



## Rigitone™ Galaxy

Rigitone Galaxy perforated plasterboard provides exceptional acoustic control and delivers a seamless intricate pattern with a unique installation method and enhanced indoor air quality due to its Activ'Air technology. High levels of acoustic absorption are achieved through a combination of perforation patterns and a highly effective black acoustic fabric backing which also prevents dust from the ceiling entering the room and masks the ceiling framework. The availability of seamless access panels, ensures easy access to the ceiling cavity while maintaining pattern continuity. Rigitone Galaxy features an irregular scattered pattern consisting of 8mm, 15mm and 20mm round perforations, providing a 10% open area.

### Recommended Use

- Non-fire rated ceiling and wall applications.
- Commercial construction.
- Applications where a high level of acoustic performance is required such as theatres, restaurants, shopping centres and hotel foyers.

| Rigitone Galaxy Specifications      |                                                                           |
|-------------------------------------|---------------------------------------------------------------------------|
| Feature                             | Description                                                               |
| Thickness                           | 12.5mm                                                                    |
| Mass                                | 10.0kg/m <sup>2</sup>                                                     |
| Perforated Pattern                  | Galaxy                                                                    |
| Open Area                           | 10%                                                                       |
| Acoustic Fabric                     | Black                                                                     |
| Widths                              | 1200mm                                                                    |
| Lengths                             | 1960mm                                                                    |
| Edge Profiles                       | Rigitone Edge                                                             |
| Fire Hazard Properties <sup>Δ</sup> | Group No = 1<br>SMOGRARC ≤100m <sup>2</sup> /s <sup>2</sup>               |
| Combustibility <sup>◇</sup>         | Plasterboard may be used wherever a non-combustible material is required. |

<sup>Δ</sup>In accordance with AS ISO 9705 and AS 5637.1

<sup>◇</sup>In accordance with NCC2022 Vol 1 Clause C2D10(6)(a) and NCC2019 Amdt1 Vol Clause C1.9(e)(i).



### Product Features



#### Acoustics

Absorbs sound into ceiling to prevent reverberation.



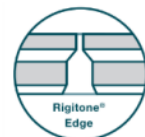
#### Aesthetics

Acoustic performance with design freedom



#### Activ'Air Technology

Uses Activ'Air technology for cleaner air



#### Rigitone Edge

Rigitone Edge profile



#### International Alliance

Delivered through the International Alliance Program



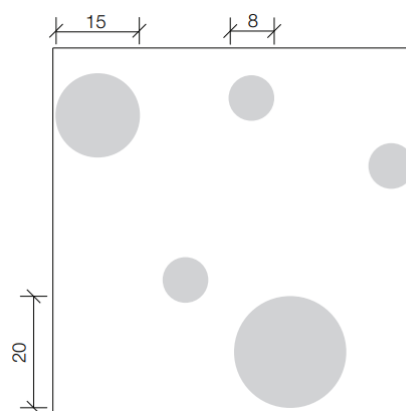
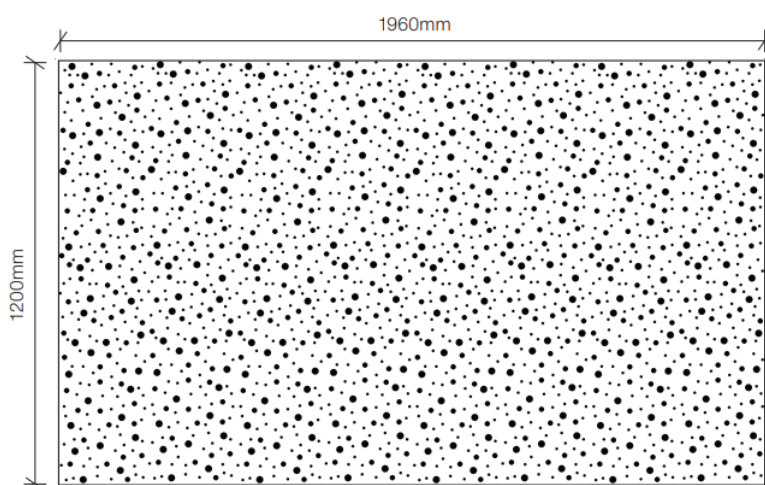
## Rigitone Installation

Rigitone is specially designed to be screw fixed to suspended ceilings. Its unique installation method allows the product's perforated pattern to continue uninterrupted where sheets meet. Pattern spacers are available to ensure boards with a square edge are fixed with the exact gap required for jointing. Boards with a chamfered edge are designed to be butted directly next to each other, and so do not require a pattern spacer. Unlike the traditional three coat plasterboard jointing systems, Rigitone boards are jointed by directing a specialised compound into a gap between the sheets. The filling method is made possible by the unique Rigitone Filler Accessory Kit, combined with the Rigitone Filler compound. While all four edges of the standard range of Rigitone boards are pre-primed, Rigitone primer is used to prepare cut edges for jointing.

## Painting

After the joints are completed, the surface of the plasterboard is painted in accordance with the paint manufacturer's specifications using a paint roller, taking care to paint the surface only, and not the voids. Long nap and heavily loaded paint rollers should be avoided for this reason. Spray painting is NOT permitted as paint will impair the acoustic tissue thus degrading the acoustic properties. Water-based paints are required for boards that contain Activ'Air technology. Repainting will not impact the performance of Activ'Air.

Full installation and finishing details can be found in the Red Book 3: Commercial and Multi-Residential Installation Guide – Class 2-9 Buildings.



## NRC Value Summary

| Galaxy<br>10% open area |                             |                |             | Sound Absorption Coefficient        |             |             |             |             |             |
|-------------------------|-----------------------------|----------------|-------------|-------------------------------------|-------------|-------------|-------------|-------------|-------------|
| Plenum<br>(Air Cavity)  | Plenum<br>Insulation        | $\alpha_w$     | NRC         | Octave Band Centre Frequencies (Hz) |             |             |             |             |             |
|                         |                             |                |             | 125                                 | 250         | 500         | 1000        | 2000        | 4000        |
| 65mm                    | Empty                       | 0.50           | 0.55        | 0.20                                | 0.35        | 0.70        | 0.75        | 0.45        | 0.35        |
|                         | 50mm glasswool<br>(14kg/m³) | 0.50(L)        | 0.60        | 0.35                                | 0.55        | 0.70        | 0.75        | 0.45        | 0.35        |
| 200mm                   | Empty                       | <b>0.45(L)</b> | <b>0.55</b> | <b>0.55</b>                         | <b>0.60</b> | <b>0.65</b> | <b>0.55</b> | <b>0.40</b> | <b>0.30</b> |
|                         | 50mm glasswool<br>(14kg/m³) | <b>0.55(L)</b> | <b>0.60</b> | <b>0.60</b>                         | <b>0.65</b> | <b>0.60</b> | <b>0.60</b> | <b>0.45</b> | <b>0.45</b> |
| 600mm                   | Empty                       | <b>0.60</b>    | <b>0.60</b> | <b>0.60</b>                         | <b>0.60</b> | <b>0.60</b> | <b>0.60</b> | <b>0.50</b> | <b>0.50</b> |
|                         | 50mm glasswool<br>(14kg/m³) | <b>0.65</b>    | <b>0.65</b> | <b>0.60</b>                         | <b>0.60</b> | <b>0.65</b> | <b>0.70</b> | <b>0.55</b> | <b>0.55</b> |

Bold values are test report data conducted at the CSIRO Melbourne laboratories. Non-bold values are acoustic predictions by PKA Acoustic Consulting. (L) denotes excess performance at 250Hz.



## Manufacturing Tolerances

|                   |                                     |
|-------------------|-------------------------------------|
| Nominal Thickness | 12.5mm +/- 0.3mm                    |
| Nominal Widths    | 1200mm +/- 3mm                      |
| Nominal Lengths   | 1960mm +/- 3mm                      |
| Squareness        | 90° +/- 1.5mm at 1200mm (short end) |

\*\*Subject to reasonable manufacturing variance.

## Product Manufacture

Rigitone Galaxy is manufactured for CSR Gyprock by worldwide plasterboard specialist Saint-Gobain.

## Access Panels

Rigitone Access Panels are designed to match the perforation patterns of the individual boards with minimal visible interruption of the pattern. **Refer to TABLE 1.** Access Panels for Matrix 8mm Round, Matrix 12mm Square and Astral include a perforated panel infill to match the sheet pattern when the cut-out is located between rows of perforations. Rigitone Galaxy Access Panels require a cut-out piece to be attached, sourced from the fixed sheet to ensure the pattern continues undisturbed. A minimum plenum depth of 140mm is required to insert the Access Panel from the finished side.

**TABLE 1: Matching Access Panels and Pattern Spacers for Rigitone Perforated Plasterboard**

| Panel Description                       | Edge | Matching Access Panel Description      | Matching Pattern Spacer                 |
|-----------------------------------------|------|----------------------------------------|-----------------------------------------|
| RIGITONE ASTRAL 12-20/66 1188X1980      | SE   | RIGITONE HATCH ASTRAL 12-20/66 510x510 | RIGITONE PATTERN SPACER 2 PACK 12-20/66 |
| RIGITONE ASTRAL 12-20/66 1188X1980      | CE   |                                        | NA                                      |
| RIGITONE MATRIX 12-25 12MM SQ 1200X2000 | SE   | RIGITONE HATCH MATRIX 12-25Q 500x500   | RIGITONE PATTERN SPACER 2 PACK 12/25    |
| RIGITONE MATRIX 12-25 12MM SQ 1.2X2     | CE   |                                        | NA                                      |
| RIGITONE GALAXY 8-15-20 1200X1960       | SE   | RIGITONE HATCH GALAXY 500x500 FRAME    | RIGITONE PATTERN SPACER 2 PACK 8-15-20  |
| RIGITONE GALAXY 8-15-20 1200X1960       | CE   |                                        | NA                                      |
| RIGITONE MATRIX 8/18 8MM RND 1188X1998  | SE   | RIGITONE HATCH MATRIX RND 8/18 500x500 | RIGITONE PATTERN SPACER 2 PACK 8/18     |
| RIGITONE MATRIX 8/18 R 8MM 1188X1998    | CE   |                                        | NA                                      |
| RIGITONE MATRIX 12MM RND 1200X2000      | SE   | RIGITONE HATCH GALAXY 500x500 FRAME    | RIGITONE PATTERN SPACER 2 PACK 12/25    |
| RIGITONE MATRIX 15MM RND 1200X1980      | SE   |                                        | RIGITONE PATTERN SPACER 2 PACK 15/30    |

## Storage

Protect plasterboard from weather and moisture. Avoid products sagging by storing horizontally, supported on a level platform or full-width support members spaced at max. 600mm centres.

## Healthy and Safety

For further information refer to the Safety Data Sheet for this product which is available from [www.gyprock.com.au](http://www.gyprock.com.au) or contact:

CSR Gyprock  
Trinity 3, 39 Delhi Rd, North Ryde NSW 2113  
Australia Phone: **131 744**  
New Zealand Phone: **0800 277 123**

## Resources

For further information on this product please visit [www.gyprock.com.au](http://www.gyprock.com.au) or refer to the Red Book. For technical support, contact:

**DESIGNLINK™**

PHONE: 1800 621 117

## Installing to Standards

Installing to Standards AS/NZS2589: Gypsum linings – Application and Finishing outlines the procedures for jointing and finishing of Gyprock plasterboard in conjunction with additional details contained in Gyprock Technical Literature.



INTERNATIONAL  
ALLIANCE

Through the International Alliance program, Gyprock seeks to develop exclusive relationships with leading manufacturers throughout the world to deliver the best technologies and products to the Australian construction industry.