# **KingFlor**<sup>®</sup> 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® STEEL BUILDING PRODUCTS.

• RF55® 2P

• KF40®

• RF55® 3P

• KF57®

### FIELDERS<sup>®</sup> - 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.

- KF70®
- SlimDek 210®

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' formwork 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 KINGFLOR® PRODUCT RANGE

Issuing entity:		BlueScope Steel Limited trading as Fielders				
Issue Date		January 2024				
Application		Composite structural decking formwork 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 composite structural decking formwork when designed using the individual technical data available for each product, accessible at Fielders.com.au				
Product Brand		Fielders®				
PRODUCTS'		<ul> <li>RF55° 2P</li> <li>RF55° 3P</li> <li>KF40°</li> <li>KF57°</li> <li>KF70°</li> <li>SlimDek 210°</li> </ul>				
Base Metal Brand		DECKFORM® steel	Low Glare DECKFORM® steel	DECKFORM® steel	Low Glare DECKFORM® ste	
Typical Environments		For low to high corrosive environments >1000m from breaking surf >1000m from calm marine	For low to high corrosive environments >1000m from breaking surf >1000m from calm marine	For low to high corrosive environments >1000m from breaking surf >1000m from calm marine	For low to high corrosive environments breaking surf >1000m from calm	
Base Metal Thickness Range		0.6mm – 1.2mm	0.6mm – 1.2mm	0.6mm – 1.2mm	0.6mm – 1.2mm	
Minimum Yield Strength		550 MPa	550 MPa	550 MPa	550 MPa	
Coating		Z350	Z350	Z450	Z450	
		350 g/m² minimum metallic coating mass, (Type Z) to AS 1397	350 g/m² minimum metallic coating mass, (Type Z) to AS 1397	450 g/m² minimum metallic coating mass, (Type Z) to AS 1397	450 g/m² minimum metallic coating mass, (	
		Passivated	Passivated and Resin coated to 1-2µm	Passivated	Passivated and Resin coated to	
Warranty <sup>2</sup>		Up to 10 years	Up to 10 years	Up to 15 years	Up to 15 years	
Combustibility		Fielders * products manufactured from DECKFORM*, steel materials all have an Ignitability Index, Spread of Flame index and Heat Evolved Index of 0 (zero) and as such may be used whenever a non-combustible material is required in accordance with				
Acceptable Construction Manuals		BlueScope Technical Bulletin TB-29 - DECKFORM® zinc-coated structural steel Design and construction information / manuals for each of the Fielders KingFlor products is provided at https://specifying.fielders.com.au/kingflor/				
in compliance with the following standards. AS		AS/NZS 2327:2017 - Composite Structures - Composite steel-concrete construction in buildings AS 3600-2018 - Concrete structures AS 4100:2020 - Steel structures AS/NZS 1530.3:1999 - Methods for fire tests on building materials, components and structures Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release (Reconfirmed 2016) AS 1530.4-2014 - Methods for fire tests on building materials, components and structures Part 4: Fire-resistance tests for elements of construction				
Australian Standards Compliance	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 - 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 AS/NZS 2327-2017 Composite Structures - Composite steel-concrete construction in buildings AS 3600-2018 - Concrete structures AS 4100:2020 - Steel structures				
	BlueScope coated steel products have been determined to be compliant with the following standards:	AS 1397-2021 - Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium 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 classes Fielders® product coating compliance is nominated at "Coating" above. AS/NZS 2728:2013 - Prefinished/prepainted sheet metal products for interior/exterior building applications - Performance requirements 1.3.1 Metal products Hot dipped metallic coated steel (types Z, ZM, AZ, AM) AS 4586-2013 - Slip resistance classification of new pedestrian surface materials				
Compliance with the deemed-to-satisfy provision of the NCC		<ul> <li>NCC Volume 1 - For class 2 to 9 Buildings (Non-Residential)</li> <li>Section B - Structure, Part B1 - Structural Provisions: BID1 - Structural Resistance; BID2 - Determination of individual actions (Deemed-to-Satisfy Provisions); BID3 - Structural provisions (Deemed-to-Satisfy Provisions); BID4 - Determination of s Provisions), (b) (i) Concrete construction: AS 360, (d) Composite steel and concrete: AS/NZS 2327</li> <li>Section C2D1 Deemed-to-Satisfy Provisions, C2D2 Type of construction required, C2D10 Non-combustible building elements</li> <li>Section F - Health and amenity, F7 Sound Transmission and Insulation, F7PI Sound transmission through floors</li> <li>Section J - Energy efficiency: J4D3 Thermal construction – General; J4D7 Floors</li> </ul>				

#### 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.
 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

' steel	DECKFORM® steel			
ents >1000m from alm marine	For low to high corrosive environments >1000m from breaking surf >1000m from calm marine			
	0.6mm – 1.2mm			
	550 MPa			
	Z600			
.ss, (Type Z) to AS 1397	600 g/m² minimum metallic coating mass, (Type Z) to AS 1397			
d to 1-2µm	Passivated			
	Up to 15 years			

with National Construction Code.

g class requirements critical to building durability.

of structural resistance of materials and forms of construction (Deemed-to-Satisfy

#### **UNDERSTANDING COMPLIANCE**

The National Construction Code (NCC) outlines deemed-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 products must be able to meet expected Structural, Wind and Installation loads as per the Australian Standards,

b) That installed metal products must be sufficiently durable to meet the amenity and sustainability requirements of the Australian Standard.

To determine a metal formwork's capacities and ability to comply with Australian design standards, metal formwork products must be tested in accordance with AS/NZS 2327. Metal formwork products that cannot demonstrate testing to AS/NZS 2327 and compliance with other relevant Australian Standards do not meet the deemed-to-comply provisions of the NCC.

#### STATEMENT OF PRODUCT CONFORMANCE

This document confirms that the structural design capacity tables for Fielders® Structural Formwork products included in the Acceptable Construction Manuals referenced in this bulletin have been prepared in accordance with the relevant Australian Standards & Deemed to satisfy provisions of NCC 2022 as referenced below.

Designs utilising data from these reference documents can form part of a structurally adequate assembly, subject to the following conditions:

 Installation of structural formwork products is in accordance with the Acceptable Construction Manuals referenced in this bulletin and accepted good construction practice.

#### **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 materials.

KingFlor® zinc coated steel from BlueScope is supplied to Fielders in large coils. Fielders then shapes and forms these materials (through the process known as rollforming) into our range of structural formwork products.

#### 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<sup>®</sup> products and not be a substitute for professional judgement.
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## 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



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