

Metal Cladding & Roofing Range

National Construction Code of Australia
Compliance Data Sheet - 2022 V01

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**

Brands

ZINCALUME® steel
COLORBOND® steel
COLORBOND® steel Matt
COLORBOND® Metallic steel
COLORBOND® Ultra steel
REDCOR® weathering steel

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 and STANDING SEAM 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).

National Construction Code Of Australia (NCC) Compliance Statement

Architectural Metal Cladding & Roofing Product Range

| | | |
|---|---|--|
| <p>APPLICATION Architectural Roofing and/or Cladding for class 2 to 9 Buildings (Non-Residential) and class 1 and 10 Buildings (Residential)</p> <p>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.</p> | <p>APPLICABLE PRODUCTS</p> <p>Roofing</p> <ul style="list-style-type: none"> • SNAPLOCK <p>Walling</p> <ul style="list-style-type: none"> • INTERLOCKING • SNAPLOCK • NAILSTRIP • STANDING SEAM | <p>PRODUCT ATTRIBUTES</p> <p>Base Metal Thickness Range 0.55mm - 0.75mm</p> <p>Min Yield Strength 300 MPa</p> |
|---|---|--|

| Base Material Brand Name | Typical Environments | Material Specification | | | Warranty | |
|--|--|---|--|-------------------------|------------------|--|
| | | Coating | Paint | Solar Absorptance Value | Roofing | Walling |
| <p>RedCor® REDCOR® weathering steel</p> | <ul style="list-style-type: none"> • Building facade • Architectural features • Heat exchanger elements | | | | | |
| <p>Zincalume® ZINCALUME® steel</p> | For Low to High corrosive environments; > 200m from breaking surf > 100m from calm marine | AM125 125 g/m ² 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) |
| <p>Colorbond® COLORBOND® steel</p> | For Low to High corrosive environments; > 200m from breaking surf > 100m from calm marine | AM100 100 g/m ² 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) |
| <p>Colorbond® COLORBOND® steel Matt</p> | For Low to High corrosive environments; > 200m from breaking surf > 100m from calm marine | AM100 100 g/m ² 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) |
| <p>Colorbond® COLORBOND® Metallic steel</p> | For Low to High corrosive environments; > 200m from breaking surf > 100m from calm marine | AM100 100 g/m ² 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) |
| <p>Colorbond® COLORBOND® Ultra steel</p> | For Very High to High corrosive environments; > 100m from breaking surf > 0m from calm marine | AM150 150 g/m ² 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 | Combustibility | Compliance with the deemed-to-satisfy provision of the NCC | Australian Standards Compliance |
|--|--|---|--|
| RedCor® REDCOR® weathering steel | 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). | 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 | 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 |
| Zincalume® ZINCALUME® steel | ACS products manufactured from REDCOR® are not deemed combustible in accordance with combustibility test for materials (AS 1530.1-1994 (R2016)) | 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 | 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 |
| Colorbond® COLORBOND® steel | ACS products manufactured from REDCOR® are not deemed combustible in accordance with combustibility test for materials (AS 1530.1-1994 (R2016)) | 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 | 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 ; |
| Colorbond® COLORBOND® steel Matt | ACS products manufactured from REDCOR® are not deemed combustible in accordance with combustibility test for materials (AS 1530.1-1994 (R2016)) | NCC, Volume One, Section B - Structure, Specification B1.2 - Design of Buildings in Cyclonic Areas | AS/NZS 2728:2013 Pre-finished /pre-painted sheet metal products for interior/ exterior applications |
| Colorbond® COLORBOND® steel Metallic steel | ACS products manufactured from REDCOR® are not deemed combustible in accordance with combustibility test for materials (AS 1530.1-1994 (R2016)) | 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 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. |
| Colorbond® COLORBOND® Ultra steel | ACS products manufactured from REDCOR® are not deemed combustible in accordance with combustibility test for materials (AS 1530.1-1994 (R2016)) | AS/NZS 1595:1998 (R2016) AS/NZS 1365:1996 (R2016) ISO 9001:2015 Quality System certified | 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.



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 and STANDING SEAM 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 and STANDING SEAM 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. Rainwater 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.



Web: www.acladding.com.au
Email: admin@acladding.com.au
Phone: 03 9775 1097
Address: 4 / 7 Silkwood Rise,
Carrum Downs, Victoria 3201

