

# ROOFING AND WALLING

## NATIONAL CONSTRUCTION CODE (NCC) COMPLIANCE BULLETIN

JANUARY 2024 | This version supersedes all previous issues.



### THIS BULLETIN DETAILS RELEVANT NCC OF AUSTRALIA COMPLIANCE INFORMATION RELEVANT TO THE FOLLOWING FIELDERS® ROOFING AND WALLING PRODUCTS.

- KingKlip® 700
- HiKlip® 630
- TL-5™
- Spanform™
- S-Rib™
- Lo-Rib™
- Panelform™
- Mini-Flute
- C-Dek™ 310

### FIELDERS® - 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.

Fielders' range of Australian-made steel and aluminium 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 Fielders® 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

## FOR FIELDERS® ROOFING AND WALLING PRODUCTS

<b>Issuing entity</b>		BlueScope Steel Limited trading as Fielders					
<b>Issue Date</b>		January 2024					
<b>Application</b>		Roofing and walling for Class 2 to 9 Buildings (Non-Residential) and for Class 1 and 10 Buildings (Residential)					
<b>Scope of Use</b>		All products noted below may be used as roof cladding when designed using the individual technical data available for each product at <a href="https://specifying.fielders.com.au">https://specifying.fielders.com.au</a>					
<b>Product Brand</b>		<b>Fielders®</b>					
<b>PRODUCTS¹</b>	<b>Roofing or Walling</b>	S-Rib™ CorroMax® TL-5® Spanform™ KingKlip® 700					
	<b>Roofing only</b>	C-Dek™ 310					
	<b>Walling only</b>	Panelform™ Mini-Flute™ Lo-Rib™ TL-5® Walling Quality S-Rib™ Corrugated Walling Quality					
<b>Base Metal Brand</b>		<b>ZINCALUME® steel</b>	<b>COLORBOND® steel</b>	<b>COLORBOND® steel Matt</b>	<b>COLORBOND® Metallic steel</b>	<b>COLORBOND® Ultra steel</b>	<b>SUPERDURA® Stainless steel</b>
<b>Typical Environments</b>		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 high to very high corrosive environments >100m from breaking surf >0m from calm marine	For very high corrosive environments >0m from breaking surf
<b>Base Metal Thickness Range</b>	<b>Roofing</b>	0.42mm - 0.48mm	0.42mm - 0.48mm	0.42mm - 0.48mm	0.42mm - 0.48mm	0.42mm - 0.48mm	0.42mm - 0.48mm
	<b>Walling</b>	0.35mm - 0.42mm	0.35mm - 0.42mm	0.42mm	0.42mm	0.42mm	0.42mm
<b>Minimum Yield Strength</b>		550 MPa	550 MPa	550 MPa	550 MPa	550 MPa	550 MPa
<b>Coating</b>		AM125	AM100	AM100	AM100	AM150	Grade 430 SS
<b>Paint²</b>		N/A	Paint Coating to AS/NZS 2728 includes Thermatech® solar reflectance technology^	Paint coating to AS/NZS 2728 with Thermatech® solar reflectance technology	Paint Coating to AS/NZS 2728 Type 3 includes Thermatech® solar reflectance technology^	Paint Coating to AS/NZS 2728 Type 4 includes Thermatech® solar reflectance technology^	Paint Coating to AS/NZS 2728 Type 6
<b>Solar Absorbance Value Range</b>		N/A	0.28 - 0.95	0.35 - 0.79	0.34 - 0.94	0.33 - 0.73	0.36 - 0.74
<b>Warranty³</b>	<b>Roofing</b>	Up to 36 years	Up to 45 years	Up to 45 years	Up to 30 years	Up to 45 years	Up to 45 years
	<b>Walling</b>	Up to 18 years (non-residential only)	Up to 30 years	Up to 30 years	Up to 20 years	Up to 30 years	Up to 30 years
<b>Combustibility</b>		Fielders products manufactured from COLORBOND® steel, ZINCALUME® steel 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 Volume 1 clauses C2D10 (5)(b) & (6)(e) and in Volume 2 clause H3D2 (1) (e).					
<b>Acceptable Construction Manuals</b>		Design and construction information / manuals for each of the Fielders Roofing and Walling profiles is provided at <a href="https://specifying.fielders.com.au/roofing-walling">https://specifying.fielders.com.au/roofing-walling</a> BlueScope Technical Bulletin 1A Steel Roofing Products Selection Guide available at <a href="https://steelproducts.bluescopesteel.com.au">https://steelproducts.bluescopesteel.com.au</a>					
<b>Australian Standards Compliance</b>	Fielders published Limit State Capacities for Strength and Serviceability have been determined from testing 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 - Methods of testing sheet roof and wall cladding AS 4040.1-1992 (Rec: 2016) - Methods of testing sheet roof and wall cladding - Method 1: Resistance to concentrated loads AS 4040.2-1992 (Rec: 2016, Amd 1:2018) - Methods of testing sheet roof and wall cladding, Part 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/NZS 1170.0:2002 - Structural design actions, Part 0: General principles AS/NZS 1170.1:2002 - Structural design actions, Part 1: Permanent, imposed and other actions AS/NZS 1170.2:2021 - Structural design actions, Part 2: Wind actions AS/NZS 1170.3:2011 - Structural design actions, Part 3: Snow and ice actions					
	BlueScope coated steel products have been determined to be compliant with the following standards as required by AS 1562.1:2018 - Design and installation of sheet roof and wall cladding - Part 1: Metal - Section 2.1.3 Steel:	AS 1562.1:2018 - Design and installation of sheet roof and wall cladding - Part 1: Metal - Section 2.1.3 Steel: Requires metallic coated products to comply with; AS 1397-2021 - Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium. AS/NZS 2728:2013 - Prefinished/prepainted sheet metal products for interior/exterior building applications - Performance requirements. AS/NZS 2728:2013 specifies requirements for the physical properties and long-term durability of pre-finished/pre-painted sheet metal products. Fielders 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 1397-2021 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. Fielders product coating compliance is nominated at "Coating" above.					
<b>Compliance with the deemed-to-satisfy provision of the NCC</b>		NCC Volume 1 - For class 2 to 9 Buildings (Non-Residential) 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 Section B - Structure, Specification B1.2 - Design of Buildings in Cyclonic Areas Section B1.4 Structural Resistance • (j) (iv) Metal roofing, AS 1562.1:2018 (except in cyclone areas) NCC Volume 2 - For class 1 and 10 Buildings (Housing Provisions) • HID7 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 BID2 Resistance to actions, and Clause BID3 Determination of individual actions • NCC Volume One, Section B - Structure, Specification BID3 - Design of Buildings in Cyclonic Areas • AS/NZS 1170.0:2002 - Structural design actions, Part 0: General principles • AS/NZS 1170.1:2002 - Structural design actions, Part 1: Permanent, imposed and other actions • AS/NZS 1170.2:2021 - Structural design actions, Part 2: Wind actions • AS/NZS 1170.3:2011 - Structural design actions, Part 3: Snow and ice actions					

- Notes:**
- Not all products are available in all materials and finishes. Not all products are available in all regions. Visit [fielders.com.au](https://fielders.com.au) 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](https://warranties.bluescopesteel.com.au).
- \* 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](https://warranties.bluescopesteel.com.au) or call BlueScope on 1800 800 789.



## 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.

## 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

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

COLORBOND® prepainted steel and ZINCALUME® metallic coated steel and are supplied to Fielders in large coils. Fielders then rollforms 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.

## DISCLAIMER, WARRANTIES AND LIMITATION OF LIABILITY

- This publication is intended to be an aid for all trades and professionals involved with specifying and installing Fielders® products and not be a substitute for professional judgement.
- Terms and conditions of sale available at <http://fielders.com.au/legals/>
- 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.

Thermatech® solar reflectance technology is not available in Night Sky®, or non-standard colours, and is not available in COLORBOND® Stainless steel, COLORBOND® Metallic steel, or COLORBOND® Coolmax® steel.

COLORBOND®, ZINCALUME®, Thermatech®, Activate®, Fielders® and ® product names are registered trademarks of BlueScope Steel Limited and ™ product names are trademarks of BlueScope Steel Limited. © 2024 BlueScope Steel Limited. ABN 16 000 011 058. All rights reserved.

## YOUR COMPLIANCE CHECKLIST



Fully specify Fielders® Profile, Finish & Coating class



Check all details when you receive order confirmation



On-Site - check delivery docket and product branding