



Certificate of Conformity

Certificate number: CM40009 Rev6

Certification Body:


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


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Moffat Beach Qld 4551
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THIS TO CERTIFY THAT

ResCom® Board

Type and/or use of product:

ResCom® Board can be used as an interior and exterior wall sheathing, ceilings, fascia, eaves lining, flooring, decking, composite panel linings, fire protection panels and decorative panels.

Description of product:

ResCom® Board is a flat magnesium oxide cold ceramic sheeting. The product is available in various colours and the outer layer of the Fiberglass reinforcing mesh is visible on the surface of the sheets. The sheets are individually branded with the ResCom® brand and the CodeMark logo and number.

Available in the following dimensions:

- 10mm to 50mm thickness
- 1220mm x 2440mm
- 1220mm x 2745mm
- 1220mm x 3050mm

FRL Solutions Utilising: 10mm, 12mm, 14mm, 15mm and 18mm (refer installation details as referenced in section A5 below).

Brand Name: ResCom®

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

BCA 2016

	Volume One	Volume Two
Performance Requirement(s)	Not Applicable	Not Applicable
Deemed-to-Satisfy Provision(s):	C1.1 Fire-resisting construction C1.10 Fire hazard properties	P2.3.1 Spread of fire
State or territory variation(s):	C1.1 Fire-resisting construction SA. C1.10 Fire hazard properties SA and NSW	Not Applicable for this Product


John Thorpe - CMI


Don Grehan – Unrestricted Building Certifier

Date of issue: 22/12/2017

Date of expiry: 22/12/2020



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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. This Certificate of Conformity relates only to the ResCom[®] Board as described above. The Certificate Holder makes no claims to the efficacy of the board when used in conjunction with other products or construction systems.
2. Must only be used in situations applicable for the products use as detailed in the relevant sections of the ResCom[®] Installation Manual: Internal, External Cladding, Lining and Flooring* Products: ResCom[®]: Edition 6.
3. ResCom[®] Board must not be affixed directly to any metal fixtures and only non-corrosive fixtures and fasteners are to be used.
4. When used in external wall situations the Board must be primed on both sides and on the edges with a sealer binder (Eg Bond Crete / Lanko 124) or similar.
5. Fire Resistance Level's vary dependant on application of ResCom[®], consult ResCom[®] Installation Manual: Internal, External Cladding, Lining and Flooring Products: ResCom[®]: Edition 6 for specific ratings.
6. When used as a component in a fire separation wall the board must be installed in accordance with the ResCom[®] Installation Manual: Internal, External Cladding, Lining and Flooring Products: ResCom[®]: Edition 6. The efficacy of the fire separation wall must be verified and certified by a suitable qualified fire engineer.
7. The Certificate Holder makes no claims of efficacy of the fire separation wall. The efficacy of the fire separation wall must be verified and certified by a suitable qualified fire engineer.
8. 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:

Class 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.



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APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

As per page one.

A2 Description of product

ResCom wall board.

ResCom® Wall Board:

The sheets are individually branded with the ResCom® brand and the CodeMark logo and number.

Colours:

1. Light Blue ResCom(R) (CHSB) Interior Use Only (Excluding Wet Areas)
2. Light Green / Gray ResCom(R) (HMR) Exterior and Interior Use Including Wet Areas
3. Dark Green / Brown ResCom(R) (SF) Structural Flooring Boards

Available in the following dimensions:

- 10mm to 50mm thickness
- 1220mm x 2440mm
- 1220mm x 2745mm
- 1220mm x 3050mm

Rescom Flooring:

Fibreglass reinforced Composite cold formed ceramic Magnesium Oxide Board.

Finish: Smote faced with a sanded back **Colour:** Brown, Dark Green and grey

Edging: Square/ Shiplap/Tongue and groove. **Thickness:** 16mm, 18mm and 20mm.

A3 Product specification

Material composition of ResCom Board

Magnesium Oxide

Mg^c12

Wood fibre

Perlite

Other

Firerglass re-enforcing mesh

A4 Manufacturer and manufacturing plant(s)

This field is voluntary the certificate holder has chosen not to declare the manufacturing facility. CMI is aware of the manufacturing site and has audited it for conformance.

A5 Installation requirements

1. Must be installed in accordance with the approved [ResCom® Installation Manual: Internal, External Cladding, Lining and Flooring Products: ResCom®: Edition 6](#).
2. Must only be installed by a qualified and licensed tradesperson or builder.
3. Must only be used in situations applicable for the products use as detailed in the relevant sections of the [ResCom® Installation Manual: Internal, External Cladding, Lining and Flooring Products ResCom® Edition 6](#).
4. When used in external wall situations the board must be sealed on both sides and on the edges with an appropriate sealing primer.
5. Fire Resistance Levels vary dependant on application of ResCom®, consult [ResCom® Installation Manual: Internal, External Cladding, Lining and Flooring Products: ResCom®: Edition 6](#) for specific ratings.
6. When used in fire separation wall must be installed in accordance with the [ResCom® Installation Manual: Internal, External Cladding, Lining and Flooring Products: ResCom®: Edition 6](#).

Note: The Certificate Holder makes no claims of efficacy of the fire separation wall. The efficacy of the fire separation wall must be verified and certified by a suitably qualified Fire Engineer.

A6 Other relevant technical data

Reaction to fire: This Certificate of conformity relies only the fire properties of the Board as described herein. The following information details the various testing and the configuration of the tested samples. The FRL values achieved under this testing related directly to the tested sample configuration. Any variation from the wall system detailed below is outside of the scope of this Certificate of conformity.

FRL	System Details
-/90/90	10mm thick ResCom board on either side of a 75mm light gauge steel joist and 50kg/m ³ of mineral wool insulation.
-/120/120	12mm thick Rescom® board on either side of studwork 46mm galvanised steel joists 94Kg per M ³ Luyangwool 72 mullite crystal fibre blanket insulation.
-/180/190	12mm thick Rescom® board on either side of 75mm steel studs at nominal 600mmcentres and 180Kg per M ³ Rockwool insulation.
90/90/60	12mm thick ResCom Board bonded on either side to a closed cell Polyurethane foam core.

-/240/240 15mm thick Rescom® board on either side of studwork 18 gage steel studs at 600mm centres with 2.7 kg of mineral wool insulation.

Source: Ignis Solutions; Evaluation No. 4241 [2016] Report. Concludes that the penetrations of material will conform with CP6 clause C3.15 and specification C3.15 if installed as detailed in the report, dated September 26, 2017.

Flooring Structure:

Report on evidence of suitability and compliance against AS/NZS 1170.0:2002 and AS/NZS 1170:2002.

Product description:

Fibreglass reinforced Composite cold formed ceramic Magnesium Oxide Board.

Finish: Smooth faced with a sanded back.

Colour: Brown, Dark Green and grey.

Edging: Square/ Shiplap/Tongue and groove.

Thickness: 16mm, 18mm and 20mm.

Report concludes that the 16mm, 18mm and 20mm thick ResCom® wall system meet the required concentrated load criteria for floors as specified in table 3.1 of AS 1170.:2002 and the maximum suggested deflection for Serviceability Lime State Criteria as specified in Table C1 (AS/NZS 1170.0:2002).

Source: Adam Winter, registered professional engineer RPEQ (09104) structural flooring report.

Sound testing of wall system AS/NZS ISO 717.1:

The installed specimen was a wall composed of (from receiving to source room):

2 layers of 12mm Board ResCom®- 75mm steel studs filled with 24kg/m³ glasswool R2.0 Bradford Soundscreen - 20mm air gap - 75mm steel studs filled with 24kg/m³ glasswool R2.0 Bradford Soundscreen.

The internal frame was made of a double stud frame composed of 75mm (1mm thick) steel studs with 600mm centres and noggins at 1208.5mm from ground.

Edges in contact with the sample holder were sealed with Sikaflex sealant.

Mean $R_w(C;C_{tr}) = 64(-3;-9)$ dB.

Other Properties:

Flexural strength	10mm	22.9
	18mm	14.9
Water absorption %	10mm	12.8
	18mm	13.2
Humidified deflection (mm) (32°C,90%RH, 48h)	10mm	2.64
	18mm	2.18
Nail-Head Pull-Through (N)	10mm	517
	18mm	789



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Falling Ball Impact	10mm	The sample was unbroken at 3000mm heights of drop.
	18mm	The sample was unbroken at 3000mm heights of drop.
Lateral Nail Resistance	20mm	2278N
	10mm	1450N

AS/NZS 4284 2008 testing of building façade:

Static pressure 455pa

Test duration 15 minutes

Cyclic water penetration

Test pressure Pa	Duration Minutes	Comments
227-455	5	No water penetration observed
303-606	5	No water penetration observed
455-910	5	No water penetration observed

2 x 10mm panels with a 90mm internal cavity - overall thickness 110mm. The panels had vertical spacers made of 16mm MgO board as spacing range of 230 to 257mm the spacer was bonded with Sika moisture cure jointer block 90mm x 106 mm that forms the internal spacer at the opposite edge and provides the edge connection to the edge recess of the adjoining panel. The inner 16mm vertical spacer is bonded to the underside of the top 45 mm capping section.

- Structural testing as Serviceable Limited State Wind Pressure
- Air infiltration test
- Water penetration by static pressure
- Water penetration test by cyclic pressure
- Structural testing as Ultimate Limit State Wind pressure.

The achievement of the acoustic and FRL values stated in this Certificate of Compliance are dependent on the wall system being constructed in accordance with the installation manuals cited herein. It is the responsibility of the designer, builder and other relevant technical experts to ensure that wall & flooring systems constructed using the ResCom® Wall and Flooring boards are compliant with the installation manual as well as all relevant state and territory building regulations.



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APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

Fire Assessment - A2.2 (a)(i) & (iii) and 1.2.2 (a)(i) & (iii). Reports from NATA accredited test laboratories and certificates from Professional Engineers.

B2 Reports

1. Ignis Solutions; ResCom Wall Installation Compliance Evaluation No. 5123 Issue 01 Revision 00 [2017]; dated 24 May 2017.
2. Ignis Solutions; Evaluation No. 5043 Issue 01 Revision 01 [2017] structural steel protection, dated April 14, 2017.
3. Ignis Solutions; Evaluation No. 4241 [2016] Report, concludes that the penetrations of material will conform with CP6 clause C3.15 and specification C315 if installed as detailed in the report, dated September 26, 2017.
4. SGS; Test Report No. SHCCM150902768; 10mm ResCom® Wall and Ceiling Board tested to AS/NZS 3837:1998; dated September 18, 2015.
5. SGS; Test Report No. SHCCM150901643; 12mm board tested to AS/NZS 3837:1998; dated July 10, 2015.

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