

RAINWATER GOODS

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® RAINWATER GOODS PRODUCTS.

- Quad Gutter
- Fascia Gutter and Capping
- Half Round Gutter
- Halfline Gutter
- Longline Gutter
- Ovolo Gutter
- Urbis Gutter
- Steel Fascia System
- Rolltop Ridge
- Valley Gutter
- Barge Roll
- Barge Capping
- Gutter Stop Ends
- Gutter Internal and External Corners
- Downpipes
- Downpipe accessories
- Gutter / Fascia Spring Clips
- Gutter Overstraps
- Gutter Internal Brackets
- Steel Fascia Rafter Brackets
- Internal and External Cast Corners
- Half Round External Gutter Brackets

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 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® rainwater goods 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 RAINWATER PRODUCT RANGE

Issuing entity:		BlueScope Steel Limited trading as Fielders							
Issue Date		December, 2023							
Application		Rainwater goods for Class 1 and 10 Buildings (Residential)							
Scope of Use		All products noted below may be used as roof guttering, fascia, capping and accessories when designed using the individual technical data available for each product, accessible at Fielders.com.au							
Product Brand		Fielders®							
PRODUCTS¹	Gutters	<ul style="list-style-type: none"> Quad Gutter Fascia Half Round Halfline Longline Ovolo Urbis Valley Gutter 	N/A	N/A	N/A	N/A	N/A	N/A	
	Fascia	<ul style="list-style-type: none"> Steel 	N/A	N/A	N/A	N/A	N/A	N/A	
	Cappings & Gutter Accessories	<ul style="list-style-type: none"> Fascia Roll Top Ridge Barge Roll Barge Capping Stop Ends Gutter Internal Corners Gutter External Corners Downpipes Downpipes Accessories Gutter Stop Ends 	<ul style="list-style-type: none"> Gutter/Fascia Spring Clips 	<ul style="list-style-type: none"> Gutter Overstraps Gutter Internal Corners Steel Fascia Rafter Brackets External Gutter Brackets 	<ul style="list-style-type: none"> Gutter Internal Cast Corners Gutter External Cast Corners 				
Base Metal Brand		ZINCALUME® steel	COLORBOND® steel	COLORBOND® Ultra steel	CK1055 Steel	CK1055 steel with electrostatic coating	ZINCALUME® steel	ZINCALUME® steel with electrostatic coating	Cast Zinc Alloy steel with electrostatic coating
Typical Environments		For low to high corrosive environments >200m from breaking surf >200m from calm marine	For low to high corrosive environments >200m from breaking surf >200m from calm marine	For high to very high corrosive environments >100m from braking surf >100m from calm marine	For low to high corrosive environments >200m from breaking surf >200m from calm marine	For high to very high corrosive environments >100m 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 >100m from calm marine	For low to high corrosive environments >200m from breaking surf >200m from calm marine
Base Metal Thickness Range	Gutters	0.42mm – 0.48mm	0.42mm – 0.48mm	0.42mm – 0.48mm	N/A	N/A	N/A	N/A	N/A
	Fascia	0.42mm	0.42mm	0.42mm	N/A	N/A	N/A	N/A	N/A
	Cappings & Gutter Accessories	0.4mm – 0.6mm	0.4mm – 0.6mm	0.4mm – 0.6mm	0.9mm – 1mm	0.9mm – 1mm	1mm – 1.6mm	1mm – 1.6mm	As per cast (2.5mm typical)
Minimum Yield Strength	Gutters	550 MPa	550 MPa	550 MPa	N/A	N/A	N/A	N/A	N/A
	Fascia	550 MPa	550 MPa	550 MPa	N/A	N/A	N/A	N/A	N/A
	Cappings & Gutter Accessories	300 MPa	300 MPa	300 MPa	560 MPa	560 MPa	250 MPa – 300 MPa	250 MPa – 300 MPa	N/A
Coating		AM125	AM100	AM150	Zinc electroplated 12um min, FeZn12c Type A Trivalent Hydrogen De-embrittlement 190°C, 6 Hrs min to AS 1789	Zinc electroplated 12um min, FeZn12c Type A Trivalent Hydrogen De-embrittlement 190°C, 6 Hrs min to AS 1789	AM125	AM125	EZDA 3 Zinc Alloy³
		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	150 g/m² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397			125 g/m² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397	125 g/m² minimum metallic coating mass, (aluminium/zinc/magnesium alloy) with Activate® technology to AS 1397	Zinc/ aluminium alloy with typical composition of ZN - 94.75% - 95.06% AL - 0.04% - 0.05% Other Elements < 1%
Paint²	N/A	Paint Coating to AS 2728 includes Thermatech® solar reflectance technology	Paint Coating to AS 2728 Type 4 includes Thermatech® solar reflectance technology	N/A	Electrostatically coated with 50-70 of Microns Interpon MetaPrep and a further 60-80 Microns of Interpon D1000 Excel	N/A	Electrostatically coated with 50-70 of Microns Interpon MetaPrep and a further 60-80 Microns of Interpon D1000 Excel	Electrostatically coated with 50-70 of Microns Interpon MetaPrep and a further 60-80 Microns of Interpon D1000 Excel	
Australian Standards Compliance		AS/NZS 2179.1:2014 - Specifications for rainwater goods, accessories and fasteners Metal shape or sheet rainwater goods, and metal accessories and fasteners AS/NZS 3500.3:2021 - Plumbing and drainage, Part 3: Stormwater drainage Metallic coated products comply with AS 1397:2021 - Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium Pre-painted products comply with AS/NZS 2728:2013 - Prefinished/prepainted sheet metal products for interior/exterior building applications - Performance requirements CK1055 steel product complies with AS/NZS 1789:2023 - Metallic and other inorganic coatings – Electroplated coatings of zinc with supplementary treatments on iron or steel (ISO 2081:2018, MOD) CK1055 steel product complies with AS/NZS 1789:2023 - Electroplated zinc coatings on ferrous articles with electrostatic coating. Electrostatic coatings have passed 1000-hour salt spray testing to AS 3715:2002, 1000 hour Humidity Resistance testing to AS 3715:2002 and Exterior Durability testing to AS 3715:2002 Zinc Alloy complies with AS 1881-1986							
Compliance with the deemed-to-satisfy provision of the NCC		NCC Volume 1 - For class 2 to 9 Buildings (Non-Residential) <ul style="list-style-type: none"> Damp and Weatherproofing Performance requirements H2P1 Rainwater management - H2D6 (1) Roofing and Wall Cladding NCC Volume 2 - For class 1 and 10 Buildings (Housing Provisions) <ul style="list-style-type: none"> 7.4 Gutters and downpipes Fielders published tables in reference manuals noted below are suitable to design gutter and downpipe systems in conjunction with: <ul style="list-style-type: none"> AS/NZS 3500.3 or NCC Housing Provisions 2022 - 7.4.2 (a) Materials, 7.4.3 Selection of Guttering, 7.4.4 Installation of gutters, 7.4.5 Downpipes - size and installation, 7.4.5 Downpipes - size and installation to meet NCC Performance Requirement H2P1 Rainwater management 							

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



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.

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