GYPROCK™

Everything else is just plasterboard

CSRG-2008
GECA 04-2007
PANEL BOARDS

Gyprock EC08™

with reCore™ technology

EC08™ Partition • EC08™ Fire • EC08™ Impact

Developing plasterboard technology
for green buildings.

CSR

CSR and Sustainability

CSR has long been committed to managing its impact on the environment and the communities in which it operates. This commitment includes the production of environmentally responsible building products, pursuing initiatives such as waste recycling, water conservation and reducing energy consumption and greenhouse gas emissions.

Gyprock™ plasterboard products are manufactured from gypsum, 100% recycled paper and a small amount of additives and Gyprock's reCore™ technology has been developed to allow higher levels of recycled content in its plasterboard production.

Good Environmental Choice Australia

The original Gyprock EC08™ with reCore™ technology was the first Australian made plasterboard to have been Certified by Good Environmental Choice Australia (GECA). Now, all three boards in the EC08™ range carry GECA certification.

This certification as a good 'environmental choice' means that the product complies to the environmental and social performance characteristics as detailed in the voluntary environmental labeling standard - Panel Boards.

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Green Building Council of Australia (GBCA)

The Green Building Council of Australia (GBCA) is Australia's leading authority on green building. The GBCA was established in 2002 to develop a sustainable property industry in Australia and drive the adoption of green building practices. The GBCA promotes green building programs, technologies, design practices and processes, and operates Australia's only national voluntary comprehensive environmental rating system for buildings - Green Star.

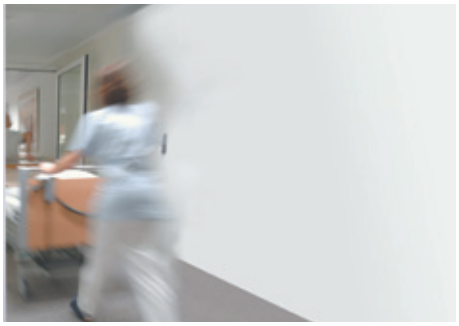
Green Star is a comprehensive environmental rating system that evaluates the environmental design and construction of buildings and, with 11 per cent of Australia's CBD commercial office buildings Green Star certified, building green is now a business imperative.

green building council australia
MEMBER

The EC08™ Range

The expansion of the EC08™ range of plasterboards is a response to the market, which is looking for a wider range of products for green building projects. The new products that have been added to the range provide more economical solutions as well as options for impact areas surpassing the performance of current plasterboard options. All products in the range are manufactured to AS2588 – Gypsum Plasterboard.

All products in the range have been certified by GECA as meeting the requirements of their environmental standard for Panel Boards. This process has also led to the development of Gyprock's ReCore™ technology pushing the level of recycled content to over 20% for EC08™ Impact.

EC08™ Partition	EC08™ Fire	EC08™ Impact
		
An economical, non-fire rated board for general requirements where fire and acoustics are not required.	The original, GECA certified EC08™ board with fire and acoustic rating for party walls and meeting rooms.	Fire and acoustic rated with impact resistance for high traffic areas such as in education and health facilities.

Gyprock EC08™ and Green Star

The following table provides an overview of where Gyprock EC08™ and associated Gyprock™ products may contribute to Green Star points in the Green Star rating tools.

	Management	Indoor Environmental Quality		Materials
	MAN	IEQ		MAT
Green Star Rating Tool	Waste Management	Internal Noise Levels	Volatile Organic Compound	Walls & Partitions
Office Interiors v1.1	MAN-6	IEQ-10	IEQ-11	MAT-3
Office Design v3	MAN-7	IEQ-12	IEQ-13	-
Office As Built v3	MAN-7	IEQ-12	IEQ-13	-
Retail Centre v1	MAN-7	IEQ-7	IEQ-8	-
Education v1	MAN-7	IEQ-7	IEQ-8	-
Healthcare v1	MAN-7	IEQ-7	IEQ-8	MAT-14
Multi-Unit Residential v1	MAN-7	IEQ-7	IEQ-8	MAT-14
Gyprock™ Data	Minimisation and recycling of off cuts	Wall, ceiling and service systems available to meet acoustic requirements	Low VOC Gyprock™ compounds and adhesives	Certified Eco Preferred recycled content

Gyprock EC08™ Partition

Applications: Office partitions and standard internal walls.

Gyprock EC08™ Partition has been developed for office fit outs or where standard plasterboard applications are specified and can be used in wall and ceiling systems. It is an economical option that can contribute to Green Star ratings.

Gyprock EC08™ Partition has been certified by GECA. This certification as a good 'environmental choice' means that the product complies to the environmental and social performance characteristics as detailed in the voluntary environmental labelling standard - Panel Boards.

Gyprock EC08™ Partition	
Sizes (13mm thick)	1200 wide x 2700, 3000 & 3600*
Mass	9.3kg/m^2
Recycled content	11%
Recyclable	Yes
VOC level (as per GBCA limits)	Low

* Custom sizes available subject to minimum quantities and lead times

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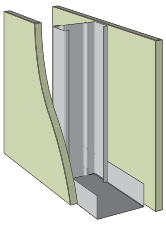
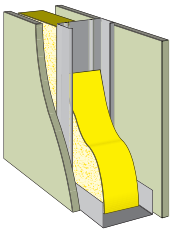
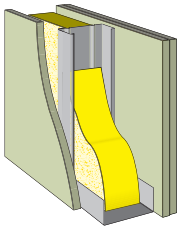
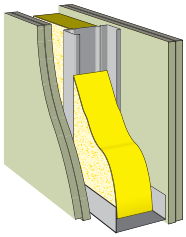
Standard partition - No insulation	Standard partition - With insulation	Meeting room	Studio wall
Rw 36 **FRL** N/A	**Rw** 44 **FRL** N/A	**Rw** 48 **FRL** N/A	**Rw** 51 **FRL** N/A
			
CSR EC 105 (a) Wall width 90 mm Height (max) 3720 mm **Components:** • 13mm Gyprock EC08™ Partition • 64mm Rondo® stud & track • 13mm Gyprock EC08™ Partition	**CSR EC 105 (c)** Wall width 90 mm Height (max) 3720 mm **Components:** • 13mm Gyprock EC08™ Partition • 64mm Rondo® stud & track • 75mm Bradford™ Partition Batts 11kg/m^3 • 13mm Gyprock EC08™ Partition	**CSR EC 110 (c)** Wall width 103 mm Height (max) 3720 mm **Components:** • 13mm Gyprock EC08™ Partition • 64mm Rondo® stud & track • 75mm Bradford™ Partition Batts 11kg/m^3 • 2 x 13mm Gyprock EC08™ Partition	**CSR EC 115 (c)** Wall width 116 mm Height (max) 3720 mm **Components:** • 2 x 13mm Gyprock EC08™ Partition • 64mm Rondo® stud & track • 75mm Bradford™ Partition Batts 11kg/m^3 • 2 x 13mm Gyprock EC08™ Partition

Gyprock EC08™ Fire

Applications: Party walls, meeting rooms and fire walls.

Gyprock EC08™ Fire is the original product in the EC08™ range and was the first plasterboard in Australia to achieve certification from GECA for their Panel Boards environmental standard.

Gyprock EC08™ is a fire grade plasterboard with increased acoustic performance and can be used in wall and ceiling systems. The fire performance is equal to the performance of the equivalent size of Gyprock Fyrchek™ and the acoustic performance is very similar to Gyprock Soundchek™.

Gyprock EC08™ Fire	
Sizes (13mm thick)	1200 wide x 2700, 3000 & 3600*
Mass	10.5 kg/m^2
Recycled content	11%
Recyclable	Yes
VOC level (as per GBCA limits)	Low

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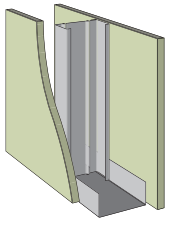
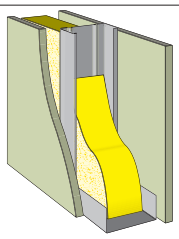
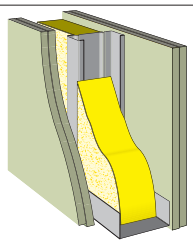
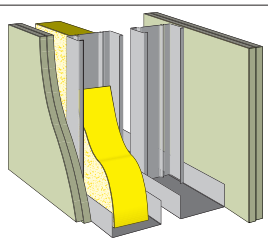
* Custom sizes available subject to minimum quantities and lead times

Fire rated partition - 60 mins	Fire & Acoustic rated partition - 60 mins with insulation	Fire & Acoustic rated wall - 120 mins	Party wall (inter-tenancy) - 120 mins separated stud
Rw 38 **FRL** -/60/60	**Rw** 46 **FRL** -/60/60	**Rw** 53 **FRL** -/120/120	**Rw/Rw+Ctr** 61/53 **FRL** -/120/120
			
CSR EC 205 (a) Wall width 90 mm Height (max) 3720 mm **Components:** • 13mm Gyprock EC08™ Fire • 64mm Rondo® stud & track • 13mm Gyprock EC08™ Fire	**CSR EC 205 (c)** Wall width 90 mm Height (max) 3720 mm **Components:** • 13mm Gyprock EC08™ Fire • 64mm Rondo® stud & track • 75mm Bradford™ Partition Batts 11kg/m^3 • 13mm Gyprock EC08™ Fire	**CSR EC 215 (c)** Wall width 116 mm Height (max) 3720 mm **Components:** • 2 x 13mm Gyprock EC08™ Fire • 64mm Rondo® stud & track • 75mm Bradford™ Partition Batts 11kg/m^3 • 2 x 13mm Gyprock EC08™ Fire	**CSR EC 225 (c)** Wall width 200 mm Height (max) 3250 mm **Components:** • 2 x 13mm Gyprock EC08™ Fire • 64mm Rondo® stud & track • 75mm Bradford™ Partition Batts 11kg/m^3 • 2 x 13mm Gyprock EC08™ Fire

Gyprock EC08™ Impact

Applications: Party walls and corridors.

Gyprock EC08™ Impact is a premium plasterboard that exhibits excellent Impact resistance, is fire rated and has excellent acoustic performance.

The board is specifically designed for both hard and soft body impact applications making it ideal for schools and hospitals where corridors and classrooms are exposed to bumps and abrasion.

Gyprock EC08™ Impact includes the latest development in reCore™ technology and contains greater than 20% recycled content and is certified by Good Environmental Choice Australia as meeting their Environmental Standard for Panel Boards.

Gyprock EC08™ Impact	
Sizes (13mm thick)	1200 wide x 2700, 3000 & 3600*
Mass	12.1 kg/m^2
Recycled content	21%
Recyclable	Yes
VOC level (as per GBCA limits)	Low

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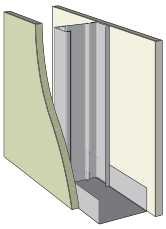
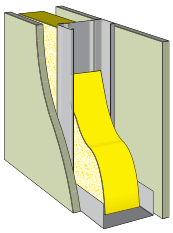
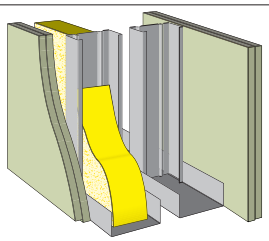
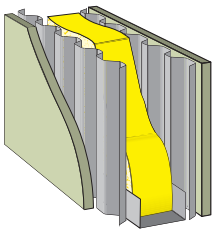
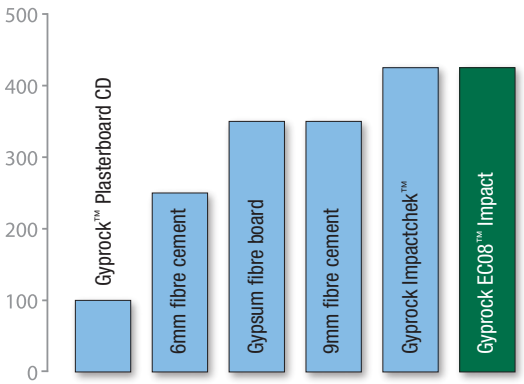
* Custom sizes available subject to minimum quantities and lead times

Corridor wall - Impact one side	Corridor wall - Impact both sides (fire rated)	Party wall (inter-tenancy) - Impact both sides (fire rated)	Security wall & Inter-tenancy - Impact both sides (fire rated)
Rw 37 **FRL** N/A	**Rw** 47 **FRL** -/60/60	**Rw/Rw+Ctr** 62/54 **FRL** -/120/120	**Rw/Rw+Ctr** 58/50 **FRL** -/60/60
			
CSR EC 305 (a) Wall width 90 mm Height (max) 3720 mm **Components:** • 13mm Gyprock EC08™ Impact • 64mm Rondo® stud & track • 13mm Gyprock Plasterboard CD™	**CSR EC 310 (c)** Wall width 90 mm Height (max) 3720 mm **Components:** • 13mm Gyprock EC08™ Impact • 64mm Rondo® stud & track • 75mm Bradford™ Partition Batts 11kg/m^3 • 13mm Gyprock EC08™ Impact	**CSR EC 325 (c)** Wall width 200 mm Height (max) 3250 mm **Components:** • 2 x 13mm Gyprock EC08™ Impact • 2 x 64mm Rondo® stud & track • 75mm Bradford™ Partition Batts 11kg/m^3 • 2 x 13mm Gyprock EC08™ Impact	**CSR EC 335 (c)** Wall width 177 mm Height (max) 5200 mm **Components:** • 13mm Gyprock EC08™ Impact • 2 x 50mm Gyprock Security Wall™ Panel & track • 75mm Bradford™ Partition Batts 11kg/m^3 • 13mm Gyprock EC08™ Impact

Gyprock EC08™ Impact - Performance

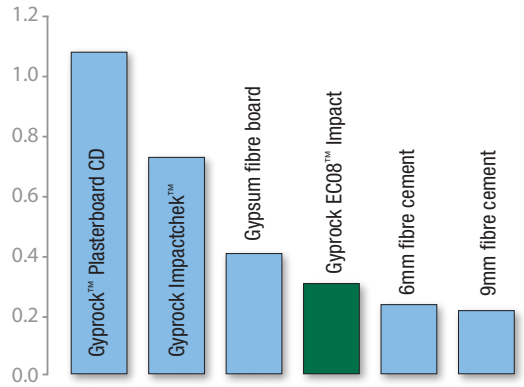
Soft Body - tested to failure

Soft Body Impact Resistance is evaluated using a sand filled bag and the procedures as described in ASTM695. In this test a 27.3kg sand bag strikes the sheet between the studs from increasing heights until unrecoverable damage occurs to the sheet.



Hard Body - 1 Drop

The hard body impact test comprised dropping a 50mm diameter steel ball weighing 510gm from a height of 600mm onto a sample of plasterboard 180mm x 290mm.



Compounds, adhesives and sealants

The GBCA's Green Star Rating Tools encourages product suppliers, designers and specifiers to use low VOC emitting materials and finishes to minimise the level of VOCs in buildings. The level of VOC for a product, specified in the VOC certificate can affect Green Star credits.

Volatile Organic Compounds (VOCs) can be generally defined as any organic compound that participates in atmospheric photochemical reactions.

Gyprock™ has engaged CETEC Pty Ltd to test our range of compounds and adhesives for levels of VOC. A complete range of products, certified with a Low VOC content, are available from Gyprock™ and the VOC certificates can be found at **gyprock.com.au under resources**.

Insulation

Insulation has a major part to play in the fight against climate change. A recent McKinsey report identifies insulation as the most cost effective way to address greenhouse gas abatement*.
Insulation also plays a major role in achieving higher ratings in Green Star buildings.

Bradford™ Glasswool and rockwool insulation products in the building envelope and HVAC systems can save hundreds of times the energy used to make them over the life of the building. Reducing energy consumption means less fossil fuel is burned to produce that energy, resulting in less pollution and lower greenhouse gas emissions.

Bradford™
for smarter environments

* A Cost Curve for Greenhouse Gas Reduction, Per-Anders Enkvist, Tomas Naucler and Jerker Rosander. 2007

Recycling

To meet the growing concern in reducing the amount of material going to landfill and the rising costs involved, Gyprock™ can help to manage plasterboard waste through recycling. Plasterboard off cuts can be converted back into new plasterboard or can be used in the production of agricultural products.

Better on-site resource management produces cleaner, safer, tidier sites and Government authorities are increasingly insisting on better waste management practices.

Recycling can help builders meet council building materials recycling regulations. Furthermore, the removal of offcut plasterboard will improve OH&S on site, and the ease of pick can save builders time and money.

CSR DESIGNLINK™

CSR designLINK™ has been established to help architects, engineers and other design professionals select the right products and systems for their projects as well as provide customised design solutions on request.

Features & benefits offered by designLINK™

- On-line System Selector™- Enables searches for CSR solutions to meet specific fire, thermal, acoustic and footprint requirements. System Selector™ also searches by wet area, load-bearing and internal and external applications
- Project case studies - Successful project case studies incorporating CSR Building Products are searchable by product, location and building type
- Estimating and design tools
- Test reports, specification templates and technical glossary

Register on-line at **www.designlink.com.au** to receive updates on new products and systems or contact CSR designLINK™ Technical Support Service:

Phone 1800 621 117

Fax 1800 069 904

Email designlink@csr.com.au

Guarantee

CSR Builiding Products guarantees its Gyprock™ products to be free of defects in materials and manufacture.

If a CSR product does not meet our standard, we will, at our option, replace or repair it, supply an equivalent product, or pay for doing one of these. CSR recommends that only products, components and systems recommended by it be used. If this is not done, CSR will need to be satisfied that any defect in its product is attributable to our failure to meet our standard (and not another cause) before this guarantee applies. This guarantee excludes all other guarantees and liability for damage or loss in connection with defects in CSR's products, other than those imposed by legislation.

For a Gyprock EC08™ Range Data Sheet and details of Gyprock's green building wall systems, **visit gyprock.com.au/greenbuilding**

Or call us on **1300 306 556** for a full EC08™ Range Information Pack.

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