

PLAKA - PYRAMIS MH

Sound absorber with a knobbed surface

REF 12.12.16 - Version V01 - 24/08/2020


Description

Plaka Pyramis MH is a pyramid shaped broadband absorber made of Plaka Plano, a flexible, open-cell foam material made from melamine resin. Its typical feature is the filigree, spatial network structure, which is formed by slim and thus easily ductile fillets. Plaka Plano offers a wide spectrum of attractive characteristics, e.g. it is highly sound absorbing and light weight.

Application fields

Plaka Pyramis MH has many applications in the acoustics field, especially in sound studios, HiFi range, open plan offices, production and multipurpose halls as well as event venues. Plaka Pyramis MH, if properly applied, is capable of drastically reducing sound level and reverberation time in halls, for instance.

Properties

Plaka Pyramis MH is chemically resistant to many substances. It does not contain halogenated hydrocarbons and complies with the RoHS directive.

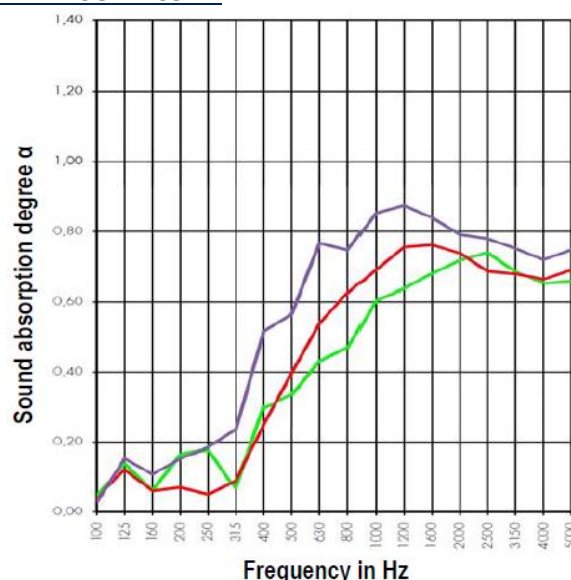
Mechanical properties		
Absorber	Plaka Plano melamine resin foam	
Fire resistant properties	B1 – flame-retardant	DIN 4102-1
Raw density	5,5 – 10,5 kg/m ³ , depending on colour	EN ISO 845
Tensile strength	>100 kPa	ISO 1798
Elongation at break	>18 %	ISO 1798
Compressive strength	>5 kPa	EN ISO 3386-1
Thermal conductivity	$\lambda \leq 0,04$ W/(mK), depending on temperature	DIN EN 12667

Sound absorption degree of Plaka Pyramis MH according to DIN EN ISO 11 654 2

Plaka Pyramis MH, dimension 1000x500mm

Volume of the room: 75 m²
 Absorber surface: 4,5 m²
 Date of measurement: Sept. 10, 2009
 Acoustic noise for test: pink noise
 Receive filter: third filter
 Number of absorbers: 9 units 1m x 0.5m

Measurement and analysis:
 Bauphysik! Ingenierbüro, Bolzweg 26, 73035 Göppingen



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Frequency [Hz]	125	250	500	1000	2000	4000
Thickness 30 mm, base height 15 mm						
Absorption degree α_s	0.14	0.18	0.33	0.60	0.72	0.65
Reduction of sound pressure level in the reverberation room [dB]	1.66	1.60	2.23	2.79	2.56	1.86
Thickness 50 mm, base height 15 mm						
Absorption degree α_s	0.12	0.05	0.40	0.69	0.74	0.66
Reduction of sound pressure level in the reverberation room [dB]	1.46	0.51	2.55	3.08	2.62	1.88
Thickness 70 mm, base height 35 mm						
Absorption degree α_s	0.15	0.19	0.56	0.85	0.80	0.72
Reduction of sound pressure level in the reverberation room [dB]	1.79	1.62	3.29	3.57	2.76	2.01

Dimensions
Plaka Pyramis MH

Material dimensions			
1000x500x30mm	Base height 15mm	Pyramid height 15mm	
1000x500x50mm	Base height 15mm	Pyramid height 35mm	
1000x500x70mm	Base height 35mm	Pyramid height 35mm	

Plaka Pyramis Plana MH

Material dimensions			
1000x500x30mm	Base height 15mm	Pyramid height 7mm	
1000x500x50mm	Base height 15mm	Pyramid height 17mm	
1000x500x70mm	Base height 35mm	Pyramid height 17mm	

Furthermore, the following types of both variants are available:

Plaka Pyramis and Plaka Pyramis Plana with self adhesive coating

 Plaka Pyramis MH with heavy foils Plaka Vibra heavy (5 and 8 kg/m²) and with self adhesive coating

Attention! Important Note:

The information above is based on the best present knowledge of current technology, but do not guarantee faultless processing of our products. The information is based on practical results of our tests, but is not binding and does not constitute warranties of characteristics in terms of Federal Supreme

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