

# Gyptone® BIG™ Curve Quattro 41

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 Curve 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 Curve is suitable for direct or suspended screw fixing on curved constructions and the system is not demountable. See Gyptone BIG Curve installation manual for further details.



**Construction height:** The minimum construction height possible with rolled steel shapes depends on the chosen radius.



**Surface:** Gyptone BIG Curve is supplied with untreated surfaced and edge B1 on the long edges. The surface treatment is carried out on site after filling is complete. Boards are painted with a roller. They may not be spray painted, as this significantly impairs the 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 contribute to 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.

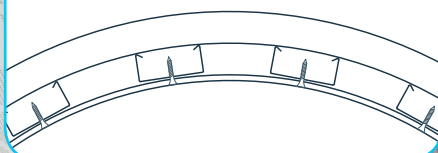
The Gyptone BIG Curve range includes 2 different perforation designs: Line 6 and Quattro 41, all with 2 tapered edges (edge B1) on the length of the boards. Gyptone BIG Curve provides the opportunity to create curved ceilings.

Gyptone acoustic ceilings are made from natural materials and contain no harmful substances.

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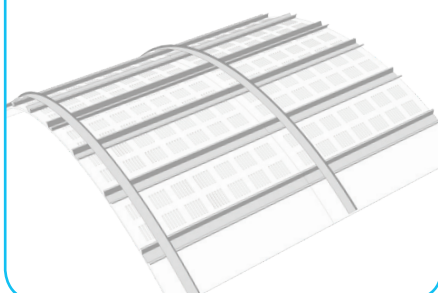
## Mounting system:

CasoLine MF ceiling system



## Mounting:

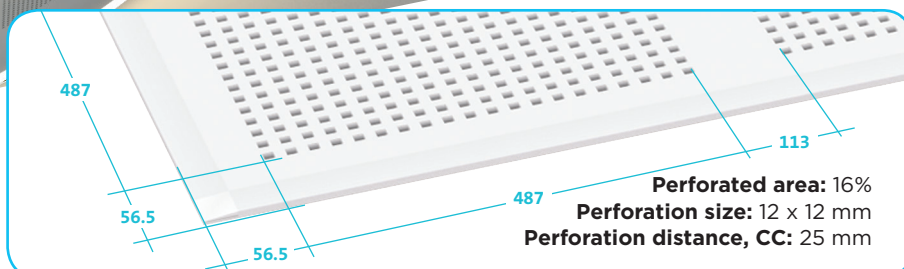
Gyptone BIG Curve is screw mounted to curved profiles and the boards are not demountable. Special screws for hard gypsum boards must be used.



## Bending ability:

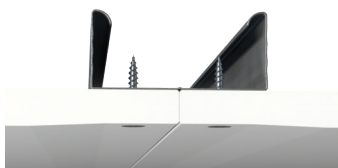
Gyptone BIG Curve can be dry bent down to a radius of 2.2 m.

Technical data	Value
Edge type	Tapered edge on the two long sides, edge B1
Modular size	1200 x 2400 mm (actual size: 1200 x 2400 mm)
Thickness	6.5 mm
Weight	Approx. 6.5 kg/m <sup>2</sup>
Colour	Unpainted
Reaction to Fire Classification	B-s1, d0 (in accordance with 13501-1)



## Edge B1:

Consealed metal grid



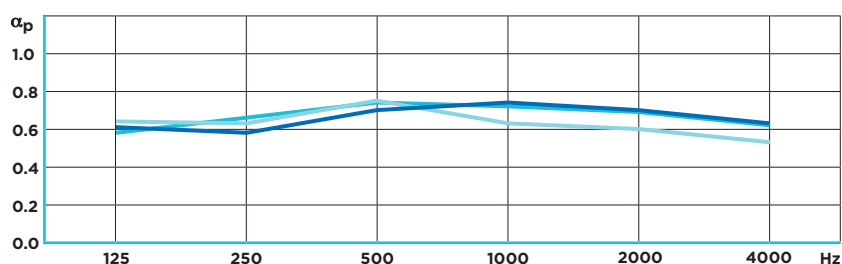
## Edge B1:

Consealed wooden beam



## Acoustics

Practical absorption coefficient  $\alpha_p$



	Suspension distance	Mineral Wool	Frequency						$\alpha_w$ value	NRC value	Absorption class
			125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz			
	58 mm	50 mm	0.58	0.66	0.74	0.72	0.69	0.62	0.70	0.70	C
	200 mm	-	0.64	0.63	0.75	0.63	0.60	0.53	0.65	0.65	C
	400 mm	50 mm	0.61	0.58	0.70	0.74	0.70	0.63	0.75	0.65	C

## Acoustic properties:

The acoustic measurements are obtained through testing in accordance with 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.

**SAINT-GOBAIN**

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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.