

# Rigitone Activ'Air 12-20/66

ACOUSTIC BOARD FOR  
JOINT FILLER



## 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:** Rigitone acoustic ceilings are made of gypsum and carton. The carton is produced from recycled cardboard and paper. The used gypsum consists of natural gypsum.



**Dimensional stability:** Rigitone should be installed and used in areas with a relative humidity not exceeding 70% for prolonged periods or temperature exceeding 45° C. Max load is 3 kg/m<sup>2</sup>.



**Installation:** Rigitone is installed on a suspended GK-system in 2 levels, with screw fixing. Furthermore, the jointing is done with Rigitone Ready Mix filler. The system is not demountable. See Rigitone installation manual for further details.



**Construction height:** The smallest possible standard construction height with GK grid in 2 levels is 185 mm including the board.



**Surface:** Rigitone is supplied unpainted. The surface finish is done on site after jointing is completed. Ceilings must be painted with a shorthaired 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 boards 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 Rigitone ceiling with Activ'Air reduces up to 70% of the formaldehyde in a controlled test environment.*

## Product Description

The Rigitone acoustic ceiling range is designed to improve a rooms 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 Rigitone products is with the Activ'Air technology that will improve the indoor air quality by reducing the formaldehyde level.

The Rigitone range includes many different perforation designs: 8-15-20, 8-15-20 Super, 8/18, 12-20/66, 8/18Q and 12/25Q, all with 4 straight, primed and sanded edges (edge A1). To the backside of each Rigitone boards, there is glued a white acoustic tissue. Rigitone acoustic ceilings have durable and low maintenance surfaces with long lifespan and minimal maintenance costs. Rigitone acoustic ceilings are made from natural materials and contains no harmful substances.

Used Rigitone products can be completely recycled in the production of new gypsum products.

# Rigitone Activ'Air 12-20/66

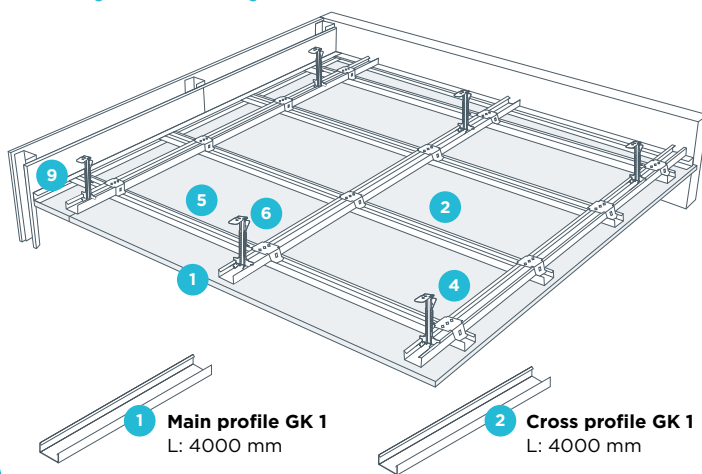
## Edge A1:

Consealed metal grid



Technical data	Value
Edge	Straight edge A1 on all four sides, sanded and primed from production
Modular size	1188 x 1980 mm (actual size: 1184 x 1979 mm)
Thickness	12.5 mm
Weight	Approx. 8-10 kg/m <sup>2</sup> depending of perforation
Colour	Unpainted
Fire performance	A2-s1, d0 (Reference standard EN 14190)
Perforation	Round 12 + 20 mm, cc. 66 mm - Area 20.2%

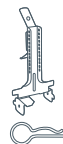
## Always use GK-system in 2 levels



**3 Connector**  
GK 20



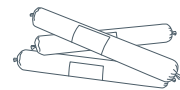
**4 Jointing plate**  
GK 22



**5 Suspension Strap**  
GK 26-27 - base  
including 2 pcs. Clips



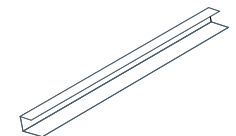
**6 Suspension Strap**  
GK 27 - top  
Lenght: 135/200/  
300/500/1000 mm



**7 Rigitone Ready Mix**  
600 ml bag for filler gun.



**8 Screw type QSTR 25**  
Installation of Rigitone  
on metal framing



**9 Perimeter channel GK-C**  
L: 3000 mm

**1 Main profile GK 1**  
L: 4000 mm

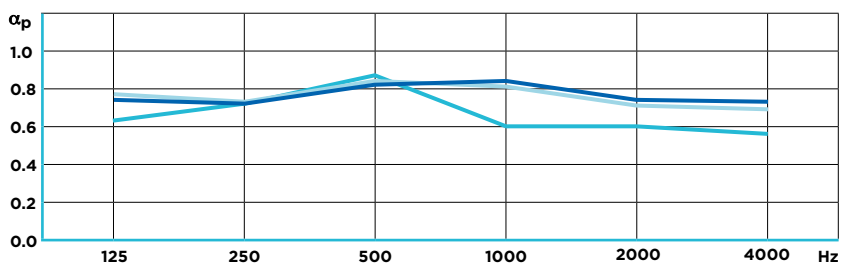
**2 Cross profile GK 1**  
L: 4000 mm

## 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  $\alpha_p$



Suspension distance	Mineral Wool	Frequency							$\alpha_w$ value	NRC value	Absorption class
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz				
200 mm	-	0.63	0.72	0.87	0.60	0.56	0.55	0.60	0.70	C	
200 mm	50 mm	0.77	0.73	0.84	0.81	0.71	0.69	0.80	0.80	B	
400 mm	50 mm	0.74	0.72	0.82	0.84	0.74	0.73	0.80	0.75	B	

**SAINT-GOBAIN**

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\*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)