GYPTONE® BIG QUATTRO 41

Gypsum Plasterboard

PRODUCT DATA SHEET

INTRODUCTION

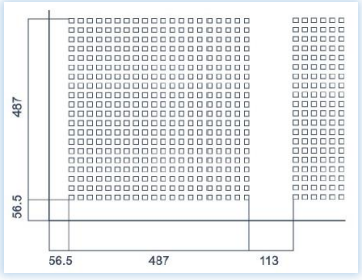
Gyptone® BIG Quattro 41 is a perforated gypsum acoustic board used in conjunction with CasoLine® ceiling, GypWall® or GypLyner® systems. It creates a monolithic surface in acoustic ceilings, islands or vertical wall absorbers where aesthetic design and reverberation control are desired.

PRODUCT DESCRIPTION

Gyptone® BIG Quattro 41 comprises a 12.5mm gypsum core, with a geometric array of 12mm hexagonal perforations. The reverse of the board incorporates an acoustic fleece which provides sound absorption performance. As with all products in the G Gyptone® range, Gyptone® BIG Quattro 41 supplied with ACTIV'air technology as standard, which absorbs and converts formaldehyde into non-harmful inert compounds.

Please refer below additional data:

Modular Size	1200x2400x12.5mm
Hole Size	12x12mm
Perforated area	16%



Surface : Painting is done on site after filling the joints. The boards are painted with a short hair roller.

Advantage: Four tapered edges help with quick and easy jointing and aesthetics.

Technical data: Accoustic performance NRC = 0.75.

BOARD PERFORMANCE

Sound absoption

Gyptone® boards provide sound absorption when used in conjunction with an air space behind the ceiling or wall. Tests have been carried out to BS EN 20354: 1993 and ISO 354: 1985.

The Single figure rating practical sound absorption coefficients αw, and sound absorption classes, are calculated in accordance with BS EN ISO 11654: 1997. The Noise Reduction Coefficient (NRC) is calculated in accordance with ASTM C423-90a: 1992.

ACTIV*air* technology

ThThough we don't notice them, impurities such as VOCs are often present in the air we breathe - emitted from furniture, carpets and building materials. Long-term exposure to these can potentially cause health problems and reduce general well-being. Clean air, on the other hand, can speed up patient recovery in hospitals, reduce absence at work, and increase pupils' concentration at school. ACTIV'air is our latest technology designed specifically to convert formaldehyde, a common VOC, into non-harmful inert compounds, removing up to 70% of the formaldehyde concentration in the indoor air. This clever technology continues to work over 50 years, and whilst alternative solutions absorb formaldehyde, they don't decompose like ACTIV'air risking re-emission at a later date.

Formaldehyde reduction is based on experimental data following ISO16000-23 standards from 0.4m² to 1.4m² installed/ m³ room. Lifetime is based on a calculation assuming constant formaldehyde reduction with indoor formaldehyde concentration of 25µg/m³ for ceiling, drywall or combined drywall and ceiling configurations.

CasoLine® CURVE

Gyptone® boards can be used in conjunction with the CasoLine® curve system to form a curved finish with a minimum radius of 6000mm.

Physical properties

Dimensions	2400mm x 1200mm
Thickness	12.5mm
Perforation size	12mm x 12mm square
Perforation spacing	20mm cc
Perforated area	16%
Edge type	4 tapered edge
Colour	Natural – painted on site
Reaction to fire	A2-s1, d0
Weight (approx.)	8kg/m²
Moisture resistance	Up to 70% RH

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Sound Absorption Performance

Practical absorption coefficient α_p

Suspension distance	Mineral Wool	Frequency						α_w value	NRC value	Absorption class
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz			
58 mm	45 mm	0.25	0.60	0.85	0.85	0.70	0.55	0.70	0.60	C
200 mm	-	0.40	0.65	0.80	0.60	0.55	0.55	0.65	0.60	C
400 mm	45 mm	0.60	0.75	0.80	0.80	0.75	0.75	0.80	0.70	B

APPLICATION AND INSTALLATION

Handling and storage

Manual off-loading of this product should be carried out with Gyptone® boards should be stored flat on a level surface and protected from dampness. To avoid damage to the special acoustic tissue bonded to the back face, Gyptone® boards should not be pulled over the edges of the stack of boards below.

Fixtures

Fixings to the system should always be made into the metal grid or to supplementary framing. Adjustment of the primary grid may be required to support particularly heavy loads. Refer to the Saint-Gobain Malaysia Sdn. Bhd. White Book for full design information regarding the relevant system.

Fixtures

Ensure that all required components, jointing equipment, accessories and tools are available prior to commencing installation of the board. Gyptone® boards have an untreated surface which should be primed using Gyproc ProTop™ Ready-mixed All Purpose Compound, then matt emulsion painted with a short hair paint roller. Do not use a spray system as this will affect the acoustic properties of the board.

For full instructions regarding installation of Gyptone® boards refer to the Saint-Gobain Malaysia Sdn. Bhd. Ceilings Installation Guide.

Environment

Gyptone® boards are unsuitable for use in areas subject to continuously damp or humid conditions above 70% RH, or in elevated temperatures consistently above 49˚C. They can be exposed to freezing temperatures without risk of damage.

Recyclability

Fix boards with decorative side out to receive joint treatment or a skim plaster finish. The gypsum core of Gyptone® boards is 100% recyclable.

MAINTENANCE

Gyptone® boards can be redecorated using a short haired roller and suitable matt emulsion paint. The paint should not be applied with a spray diffuser as this will impair the acoustic performance.

PRODUCT STANDARDS

All Saint-Gobain Malaysia Sdn. Bhd. gypsum ceiling products are manufactured under management systems which have been independently audited and certified as conforming with ISO 9001: 2001. All Gyptone® products conform to EN 14190: 2014 gypsum plasterboard from reprocessing - requirements and test methods.

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