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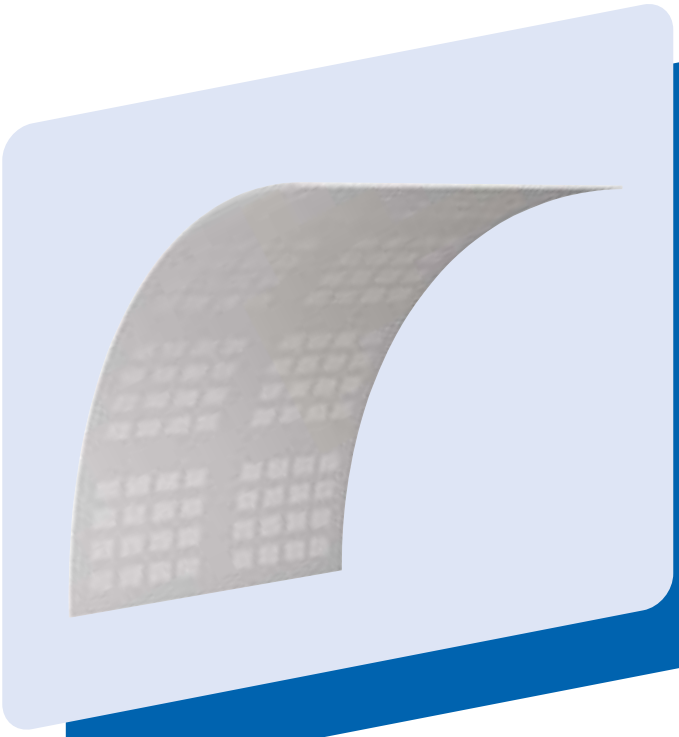

PRODUCT DATA SHEET

GYPTONE BIG™ CURVE LINE 6

Acoustic Board with Line Perforations

Product Description

The Gyptone acoustic ceiling range is designed to improve a rooms acoustic environment with optimised reverberation time and improved speech intelligibility in a given room, like in schools, kindergartens, offices, retail and the health sector. All Gyptone products is 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: BIG Line 6, Quattro 41, Quattro 46, Quattro 47 and Line 6 CURVE, 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 have durable and low maintenance surfaces with long lifespan and minimal maintenance costs. Gyptone acoustic ceilings are made from natural materials and contains no harmful substances.

The environmental impacts of Gyptone boards have been assessed over its whole life cycle. Its Environmental Product Declaration, EPD in accordance with *EN 15804* and *ISO 14025* and has been verified by an independent third party.

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 by up to 70%. Gyptone boards are compliant with LEED, BREEAM and the EU taxonomy for low VOC emissions by virtue of certification under M1 and Danish Indoor Climate Labelling.*

Sustainability: Gyptone acoustic ceilings are made of gypsum and carton and boards contain a minimum average of 25% recycled content. 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 centres.

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 shorthaired 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.

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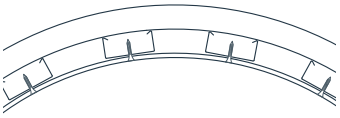
Mounting system

CD/GK-system

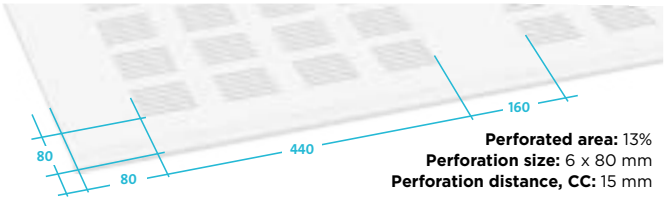


Mounting

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. Wet bend down to a radius of 1.2 m



Perforated area: 13%
Perforation size: 6 x 80 mm
Perforation distance, CC: 15 mm

STANDARD	PERFORMANCE
Tissue Colour	White
Edge Type	Tapered edge on the two long sides, edge B1
Modular Size	1200x2400mm
Thickness	6.5mm
Weight	Approx. 6.5 kg/m²
Colour	Unpainted
Fire Performance	B-s1, d0 (Reference standard: *EN 14190*)

Edge B1

Concealed metal grid

Edge B1

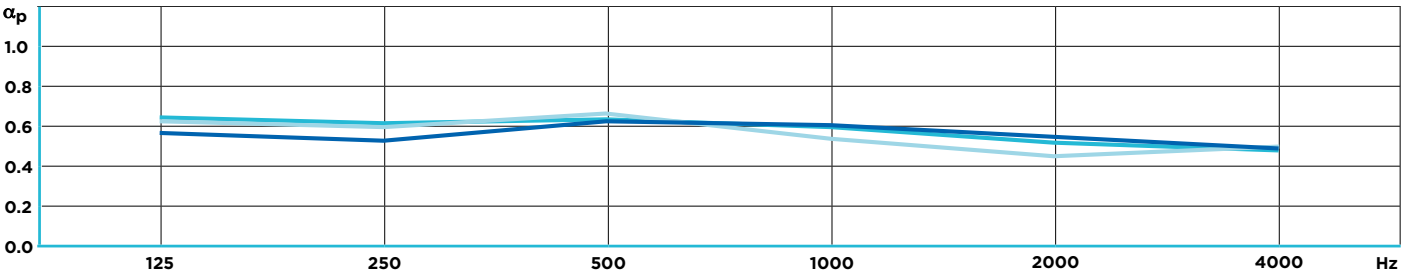
Concealed wooden beam

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.

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			
	58mm	50mm	0.64	0.61	0.61	0.59	0.51	0.47	0.55	0.55	D
	200mm	–	0.62	0.59	0.66	0.53	0.44	0.41	0.50	0.55	D
	400mm	50mm	0.56	0.52	0.62	0.60	0.54	0.48	0.60	0.55	C

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October 2023 | GYP_IRL_PDS_426_2022