



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 and structural elements 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 relevant AS 4100 and AS/NZS provisions do not meet the deemed-to-comply provisions of the NCC. Fielders Steel building products have been tested by NATA accredited facilities to meet all relevant standards outlined in this document.

CHAIN OF RESPONSIBILITY

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

- a) Suitable for the intended use
- 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. Using non-confirming products can leave installers, builders and suppliers liable for cost of replacement, rectification and consequential damages.

INSIDE OUR BRANDS

COLORBOND® steel and ZINCALUME® steel and are supplied to Fielders in large coils. Fielders then shapes and forms these materials (through the process known as rollforming) into their range of roofing profiles, cladding, 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 to be a substitute for professional judgement.

Terms and conditions of sale available at local Fielders sales offices or via the Fielders websites.

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.

Warranties subject to application and eligibility criteria. For full terms and conditions and to determine the eligibility of your building for the warranty visit bluescopesteel.com.au/warranties or call BlueScope Steel on 1800 064 384.

COLORBOND® steel, ZINCALUME® steel, Thermatech®, BlueScope, the BlueScope brand mark, ® product and product brand names are registered trademarks and ™ product and product brand names are trademarks of BlueScope Steel Limited.

The Fielders® range of products is exclusively made by or for BlueScope Steel Limited trading as Fielders.

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. To determine the most suitable material for your project, please contact your supplier or see steel.com.au/colorbond.

© BlueScope Steel Limited March 2020 ABN 16 000 011 058. All rights reserved. NC1180-Mar20.

NATIONAL CONSTRUCTION CODE OF AUSTRALIA COMPLIANCE STATEMENT FOR FIELDERS ROOFING AND WALLING

MARCH 2020 | VER 3.0

THIS VERSION SUPERSEDES ALL PREVIOUS VERSIONS



THIS BULLETIN DETAILS RELEVANT NCC OF AUSTRALIA COMPLIANCE INFORMATION FOR THE FOLLOWING FIELDERS STEEL CLADDING PRODUCTS

- FIELDERS KINGKLIP 700®
- FIELDERS HIKLIP® 630
- FIELDERS HIRIB® 680
- FIELDERSTL-5™
- FIELDERS SPANFORM™
- FIELDERS S-RIB™
- FIELDERS LO-RIB™
- FIELDERS PANELFORM™
- FIELDERS MINI-FLUTE

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 manufactured 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 Fielders products with both the National Construction Code of Australia and the relevant Australian Standards for both Residential and Non-residential buildings.

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 and structural elements 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 relevant AS 4100 and AS/NZS provisions do not meet the deemed-to-comply provisions of the NCC.



NATIONAL CONSTRUCTION CODE OF AUSTRALIA (NCC) COMPLIANCE STATEMENT

FIELDERS STEEL ALUMINIUM CLADDING PRODUCTS



ISSUING IDENTITY: BLUESCOPE STEEL LIMITED		REFERENCE ID: FIEL-NCC-R&W			VERSION: 3.0		ISSUE DATE: MARCH 2020	
APPLICATION	ROOFING / WALLING / CEILING / SOFFITS 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 when designed using the individual technical data available for each product at https://specifying.fielders.com.au							
APPLICABLE PRODUCTS	ROOFING / WALLING				WALLING / CEILING / SOFFIT			
	FIELDERS KINGKLIP 700® FIELDERS TL-5™		FIELDERS HIKLIP® 630 FIELDERS SPANFORM™		FIELDERS HIRIB® 680 FIELDERS S-RIB™		FIELDERS LO-RIB™ FIELDERS PANELFORM™ FIELDERS MINI-FLUTE	
PRODUCT ATTRIBUTES	Base Metal Thickness Range		0.35mm - 0.48mm					
	Min Yield Strength		550 MPa					
BASE MATERIAL BRAND NAME	Zincalume® ZINCALUME® steel		Colorbond® COLORBOND® steel		Colorbond® COLORBOND® Ultra steel		Colorbond® COLORBOND® Metallic 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 Very High to High corrosive Environments; > 100m from breaking surf > 0m from calm marine		For Low to High corrosive environments; > 200m from breaking surf > 100m from calm marine	
COATING	AM125		AM100		AM150		AM100	
	125 g/m ² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397:2011		100 g/m ² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397:2011		150 g/m ² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397:2011		100 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 Type 4 includes Thermatech® solar reflectance technology^		Paint Coating to AS2728:2013 Type 3 includes Thermatech® solar reflectance technology^	
SOLAR ABSORPTANCE VALUE	range from 0.32 to 0.96		range from 0.32 to 0.73		range from 0.34 to 0.93		range from 0.35 to 0.79	
ROOFING APPLICATION WARRANTY	Up to 36Years*		Up to 36Years*		Up to 36Years*		Up to 30Years*	
WALLING APPLICATION WARRANTY	Up to 18Years* (Non - residential)		Up to 20Years* (Non - residential) Up to 15Years* (Residential)		Up to 20Years* (Non - residential) Up to 15Years* (Residential)		Up to 20Years* (Non - residential) Up to 15Years* (Residential)	
COMBUSTIBILITY	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 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 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)							
	Section F1.0 Deemed - to - Satisfy Provisions - F1.5 Roof coverings Metal Sheet roofing complying with AS1562.1 : 2018							
ACCEPTABLE CONSTRUCTION AND DESIGN MANUALS:	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							
	AS 1562.1:2018 - Design and Installation of sheet and wall cladding - Metal							
AUSTRALIAN STANDARDS COMPLIANCE	Design and Construction information / manuals for each of the Fielders Roofing and Walling profiles is provided at https://specifying.fielders.com.au/roofing-walling BlueScope Technical Bulletin 1A Steel roofing products - selection guide available at https://steelproducts.bluescopesteel.com.au							
	Fielders published Limit State Capacities for Strength and Serviceability have been determined from testing at 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							
	Limit state capacities contained within the Acceptable Construction & Design Manuals are suitable to determine structural adequacy and serviceability in accordance with; - 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							
	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 with aluminium and magnesium - AS/NZS 2728:2013 Prefinished/prepainted sheet metal products for interior/exterior building applications - Performance requirements - AS 1397-2011 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. AS/NZS 2728 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 AS1397, stainless steel, aluminium or aluminium ally in the form of sheet, coil or strip.							

¹ Thermatech® solar reflectance technology is incorporated in the standard COLORBOND® steel colour range, however excludes Night Sky®.

¹ National Association of Testing Authorities

*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.