

Gyptone® BIG™ Quattro 46

ACOUSTIC BOARD WITH
SQUARE PERFORATIONS

ACTIV
air

Characteristics



Activ'Air: Gyptone Activ'Air technology is designed to decompose formaldehyde emissions from emitting building materials, paint, furniture, carpets etc., into non harmful inert compounds. Gyptone Activ'Air ceilings can reduce formaldehyde concentrations with up to 70%.*



Sustainability: Gyptone acoustic ceilings are made of gypsum and carton. The carton is produced from recycled cardboard and paper. The used gypsum consists of natural gypsum in combination with recycled gypsum collected from construction sites and recycling centers.



Dimensional stability: Gyptone BIG should be installed and used in areas with a relative humidity not exceeding 70% for prolonged periods or temperature exceeding 45° C.



Installation: Gyptone BIG is suitable for direct or suspended screw fixing and the system is not demountable. See Gyptone BIG installation manual for further details.



Construction height: The smallest possible standard construction height with GK grid in one level is 145 mm including the board. For smaller construction heights contact your local Saint-Gobain company.



Surface: Gyptone BIG is supplied unpainted. The surface finish is done on site after jointing is completed. Ceilings must be painted with a short-haired roller. The boards must not be spray-painted as this considerably impairs sound absorption.



Maintenance: Repainting must be done with a short-haired roller. The tiles must not be spray-painted, as this impairs sound absorption.



Cleaning: Depends on the surface treatment.

* The effectiveness of the Activ'Air technology has been tested by the accredited Eurofins laboratory. The tests show that a Gyptone ceiling with Activ'Air reduces up to 70% of the formaldehyde in a controlled test environment.

Product Description

The Gyptone acoustic ceiling range is designed to improve a room's acoustic environment with optimized reverberation time and improved speech intelligibility in a given room, like in schools, kindergartens, offices, retail and the health sector. All Gyptone products are with the Activ'Air technology that will improve the indoor air quality by reducing the formaldehyde level.

The Gyptone BIG range includes many different perforation designs: Line 5-6, Sixto 63-65, Quattro 40-41-42-43-44-46-47-71 and Base 31-35 without perforation and acoustic performance, all with 4 tapered edges (edge B1).

Gyptone acoustic ceilings have durable and low maintenance surfaces with long lifespan and minimal maintenance costs. Gyptone acoustic ceilings are made from natural materials and contain no harmful substances.

A big part of Gyptone products are made of recycled gypsum and have some very strong sustainability properties. Used Gyptone products can be completely recycled in the production of new gypsum products.

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Edge B1

Consealed metal grid

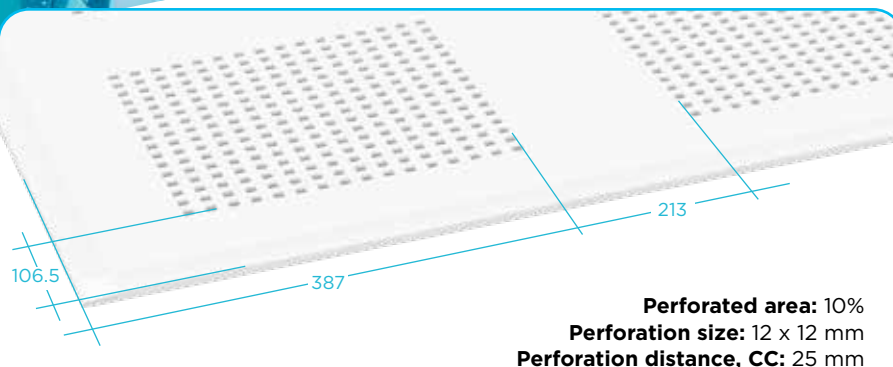


Edge B1

Consealed wooden beam

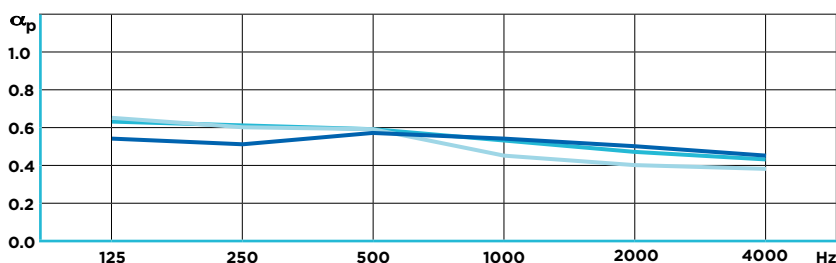


Technical Data	Value
Edge	Tapered edge on all four sides, edge B1
Modular size	1200 x 2400 mm (actual size: 1200 x 2400 mm)
Thickness	12.5 mm
Weight	Approx. 8 kg/m²
Colour	Unpainted
Fire performance	A2-s1, d0 (Reference standard EN 14190)



Acoustics

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	50 mm	0.63	0.61	0.59	0.53	0.47	0.43	0.55	0.55	D
	200 mm	-	0.65	0.60	0.59	0.45	0.40	0.38	0.45	0.50	D
	400 mm	50 mm	0.54	0.51	0.57	0.54	0.50	0.45	0.55	0.55	D

Acoustic Properties

The acoustic measurements meet the requirements of ISO 354. The construction height specifies the distance between the undersides of the suspended ceiling and the existing floor/ceiling construction. The sound absorption is affected by construction height and by any mineral wool installed behind them.



*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions)



Gyptone acoustic products are tested by Danish Indoor Climate Labelling and according to the French Health and Environmental Authority's labelling scheme. Used acoustic ceiling products can be fully recycled into the production of new gypsum products.

SAINT-GOBAIN

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