

# Product Technical Statement



<b>Company;</b>	<b>ResCom® Building Products Pty Ltd, ResCom® Building Products LLC</b>	
<b>Product Name;</b>	ResCom® (CMC) Wall, Ceiling & Flooring Board	
<b>Type and/or use of product;</b>	Cellulose Magnesia Cement (CMC) Board used for Internal & External Wall Linings	
<b>Description of product;</b>	8mm, 10mm, 12mm, 14mm, 16mm, 18mm 20mm Cellulose Magnesia Cement Board Used in construction as an internal or external wall, ceiling lining & Flooring board	
<b>Fibre-Cement Flat Sheet Performance Requirements to ISO:8336 Standards;</b>	EN 12467:2012+A1:2016 (E); EN 317:1993 EN 12467:2012+A1:2016 EN 12467:2012+A1:2016 EN 12467:2012+A1:2016 (E) EN 12467:2012+A1:2016	(E) Sections 5.4.4 and 7.3.2 (E) Sections 5.5.2 and 7.4.1 (E) Sections 5.5.3 and 7.4.2 (E) Sections 5.4.5 and 7.3.3 (E) Sections 7.3.3
<b>Ref Documents: NCC:2022 BBA:2022, IRC and IBC 2021</b>	NCC 2022: Volume One - Complies with AS/NZS 2908.2 or ISO:8336 1993E	NCC 2022: Volume Two – Complies with AS/NZS 2908.2 or ISO:8336 1993E

Limitations and Conditions		
<b>1</b>	With regards to structural integrity of the required materials for the manufacture and assembly of cabinetry. This Product Technical Statement limits compliance with the relevant Australian, New Zealand and other International Standards as listed below to the following extent;	
	EN 12467:2012 + A1:2016 (E)	Fiber-Cement Flat Sheets – Product Specification and Test Methods
	EN 317:1993	Particleboards and Fiberboards – Determinations of Swelling in Thickness After Immersion in Water
	EN 12467:2012 + A1:2016	Fiber-Cement Flat Sheets – Product Specification and Test Methods
<b>2</b>	Products manufactured using the product listed within the Product Technical Statement fulfil all relevant requirements of the European and International Standards as listed above in compliance with ISO:8336.	
<b>3</b>	When installing ResCom® (CMC) products, they must be installed in accordance with all relevant parts of the relevant Building Code to the satisfaction of the Appropriate Authority based on relevant Class of Building.	
<b>4</b>	For the purposes of this Supplier Statement, the term Appropriate Authority has the meaning defined in the National Construction Code.	
<b>5</b>	For Exterior Cladding, Exterior Render Board, Eaves/ Soffits, Under Roof Lining, Interior Ceilings and Walls, Wet Area Board, Tile Backing Board, Flooring Overlay, Window and Door Reveals, Inter Tenancy Walls, Shaft Linings for Lifts, Protection Structural Columns and Beams, Impact Resistant Walls, Commercial Joinery, Decorative and Acoustic Paneling the Product Technical Statement only applies to the Product Technical Statement holders. ResCom®'s (CMC) Board products are appropriately identified by the consumers proof of purchase (receipt).	
<b>6</b>	Information contained herein or related hereto is intended only for evaluation by technically skilled persons, with any use thereof to be at their independent discretion and risk. Nothing in this document should be construed as a warranty or guarantee by PCME Certifications, and the only applicable warranties will be those provided by the Product Technical Statement Holder.	
<b>7</b>	This Product Technical Statement is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Product Technical Statement is outside of this document's scope and the installation of the certified product/ system will not be covered by this PCME Supplier Statement. This may result in product being classified as a non-conforming building product/ system.	

Issue Date: 30<sup>th</sup> March 2023

Expiry Date: 31<sup>st</sup> March 2026

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## Product Technical Data

<b>Building Classification/s;</b>	N/A
<b>Type and intended use of a product;</b>	As per Page 1 "ResCom®" Wall & Flooring Product Technical Statement
<b>Description of product;</b>	For Exterior Cladding, Exterior Render Board, Eaves/ Soffits, Under Roof Lining, Interior Ceilings and Walls, Wet Area Board, Tile Backing Board, Flooring Overlay, Window and Door Reveals, Inter Tenancy Walls, Shaft Linings for Lifts, Protection Structural Columns and Beams, Impact Resistant Walls, Commercial Joinery, Decorative and Acoustic Paneling
<b>Product specification;</b>	

### ResCom® Board (10mm, 12mm, 14mm, 16mm, 18mm, 20mm) Cellulose Magnesia Cement(CMC) Board;

1. ResCom® (CMC) Board Internal & External Wall & Floor Linings manufactured & distributed by MgO Corp Asia, ResCom Building Products Pty Ltd & ResCom Building Products LLC meets or exceeds the requirements of; ISO:8336 Standards for Fibre-Cement Flat Sheets.

## ResCom-WallBoard

INTERNAL & EXTERNAL WALL LININGS

PHYSICAL PROPERTY	CONDITION	CONDITION	STANDARD
Average Bending Strength F <sup>L</sup>	Wet	>14MPa	ASTM C1185-08 (2012)
Average Bending Strength Wall	Wet	>12MPa	EN 12467:2012 Sec 5.4.4 & 7.3.2
Density in kg/m <sup>3</sup>	1000		ASTM C1185-08 (2012)
Water tightness		Passes	ASTM C1185-08 (2012)
Water absorption	13.2%		ASTM C1185-08 (2012)
EQ Moisture content		<5%	ASTM C1185-08 (2012)
Moisture movement 30-90% relative humidity*		0.064	ASTM C1185-08 (2012)
Humidified deflection (mm) 32c,40%RH, 48hrs	2.18		ASTM C473-12
Dimensional conformance		Passes	ASTM C1185-08 (2012)
Water Impermeability Category A		Pass	EN 12467:2012
Vapour Permeability Category D		u=80	EN 12467:2012 Sec 5.4.6 & 7.3.4
Freeze-Thaw Category A		Pass	EN 12467:2012 Sec 5.5.2 & 7.4.1
Heat Rain Category A		Pass	EN 12467:2012 Sec 5.5.3 & 7.4.2
Soak-Dry Category A		Pass	EN 12467:2012 Sec 5.5.5 & 7.3.6
Swelling & Thickness	Wet	<0.2%	EN 317:1993
TVOC, Formaldehyde	0	Pass	ISO 16000-3, 6,9 & 11: 2006 & 2011
Calorific Value		0.1092 to 0.2554	UNE-EN ISO1716 & 1182:2011
Thermal Resistance m <sup>2</sup> .K/W		0.027 & 0.045	ASTM C518-10
Thermal Conductivity W/mk		0.44	ASTM C518-10
Fire classification building		Class A1 <sub>FL</sub>	EN 13501-1:2007+A1:2009
Flame Spread & Combustibility	0 / 0 / 0	Class A1 / Class 1	ASTM E84
Flame Spread & Combustibility	0 / 0 / 0	Class A1 / Class 1	AS1530.1
FRL Performance	>120min		ASTM E119
FRL Performance	Exterior Facade	Pass	AS 5113
FRL Performance	Exterior & Interior Wall	Pass	AS 1530.4
FRL Performance	Exterior & Interior Wall	Pass	BS 476 p22
FR Performance	Exterior & Interior Wall		BS 476 p4, 5, 6, 7 & 11
Freeze thaw		Passed	ASTM C1185-08 (2012)
Nail-Head pull through (N)	789		ASTM D1037-12 (Section 15)
Lateral nail resistance (N)	2278		ASTM D1037-12 (Section 13)
Falling ball impact	Unbroken @ 3mtr heights	Passed	ASTM D1037-12 (section 21)
Diaphragm capacity		Passed	ASTM E455-11 & AS/NZS2908.2:2000

### ResCom® (CMC) Board Internal and External Wall Linings Products Composition and Ingredients;

#### Composition

Magnesia Cement(MgO)  
 Magnesium Chloride Solution (MgCl<sub>2</sub>) (included NaCl<sub>2</sub> ≤ 1.5%, KCl ≤ 0.7%)  
 Alpha Cellulose Material  
 Perlite  
 Glass Fibre Mesh and Non Woven Fabric

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## Ingredients

MgO (Magnesium Oxide)  
Mgc12 (Magnesium Chloride)  
Perlite (SiO<sub>2</sub>)  
Alpha Cellulose Material  
Filler (Comprising of glass fibre mesh and non woven fabric)

## ResCom® (CMC) Wall & Floor Internal and External Products Physical and chemical properties

It is commonly colour coded for ease of recognition as the brand and material onsite by the end consumer as being ResCom (CMC) material. Lining Boards typically come in colours Green, Gray, in appearance depending on type of application, each with varying tensile strengths according to type of product application;

- Odour: Very mild
- Physical State: Not relevant
- Vapour pressure: Not relevant
- Specific Gravity: Not relevant
- Flammability Limits: Not relevant
- Boiling Point: Not relevant
- Melting Points: Not relevant
- Flash Point: Not relevant
- Auto-ignition Temperature: Not relevant
- Volatility: Not relevant
- Solubility in Water: Not relevant
- Evaporation rate: Not applicable
- NFPA Ratings (Scale 0-4)
- Health = 1
- Flammability = 0
- Reactivity = 0
- Personal Protection = E

Toxicological and epidemiological data shows any health hazards associated with these products have been evaluated on the basis of the individual ingredients and these hazards should be assumed to be additive. These hazards have been evaluated based on a threshold

## Installation requirements;

Installations of these products are outside the scope of this Product Technical Statement and must installed in accordance to ResCom®'s (CMC) "How to Install Guides". It is recommended that this product be installed by a competent DIY person or a suitably qualified tradesperson.

1. ResCom® Installation Manual  
<https://ResCom@bp.com/technical-manuals/>
2. ResCom® Multipurpose Air Barrier  
<https://ResCom@bp.com/wp-content/uploads/2020/02/Rainscreen.pdf>
3. ResCom® Shaft Liner Systems Engineering Report  
<https://ResCom@bp.com/technical-manuals/>
4. ResCom® Fire and Acoustic Systems Manual  
<https://ResCom@bp.com/technical-manuals/>
5. InsulCore Mineral Wool Insulation Manual  
<https://tinyurl.com/2p85ynwn>
6. Product Storage and Handling  
<https://tinyurl.com/mufd8xsu>
7. Limited Liability Warranty  
<https://tinyurl.com/4n9kh9s3>
8. ResCom® MSDS  
<https://tinyurl.com/f55yuxkb>

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## Evaluation Statements

<b>Evaluation methods;</b>	<p>PCME Certifications has followed the following procedures for compiling of RGBP WHANUA TRUST, ResCom Building Products Pty Ltd &amp; ResCom Building Products LLC ResCom® (CMC) Wall, Ceiling &amp; Flooring Board Product Technical Statement;</p> <ul style="list-style-type: none"><li>- Assessment of ResCom® Building Products Technical Documentation; And</li><li>- Reviewing testing reports of samples supplied to ascertain whether the product meets the performance requirements specified on this Technical Statement; And</li><li>- Conducting Desktop audits of the processes used to verify compliance of the ResCom® Wall Board Products manufacturing processes</li></ul>
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**Note;** *The Product Technical Statement Holder has chosen not to make the above evidence of compliance publicly available, due to the documents being considered commercial confidence. For validation of the mentioned test reports Building Authority must contact the Product Technical Statement Holder directly. Email: rescombp@rescombp.com*

## Reports;

- A) Intertek JasAnz Accredited: Report Number 161230003SHF-BP-1  
Evaluation Centre; Intertek Testing Services Ltd, Shanghai.  
Plant 7. No. 6958 Daye Rd Fengxian District Shanghai China;  
Product evaluated: ResCom® Cold Form Ceramic Magnesia Cement Board  
Model: ResCom® HMR Board
- (14mm thickness) Bending Strength (MOR)  
EN 12467:2012+A1:2016 (E);  
(E) Sections 5.4.4 and 7.3.2
- Date: 2017-04-10  
Result: PASS
- B) Intertek JasAnz Accredited: Report Number 161230004SHF-BP-1  
Evaluation Centre; Intertek Testing Services Ltd, Shanghai.  
Plant 7. No. 6958 Daye Rd Fengxian District Shanghai China;  
Product evaluated: ResCom® Cold Form Ceramic Magnesia Cement Board
- (20mm thickness) Swelling in thickness  
EN 317:1993  
Date: 2017-02-08  
Result: PASS
- C) Intertek JasAnz Accredited: Report Number 161230005SHF-BP-1  
Evaluation Centre; Intertek Testing Services Ltd, Shanghai.  
Plant 7. No. 6958 Daye Rd Fengxian District Shanghai China;  
Product evaluated: ResCom® Cold Form Ceramic Magnesia Cement Board  
Model: ResCom® HMR Board
- (10mm, 12mm, 14mm) Bending Strength (MOR)  
EN12467:2012+A1:2016(E);  
(E) Sections 5.4.4 and 7.3.2
- Date: 2017-04-17  
Result: PASS
- D) Intertek JasAnz Accredited: Report Number 161230005SHF-BP-1  
Evaluation Centre; Intertek Testing Services Ltd, Shanghai.  
Plant 7. No. 6958 Daye Rd Fengxian District Shanghai China;  
Product evaluated: ResCom® Cold Form Ceramic Board  
Model: ResCom® HMR Board
- (10mm) Freeze Thaw for Categories A  
EN 12467:2012+A1:2016  
(E) Sections 5.5.2 and 7.4.1
- Date: 2017-04-17  
Result: PASS

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E) Intertek JasAnz Accredited: Report Number 161230005SHF-BP-1  
Evaluation Centre; Intertek Testing Services Ltd, Shanghai.  
Plant 7. No. 6958 Daye Rd Fengxian District Shanghai China;  
Product evaluated: ResCom® Cold Form Ceramic Magnesia Cement Board  
Model: ResCom® HMR Board  
- (10mm) Heat Rain for Categories A  
EN 12467:2012+A1:2016  
(E) Sections 5.5.3 and 7.4.2  
Date: 20.17-04-17  
Result: PASS

F) Intertek JasAnz Accredited: Report Number 161230005SHF-BP-1  
Evaluation Centre; Intertek Testing Services Ltd, Shanghai.  
Plant 7. No. 6958 Daye Rd Fengxian District Shanghai China;  
Product evaluated: ResCom® Cold Form Ceramic Magnesia Cement Board  
Model: ResCom® HMR Board  
- (12mm) Bending Strength (MOR)  
EN 12467:2012+A1:2016 (E)  
(E) Sections 5.4.4 and 7.3.2  
Date: 2017-04-17  
Result: PASS

G) Intertek JasAnz Accredited: Report Number 161230005SHF-BP-1  
Evaluation Centre; Intertek Testing Services Ltd, Shanghai.  
Plant 7. No. 6958 Daye Rd Fengxian District Shanghai China;  
Product evaluated: ResCom® Cold Form Ceramic Magnesia Cement Board  
Model: ResCom® HMR Board  
- (12mm) Heat Freeze Thaw for Categories A  
EN 12467:2012+A1:2016  
(E) Sections 5.5.2 and 7.4.1  
Date: 20.17-04-17  
Result: PASS

H) Intertek JasAnz Accredited: Report Number 161230005SHF-BP-1  
Evaluation Centre; Intertek Testing Services Ltd, Shanghai.  
Plant 7. No. 6958 Daye Rd Fengxian District Shanghai China;  
Product evaluated: ResCom® Cold Form Ceramic Magnesia Cement Board  
Model: ResCom® HMR Board  
- (14mm) Bending Strength (MOR)  
EN 12467:2012+A1:2016 (E)  
(E) Sections 5.4.4 and 7.3.2  
Date: 2017-04-17  
Result: PASS

I) Intertek JasAnz Accredited: Report Number 161230005SHF-BP-1  
Evaluation Centre; Intertek Testing Services Ltd, Shanghai.  
Plant 7. No. 6958 Daye Rd Fengxian District Shanghai China;  
Product evaluated: ResCom® Cold Form Ceramic Magnesia Cement Board  
Model: ResCom® HMR Board  
- (14mm) Heat Freeze Thaw for Categories A  
EN 12467:2012+A1:2016  
(E) Sections 5.5.2 and 7.4.1  
Date: 20.17-04-17  
Result: PASS

J) Intertek JasAnz Accredited: Report Number 161230005SHF-BP-1  
Evaluation Centre; Intertek Testing Services Ltd, Shanghai.  
Plant 7. No. 6958 Daye Rd Fengxian District Shanghai China;  
Product evaluated: ResCom® Cold Form Ceramic Magnesia Cement Board  
Model: ResCom® HMR Board  
- (14mm) Water Impermeability for Categories A  
EN 12467:2012+A1:2016 (E)

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(E)Sections 5.4.5 and 7.3.3

Date: 2017-04-17

Result: PASS

K) Intertek JasAnz Accredited: Report Number 170519002SHF-BP-1  
Evaluation Centre; Intertek Testing Services Ltd, Shanghai.  
Plant 7. No. 6958 Daye Rd Fengxian District Shanghai China;  
Product evaluated: ResCom® Cold Form Ceramic Magnesia Cement Board  
Model: ResCom® HMR Board  
- (10mm) Water Impermeability for Categories A  
EN 12467:2012+A1:2016  
(E) Sections 7.3.3  
Date: 2017-06-02  
Result: PASS

L) Intertek JasAnz Accredited: Report Number 170519002SHF-BP-2  
Evaluation Centre; Intertek Testing Services Ltd, Shanghai.  
Plant 7. No. 6958 Daye Rd Fengxian District Shanghai China;  
Product evaluated: ResCom® Cold Form Ceramic Magnesia Cement Board  
Model: ResCom® HMR Board  
- (12mm) Water Impermeability for Categories A  
EN 12467:2012+A1:2016 (E)  
(E)Sections 5.4.5 and 7.3.3  
Date: 2017-04-17  
Result: PASS

*Stefan Ossenberg*

Representative Name

Signature

**Certification Company Name: PCME Certifications**

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