

Certificate number: CM40149

Certification Body:


 ABN: 80 111 217 568
 JAS-ANZ Accreditation
 No. Z4450210AK
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Certificate Holder:

Metecno Pty Ltd
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 121 Ingram Road,
 Acacia Ridge Qld 4110
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THIS TO CERTIFY THAT

FlameGuard®

Type and/or use of product:

FlameGuard® is designed to be used as a pre-finished insulated metal wall for all classes of buildings, residential and commercial external and internal walls and ceilings.

Description of product:

FlameGuard® is a non-combustible architectural walling panel system manufactured using 0.6mm or 0.7mm Colorbond steel faces with a mineral wool fibre core material and is available in the following variations:

- FlameGuard® - 50mm and 75mm thick panel, and
- FlameGuard® Plus - 100mm and 150mm thick panel.

See A3 below for further detail.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

BCA 2016

	Volume One (Amdt. 1)	Volume Two
Performance Requirement(s)	BP1.1(a), (b)(i), (ii)&(iii) Structural Reliability GP5.1 Construction in bushfire prone areas – Contributes to the Bushfire Attack Level of the Building - Refer A3 JP1.5 Energy Efficiency – External walls. Can be used in conjunction with other building elements to achieve a Total R Value. Refer to A3	P2.1.1(a), (b)(i),(ii)&(iii) Structural stability and resistance to actions P2.3.1 Fire-resistance of building elements – Refer A3 for FRL's of tested specimens P2.3.4 Bushfire areas - Contributes to the Bushfire Attack Level of the Building - Refer A3 P2.6.1 Energy Efficiency – External walls. Can be used in conjunction with other building elements to achieve a Total R Value. Refer to A3
Deemed-to-Satisfy Provision(s):	C1.1(b) Fire-resistance of building elements – Refer A3 for FRL's of tested specimens. C1.9(e)(v) Non-Combustible material- tested to 1530.1:1994 C1.10(a)(ix) Fire Hazard Properties. Refer A3	Not Applicable
State or territory variation(s):	GP5.1 (NSW, Qld, Tas), JP1.5 (NSW, NT, Qld)	P2.3.4 (Tas), P2.3.1 (SA), P2.6.1 (Vic, NSW, NT)


John Thorpe - CMI


Don Grehan – Unrestricted Building Certifier

Date of issue: 13/12/2018

Date of expiry: 13/12/2021



Certificate of Conformity

SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

Limitations and conditions:

1. It is the responsibility of the building designer to ensure fitness for purpose.
2. FlameGuard[®] and FlameGuard[®] Plus are to be installed in accordance with [BON0126 Bondor Tech Data Sheets - Equitilt Flameguard Plus v47](#) and [BON0535 Drawing Pack - Flameguard v3](#).
3. The FlameGuard[®] Wall Panel is for use up to and including N4 wind Regions (where Wind classification is up to Vsit,500=61m/s).
4. The FlameGuard[®] Wall Panel (50mm & 75mm) is suitable for Bushfire Areas up to BAL-40 when constructed in accordance with the Deemed-to-Satisfy Assessment Report prepared by Hendry Group Pty Ltd.
5. The FlameGuard[®] Plus Wall Panel (100mm & 150mm) is suitable for Bushfire Areas up to BAL-FZ when constructed in accordance with the Deemed-to-Satisfy Assessment Report prepared by Hendry Group Pty Ltd
6. GP5.1 only applies to a Class 10a building or deck associated with a Class 2 or 3 building located in a designated bushfire prone area.
7. NSW GP5.1 only applies to (a) Class 2 or 3 buildings, (b) Class 4 part of Building, (c) Class 9 building that is a special fire protection purpose, (d) or a Class 10a building or deck associates with a building or part referred to in (a), (b) or (c).
8. Only panel thicknesses of 100mm and 150mm have been assessed for fire resistance performance by Exova Warrington Aus Pty Ltd NATA Accreditation Number: 3277.
9. Nothing in this document should be construed as a warranty or guarantee by CMI, and the only applicable warranties will be those provided by the Certificate Holder.
10. This Certificate is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Certificate is outside of this document's scope and the installation of the certified product/system will not be covered by this CodeMark certification. This may result in the product being classified as a non-conforming building product/system.

Building classification/s:

1,2,3,4,5,6,7, 8, 9, & 10

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

As per page one.

A2 Description of product

FlameGuard® is a non-combustible and fire-rated sandwich panel with a mineral wool core encased in BlueScope® Steel pre-finished in Colorbond®.

A3 Product specification

Panel Properties

Dimensions



Source: Certificate Holder

Core	MW (Mineral Wool)
Width (cover mm)	1140
Thickness (mm)	FlameGuard®: 50 or 75 FlameGuard® Plus: 100 or 150
Length	Up to 11m (check for availability)
External Material	0.6mm or 0.7mm G300 Colorbond® steel
External Finishes	Plain, Ribbed, Satinline, Shadowline Series 600/1200
Exterior Colour Options	Standard & Non-Standard colours. Check for availability
Internal Material	0.6mm or 0.7mm G300 Colorbond® steel
Internal Finishes	Plain, Ribbed, Satinline, Shadowline Series 600/1200

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Paint System AS/NZS 2728:2013 & AS 1397-2011

Bushfire Attack Level FlameGuard®: BAL - 40
FlameGuard® Plus: BAL - FZ

Fire Hazard Properties AS/NZS 1530.3-1999 Indices

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	3
Group number	1

Fire Resistance Levels Performance for Bondor Vertical FlameGuard® Plus – External Fire only.

Panel Thickness (mm)	Max. panel height (m)	Max. revit spacing in panel joints(mm)	Intumescent on panel core at joins	Max. support distance (X)	Min. support fixing per support	FRL of panel	FRL of column/ structure protected by panel	FRL of wall system
100	12	600	None	3m	2	-/60/60	60/-/-	60/60/60
100	12	None	Item 9	3m	2	-/90/90	90/-/-	90/90/90
100	12	300	Item 9	5.7m	4	-/60/60	60/-/-	60/60/60
150	12	400	None	3.3m	3	-/60/60	60/-/-	60/60/60
150	12	300	Item 9	3.3m	3	-/180/180	180/-/-	180/180/180
150	12	300	Item 9	3.8m	3	-/120/120	120/-/-	120/120/120
150	12	300	Item 9	5.7m	4	-/60/60	60/-/-	60/60/60

Note: Please contact Certificate Holder for complete tables of FRLs.

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Energy Efficiency

	FlameGuard®		FlameGuard® Plus	
Panel Thickness (mm)	50	75	100	150
Typical Mass (kg/m ²)	15.6	18.1	20.6	25.6
Total R-Value (m ² K/W)	1.6	2.3	3.0	4.4
Note: The above Total R-values are for insulation average temperature of 15°C. Contact the Certificate Holder for other temperatures.				
Max Panel Length (m)	5	7	9	11

Source: Tech Data Sheets – Equiltilt Flameguard Plus v47

A4 Manufacturer and manufacturing plant(s)

Metecno Pty Ltd
103 Ingram Road
Acacia Ridge QLD 4110
T: +617 3323 8555

A5 Installation requirements

FlameGuard® and FlameGuard® Plus are to be installed in accordance with [BON0126 Bondor Tech Data Sheets - Equiltilt Flameguard Plus v47](#) and [BON0535 Drawing Pack - Flameguard v3](#).

A6 Other relevant technical data

Acoustic Properties – R_w 28 - 30 depending on construction. Contact Certificate Holder for construction details.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

CMI has followed the following procedures for certifying the Flameguard[®]:

- Testing and assessment of the Flameguard[®];
- Assessing a quality plan for the Flameguard[®] that conforms to ISO 10005 and the CodeMark scheme rules;
- By reviewing testing of samples supplied to ascertain whether or not the product meets the performance requirements specified on this certificate; and
- Conducting site audits of the factory to verify compliance of the Flameguard[®].

B2 Reports

1. AWTA Product Testing; NATA Accreditation No. 1356; Fire Testing of Flameguard – AS/NZS 1530.3-1999 Fire indices; Dated 13/03/2009.
2. Bligh Tanner Pty Ltd; Reference No. 2017.0493; Certification of FlameGuard Panel Span tables; Dated 12/02/2018.
3. Exova Warringtonfire Aus Pty Ltd; NATA Accreditation No. 3277; Report No. EWFA 24897-20; Fire testing to AS 1530.4-2005 – Determination of FRL; Dated 22/06/2018.
4. Hendry Group Pty Ltd; Deemed-to-Satisfy assessment for Bondor wall panels – BAL 40; Dated 09/11/2017.
5. Hendry Group Pty Ltd; Deemed-to-Satisfy assessment for Bondor wall panels – BAL FZ (Equitilt Flameguard 100mm); Dated 09/11/2017.
6. Ignis Solutions Pty Ltd; Report No. IGNS-6252 I01 R02; Product Evaluation of Bondor Flameguard; Dated 10/10/2018.
7. Ian Bennie and Associates; NATA Accreditation No. 2371; Report No. 2014-021-S6; Prototype test of FlameGuard[®] to AS/NZS 4284:2008; Dated 26/07/2014.
8. James M Fricker Pty Ltd; Report No. 265c; Thermal calculations of FlameGuard wall panel; Dated 13/02/2018.
9. CSIRO; NATA accreditation number 165; Report number FC-2349; Combustibility test for Materials: Dated 10/06/2014

The Certificate Holder has chosen not to make the above evidence of compliance publicly available, due to the documents being considered commercial in confidence.