



## opal

with **LEVEL+** technology



**opal** plasterboard has a high density gypsum core delivering both superior sound insulation and impact performance. **opal** features heavier duty liner paper which adds to the impact resistance. The surface liner paper is pre-coated using Level+ Technology, creating the whitest and smoothest plasterboard on the market.

## application

**opal** can be used for walls and ceilings in residential projects. Its high performance is particularly relevant for:

- Keeping your house looking new for longer. Using **opal** for the internal linings can protect walls from the knocks and bumps caused by furniture and daily activities.
- Adding holding strength to wall anchors. Holding strength will be greatly improved when placed into **opal** compared to standard plasterboard.
- Improving acoustics by reducing sound transmission from one room to another, e.g. in bedrooms, media rooms and children's playrooms.
- Improving the appearance of bright, exposed large open spaces such as living, dining or 'alfresco' areas.

**opal** is the perfect board to transform a house into a quality built home.

## key benefits

- reduces transfer of sound between rooms to improve indoor acoustic quality
- resists marks and damage - up to six times less impact damage with 10mm Opal board compared to standard 10mm plasterboard
- creates beautiful spaces with a smooth premium finish
- spans up to 600mm centres in ceilings



## product information

	thickness(mm)	width (mm)	length (mm)				weight* (kg/m <sup>2</sup> )
			3600	4200	4800	6000	
sheet size	10	1200				•	8,4
fire hazard properties	Group 1 with an Average Specific Extinction Area <250 m <sup>2</sup> /kg determined in accordance with AS 5637.1 as required by NCC C1.10, Clause 4.						
combustibility	May be used wherever a non-combustible material is required according to the Building Code of Australia (BCA) C1.9 (e)						
hazards identification	Non-hazardous according to WHS Regulations and the ADG Code						

\* Weights indicated are nominal. Minimum order quantities and lead times may apply.

## performance

### Sound

Systems with **opal** can achieve high levels of sound insulation. **opal** may be substituted for 10mm soundshield in any system and achieve the same acoustic rating.

### Impact

Great all-round impact resistance reducing the effects of wear and tear.

### Finish

Smooth and uniform surface for painting creating a premium finish.

### Sound

When comparing the sound resistance of **opal** to standard plasterboard on a timber stud wall with insulation, **opal** achieves an improvement of 4dB in the Rw rating. The difference will be even greater compared to the latest lightweight plasterboard linings available now.

### Rw Definition:

#### Rw - Weighted Sound Reduction Index

Rw is used in Australia as the measure of the airborne sound insulating performance of a building element. The higher the number, the greater the sound insulating performance. For example, an increase in the Rw of a wall by 10 points will reduce the perceived loudness of sound passing through the wall by about 50 per cent.

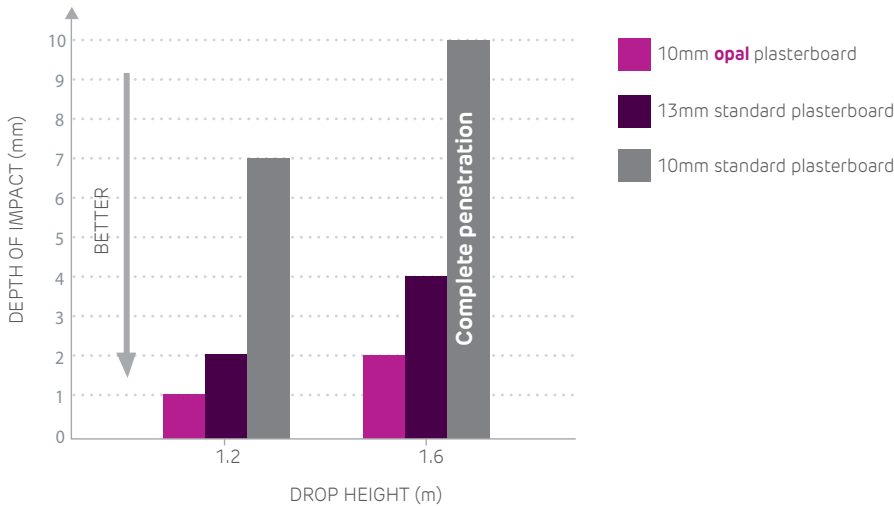
### Sound installation performance

Table 1.

Rw	effect of different values of Rw on sound insulation performance
25	Normal speech can be heard easily
30	Loud speech can be heard easily
35	Loud speech can be heard but not understood
42	Loud speech heard as murmur
45	Must strain to hear loud speech
48	Loud speech can be barely heard
53	Loud speech can not be heard
63	Music can be heard faintly, bass notes 'thump'
70	Loud music can still be heard very faintly

## impact test results\*

Figure 1. Indentation on wall lining



Complete penetration for standard 10mm plasterboard at a drop height of 1.6m while **opal** only sustained a dent 2mm deep.

**opal** had half the impact depth of 13mm plasterboard and one sixth of 10mm plasterboard at a drop height of 1.2m.

\* Impact testing conducted by Siniat

## impact

**opal** has been tested for soft body impact in accordance with BCA C1.8 and meets the impact requirements for fire rated walls.

Hard body impact resistance was tested with a 50mm steel ball weighing 510 grams, dropped onto 400mm square plasterboard samples. The samples were placed on a 300mm square aluminium support sitting on stable concrete flooring.

- Standard 10mm plasterboard is completely penetrated at a drop height of 1.6m, while **opal** only sustained a dent 2mm deep.
- At a 1.2m drop height, 10mm standard plasterboard suffered an impact more than 7mm deep, while **opal** showed only a minor dent 1mm deep.

## installation

For best results **opal** plasterboard should be installed using the 'Screw and Adhesive Method'. It may also be installed using the 'Fastener Only Method' or 'Masonry Adhesive Method' using **mastabond**.

Refer to the Siniat Plasterboard Installation Guide for complete installation instructions.

- [www.siniat.com.au/technical-manuals/plasterboard-installation-guide/](http://www.siniat.com.au/technical-manuals/plasterboard-installation-guide/)

## improved fire resistance

All plasterboard is naturally fire resistant but **opal** has over 25% more hydrated gypsum than standard plasterboard. Hydrated gypsum in the **opal** core slows down the spread of fire by releasing chemically bound water when heated. This is a similar process to evaporation and aids fire resistance.



## LEVEL+ technology

What is LEVEL+ technology?

### 1. A higher quality surface for painting:

- A closer texture between **opal** and Siniat compounds.
- A more even match of paint absorption between board surface and joint.
- Less scuffing and raising of fibres on the edges of joints from sanding.

### 2. A more reliable jointing process:

- Easier to trowel, due to the smooth surface of Siniat **opal** and free flowing Siniat compounds.
- Exceptional feathering of edges.

### 3. A superior appearance:

- Easier to clean before painting.
- Factory superior consistency.

## finish

Compared to standard plasterboard **opal** provides a superior finish due to the benefit of LEVEL+ technology. Using **opal** will result in the best Level 4 Finish possible.

- Design solution for flat and smooth surfaces.
- A higher quality surface for painting.



Levels of Finish refer to the complete installation and finishing process for plasterboard, from the construction of the frame, through the installation of the plasterboard, to the painting system selected. All conditions must be satisfied, to achieve that Level of Finish.

## about us

Siniat is one of the Etex Group's flagship commercial brands, and one of the leading global manufacturers of interior and exterior materials for drywall construction.

The Etex Group is a global family-owned business based in Belgium with a history going back to 1905.

In Australia, Etex has Siniat manufacturing facilities located in Sydney, Melbourne, Bundaberg and Brisbane and supplies steel framing, plasterboard, compounds, cornice and associated products and systems to the Australian building industry through its national distribution network.



All manufacturing plants are certified to the most current versions of the ISO management system standards for Health & Safety, Quality and Environmental Management: ISO 9001:2015 certification for quality management systems, ISO 14001:2015 certification for environmental management systems and ISO 45001:2018 certification for health & safety management systems.



All plasterboard products made in Australia have been independently certified by Global GreenTag to GreenRate Level A. Siniat's certified plasterboard products can achieve 100% Green Star points for sustainable building projects.



**Etex Australia Pty Ltd**

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### warranty

Siniat's products are guaranteed by a 10 Year Warranty. For details visit [siniat.com.au](http://siniat.com.au)

technical advice  
**AU 1300 724 505**



All Siniat plasterboard and metal products made in Australia are available under the Siniat Carbon Neutral Opt-In program to help you meet your sustainability goals. Visit [siniat.com.au](http://siniat.com.au) to find out more.

**Siniat offers a range of technical solutions at [siniat.solutions](http://siniat.solutions), for the professional, including:**

### **siniat SELECT**

offers an online system selector and custom design specification proposal, developed by us and catering to your project requirements.

### **siniat CALCULATE**

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### Disclaimer

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