPLOCK
- STANDING SEAM
- NAILSTRIP

Walling

- INTERLOCKING
- SNAPLOCK
- NAILSTRIP
- STANDING SEAM
- METAL WEATHERBOARDS

PRODUCT ATTRIBUTES

Base Metal Thickness Range

0.55mm - 0.75mm

Min Yield Strength

300 MPa

Base Material Brand Name	Typical Environments	Material Specification			Warranty	
		Coating	Paint	Solar Absorptance Value	Roofing	Walling
RedCor® REDCOR® weathering steel	• Building facade • Architectural features • Heat exchanger elements					
Zincalume® ZINCALUME® steel	For Low to High corrosive environments; > 200m from breaking surf > 100m from calm marine	AM125 125 g/m² minimum metallic coating mass, (aluminium/zinc/ magnesium alloy) with Activate® technology to AS 1397-2011	N/A		Up to 36 years**	Up to 18 years** (Non-residential)
Colorbond® COLORBOND® steel	For Low to High corrosive environments; > 200m from breaking surf > 100m from calm marine	AM100 100 g/m² minimum metallic coating mass, (aluminium/zinc/ magnesium alloy) with Activate® technology to AS 1397-2011	Paint Coating to AS 2728-2013 includes Thermatech® solar reflectance technology*	Range from 0.32 to 0.96	Up to 36 years**	Up to 20 years** (Non - residential) Up to 15 years** (Residential)
Colorbond® COLORBOND® steel Matt	For Low to High corrosive environments; > 200m from breaking surf > 100m from calm marine	AM100 100 g/m² minimum metallic coating mass, (aluminium/zinc/ magnesium alloy) with Activate® technology to AS 1397-2011	Paint Coating to AS 2728-2013 includes Thermatech® solar reflectance technology*	Range from 0.35 to 0.79	Up to 36 years**	Up to 20 years** (Non - residential) Up to 15 years** (Residential)
Colorbond® COLORBOND® Metallic steel	For Low to High corrosive environments; > 200m from breaking surf > 100m from calm marine	AM100 100 g/m² minimum metallic coating mass, (aluminium/zinc/ magnesium alloy) with Activate® technology to AS 1397-2011	Paint Coating to AS 2728-2013 Type 3	Range from 0.34 to 0.93	Up to 30 years**	Up to 20 years** (Non - residential) Up to 10 years** (Residential)
Colorbond® COLORBOND® Ultra steel	For Very High to High corrosive environments; > 100m from breaking surf > 0m from calm marine	AM150 150 g/m² minimum metallic coating mass, (aluminium/zinc/ magnesium alloy) with Activate® technology to AS 1397-2011	Paint Coating to AS 2728-2013 includes Thermatech® solar reflectance technology*	Range from 0.32 to 0.73	Up to 36 years**	Up to 20 years** (Non - residential) Up to 15 years** (Residential)

National Construction Code Of Australia (NCC) Compliance Statement

Architectural Metal Cladding & Roofing Product Range

Base Material Brand Name	Combustability	Compliance with the deemed-to-satisfy provision of the NCC	Australian Standards Compliance
RedCor® REDCOR® weathering steel Zincalume® ZINCALUME® steel Colorbond® COLORBOND® steel Colorbond® COLORBOND® steel Matt Colorbond® COLORBOND® Metallic steel Colorbond® COLORBOND® Ultra steel UniCote LUX UniCote Select Unicote® Lux / Unicote® Select	ACS 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). ACS products manufactured from REDCOR® are not deemed combustible in accordance with combustibility test for materials (AS 1530.1-1994 (R2016)) ACS products manufactured from Unicote® Lux / Unicote® Select are not deemed combustible in accordance with combustibility test for materials (AS 1530.1-1994 (R2016))	NCC Volume 1 - For class 2 to 9 Buildings (Non-Residential) Section B1.4 Structural Resistance (j) (iv) Metal roofing: AS 1562.1 (except in cyclone areas) Section F1.5 Roof coverings Metal Sheet roofing complying with AS 1562.1 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 1170.1:2002 (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 1595:1998 (R2016) AS/NZS 1365:1996 (R2016) ISO 9001:2015 Quality System certified	AS 1562.1 Design and Installation of sheet and wall cladding - Metal ACS tested 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 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. AS/NZS 2728 specifies requirements for the physical properties and long-term durability of pre-finished/pre-painted sheet metal products. ACS 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 AS 1397, stainless steel, aluminium or aluminium ally in the form of sheet, coil or strip. AS/NZS 1595:1998 (R2016) AS/NZS 1365:1996 (R2016) ISO 9001:2015 Quality System certified

*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 www.bluescopesteel.com.au/warranties or call BlueScope on 1800 800 789. 1. National Association of Testing Authorities.

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Base Material Brand Name	Minimum Yield Strength	Coating	Paint	Solar Absorptance Value Range	Warranty	Compliance	Fire Testing
UniCote LUX UniCote Select Unicote® Lux / Unicote® Select	300Mpa	AZ150 (Aluminium/Zinc) minimum metallic coating mass to AS1397	Paint coating to AS2728 with Cool Pigment solar reflectance technology	0.28 – 0.95	Roofing: Up to 30 years Walling: Up to 20 years	AS1397:2001 and AS2728:2013 equivalent to COLORBOND® steel.	AS1530.1 and AS1530.3 compliant and deemed non-combustible.

Warranties subject to application and eligibility criteria.

For more information visit www.unicote.com.au

Unicote® Lux / Unicote® Select

UniCote® LUX is a premium pre-painted steel product designed to suit Australian high-end architecture. Combining the world's best coil coating technology with rigorous testing to Australian Standards, it ensures not only superior performance in the harsh Australian environment but also a stunning patterned and textured finish.

UniCote® Select effortlessly combines durability with aesthetic allure, showcasing an extensive array of colors and profiles. It harmoniously unites form and function, delivering impeccable quality, low maintenance, and lasting resilience.

Tested for peace of mind.

UniCote® Steel's performance testing is a testament to its unwavering commitment to quality and durability, instilling unwavering confidence in architects and homeowners alike. Rigorously tested beyond industry standards, it boasts exceptional strength, corrosion resistance, and weather endurance, ensuring architectural visions will stand the test of time.

Homeowners can take comfort in knowing that UniCote® Steel guarantees safety, security, and long-lasting beauty, providing the peace of mind needed to turn houses into homes built to last.

Understanding Compliance

The NCC outlines deem-to-satisfy requirements for metal cladding products 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 product's capacities and ability to comply with Australian design standards, these 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.

ACS metal cladding and roofing products: SNAPLOCK, INTERLOCKING, NAILSTRIP, STANDING SEAM and METAL WEATHERBOARDS have been tested with NATA accredited testing to meet all relevant Australian Standards as outlined in this document.

Compliance Checklist

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

Stakeholder Responsibility

It is the primary responsibility of each key stakeholder in the value chain, from architect 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 product's compliance to the requirements of the NCC.

Brands

The ACS range of products: SNAPLOCK, INTERLOCKING, NAILSTRIP, STANDING SEAM and METAL WEATHERBOARDS have been tested with NATA accredited testing to meet all relevant standards and are manufactured using Australia's leading coated steel and prepainted aluminium materials. COLORBOND® steel and ZINCALUME® aluminium/zinc/magnesium alloy coated steel are supplied to ACS in large coils. ACS then fabricates these materials (known as rollforming) into our range of metal cladding and roofing profiles,. Rainwter goods such as gutters, fascias, rainheads, and downpipes are also manufactured by our sister company PPC Flashings.

GENERAL DISCLAIMER:

This ACS datasheet is to be used as a guide only and for further technical support or advice, please contact our cladding team, prior to placing your order or any installation works.

Architectural Cladding Suppliers

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PPC FLASHINGS