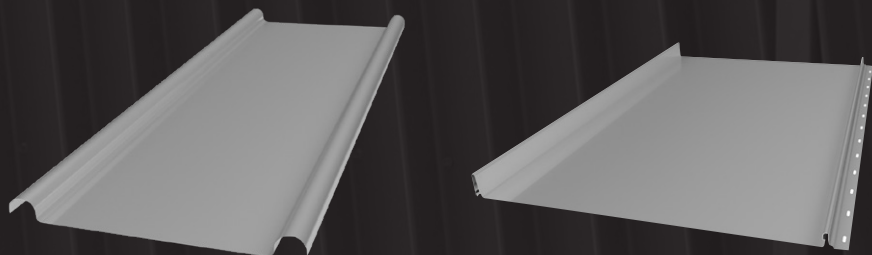




Finesse® Statement of Compliance - Design

Including Flammability



Statement of Compliance

This statement of compliance covers the Fielders Finesse[®] range as contained in the *Specifying Fielders Online Portal* available at specifying.fielders.com.au. The manual consists of two parts - for non-cyclonic and cyclonic areas.

Fielders Finesse[®] profiles have limit state capacities for strength and serviceability (published in tables contained within the *Specifying Fielders Online Portal* and have been determined from testing in compliance with the following Australian Standards (and recent amendments):

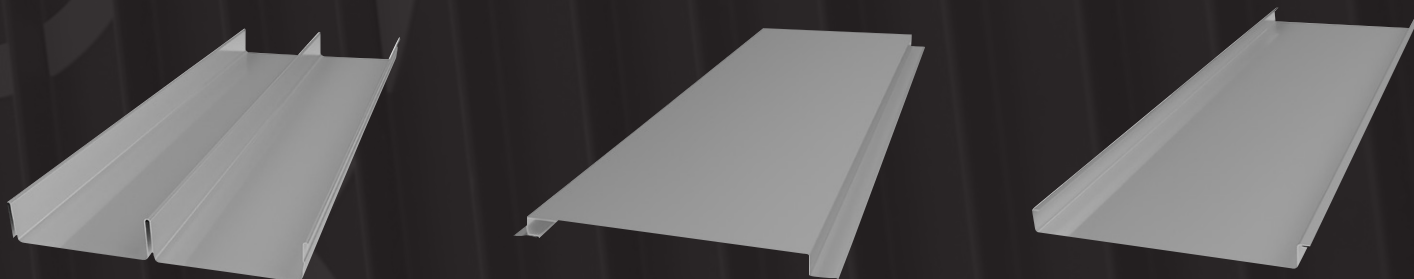
- AS 1562.1: 2018 Design and installation of sheet roof and wall cladding. Part 1: Metal
- AS 4040.0 – 1992 (Reconfirmed 2016) Methods of testing sheet roof and wall cladding. Method 0 : Introduction, list of methods and general requirements
- AS 4040.1 – 1992 (Reconfirmed 2016) Methods of testing sheet 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

Additionally, Fielders Finesse[®] profiles are manufactured from material that comply with the following Australian Standards (and recent amendments) and NCC requirements:

- Material of 0.55-0.75mm BMT G300 complying with AS 1397-2011 Continuous hot-dip metallic coated steel sheet and strip-Coatings of zinc and zinc alloyed with aluminium and magnesium
- Material metallic coating of AM100 and AM125 and AM150 complying with AS 1397-2011 Continuous hot-dip metallic coated steel sheet and strip-Coatings of zinc and zinc alloyed with aluminium and magnesium
- Paint finish complying with AS/NZS 2728:2013 Prefinished/prepainted sheet metal products for interior/exterior building applications-Performance requirements
- Fire tested complying with AS/NZS 1530.3:1999 (Reconfirmed 2016) Methods for fire tests on building materials, components and structures. Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release.
- Is defined as a “non-combustible material” complying with NCC 2016, Volume One, Section C – Fire Resistance, Part C1 – Fire Resistance and Stability, Clause C1.9 Non-combustible elements, Sub-clause 9e)

Limit State Capacity Tables contained within the *Specifying Fielders Online Portal* are suitable to determine structural and serviceability of Fielders Finesse[®]. Products for individual projects referencing the following for Australian standards (and recent amendments) and NCC requirements:

- NCC 2016, 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 2016, 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/NZS1170.3:2011 (Reconfirmed 2016) Structural design actions, Part 3: Snow and ice actions Cladding Design utilising data from <https://specifying.fielders.com.au/finesse/> will be structurally adequate subject to the following conditions:
 1. Compliance with design data and connections contained within *Specifying Fielders Online Portal*.
 2. Installation and Construction shall be in accordance with *Specifying Fielders Online Portal* and accepted good practice
 3. All input parameters for cladding design is the responsibility of the designer and are excluded from this Compliance Statement
 4. This Compliance Statement becomes invalid if there are any pertinent changes to the relevant Australian Standards or the National Construction Code of Australia or relevant technical data which postdates this Compliance Statement.



Flammability

Refer to *Fielders Fact File: Cladding Fire Rating (Aug 17)* for full testing details and technical specifications.

Scope

Flammability of Fielders Finesse® steel products including roofing, walling, manufactured from COLORBOND® steel, and ZINCALUME® steel from BlueScope.

BlueScope Testing

BlueScope has commissioned CSIRO to undertake a comprehensive range of testing to determine the Flammability of various permutations of COLORBOND® steel, ZINCALUME® steel and galvanised steel material. These tests have been conducted in accordance with AS1530.3: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release.

The test results pertinent to the Fielders Finesse® range are summarised in the following table:

Product	Test Certificate	Ignitability Index ⁽¹⁾ (0-20)	Spread of Flame Index ⁽²⁾ (0-10)	Heat Evolved Index ⁽³⁾ (0-10)	Smoke Developed Index ⁽⁴⁾ (1-10)
0.70 BMT COLORBOND® Metallic steel Astro™	FNE11604	0	0	0	2
0.55 BMT COLORBOND® Metallic steel Citi	FNE11606	0	0	0	1

Conclusion

As a result of this testing we are able to determine that Fielders Finesse® range of products manufactured from BlueScope's COLORBOND® steel, or ZINCALUME® steel materials all have a Spread-of-Flame index of 0 (zero) and as such are considered non-combustible materials in accordance with the National Construction Code clauses C1.12 (e) and C7.12 (e). Additional information in relation to use of COLORBOND® steel products in bush fire prone areas may be sourced from the BlueScope Fact File Steel cladding details for bushfire-prone construction at: <https://cdn.dcs.bluescope.com.au/download/steel-clad-details-for-bushfire-prone-construction>



IMPORTANT NOTE: when considering the information presented in this brochure is important to understand the difference between “flammability” and “fire rating”.

Flammability: is a measure of how easily a specific material ignites or sustains a combustion reaction.

Fire ratings: are applied to complete systems and not to individual materials or components of the system. Fire ratings, or Fire Resistance Level (FRL) refer to the fully constructed system's ability to withstand structural failure, prevent the spread/ penetration of flames and ability to insulate interior elements from maximum specified temperatures. It is often expressed in minutes without failure for each of the three elements i.e. 60/60/60, -/120/120 anywhere from 30 minutes up to 240 minutes.

National Construction Code: The National Construction Code (NCC) is an initiative of the Council of Australian Governments (COAG) developed to incorporate all on-site construction requirements into a single code. The NCC comprises the Building Code of Australia (BCA), Volumes One and Two; and the Plumbing Code of Australia (PCA), as Volume Three.

PRODUCT DESCRIPTIONS

All descriptions, specifications, illustrations, drawings, data, dimensions and weights contained in this catalogue, all technical literature and websites containing information from Fielders are approximations only.

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- (b) alter specifications shown in its promotional literature to reflect changes made after the date of such publication.

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