FreeForm[™] NATIONAL CONSTRUCTION CODE (NCC) COMPLIANCE BULLETIN

DECEMBER 2023 | This version supersedes all previous issues.



THIS BULLETIN DETAILS RELEVANT NCC OF AUSTRALIA COMPLIANCE INFORMATION RELEVANT TO THE FOLLOWING FIELDERS PRODUCT.

• FreeForm™

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 FreeForm[™] 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 FREEFORM[™]**

Issuing entity		BlueScope Steel Limited trading as Fielders					
Issue Date		December, 2023					
Application		Fielders FreeForm™ for class 2 to 9 Buildings (Non-Residential) and for class 1 and 10 Buildings (Residential)					
Scope of Use		Fielders FreeForm [™] may be used as roof and or wall cladding when designed using the individual technical data available for each product at https://specifying.fielders.com.au					
Product Brand		Fielders®					
PRODUCTS ¹		FreeForm™					
Base Metal Brand		ZINCALUME® steel	COLORBOND [®] steel	COLORBOND® steel Matt	COLORBOND [®] Metallic steel	COLORBOND [®] Ultra steel	SUPERDURA® Stainless steel
Typical Environments		For Low to High corrosive environments; > 200m from breaking surf > 100m from calm marine	FFor 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 Very High to High corrosive Environments; > 100m from breaking surf > 0m from calm marine	For severe coastal and industrial environments < 0m from breaking surf
Base Metal Thickness Range		0.55mm - 0.75mm	0.55mm - 0.75mm	0.55mm - 0.75mm	0.55mm - 0.75mm	0.55mm - 0.75mm	0.9mm
Minimum Yield Strength		300 MPa	300 MPa	300 MPa	300 MPa	300 MPa	220-225 MPa
		AM125	AM100	AM100	AM100	AM150	Grade 430 SS
Coating		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	100 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	N/A
Paint ²		N/A	Paint Coating to AS 2728 includes Thermatech® solar reflectance technology	Paint Coating to AS 2728 includes Thermatech® solar reflectance technology	Paint Coating to AS 2728 Type 3 includes Thermatech® solar reflectance technology	Paint Coating to AS 2728 Type 4 includes Thermatech® solar reflectance technology	Paint Coating to AS 2728 includes Thermatech® solar reflectance technology
Solar Absorbance Value Range		N/A	0.32 to 0.96	0.35 to 0.79	0.34 to 0.93	0.32 to 0.73	N/A
Warranty ³	Roofing	Up to 36 years	Up to 45 years	Up to 45 years	Up to 30 years	Up to 45 years	Up to 45 years
	Walling	Up to 18 Years (Non - residential)	Up to 20 Years (Non - residential) Up to 15 Years (Residential)	Up to 20 Years (Non - residential) Up to 15 Years (Residential)	Up to 20 Years (Non - residential) Up to 10 Years (Residential)	Up to 20 Years (Non - residential) Up to 15 Years (Residential)	Up to 30 years
Combustibility		Fielders 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 are considered non-combustible materials in accordance with the National Construction Code clauses C1.9.(e).(v) and 3.7.1.1.(e).					
Acceptable Construction Manuals		AS 1562.1:2018 - Design and Installation of sheet and wall cladding - Metal 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					
Australian Standards	Fielders published Limit State Capacities for Strength and Serviceability have been determined from testing in compliance with the following standards						
Compliance	Limit state capacities provided within the Fielders project specific design assessment are suitable to determine structural adequacy and serviceability in accordance with	AS 1562.1:2018 - Design and installation of sheet roof and wall cladding - Part 1: Metal 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					
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 B11 Resistance to actions, and • Clause B12 Determination of Individual actions • Section B - Structure, Specification B12 - Design of Buildings in Cyclonic Areas Section B1 - Structure, Specification B12 - Design of Buildings in Cyclonic Areas Section B1 - Structure, Specification B12 - Design of Buildings in Cyclonic Areas Section B1 - Structure, Specification B12 - Design of Buildings in Cyclonic Areas Section B1 - Structure, Specification B12 - Design of Buildings in Cyclonic Areas Section B1 - Structure, Specification B12 - Design of Buildings in Cyclonic Areas • (I) (iv) Metal roofing: AS 156212018 (except in cyclone areas) NCC Volume 2 - For class 1 and 10 Buildings (Housing Provisions) • 351 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 B11 Resistance to actions, and Clause B12 Determination of individual actions • NCC Volume One, Section B - Structure, Specification B12 - Design of Buildings in Cyclonic Areas • AS/NZS 1170.2020 - Structural design actions, Part 1: Permanent, imposed and other actions • AS/NZS 1170.2020 - Structural design actions, Part 1: Permanent, imposed and other actions • AS/NZS 1170.2020 - Structural design actions, Part 2: Wind actions • AS/NZS 1170.2201 - Structural design actions, Part 3: Snow and ice actions • AS/NZS 1170.2201 - 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 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. 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 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 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.

Activate® technology is not available for COLORBOND® steel products with a galvanised steel substrate.

 $\label{eq:constraint} Thermatech^{\$} \ solar \ reflectance \ technology \ is not \ available \ in \ Night \ Sky^{\$}, \ or \ non-standard \ colours, \ and \ is not \ available \ in \ COLORBOND^{\$} \ Stainless \ steel, \ COLORBOND^{\$} \ Metallic \ steel, \ or \ COLORBOND^{\$} \ Coolmax^{\$} \ steel.$

COLORBOND[®], ZINCALUME[®], Thermatech[®], Activate[®], Fielders[®] and [®] product names are registered trademarks of BlueScope Steel Limited and [™] product names are trademarks of BlueScope Steel.

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



fielders.com.au