

Perforated Plasterboard

Acoustic performance with design freedom.

NEW Rigitone & Gyptone patterns available

Make an impression



Excellence in design is achieved with a balance of aesthetics and functionality. The Gyprock range of perforated plasterboard allows architects and designers to create beautiful ceilings and walls that achieve high levels of acoustic performance.

The panel perforations together with acoustic fabric lining and insulation, where used, reduce echo and noise reverberation to create more comfortable environments for work and leisure.

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

As part of the International Alliance program, the perforated range includes Rigitone[™] options with edge to edge, continuous patterns and Gyptone[™] options with patterns laid out in grids. Two Gyptone pattern options are also available in a flexible board for curved applications. These International Alliance program options were developed by worldwide plasterboard specialist, Saint-Gobain and feature innovative Activ'Air technology to help improve indoor air quality.

The contemporary patterns of the Rigitone and Gyptone ranges, along with the more traditional Gyprock Standard 6mm Round option provide a wide range of design versatility and acoustic performance for ceiling and wall projects.



Acoustic control

Good acoustic design includes control of both sound transmission and sound absorption. Sound transmission is controlled by using solid or cavity elements sealed to prevent sound leakage. To combat sound transmission, Gyprock provides a range of systems which achieve high transmission reduction targets.

Sound absorption is the control of sound within a room where absorbing surfaces reduce the amount of sound bouncing back into the room of origin. The total amount of sound absorption in a room and hence the reverberation time, is critically important for speech intelligibility, privacy and general noise levels.

Gyprock's range of perforated plasterboard provides high levels of reverberation control with much greater freedom for designers:

- Options suitable for ceilings and walls including flexible options for curved applications
- · Plasterboard provides ease of installation and versatility
- The surface is more durable than mineral fibre or similar acoustic absorbers

Acoustic assessment

A material's sound absorbing properties are expressed by the noise reduction coefficient (NRC), a simple measure that averages the absorption values over just a few frequencies. NRC typically ranges from 0 (total reflection) to 1.00 (total absorption). For perforated products, the NRC is dependent on the amount of open surface area, the type of acoustic fabric, the use of additional insulation material and the depth of the air cavity (plenum) behind the lining. Boards in the Rigitone and Gyptone ranges were tested for sound absorption in CSIRO Melbourne and Auckland University laboratories. Testing was performed with air cavities of 200mm and, in some cases 600mm, with and without insulation (50mm CSR Bradford glasswool batts at 14kg/m³).

PKA Acoustic Consulting provided complete acoustic predictions based on this data for the Rigitone and Gyptone ranges and previous testing data for the Standard 6mm Round board, along with perforated and slotted resonance formula calculations, as well as their database of sound absorption coefficient and acoustic laboratory tests. The acoustic absorption performance summary graph below shows the absorption coefficients for the range of boards in the perforated plasterboard range, with an uninsulated 200mm cavity installation. Copies of the test reports are available by contacting DesignLINK Technical Support on 1800 621 117.

Acoustic absorption performance summary:

200mm plenum (air cavity), uninsulated (full details on following pages)



All boards in the Rigitone and Gyptone ranges are supplied with acoustic fabric backing as standard and were tested as supplied, resulting in far better acoustic performance results than Standard 6mm Round, which was tested as supplied without acoustic fabric. Standard 6mm Round is an entry level perforated product, often specified for aesthetics over performance. However, installers may use a third party acoustic fabric to provide far higher levels of acoustic performance if required.

Three core ranges

Gyprock Rigitone[™] Range

Rigitone perforated plasterboard is a superior and modern acoustic solution that delivers a monolithic design due to its edge to edge pattern layouts. The Rigitone range combines functionality and aesthetics in the modern design of ceilings. Integrating lighting, ventilation systems, loudspeakers and such is straightforward and simple. Due to the variety of perforation sizes and patterns, board dimensions vary slightly but are nominally 1200mm x 2000mm x 12.5mm.

The majority of the boards in the Rigitone range, such as Matrix 8mm Round, Matrix 12mm Square, Astral & Galaxy feature a new chamfered edge for easier installation, while the Matrix 12mm Round & Matrix 15mm Round feature the traditional square edge. Both edge types are pre-primed and sanded, and are finished in the same way with Rigitone Filler used to create a continuous, seamless finish.



Gyprock Gyptone[™] Range

Gyptone perforated plasterboard contributes to aesthetics and excellent acoustics. The range features four contemporary perforation patterns, each with different percentages of open area providing a range of acoustic performance.

Gyptone Standard Options

The Gyptone plasterboards are su walls and ceilings.

Unlike standard plasterboard, all four edges of the 12.5mm thick Gyptone perforated plasterboard products are recessed to make flush jointing quicker and easier with the normal tape and three coat jointing system.

Gyptone Flexible Options

Two of the four Gyptone patterns are available in a flexible board option at a size of 1200mm x 2400mm x 6.5mm. These are suitable for curved ceiling applications. The flexible boards have recesses along two long edges only as standard.

Gyprock Standard 6mm Round

6mm Round is the traditional Gyprock perforated board product that has been extensively used throughout Australia for many years. It provides an economical aesthetic solution for ceilings or walls. This 1200mm x 3600mm x 13mm board features recesses on the two long edges with square cuts at each short edge. Standard 6mm Round is supplied without an acoustic fabric backing and acoustic performance is adequate for most situations where moderate levels of attenuation are required.

The Gyptone plasterboards are supplied at a size of 1200mm x 2400mm x 12.5mm for acoustic



Activ'Air

Many materials, such as particleboard, furniture, carpets and paint emit formaldehyde, one of the most prevalent VOCs. This means that high concentrations of formaldehyde, which has been classified as a known carcinogen by The World Health Organisation and the US Department of Health, can frequently be found in the air we breathe in many indoor spaces.

Activ'Air is a patented technology that converts formaldehyde into non-harmful inert compounds that are permanently locked in the board and cannot be released back into the air. Controlled testing has shown that Activ'Air can reduce the concentration of formaldehyde within an environment by up to 60% when installed in ceilings, even when there is continuous airflow containing formaldehyde.

living in the space.



Acoustic fabric

Rigitone and Gyptone perforated plasterboard is supplied with a highly effective acoustic fabric backing that dramatically improves the acoustic performance of the board. This unique fabric is exclusive to Gyprock and apart from improved acoustic performance, it provides other benefits:

- · Eliminates dust from ceiling cavities coming down into the room
- below through the perforations

Gyprock perforated plasterboards achieve a group one rating when assessed to AS5637.1. Please refer to report number Derformance WF45759 available for download on the Gyprock website for further information.

> Perforated plasterboard is best suited for installation in areas with less than 70% relative humidity. Gyptone boards support point loads up to 3kg. Adequate independent or additional support must be provided for services and lighting systems that exceed this limit.

> Walls lined with Gyptone are more susceptible to damage from impact. When applying Gyptone to walls for additional acoustic performance and striking aesthetics, be sure to consider the use of the space. Non-trafficable areas are well suited to this application, as well as low-traffic areas which may better endure with a sheet of standard plasterboard fitted on the lower half of the wall.

Gyprock[®] Perforated Plasterboard

Installing Rigitone or Gyptone plasterboard containing Activ'Air technology to ceilings and/or walls will have an enduring impact on air quality and will improve the environment for people working and

Activ'Air converts formaldehvde into inert compounds which are locked into the board. creating healthier indoor environments.

• Effectively masks the ceiling framework so that it is not seen from

GYPTONE SLOTT		 	
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Access panel solutions Access panels are integrated into suspended ceilings to allow for inspection, service and maintenance work on the installations in the space above. Gyprock offers solutions for the Rigitone and Gyptone ranges that provide easy access but are barely perceptible in a continuous perforated ceiling pattern.

Rigitone Access Panels

These genuine International Alliance access panels consist of a metal frame that houses a matching perforated plasterboard panel. Pre-cut panels are supplied for the majority of the Rigitone patterns, and the Rigitone Galaxy, Matrix 12mm Round and 15mm Round are supplied frame only, with the panel required to be cut on site to suit.

The well thought-out Rigitone system makes these prefabricated access panels easy and cost effective to install and maintains the high design quality of rooms with continuously perforated ceilings. Accurate installation is facilitated by fitting bolts, that assist with the alignment of the access panels. Rigitone Access Panels are nominally 500mm x 500mm x 12.5mm. Note: Rigitone Astral Access Panel is 510mm x 510mm x 12.5mm nominally.



Gyptone[™]

Access panels are available in each of the Gyptone board patterns. These consist of a plasterboard frame that is easily set into the ceiling and a 510mm x 510mm hatch piece with a matching perforation pattern that fits neatly into the frame.









NRC Value Summary: Rigitone Standard and Special Order Range (Full details on following pages)

		Sheet		Plenum (Air Cavity)			Onon				
Perforated	Sheet Size (mm)	Thickness	Weight (kg/m²)	Open Area %	Acoustic Fabric	65mm		200mm		600mm	
	0120 (1111)	(mm)	(19/11)	Juou /o	rabito	Empty	Batts**	Empty	Batts**	Empty	Batts**
Rigitone – Standard Rang	je										
Matrix 8mm Round	1188 x 1998	12.5	10.0	15.5%	Black	0.60	0.70	0.65	0.75	0.65	0.75
Matrix 12mm Round	1200 x 2000	12.5	9.5	18.1%	Black	0.60	0.70	0.70	0.85	0.70	0.90
Matrix 15mm Round	1200 x 1980	12.5	9.5	19.6%	Black	0.55	0.70	0.65	0.90	0.65	0.90
Matrix 12mm Square	1200 x 2000	12.5	9.5	23.0%	Black	0.65	0.75	0.70	0.90	0.70	0.85
Astral	1188 x 1980	12.5	9.5	19.6%	Black	0.55	0.65	0.65	0.85	0.65	0.80
Galaxy	1200 x 1960	12.5	10.0	10.0%	Black	0.55	0.60	0.55	0.60	0.60	0.65
Rigitone - Special Order I	Range*										
Matrix 8mm Square	1188 x 1998	12.5	10.0	19.8%	Black	0.60	0.70	0.65	0.80	0.70	0.80
Matrix 10mm Round	1196 x 2000	12.5	10.0	14.8%	Black	0.60	0.65	0.65	0.85	0.65	0.85

*Lead time and minimum quantities apply, please consult your account manager for details.

Bold values in all tables are test report data. Non-bold values are acoustic predictions by PKA Acoustic Consulting. Values are for ceilings only. For wall values please contact DesignLINK. **Batts denotes that 50mm Bradford glasswool batts (14kg/m³) were included in the cavity.

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GYPTONE 12MM SQUARE



Rigitone Matrix 8mm Round (8/18)

A pattern of 8mm round perforations spaced at 18mm centres, providing a 15.5% open area. Supplied with a black acoustic fabric backing.

A 500mm x 500mm matching access panel is also available.



Standard Range

Matrix 8mm Ro 15.5% open a	ound rea		Sound Absorption Coefficient of					a _p
Plenum			Octa	ve Ban	d Cent	re Freq	uencie	s (Hz)
Insulation	α"	NRC	125	250	500	1000	2000	4000
Empty	0.60	0.60	0.20	0.30	0.65	0.80	0.60	0.50
50mm glasswool (14kg/m ³)	0.70	0.70	0.35	0.55	0.70	0.80	0.65	0.55
Empty	0.60(L)	0.65	0.55	0.70	0.75	0.65	0.55	0.50
50mm glasswool (14kg/m ³)	0.75(L)	0.75	0.70	0.80	0.75	0.75	0.70	0.70
Empty	0.65(L)	0.65	0.60	0.70	0.65	0.60	0.60	0.55
50mm glasswool (14kg/m ³)	0.75	0.75	0.70	0.75	0.70	0.70	0.75	0.75
	Matrix 8mm Ro 15.5% open a Plenum Insulation Empty 50mm glasswool (14kg/m ³) Empty 50mm glasswool (14kg/m ³)	Matrix 8mm Round 15.5% open areaPlenum InsulationαEmpty0.6050mm glasswool (14kg/m³)0.7050mm glasswool (14kg/m³)0.75(μ)50mm glasswool (14kg/m³)0.65(μ)50mm glasswool (14kg/m³)0.75	Matrix 8mm Round 15.5% open area Plenum Insulation α. NRC Empty 0.60 0.60 50mm glasswool (14kg/m³) 0.70 0.70 Empty 0.60(μ) 0.65 50mm glasswool (14kg/m³) 0.75(μ) 0.75 50mm glasswool (14kg/m³) 0.65(μ) 0.655 50mm glasswool (14kg/m³) 0.75 0.75	Matrix 8mm Round 15.5% open area Sol Octar 125 Plenum Insulation α _w NRC Octar 125 Empty 0.60 0.20 0.20 50mm glasswool (14kg/m³) 0.70 0.70 0.35 Empty 0.60(μ) 0.65 0.55 50mm glasswool (14kg/m³) 0.75(μ) 0.75 0.70 50mm glasswool (14kg/m³) 0.65(μ) 0.65 0.60 50mm glasswool (14kg/m³) 0.65(μ) 0.65 0.60	Matrix 8mm Round 15.5% open area Sourd Ab Octa Plenum Insulation α_w NRC Octa Ban 125 Ban 250 Empty 0.60 0.60 0.20 0.30 50mm glasswool (14kg/m³) 0.70 0.70 0.35 0.55 Empty 0.60(L) 0.65 0.55 0.70 50mm glasswool (14kg/m³) 0.75(L) 0.75 0.70 0.80 50mm glasswool (14kg/m³) 0.65(L) 0.65 0.60 0.70 50mm glasswool (14kg/m³) 0.65(L) 0.65 0.60 0.70 50mm glasswool (14kg/m³) 0.75 0.75 0.70 0.75	Matrix 8mm Round 15.5% open area Sound Absorption Plenum Insulation α _w NRC Octave Base Cotave Base Empty 0.60 0.60 0.20 0.30 0.65 50mm glasswool (14kg/m ³) 0.70 0.70 0.35 0.70 0.70 Empty 0.60(µ) 0.65 0.55 0.70 0.75 50mm glasswool (14kg/m ³) 0.75(µ) 0.75 0.70 0.80 0.75 50mm glasswool (14kg/m ³) 0.75(µ) 0.75 0.70 0.80 0.75 50mm glasswool (14kg/m ³) 0.65(µ) 0.65 0.60 0.70 0.65 50mm glasswool (14kg/m ³) 0.65(µ) 0.65 0.60 0.70 0.65	Matrix 8mm Round 15.5% open area Sound Absorption Coefficient Octave Bandwordt Plenum Insulation α _w NRC Octave Bandwordt Coefficient Coefficie	Matrix 8mm Round 15.5% open area Sourd Absorption Coefficient Octave Band Centre Freedencies Plenum Insulation α _w NRC Octave Band Centre Freedencies 125 250 500 1000 2000 Empty 0.60 0.60 0.20 0.30 0.65 0.80 0.60 50mm glasswool (14kg/m ³) 0.70 0.70 0.35 0.70 0.75 0.65 0.75 0.65 0.70 0.80 0.65 50mm glasswool (14kg/m ³) 0.75(µ) 0.75 0.70 0.80 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.75 0.70 0.75 0.70 0.75 0.75 0.75 0.75 0.75 0.70 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75

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



Rigitone Matrix (12/25)

A pattern of 12mm round perforations spaced at 25mm centres, providing a 18.1% open area. Supplied with a black acoustic fabric backing.

A 500mm x 500mm matching access panel is also available.

Please note a cut piece of Matrix 12mm Round board is required for the Rigitone access panel, which is supplied frame only.



Standard Range

	Matrix 12mm R 18.1% Open A	ound rea		So	und Ab	sorptic	on Coef	ficient	a _p
lenum	Plenum			Octav	/e Ban	d Centi	re Freq	uencie	s (Hz)
(Air Cavity)	Insulation	α _w	NRC	125	250	500	1000	2000	4000
	Empty	0.55	0.60	0.15	0.30	0.65	0.80	0.60	0.45
5mm	50mm glasswool (14kg/m ³)	0.70	0.70	0.30	0.55	0.80	0.75	0.65	0.55
	Empty	0.60(LM)	0.70	0.35	0.75	0.90	0.65	0.55	0.45
00mm	50mm glasswool (14kg/m ³)	0.70(LM)	0.85	0.55	0.95	0.95	0.85	0.70	0.55
	Empty	0.65(L)	0.70	0.50	0.75	0.80	0.70	0.60	0.50
00mm	50mm glasswool (14kg/m ³)	0.80(L)	0.90	0.60	0.90	0.95	0.90	0.75	0.65

Values are acoustic predictions by PKA Acoustic Consulting. (L) denotes excess performance at 250Hz. (M) denotes excess performance at 500Hz, 1000Hz





Rigitone Matrix (15/30)

A pattern of 15mm round perforations spaced at 30mm centres, providing a 19.6% open area. Supplied with a black acoustic fabric backing.

A 500mm x 500mm matching access panel is also available.

Please note a cut piece of Matrix 15mm Round board is required for the Rigitone access panel, which is supplied frame only.



	Matrix 15mm R 19.6% Open A	ound .rea		So	und Ab	sorptic	on Coef	ficient	a _p
Plenum	Plenum		NIDO	Octa	ve Ban	d Centi	re Freq	uencie	s (Hz)
(Air Cavity)	Insulation	α	NRC	125	250	500	1000	2000	4000
	Empty	0.50	0.55	0.20	0.30	0.60	0.80	0.50	0.30
65mm	50mm glasswool (14kg/m ³)	0.70	0.70	0.35	0.55	0.85	0.75	0.65	0.55
	Empty	0.50(LM)	0.65	0.35	0.70	0.85	0.60	0.50	0.35
200mm	50mm glasswool (14kg/m ³)	0.70(LM)	0.90	0.60	0.95	1.00	0.85	0.70	0.55
	Empty	0.55(L)	0.65	0.50	0.70	0.75	0.65	0.55	0.40
600mm	50mm glasswool (14kg/m ³)	0.80(L)	0.90	0.65	0.90	1.00	0.90	0.75	0.65

Values are acoustic predictions by PKA Acoustic Consulting. (L) denotes excess performance at 250Hz. (M) denotes excess performance at 500Hz, 1000Hz

Rigitone Matrix III (12/25 Q)

A pattern of 12mm square perforations spaced at 25mm centres, providing a 23% open area. Supplied with a black acoustic fabric backing.

A 500mm x 500mm matching access panel is also available.







Standard Range

	Matrix 12mm So 23% open are	quare ea		So	und Ab	sorptic	on Coef	ficient	a _p
enum	Plenum			Octav	ve Ban	d Centr	e Freq	uencie	s (Hz)
(Air Cavity)	Insulation	α _w	NRC	125	250	500	1000	2000	4000
E	Empty	0.60	0.65	0.20	0.35	0.70	0.85	0.65	0.50
əmm	50mm glasswool (14kg/m³)	0.75	0.75	0.35	0.60	0.85	0.85	0.70	0.60
0	Empty	0.65(L)	0.70	0.50	0.80	0.85	0.65	0.60	0.55
Jomm	50mm glasswool (14kg/m³)	0.85(L)	0.90	0.70	0.90	0.90	0.90	0.80	0.75
	Empty	0.65(L)	0.70	0.65	0.70	0.65	0.70	0.65	0.55
Jumm	50mm glasswool (14kg/m ³)	0.90	0.85	0.70	0.70	0.85	0.95	0.90	0.95

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

2000mm



Rigitone Astral (12-20/66)

A regularly staggered pattern consisting of 12mm and 20mm round perforations spaced at 33mm centres, providing a 19.6% open area. Supplied with a black acoustic fabric backing.

A 510mm x 510mm matching access panel is also available.



Standard Range

	Astral 19.6% open a	rea		So	und Ab	sorptic	on Coef	fficient	a _p
Plenum	Plenum			Octa	ve Ban	d Centi	re Freq	uencie	s (Hz)
(Air Cavity)	Insulation	α _w	NRC	125	250	500	1000	2000	4000
6 E	Empty	0.50	0.55	0.20	0.35	0.55	0.80	0.55	0.30
mmco	50mm glasswool (14kg/m³)	0.60	0.65	0.35	0.50	0.70	0.80	0.60	0.45
200mm	Empty	0.55(LM)	0.65	0.50	0.75	0.80	0.60	0.50	0.45
200mm	50mm glasswool (14kg/m ³)	0.80(L)	0.85	0.70	0.85	0.85	0.85	0.70	0.70
600	Empty	0.65	0.65	0.60	0.65	0.65	0.65	0.60	0.50
ouunn	50mm glasswool (14kg/m ³)	0.80	0.80	0.70	0.70	0.80	0.85	0.75	0.75

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 (M) denotes excess performance at 500Hz, 1000Hz



Rigitone Galaxy (8-15-20 Super)

An irregular scattered pattern consisting of 8mm, 15mm and 20mm round perforations, providing a 10% open area. Supplied with a black acoustic fabric backing.

A 500mm x 500mm matching access panel is also available.

Please note a cut piece of Galaxy board is required for the Galaxy access panel, which is supplied frame only.



Standard Range

	0.1									
	Galaxy 10% open are	ea		So	und Ab	sorptic	n Coef	ficient	cient a _p	
lenum	Plenum			Octav	ve Ban	d Centr	re Freq	uencie	s (Hz)	
(Air Cavity)	Insulation	α _w	NRC	125	250	500	1000	2000	4000	
-	Empty	0.50	0.55	0.20	0.35	0.70	0.75	0.45	0.35	
mme	50mm glasswool (14kg/m³)	0.50(L)	0.60	0.35	0.55	0.70	0.75	0.45	0.35	
20	Empty	0.45(L)	0.55	0.55	0.60	0.65	0.55	0.40	0.30	
Jomm	50mm glasswool (14kg/m³)	0.55(L)	0.60	0.60	0.65	0.60	0.60	0.45	0.45	
	Empty	0.60	0.60	0.60	0.60	0.60	0.60	0.50	0.50	
Jomm	50mm glasswool (14kg/m³)	0.65	0.65	0.60	0.60	0.65	0.70	0.55	0.55	

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

1960mm





Rigitone Matrix (8-18Q)

A pattern of 8mm square perforations spaced at 18mm centres, providing a 19.8% open area. Supplied with a black acoustic fabric backing.

A 500mm x 500mm matching access panel is also available.

Please note a cut piece of Matrix 8mm Square board is required for the Rigitone access panel, which is supplied frame only.



	Matrix 8mm So 19.8% Open A	luare rea		Sound Absorption Coefficient a						
Plenum	Plenum		NDO	Octa	ve Ban	d Centi	re Freq	uencie	s (Hz)	
(Air Cavity)	Insulation	α _w	NRC	125	250	500	1000	2000	4000	
	Empty	0.60	0.60	0.15	0.30	0.65	0.85	0.65	0.50	
65mm	50mm glasswool (14kg/m ³)	0.75	0.70	0.30	0.55	0.80	0.80	0.70	0.60	
	Empty	0.60(L)	0.65	0.40	0.65	0.80	0.60	0.55	0.50	
200mm	50mm glasswool (14kg/m ³)	0.80	0.80	0.40	0.70	0.85	0.80	0.80	0.70	
	Empty	0.65(L)	0.70	0.45	0.70	0.75	0.65	0.60	0.55	
600mm	50mm glasswool (14kg/m ³)	0.80	0.80	0.50	0.80	0.80	0.80	0.75	0.70	

Values are acoustic predictions by PKA Acoustic Consulting. (L) denotes excess performance at 250Hz.

Rigitone Matrix 10mm Round (10/23)

A pattern of 10mm round perforations spaced at 23mm centres, providing a 14.8% open area. Supplied with a black acoustic fabric backing.

A 500mm x 500mm matching access panel is also available.

Please note a cut piece of Matrix 10mm Round board is required for the Rigitone access panel, which is supplied frame only.







Special Order Range

	Matrix 10mm R 14.8% Open A	ound .rea		Sound Absorption Coefficient							
lenum	Plenum			Octav	ve Bano	d Centi	re Freq	uencies	s (Hz)		
(Air Cavity)	Insulation	α _w	NRC	125	250	500	1000	2000	4000		
	Empty	0.50	0.60	0.15	0.30	0.65	0.85	0.55	0.30		
5mm	50mm glasswool (14kg/m ³)	0.60	0.65	0.35	0.55	0.75	0.70	0.60	0.45		
	Empty	0.50(LM)	0.65	0.35	0.70	0.85	0.60	0.50	0.35		
00mm	50mm glasswool (14kg/m ³)	0.65(LM)	0.85	0.60	0.95	0.90	0.80	0.65	0.45		
	Empty	0.55(L)	0.65	0.50	0.70	0.75	0.65	0.55	0.40		
00mm	50mm glasswool (14kg/m ³)	0.70(L)	0.85	0.65	0.90	0.90	0.85	0.70	0.55		





NRC Value Summary - Gyptone Standard and Special Order Range (Full details on following pages)

		Sheet		aight Open Acoustic		Plenum (Air Cavity)					
	Sheet Size (mm)	Thickness	Weight (kg/m²)	Open Area %	Acoustic Fabric	65mm		200mm		600mm	
	0120 (1111)	(mm)	(((g)))) /	Juou /	1 dono	Empty	Batts**	Empty	Batts**	Empty	Batts**
Gyptone - Standard Range											
Hexagon 12mm	1200 x 2400	12.5	8.0	15.0%	Black	0.55	0.65	0.60	0.65	0.60	0.70
Square 12mm	1200 x 2400	12.5	8.0	16.0%	Black	0.55	0.70	0.65	0.70	0.65	0.70
Slotted Minigrid	1200 x 2400	12.5	8.0	13.0%	Black	0.45	0.60	0.60	0.60	0.55	0.60
Square 12mm Minigrid	1200 x 2400	12.5	8.0	6.0%	Black	0.35	0.40	0.40	0.40	0.40	0.45
Gyptone - Special Order Ra	inge*										
Hexagon 12mm Longboard	900 x 2700	12.5	8.0	17.6%	White	0.60	0.70	0.65	0.70	0.65	0.70
Slotted Longboard	900 x 2700	12.5	8.0	18.0%	White	0.55	0.65	0.65	0.65	0.60	0.60
Square 12mm Grid	1200 x 2400	12.5	8.0	10.0%	Black	0.50	0.60	0.55	0.65	0.55	0.65
Square 12mm Longboard	900 x 2700	12.5	8.0	18.0%	White	0.55	0.65	0.60	0.70	0.60	0.70

NRC Value Summary - Gyprock Standard Range (Full details on following pages)

	Sheet Sheet		Sheet with a			Plenum (Air Cavity)						
	Sheet Thicknes	Thickness	(kg/m ²)	Open	Acoustic Fabric	65mm		200mm		600mm		
	Gize (min)	(mm)	(((g))))))	Alca /0	Tabilo	Empty	Batts**	Empty	Batts**	Empty	Batts**	
Gyprock Standard												
6mm Round	1200 x 3600	13	7.8	8.3%	N/A	0.10	0.35	0.15	0.40	0.15	0.45	

 $^{\star}\mbox{Lead}$ time and minimum quantities apply, please consult your account manager for details.

Bold values in all tables are test report data. Non-bold values are acoustic predictions by PKA Acoustic Consulting. Values are for ceilings only. For wall values please contact DesignLINK.

**Batts denotes that 50mm Bradford glasswool batts (14kg/m³) were included in the cavity.



Eight large square groupings per sheet, each with 576 x 12mm hexagonal perforations at 20mm centres, providing a 15% open area. Supplied with a black acoustic fabric backing.

A 510mm x 510mm matching access panel is also available for flat format installations.



Standard Range

	Hexagon 12n 15% Open Ar	nm ea		So	und Ab	sorptic	on Coef	ficient	a _p		
Plenum	Plenum			Octave Band Centre Frequencies (Hz)							
(Air Cavity)	Insulation	α _w	NRC	125	250	500	1000	2000	4000		
	Empty	0.60	0.55	0.15	0.35	0.60	0.65	0.60	0.50		
65mm	50mm glasswool (14kg/m ³)	0.65	0.65	0.35	0.55	0.70	0.65	0.60	0.50		
	Empty	0.60	0.60	0.35	0.60	0.70	0.60	0.50	0.50		
200mm	50mm glasswool (14kg/m ³)	0.65	0.65	0.40	0.65	0.70	0.65	0.60	0.55		
	Empty	0.60	0.60	0.40	0.60	0.70	0.60	0.55	0.50		
600mm ह	50mm glasswool (14kg/m ³)	0.70	0.70	0.50	0.70	0.70	0.65	0.65	0.60		

Values are acoustic predictions by PKA Acoustic Consulting.





Gyptone Square 12mm (41)

Standard and Flexible options

Eight large square groupings per sheet, each with 400 x 12mm square perforations at 25mm centres, providing a 16% open area. Supplied with a black acoustic fabric backing.

A 510mm x 510mm matching access panel is also available for flat format installations.

Gyptone Square 12mm Flexible

Standard Range

	Square 12m 16% open ar	m ea		So	und Ab	sorptic	on Coe	fficient	a _p		
Plenum	Plenum		NEO	Octave Band Centre Frequencies (Hz							
(Air Cavity)	Insulation	α	NRC	125	250	500	1000	2000	4000		
	Empty	0.55	0.55	0.20	0.35	0.55	0.75	0.60	0.40		
65mm	50mm glasswool (14kg/m ³)	0.70	0.70	0.40	0.65	0.80	0.70	0.65	0.55		
	Empty	0.60(L)	0.65	0.60	0.70	0.75	0.55	0.55	0.55		
200mm	50mm glasswool (14kg/m ³)	0.70	0.70	0.65	0.70	0.70	0.65	0.65	0.60		
	Empty	0.65(L)	0.65	0.65	0.70	0.65	0.60	0.60	0.65		
600mm	50mm glasswool (14kg/m ³)	0.70	0.70	0.70	0.65	0.70	0.70	0.70	0.70		

Bold values are test report data conducted at the Auckland University acoustic laboratory that apply to the non-flexible options only. All other values are acoustic predictions by PKA Acoustic Consulting. (L) denotes excess performance at 250Hz

Gyptone Slotted Minigrid (6)

Standard and Flexible options

Eight large square groupings per sheet, each with 16 mini grids of six 6mm x 80mm slot perforations. This contemporary design provides 13% open area and is supplied with a black acoustic fabric backing.

A 510mm x 510mm matching access panel is also available for flat format installations.



25





Gyptone Slotted Minigrid Flexible

Standard Range

	Slotted Minig 13% open ar	ırid ea		So	und Ab	sorptio	on Coe	fficient	a _p
enum	Plenum	~	NDC	Octav	ve Ban	d Centi	re Freq	uencie	s (Hz)
(Air Cavity)	Insulation	uw	INNO	125	250	500	1000	2000	4000
	Empty	0.45	0.45	0.15	0.25	0.45	0.55	0.45	0.30
5mm	50mm glasswool (14kg/m ³)	0.55(L)	0.60	0.45	0.60	0.70	0.60	0.50	0.40
	Empty	0.50(L)	0.60	0.40	0.65	0.70	0.55	0.45	0.35
00mm	50mm glasswool (14kg/m ³)	0.55(L)	0.60	0.60	0.65	0.60	0.55	0.50	0.40
	Empty	0.50(L)	0.55	0.65	0.60	0.55	0.50	0.45	0.40
00mm	50mm glasswool (14kg/m ³)	0.60	0.60	0.65	0.55	0.60	0.60	0.55	0.45

Bold values are test report data conducted at the Auckland University acoustic laboratory that apply to the non-flexible options only. All other values are acoustic predictions by PKA Acoustic Consulting. (L) denotes excess performance at 250Hz





Gyptone Square 12mm Minigrid (47)

Eight large square groupings per sheet, each with nine mini grids of 16 x 12mm square perforations at 25mm centres. This subtle pattern provides an open area of 6% and is supplied with a black acoustic fabric backing.

A 510mm x 510mm matching access panel is also available.

Standard Range

	Square 12mm M 6% open are	inigrid a		Sound Absorption Coefficient ap							
Plenum	Plenum		NDO	Octa	ve Ban	d Centi	re Freq	uencie	s (Hz)		
(Air Cavity)	Insulation	α _w	NRC	125	250	500	1000	2000	4000		
	Empty	0.35	0.35	0.20	0.25	0.35	0.45	0.35	0.20		
65mm	50mm glasswool (14kg/m ³)	0.35(L)	0.40	0.35	0.45	0.50	0.40	0.30	0.25		
	Empty	0.35(L)	0.40	0.50	0.50	0.45	0.35	0.30	0.25		
200mm	50mm glasswool (14kg/m ³)	0.40(L)	0.40	0.55	0.50	0.45	0.40	0.30	0.30		
	Empty	0.40(L)	0.40	0.55	0.50	0.35	0.40	0.35	0.35		
600mm	50mm glasswool (14kg/m ³)	0.45	0.45	0.60	0.45	0.45	0.45	0.35	0.40		

Bold values are test report data conducted at the Auckland University acoustic laboratory that apply to the non-flexible options only. All other values are acoustic predictions by PKA Acoustic Consulting. (L) denotes excess performance at 250Hz

Gyptone Hexagon 12mm Longboard (65)

3 large square groupings per sheet, each with 1,521 x 12mm hexagonal perforations at 20mm centres, providing a 17.6% open area. Supplied with a white acoustic fabric backing.

The Longboard provides a bigger perforation area than the standard board which makes it ideal for creating a strong visual impact on projects with a higher distance from floor to ceiling, as well as better sound absorption.

A 510mm x 510mm matching access panel is also available for flat format installations.





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Special Order Range

Н	exagon 12mm Lo 17.6% Open A	ngboard rea		Sound Absorption Coefficient a_p							
lenum	Plenum			Octav	ve Ban	d Centi	re Freq	uencies	s (Hz)		
(Aır Cavity)	Insulation	α _w	NRC	125	250	500	1000	2000	4000		
	Empty	0.65	0.60	0.15	0.40	0.65	0.70	0.65	0.55		
5mm	50mm glasswool (14kg/m ³)	0.70	0.70	0.35	0.60	0.75	0.70	0.65	0.55		
	Empty	0.65	0.65	0.35	0.65	0.75	0.65	0.60	0.55		
00mm	50mm glasswool (14kg/m ³)	0.70	0.70	0.45	0.65	0.75	0.70	0.65	0.60		
	Empty	0.65	0.65	0.40	0.65	0.75	0.65	0.60	0.60		
00mm	50mm glasswool (14kg/m ³)	0.75	0.70	0.55	0.70	0.75	0.70	0.70	0.65		

Values are acoustic predictions by PKA Acoustic Consulting.





Gyptone Slotted Longboard (L5)

3 large square groupings per sheet, each with 49 mini grids of six 6mm x 80mm slot perforations. This contemporary design provides 18% open area and is supplied with a white acoustic fabric backing. The Longboard provides a bigger perforation area than the standard board which makes it ideal for creating a strong visual impact on projects with a higher distance from floor to ceiling, as well as better sound absorption.

Special Order Range

	Slotted Longb	oard		Sound Absorption Coefficient ap						
Plenum	Plenum	Cu		Octa	ve Ban	d Cent	re Freq	uencie	s (Hz)	
(Air Cavity)	Insulation	α"	NRC	125	250	500	1000	2000	4000	
	Empty	0.55	0.55	0.20	0.35	0.55	0.65	0.55	0.45	
65mm	50mm glasswool (14kg/m ³)	0.65	0.65	0.45	0.55	0.70	0.65	0.60	0.55	
	Empty	0.60(L)	0.65	0.50	0.65	0.70	0.60	0.55	0.50	
200mm	50mm glasswool (14kg/m ³)	0.65	0.65	0.60	0.65	0.65	0.60	0.60	0.55	
	Empty	0.60	0.60	0.65	0.60	0.60	0.60	0.55	0.50	
600mm 5	50mm glasswool (14kg/m ³)	0.65	0.60	0.65	0.55	0.65	0.65	0.60	0.60	

Values are acoustic predictions by PKA Acoustic Consulting. (L) denotes excess performance at 250Hz. (M) denotes excess performance at 500Hz, 1000Hz

Gyptone Square 12mm Grid (42)

32 small square groupings per sheet, each with 64 x 12mm square perforations at 25mm centres, providing a 10% open area. Supplied with a black acoustic fabric backing.

A 510mm x 510mm matching access panel is also available for flat format installations.

A 510mm x 510mm matching access panel is also available for flat format installations.









Special Order Range

	Square 12mm 10% Open Ar	Grid ea		So	und Ab	sorptic	on Coef	ficient	a _p			
enum	Plenum			Octave Band Centre Frequencies (Hz)								
(Air avity)	Insulation	α _w	NRC	125	250	500	1000	2000	4000			
	Empty	0.50	0.50	0.20	0.30	0.55	0.70	0.50	0.35			
5mm	50mm glasswool (14kg/m ³)	0.60	0.60	0.40	0.55	0.70	0.60	0.55	0.45			
	Empty	0.50(L)	0.55	0.35	0.60	0.65	0.50	0.45	0.35			
00mm	50mm glasswool (14kg/m ³)	0.60(L)	0.65	0.50	0.65	0.70	0.65	0.60	0.45			
00mm	Empty	0.55(L)	0.55	0.45	0.60	0.55	0.55	0.50	0.45			
	50mm glasswool (14kg/m ³)	0.70	0.65	0.55	0.55	0.70	0.70	0.65	0.55			

Values are acoustic predictions by PKA Acoustic Consulting. (L) denotes excess performance at 250Hz.

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Gyptone Square (43)

3 large square groupings per sheet, each with 1,024 x 12mm square perforations at 25mm centres, providing a 18% open area. Supplied with a white acoustic fabric backing.

The Longboard provides a bigger perforation area than the standard board which makes it ideal for creating a strong visual impact on projects with a higher distance from floor to ceiling, as well as better sound absorption.

A 510mm x 510mm matching access panel is also available for flat format installations.



Special Order Range

S	quare 12mm Lon 18% Open Ar		Sound Absorption Coefficient ap								
Plenum	Plenum		NIDO	Octa	ve Ban	d Cent	re Freq	uencie	s (Hz)		
(Air Cavity)	Insulation	α	NRC	125	250	500	1000	2000	4000		
	Empty	0.55	0.55	0.20	0.30	0.60	0.75	0.55	0.40		
65mm	50mm glasswool (14kg/m ³)	0.65	0.65	0.40	0.55	0.75	0.65	0.60	0.50		
	Empty	0.55(L)	0.60	0.45	0.65	0.65	0.50	0.50	0.45		
200mm	50mm glasswool (14kg/m ³)	0.65(L)	0.70	0.60	0.70	0.70	0.65	0.65	0.55		
	Empty	0.60(L)	0.60	0.55	0.65	0.60	0.55	0.55	0.55		
600mm	50mm glasswool (14kg/m ³)	0.70	0.70	0.65	0.60	0.70	0.70	0.70	0.65		

Values are acoustic predictions by PKA Acoustic Consulting. (L) denotes excess performance at 250Hz.

Standard 6mm Round

Six large rectangular groupings per sheet, each with 2,100 x 6mm diameter perforations at 15mm centres to provide an open area of 8.3%. This board is supplied with no acoustic fabric backing.

Standard 6mm Round is suitable for any room where moderate acoustic control and a simple design is required.



Standard Range

	Standard 6mm I 8.3% open a	Round rea			Absor	ption C	Coeffici	ent a _p			
Plenum	Plenum	~		Octave Band Centre Frequencies (Hz)							
(Air Cavity)	Insulation	α _w	INNO	125	250	500	1000	2000	4000		
	Empty	0.15	0.10	0.05	0.10	0.10	0.15	0.10	0.10		
65mm	50mm glasswool (14kg/m ³)	0.30	0.35	0.15	0.25	0.40	0.50	0.30	0.15		
	Empty	0.15	0.15	0.10	0.10	0.15	0.15	0.10	0.10		
200mm	50mm glasswool (14kg/m ³)	0.25(LM)	0.40	0.40	0.45	0.60	0.40	0.20	0.15		
600mm	Empty	0.15	0.15	0.20	0.15	0.15	0.10	0.10	0.10		
	50mm glasswool (14kg/m ³)	0.30(LM)	0.45	0.50	0.50	0.60	0.40	0.25	0.15		

These acoustic predictions are for standard 6mm Round perforated plasterboard without acoustic fabric. Installers may use a third party acoustic fabric to provide far higher levels of acoustic performance if required. (L) denotes excess performance at 250Hz (M) denotes excess performance at 500Hz, 1000Hz



Installation

Rigitone[™] accessories

The unique, seamless finish of Gyprock Rigitone is made possible by the use of a specialised primer, filler and installation tools.

While all four edges of the standard range of Rigitone boards are pre-primed and sanded, Rigitone Primer is used to prepare cut edges for jointing.

Pattern spacers are available to ensure boards with square edges are fixed with the exact gap required for jointing. Boards with the chamfered edge are designed to be butted directly next to each other, and so do not require a pattern spacer.

Rigitone joints are achieved using the Rigitone Filler sausage, dispensed with the Accessory Kit.

The Rigitone Accessory Kit includes the tools required to achieve the Rigitone system joint. From the barrel gun with proprietary nozzles that dispenses the filler accurately, to the screw head filler template and cleaning brush, this kit is an all-in-one installation solution.



Full installation details

can be found in Red **Book 3: Commercial** & Multi- Residential Installation Guide - Class 2-9 Buildings, available for download from gyprock.com.au under the Resources tab.

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. 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.

Gyptone[™] and Standard installation

Gyptone and Standard 6mm Round perforated plasterboard products are screw fixed to suspended concealed grid, or direct fixed to framing. The joints are finished with a three coat jointing system and sanded smooth prior to decoration. The sheets are installed with the long edges at right angles to the direction of the framing with maximum 600mm centres. Gyptone Flexible, unlike regular flexible plasterboard, is installed in one layer only and can be curved to a radius of 2.2m. Insulation is limited to 50mm thick and 14kg/m³ density.

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. Waterbased paints are required for boards that contain Activ'Air technology. Repainting will not impact the performance of Activ'Air.

Warranties

Gyprock products are designed to achieve optimal performance when part of a CSR integrated system.

CSR Building Products Limited warrants its Australian made Gyprock products to remain free of defects in material and manufacture for the usual lifetime of the product (25 years).

CSR warrants its International Alliance Gyprock products to remain free of defects in material and manufacture for 7 years.

us on 1300 306 556.



For details on our product warranty, please visit www.gyprock.com.au, or contact





DesignLINK™ Service

DesignLINK is a team of engineers and building design professionals working to support Gyprock and Cemintel product and system specification in projects across Australia. With impressive knowledge of the building industry, DesignLINK partners with clients to value-engineer, simplify system specifications and workshop complex design issues, delivering building performance while easing the way for builder and contractor.

Based at Gyprock's Research and Development Centre in Wetherill Park, New South Wales, the DesignLINK team is a driving force in Gyprock's innovation agenda, representing customer experience and bringing problem solving skills to the table. The Wetherill Park site houses Gyprock's NATA accredited laboratory and several test rigs, as well as being a manufacturing site for Gyprock and Cemintel products.

What does DesignLINK offer?

The DesignLINK service, offered to architects, engineers and other design professionals, includes phone support for enquiries, assistance with planning major projects, provision of complex testing data and supply of CAD files for increased productivity.

Phone and email support

All enquiries are handled with care. Where possible, we'll provide you with an answer on the spot, otherwise we'll escalate your enquiry to the most qualified team member.

Assistance with major projects

DesignLINK is available to support major projects, delivering performance and simplification. This service is offered in conjunction with your local Account Manager to ensure you receive the very best local knowledge, combined with DesignLINK's technical expertise.

System performance data

Fire, acoustic and thermal performance data is available for a wide variety of systems. Whether you're looking to prove performance or better understand the options available and what differentiates them, the team's thorough understanding of building requirements will have your query solved in no time. Looking for a bespoke solution? Our Acoustic and Thermal Predictors provide opinions based on hundreds of data points, saving time and money, and delivering a fast solution.

Contact the DesignLINK team

Call 1800 621 117 or email DesignLINK@csr.com.au





For more information about Gyprock[®] Perforated Plasterboard, call 1300 306 556 or visit gyprock.com.au

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