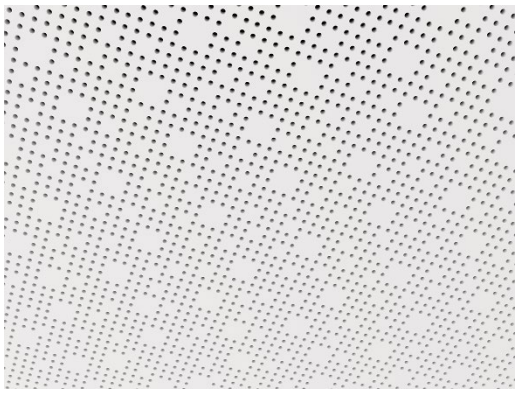
GYPROCK®
SAINT-GOBAIN

PRODUCT DATA SHEET

Rigitone® Nebula

Rigitone Nebula perforated plasterboard is a superior acoustic solution that delivers an aesthetic impact with edge-to-edge pattern layout, 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 Nebula provides a pattern of 8mm round perforations with random plain areas 28mm and 46mm width providing a 13% 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 Nebula Specifications	
Feature	**Description**
Thickness	12.5mm
Mass	Approx. 10.0kg/m²
Perforated Pattern	Round 8mm with random plain areas 28mm and 46mm width
Open Area	12%
Acoustic Fabric	Black
Widths	1188mm
Lengths	1998mm
Edge Profiles	Rigitone Edge
Design Registration	Australian Registered Design 202513662S
Fire Hazard Properties[Δ]	Group No = 1 SMOGRARC ≤100m²/s²
Combustibility[◊]	Plasterboard may be used wherever a non-combustible material is required.

[Δ]In accordance with AS ISO 9705 and AS 5637.1

[◊] 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

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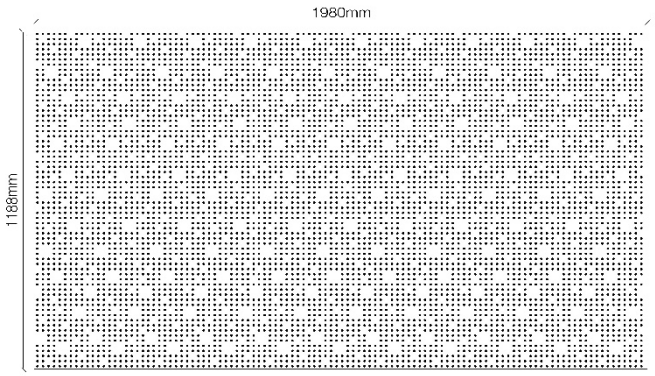
Rigitone Installation

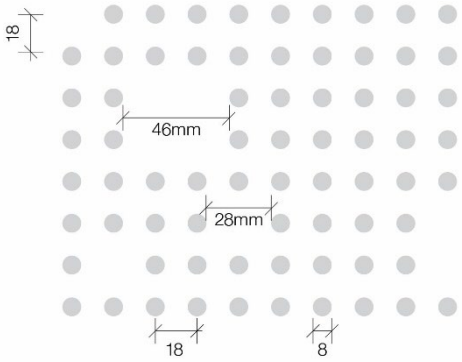
Rigitone is specially designed to be screw fixed to suspended ceilings. Its unique installation method allows the product's perforated pattern to continue undisrupted where sheets meet. Pattern spacers are available to ensure boards with a square edge are fixed with the exact gap required for jointing. 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

Rigitone Nebula 13.0% Open Area				Sound Absorption Coefficient					
Plenum (Air Cavity)	Plenum Insulation	α_w	NRC	Octave Band Centre Frequencies (Hz)					
				125	250	500	1000	2000	4000
65mm*	Empty	0.55	0.55	0.2	0.35	0.55	0.75	0.6	0.35
	50mm glasswool (14kg/m^3)	0.7	0.7	0.35	0.6	0.75	0.75	0.65	0.55
200mm	Empty	0.65	0.65	0.55	0.65	0.75	0.65	0.6	0.5
	50mm glasswool (14kg/m^3)	0.7	0.7	0.6	0.7	0.7	0.7	0.65	0.6
600mm	Empty	0.65	0.65	0.65	0.6	0.65	0.65	0.6	0.55
	50mm glasswool (14kg/m^3)	0.75	0.7	0.65	0.65	0.7	0.75	0.7	0.65

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.

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Manufacturing Tolerances

Nominal Thickness	12.5mm +/- 0.3mm
Nominal Widths	1188mm +/- 3mm
Nominal Lengths	1998mm +/- 3mm
Squareness	90° +/- 1.5mm at 1200mm (short end)

**Subject to reasonable manufacturing tolerance.

Product Manufacture

Rigitone Nebula 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	CE	RIGITONE HATCH ASTRAL 12-20/66 510x510	NA
RIGITONE MATRIX 12-25 12MM SQ 1.2X2	CE	RIGITONE HATCH MATRIX 12-25Q 500x500	NA
RIGITONE MATRIX 8/18 R 8MM 1188X1998	CE	RIGITONE HATCH MATRIX RND 8/18 500x500	NA
RIGITONE GALAXY 8-15-20 1200X1960	CE	RIGITONE HATCH GALAXY 500x500 FRAME	NA
RIGITONE STELLAR C EDGE 1188X1980	CE		NA
RIGITONE ASTRA C EDGE 1188X1980	CE		NA
RIGITONE NEBULA C EDGE 1188X1980	CE		NA
RIGITONE MATRIX 15MM RND 1200X1980	SE		RIGITONE PATTERN SPACER 2 PACK 15/30
RIGITONE MATRIX 12MM RND 1200X2000	SE		RIGITONE PATTERN SPACER 2 PACK 12/25

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.

Health and Safety

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

CSR Gyprock
Triniti 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 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.