

Assessment Brief
For
Magnesium Oxide Board Corporation Pty Ltd
ResCom[®]
CMA-CM40009



Scope & Summary of Assessment Brief

Magnesium Oxide Board Corporation MgO Corp "ResCom^(R)" is an magnesium oxide cold ceramic sheeting.

MgO Corp "ResCom^(R)" are construction, insulation and decoration panels that can be used in interior and exterior surfaces of all buildings. MgO Corp "ResCom^(R)" Board panels can be shaped in any size or with joints.

MgO Corp "ResCom^(R)" can be used to obtain construction elements for differing purposes by combining with various insulation materials to deliver protection from: fire, mould, water, sound, impact and vermin.

Panels can be used with insulating materials such as ESP, XPS, Rock Wool, Fibreglass and polyurethane foam that provide high heat, sound and fire insulation for partition walls and sandwich panels.

The company named above has been awarded a CodeMark[™] Certificate and this Assessment Brief for the product described herein. The product has been assessed by CMI as being fit for its intended use provided it is installed, used and maintained as set out in related documents, including this Assessment Brief.



John Thorpe
CertMark International Pty Ltd

24/09/2014
Date of Issue
Assessment Brief

13/08/2012
Date of Issue
Original Certificate

Introduction

Assessment Brief Includes:

- Factors relating to compliance with building regulations, where applicable.
- Factors relating to additional non-regulatory information, where applicable.
- Independently verified technical specifications.
- Assessment criteria and technical investigations.
- Design considerations.
- Installation guidance .
- Regular surveillance of production.
- Formal three yearly review.

Key Factors Assessed:

- Fire resistance .
- Sound insulation.
- Thermal insulation.
- Weather proofing.
- Structural considerations.

Building Code of Australia (BCA)

In the opinion of CertMark International Pty Ltd (CMI), MgO Corp Board panels described here-in installed in accordance with:

- MgO Corp Board™ Installation Manual (GIM-Edition 3-2014).
- MgO Corp Board™ Fire and Acoustic Walls, Ceilings and Floors Installation Manual (FIM-Edition 4-2014).

Notes:

- i) The inclusion of the reference to the BCA is aimed at assisting those involved in the design; specifying and building approval/permit process readers of this Assessment Brief must relate this document to the relevant Performance Requirements of the BCA.
- ii) Any changes made to the BCA will be reviewed during the term of validity of this Assessment Brief and, where necessary, any amendment required will be published.

Regulations

The MgO Corp "ResCom"^(R) will satisfy the performance requirements of the BCA as detailed on CodeMark™ Certificate CMI-CM40009.

Complies with the Building Code of Australia:

1. BCA Volume One 2014: Section C Fire Resistance (inclusive of all parts C1.1 to C1.7), including state variations for SA.
2. BCA Volume One 2014: Section C Part C3 Protection of Opening (inclusive of all parts C3.0 to C3.17).
3. BCA Volume Two 2014: Part 3.5.3.3, Fibre Cement Planks and Weatherboard Cladding.
4. BCA Volume Two 2014: Part 3.5.3.4, Fibre Cements Sheet Wall Cladding.
5. BCA Volume Two 2014: Part 3.5.3.5, Eaves and Soffit Linings.
6. BCA Volume Two 2014: Part 3.7.1, Fire separation for FRL, including state variations for SA. (Refer to limitation f).
7. BCA Volume Two 2014: Part 3.7.4, Bushfire Zones BAL-40, including state variations for TAS, NSW and SA.
8. BCA Volume Two 2014: Part 3.8.6, Sound Insulation, including state and territory for NT. (Refer to limitation g).

Subject to the following Conditions & Limitations:

- a. Must be installed in accordance with the approved MgO Corp Board™ General Installation Manual (GIM-Edition 3-2013) or MgO Corp Board™ Fire and Acoustic Walls, Ceilings and Floors Installation Manual (FIM-Edition 4-2013).
- b. Must be installed by a qualified and licensed tradesperson or builder.
- c. Must only be used in situations applicable for the products use as detailed in the relevant sections of the MgO Corp Board™ Installation Manual (GIM-Edition 3-2013) or the MgO Corp Board™ Fire and Acoustic Walls, Ceilings and Floors Installation Manual (FIM-Edition 4-2013).
- d. FRL's vary dependant on application of MgO Corp "ResCom[®]" consult MgO Corp Board™ Fire and Acoustic Walls, Ceilings and Floors Installation Manual (FIM-Edition 4-2013) for specific ratings.
- e. When used in fire separation wall must be installed in accordance with the MgO Corp Board™ Fire and Acoustic Walls, Ceilings and Floors Installation Manual (FIM-Edition 4-2013).
- f. Timber frame 60/60/60, metal frame 90/90/90, non-load bearing FRL - /120/120
- g. Specific sound resistance varies with board thickness, consult manufacturers specifications for applicable $R_w + C_{tr}$.
- h. Full technical information is available at www.mgoboard.com.au or upon request.

Please note was formerly issued under CM-11-A0007.

It is advised to check that this Assessment Brief is currently valid and not withdrawn, suspended or superseded by a later issue by referring to the CMI Register website and searching the Certification License Number. Register.CertMark.org

Technical Specification

Description

The MgO Corp "ResCom"^(R) is a lightweight and integrated insulating, cladding and finishing systems for residential and commercial constructions.

MgO Corp "ResCom"^(R) sheeting is suitable for a wide range of general building uses, and for applications that require fire resistance, mould and mildew control, as well as sound control applications.

MgO Corp "ResCom"^(R) is an environmentally friendly building material with strength and resistance due to strong bonds between magnesium and oxygen atoms that form the magnesium oxide molecules.

MgO Corp "ResCom"^(R) can be used in place of traditional gypsum and plaster board drywall and ceiling covering material and sheathing. It may also be used as flooring and a number of other construction applications such as:

- fascia's,
- soffit,
- shaft-liner
- substrates for coatings and insulated systems such as Finish Systems, EIFS, and some types of stucco.

Benefits

- MgO Corp ResCom"^(R) products can be used as interior and exterior facing in all kinds of constructions.
- Can be used in the place of traditional drywall or cement boards. No special tools required.
- Used as roof sheathing panels (9, 12, 14, 16mm).
- It is resistant to impact.
- It is lightweight, can be carried easily.
- Made completely of natural materials and is environment and nature friendly.
- It does not include any materials such as asbestos, toxic materials and heavy metals that are hazardous to human health.
- It is not affected by ultraviolet rays.
- It does not need special treatment.
- It is not affected by insect pests.
- Due to its structure it can be painted with any paint or coated with various materials.
- It can be easily processed and assembles with convenient hand tools.
- It provides material and labour savings in painting, side coating, insulation and thin putty up to 50 to 60%.
- It is highly resistant against chemicals.
- It is a breathing material.
- It is accommodated to various insulation materials.
- It can be used as sandwich panels for various purposes.
- Ratings and testing:
 - Fire-resistant (UL 055 and ASTM-Tested and A-Rated)
 - Waterproof (Freeze/Thaw-Tested for 36 months)
 - Mold/fungus/bug free (non-nutritious to mold, fungus, insects ASTM G-21)
 - Impact-resistant (ASTM D-5628)
 - NYC Approved (MEA # 359-02-M)
 - Silica/asbestos free
 - STC-Rated 53-54
- Hard non-absorbent surface – no paper.
- Can be used in applications like cement-based siding.
- Available in colours. Gray, Brown, Light Blue, Pink and Creamy White

Assessment and Technical Investigations

Environmental Audit

The results of the Environmental audit conducted by CMI of MgO Corp "ResCom"^(R) is as follows:

CO₂ Friendliness:

MgO Corp "ResCom"^(R) are deemed to be CO₂ (greenhouse gas) friendly, in that a certain degree of emissions are properly captured in the MgO fibre cement board during the manufacturing process and not released into the atmosphere.

Energy Conservation:

20-40% less energy is required to manufacture MgO Corp "ResCom"^(R) Board panels vs. Portland cement-based boards.

Low temperature manufacture:

Magnesium Oxide is removed from ore at about 25% of the temperature (400-800°F) required to form CaO, the starting material for the preparation of slaked lime or portlandite used in common mortar and plaster.

Durability:

MgO Corp “ResCom^(R)” are durable and long lasting requiring fewer resources for replacement, reducing maintenance and repair costs.

Resource Sustainability:

MgO Corp “ResCom^(R)” require a lower heating temperature during manufacturing (generally 20-40% less than the energy required to produce conventional Portland cement-based products) thereby using less fossil fuel and conserving precious natural resources.

Life Safety:

MgO Corp “ResCom^(R)” products are non-toxic making them safer when cutting and handling.

Design Considerations**Paint and renders:**

- MgO Corp “ResCom^(R)” panels are compatible with commercially available paint or render systems.
- MgO Corp advise it is best to seek professional opinion by your preferred coatings specialist to the best products suitable for your application.

Timber Framing:

- Timber framing used in conjunction with MgO Corp “ResCom^(R)” must comply with AS1684.2 “Residential Timber Framed Construction”. The timber used for house construction must have the level of durability appropriate for the relevant climate and expected service life and condition.
- Timber frame thickness (stud width) at sheet joints must have a minimum of 42mm.
- Timber with less than 42mm wide must not be used at any sheet joint because of insufficient sheet landing width, and should provide double studs at sheet joints.
- In the case of a supporting frame in the middle of the sheet, the fasteners should be fixed in the body of the sheet, and the distance between the centres of the fasteners must not exceed 300mm.
- Control joints should be installed where there is a significant structural moment expected.
- If a continuous run of sheeting exceeds at 5.4m and at flooring level, it must be broken with control joint.

Vertical control joints:

- Any vertical control joint must be installed in any wall run that exceeds 5.4m.
- The control joint will require a 6mm gap between sheets and the joint must be supported by double studs.
- Back blocking to vertical joints mid span using a min 150mm rip of matching panel which is then glued using an appropriate structural polyurethane adhesive and screwed using non corrosive fixings.

Horizontal control joints:

- Any horizontal joints must be located in walls at 3.6m maximum centres.
- They are also required at floor joint level and at garble ends.
- Back blocking to horizontal joints mid span using a min 150mm rip of matching panel which is then glued using an appropriate structural polyurethane adhesive and screwed using using non corrosive fixings.

Metal Framing:

- MgO Corp “ResCom^(R)” can be fixed directly to lightweight metal frame which complies with AS3623; however the metal frame should not exceed 1.6mm in thickness.
- The metal frame must have a minimum flange width of 36mm per sheet joints, as this is deemed to provide adequate support for fixing two sheet edges.
- Where narrow sections are used, double studs at the sheet joints must be incorporated.
- When fixing MgO Corp “ResCom^(R)” to a rigid framing, it is required that the frame be batten out using either timber battens or light steel top hats sections prior to fixing.
- Any battens supporting the sheet joints must have a minimum face width of 45mm.
- Hot rolled steel structural sections must be battened out with timber or steel top hat battens before sheets are fastened.
- The sheet must not fix directly to hot-rolled steel frames.

Durability:

MgO Corp “ResCom^(R)” has been proven to conform to the durability requirements of the BCA.

Acoustic performance:

Acoustic performance was conducted on the measurement of airborne Sound Reduction Indices (R_w) of sample wall system in accordance with AS1191-2002 Acoustics – Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Elements. Assessment Brief of Weighted Sound Reduction Indices (R_w) and Spectrum Adaption Terms (C_{tr}) in accordance with AS/NZS ISO 717.1:2004 Acoustics – Rating of sound insulation in buildings and of building elements – Airborne sound insulation.

The MgO Corp “ResCom^(R)” improves acoustic performance. Its construction actively dampens noise and reduces the sound waves entering, or exiting the home.

MgO Corp “ResCom^(R)” have been installed in various wall system configurations and assessed to deliver acoustic values between $R_w47+ C_{tr}$ to $R_w64+ C_{tr}$. Systems configuration are available by contacting MgO Corp technical support.

Fire:

MgO Corp “ResCom^(R)” have been extensively tested under against Australian and International Standards including:

- AS1530 Part 8.1 &2
- ASTM E84

The panels have consistently achieved a non combustibile fire rating either side of the panel.

Fire separating walls:

Fire separating walls are designed for masonry or frame construction to specific requirements that must be strictly adhered to and applied continuously. This means that services can penetrate a separation wall if they are installed in accordance with a tested system that is a minimum of -/60/60

MgO Corp Board panels also meet the requirements of AS1530.4-2005 - Methods for fire tests on building materials, components and structures - Fire-resistance test of elements of construction.

When used in conjunction with Conforming substrates and materials the following values can be expected:

Non-Combustible Materials	
Description	FRL
10 mm > ResCom ^(R) Sheathing Load bearing Timber Frame	60/60/60
10mm > ResCom ^(R) Sheathing Load bearing Metal Frame	90/90/90
utilising 10mm ResCom ^(R) Sheathing,	120/120/120
12mm ResCom ^(R) Sheathing	
Fire Separation Index (Single Sheet)	
5mm ResCom ^(R)	-/20/20
10mm ResCom ^(R)	-/60/60
	-/90/90
utilising 12mm ResCom ^(R)	-/120/120
utilising 14mm ResCom ^(R)	- /180/180
utilising 15mm ResCom ^(R)	- /240/240
utilising 18mm ResCom ^(R) Flooring	120/120/120

Installation

MgO Corp “ResCom[®]” panels

- Must be installed in accordance with the approved MgO Corp Board™ General Installation Manual (GIM-Edition 3-2014) or MgO Corp Board™ Fire and Acoustic Installation Manual (FIM-Edition 4-2014).
- Must be installed by a suitably licensed tradesperson or builder.
- Must only be used in situations applicable for the products use as detailed in the relevant sections of the MgO Corp Board™ Installation Manual (GIM-Edition 3-2014) or the MgO Corp Board™ Fire and Acoustic Walls, Ceilings and Floors Installation Manual (FIM-Edition 4-2014).
- When used in fire separation wall must be installed in accordance with MgO Corp Board™ Fire and Acoustic Walls, Ceilings and Floors Installation Manual (FIM-Edition 4-2014), under BCA Volume One 2014: Part 2A: Sections 2.1 to 2.5 inclusive. Additional FRL's solutions, may be extrapolated or interpolated using the verification calculation method that complies with the relevant Australian Building Codes Board ABCB protocol. Any such extrapolations must be conducted by a suitably qualified fire engineer.

The following is a brief overview of the approved installation methods to be employed as audited under this certification:

Screwing:

- MgO Corp "ResCom^(R)" must be fixed using only Class 3 to 5 Galvanised (Non Corrosive) self drilling countersink screws or Heavy Duty Galvanised (Non Corrosive) Gripper Nails or Staples in conjunction with full bead of structural polyurethane adhesive to the face of the substrate when nailing or stapling.
- Fixings should be driven at 1.5 to 2cm from the edge of the panels.
- Screw lengths must be between 2.5cm to 3.5cm.
- Screws must be driven at 1.5 to 2cm from the edge of the panels.

Partition Wall Construction:

- In general terms construction is prepared using C, U, galvanised or box profiles.
- MgO Corp "ResCom^(R)" are fixed on both surfaces using countersunk head screws, using rock wool or fibre glass depending on the FRL and Rw qualities of the wall systems using as standard 8, 10, 12, 14 and 16mm panels.

Roof Application:

- As per the installation manual 12mm, 14mm, and 16mm MgO Corp "ResCom^(R)" panels are used instead of wood based plates.

Suspended Ceiling Construction:

- MgO Corp "ResCom^(R)" are fixed to construction prepared by using C, U or M galvanised profile or iron profile by using either pointed or self screwing screws. In ceilings 6mm, 8mm and 10mm MgO Corp[®] Board panels are used.

Raised Floor Construction:

- MgO Corp "ResCom^(R)" used in raised floor construction are done panels with a minimum of 14mm to 50mm thickness in Structural Load Bearing panels.
- Raised floor construction is only to be used with either iron profiles or ready-made fixed legged and belted raised floor systems.
- Recommended adhesives for flooring use include ceramic adhesive mortar, flexmortel, polyurethane foam and acrylic mastic.
- MgO Corp "ResCom^(R)" can be fixed to either a timber frame or a lightweight metal frame. Such framing must be constructed in accordance with AS3623 in the case of a metal frame or AS1684 in the case of a timber frame.
- The frame must comply with the local building regulations and the requirements of the brochure MgO Corp "ResCom^(R)" must be supported and fixed to the frame and must not be joined without fixing the frame.
- Maximum frame centres for fixing sheets to the frame is 600mm centre to centre.
- It is a requirement of construction that in order to provide sufficient support for screws or nails, a minimum stud width of 42mm (for timber) or 36mm (for a metal frame) is required.
- Where this is not possible, an additional stud will be required to ensure fasteners can be fixed at a minimum distance of 12mm from the sheet edge.

Sheet Layout:

- The MgO Corp "ResCom^(R)" can be fixed to framing vertically or horizontally.
- Planning the sheet layout before fixing is important in order to minimize the number of sheet joints.
- It is recommended that where ever possible the installer should avoid horizontal sheet configuration.
- Horizontal sheet layout is only recommended where the maximum depth of cladding is 1200mm or 900mm (one sheet width).
- Horizontal sheet installation is more suitable for applications such as fascias, spandrels, parapets etc.

Sheet installation:

- When installing MgO Corp "ResCom^(R)", the fasteners must be fixed at minimum of 12mm from the sheet edges and 50mm from the sheet corners.
- Fasteners must be fixed along the edge of the sheet and the distance between the centres of the fasteners must not exceed 200mm.

Framing & Fixing:

- All studs and noggins must be checked with a log straight edge for line and face accuracy, to ensure the stud wall has a true and accurate outside face as any warping will be visible after paint or texture.
- The recommended tolerance should be less than 2mm per 500mm.

Manufacturer's and Installation Information:

- MgO Corp Board™ Installation Manual (GIM-Edition 3-2014) or the MgO Corp Board Fire and Acoustic Walls, Ceilings and Floors Installation Manual (FIM-Edition 4-2014).
- Technical construction drawings supplied by MgO Corp Board and available on the MgO Corp website.
- Technical data sheets and in house laboratory results supplied by the manufactures NATA accredited testing facility and others.

Inspections:

CMI representatives have inspected installations of the systems and found the level of performance satisfactory.

Technical Investigations**Validity Of The Opinion****Condition:**

This Assessment Brief applies only to MgO Corp "ResCom^(R)" Products.

Withdrawal:

This Assessment Brief will be withdrawn or amended if CMI considers that a change in any documentation, design or manufacturing quality renders the basis of the Certification or Assessment Brief invalid, or if reported field experience convinces CMI of unsatisfactory quality or performance.

Term of Validity:

This Assessment Brief will lapse three years after the date of issue unless revalidation has been requested and granted.

Relevant Documents

- Australian Buildings Code Board, Building Code of Australia.
- Relevant Australian Standards.
- Relevant International Standards.

Bases of Assessment Brief

CMI has assessed the following aspects in undertaking of the CodeMark™ Certification in generating this Assessment Brief:

- Installation procedures.
- Physical properties.
- Relation to relevant BCA clauses.
- The ability of the installation details to meet the requirements of the BCA and relevant Australian and International Standards.

Bibliography

The following documents and inspections were used in carrying out the CodeMark™ Certification and Assessment Brief.

Test Reports:

- CSIRO Fire test report.
- New York Product Testing Services Inc for Fire Tests of Building Construction and Materials , beams, building construction, building materials, ceiling assemblies.
- Southwest Research Institute Test fire-test-response test method which covers the determination under specified laboratory conditions of combustion characteristics of building materials.
- BRE testing report to BS 5234-2;1992 for Partitions, Construction systems parts, Wall linings, Walls, Non-load bearing walls.
- CSIRO Report to AS1530.4
- CSIRO Report Magnesium Oxide Board Lined framed wall system.
- Palmer Acoustics AS/NZS 1276.1.
- New York Product Testing Services Inc Report Standard Test Methods for Fire Tests of Building Construction. and Materials, beams, building construction, building materials, ceiling assemblies.
- New York Product Testing Services Inc Report Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi, fungal biosusceptability, fungal decay.
- Report from DR Thomas Haupmann/ Anbus Analytical of Essen in Germany, Organ-chemical material Analysis.
- New York Product Testing Services Inc Report, Smoke density, Toxicity, Modus of elasticity, Shear Strength, Shear Modulus, tensile strength.
- New York Product Testing Services Inc Report, measurements of surface flame spread and smoke density measurements.
- Red Test Report, . Determination of the fire resistance of uninsulated door-sets and shutter assemblies.
- PSB Test report, spread of flame.

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- PSB Test report fire propagation.
- RED report“ Fire Test on Building materials & Structures – Non combustibility Test for materials.
- Kilargo Test Report ISO10140 Airborne Sound.
- SGS Test Report ASTM C1186-08.
- SGS Test Report ASTM E84-12a.
- Fenestration Test Reports ASTM E72, ASTM E330-02, TAS 201-94, TAS 202-94 & TAS 203-94.
- FAB Test Reports ASTM E455-11.
- FAB Test Reports AS/NZS 2908.2-2000.
- FAB Test Report ASTM E386.
- ALS Group VOC Test Report.
- NRC Test Report GB/T 10295-2008.
- USQ Test Report ASTM E72.
- BRANZ Test Report ASTM C518-10.
- University Auckland Test reports AS/NZS4063.1:2010.
- APL Test Reports AS/NZS 4284:2008 and NZS 4211:2008 / E2 VM1.

Other Documents:

- MgO Corp Board™ Installation Manual (GIM-Edition 3-2014).
- MgO Corp Board™ Fire and Acoustic Walls, Ceilings and Floors Installation Manual (FIM-Edition 4-2014).

Conditions & Limitations

This Assessment Brief:

- relates only to the product/system that is named and described on the front page.
- is granted only to the company, firm or person named on the front page — no other company, firm or person may hold or claim any entitlement to this Assessment Brief.
- is valid only within the Australia
- has to be read, considered and used as a whole document — it may be misleading and will be incomplete to be selective.
- is copyright of CMI.

References in this Assessment Brief to any Act of Parliament, Statutory Instrument, Directive or Regulation of the Australian Government, Australia, or International Standard, Code of Practice, manufacturers' instructions or similar publication, are references to such publication in the form in which it was current at the date of this Assessment Brief.

This Assessment Brief will remain valid for three years provided that the product/system and the manufacture and/or fabrication including all related and relevant processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by CMI.
- continue to be checked as and when deemed appropriate by CMI under arrangements that it will determine.
- are reviewed by CMI as and when it considers appropriate.

In granting this Assessment Brief, CMI is not responsible for:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system.
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system.
- individual installations of the product/system, including the nature, design, methods and workmanship of or related to the installation.
- the actual works in which the product/system is installed, used and maintained, including the nature, design, methods and workmanship of such works.

Any information relating to the manufacture, supply, installation, use and maintenance of this product/system which is contained or referred to in this Assessment Brief is the minimum required to be met when the product/system is manufactured, supplied, installed, used and maintained. It does not purport in any way to restate the requirements of relevant WHS 2012 requirements or Safe Work Australia, or of any other statutory, common law or other duty which may exist at the date of this Assessment Brief; nor is conformity with such information to be taken as satisfying the requirements of the WHS 2012 Act or of any statutory, common law or other duty of care. In granting this Assessment Brief, CMI does not accept responsibility to any person or body for any loss or damage, including personal injury, arising.

CodeMark™ Certification

The CodeMark™ Scheme supports the use of new and innovative building products by providing a nationally and internationally accepted process for products to be assessed for compliance with the requirements of the building codes of Australia and New Zealand. The scheme provides confidence and certainty to regulatory authorities and the market through the issue of a Certificate of Conformity.



The Australian Building Codes Board (ABCB) and New Zealand's Ministry of Business, Innovation and Employment (MBIE) manage the scheme in their respective countries. The Joint Accreditation System of Australia and New Zealand (JAS-ANZ) have accredited CertMark to evaluate and certify building products. Relevant legislation requires building control authorities to accept CodeMark™ certified products.

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