

## NOISEflex® Pyramis MH

That sound absorption in rooms can be very important, is fact among acousticians. Noiseflex® Pyramis MH are pyramid shaped broadband absorbers made of Noiseflex® MH. They can produce an improvement of room acoustics mainly at medium and high frequencies. Noiseflex® MH is 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. Noiseflex® MH offers a wide spectrum of attractive characteristics, e. g. it is highly sound absorbing and light weight. These acoustic advantages of Noiseflex® MH are behind the many applications of Noiseflex® Pyramis MH in the field, especially in sound studios, HiFi range, open plan offices, production and multipurpose halls as well as event venues. Noiseflex® Pyramis MH, if properly applied, is capable of drastically reducing sound level and reverberation time in halls, for instance.



STANDARD  
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### Physical characteristics:

Noiseflex® Pyramis MH are chemically resistant to many substances. They do not contain halogenated hydrocarbons and comply with the RoHS directive.

### Technical Data:

Absorber	Noiseflex® MH Melamine resin foam	
Fire resistant properties	B1 – flame-retardant	DIN 4102-1
Raw density	7 – 10.5 kg / m <sup>3</sup> , depending on colour	EN ISO 845
Tensile strength (average value)	> 100 kPa	ISO 1798
Elongation at break (average value)	> 18 %	ISO 1798
Compressive strength (average value)	> 5 kPa	EN ISO 3386 – 1
Thermal conductivity	$\lambda \leq 0.04 \text{ W / (m}\cdot\text{K)}$ , depending on temperature	DIN EN 12667

### Colours:

Noiseflex® Pyramis MH absorbers are available in the following colours as standard:



grey

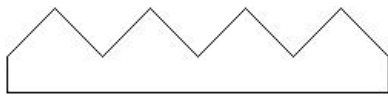


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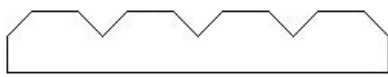
Due to product properties, variations in colour and pore size and structure may occur.

### Design and dimensions:

#### Noiseflex® Pyramis MH

1000 x 500 x 30 mm	base height 15 mm	pyramid height 15 mm		↕ pyramid height
1000 x 500 x 50 mm	base height 15 mm	pyramid height 35 mm		↕ base height
1000 x 500 x 70 mm	base height 35 mm	pyramid height 35 mm		

#### Noiseflex® Pyromo MH

1000 x 500 x 22 mm	base height 15 mm	pyramid frustum 7 mm		✕ pyramid frustum
1000 x 500 x 32 mm	base height 15 mm	pyramid frustum 17 mm		↕ base height
1000 x 500 x 52 mm	base height 35 mm	pyramid frustum 17 mm		

Furthermore, the following types of both variants are available:

Noiseflex® Pyramis and Noiseflex® Pyromo with self adhesive coating

Noiseflex® Panino MH with heavy foils Noiseflex® Vibra heavy (5 and 8 kg / m<sup>2</sup>) and with self adhesive coating

### Processing instructions:

The dust arising when processing, e.g. when sawing and milling, it should be drawn off immediately at the cutting site. It is recommended to wear a dust mask during these operations.

The material's moisture content is altered depending on the environmental conditions.

Dimension modifications are associated with this similarly as is the case with wood, concrete or clay brick. This behavior has to be considered when converting. The foam sections packed in the manufacturing state have to be unpacked **at least 3 – 5 days** prior to converting them and intermediately stored under climatic conditions that match those of the later intended use.

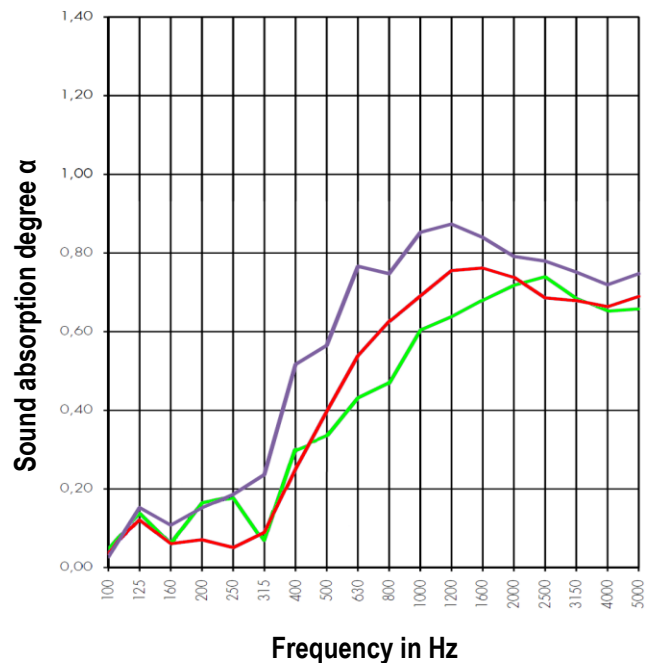
For full surface gluing of Noiseflex® Pyramis MH onto walls or ceilings we recommend our BOSIG Acoustic Adhesive. Please observe the technical instruction sheet specifications and the processing notes of BOSIG Acoustic Adhesive. Particularly sheets, pyramids or other cuts made of Noiseflex® MH shall be installed with continuous joints. Displacements are to be avoided. Or with a shadow gap of 10 to 20 mm, for achieving an optimal appearance.

### Sound absorption degree of Noiseflex® Pyramis MH according to DIN EN ISO 354

Noiseflex® Pyramis MH, dimension 1000 x 500 mm

Volume of the room: 75 m<sup>3</sup>  
 Absorber surface: 4.5 m<sup>2</sup>  
 Date of measurement: Sept. 10, 2009  
 Acoustic noise for test: pink noise  
 Receive filter: third filter  
 Number of absorbers: 9 pyramids

Measurement and analysis  
 Bauphysik! Ingenieurbüro, Bolzweg 26, 73035 Göppingen



Frequency [Hz]	125	250	500	1000	2000	4000
Thickness 30 mm, base height 15 mm <span style="color: green;">—————</span>						
Absorption degree $\alpha_s$	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 <span style="color: red;">—————</span>						
Absorption degree $\alpha_s$	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 <span style="color: purple;">—————</span>						
Absorption degree $\alpha_s$	0.15	0.19	0.56	0.85	0.79	0.72
Reduction of sound pressure level in the reverberation room [dB]	1.79	1.62	3.29	3.57	2.76	2.01

### Attention! Important Note:

Above information are based on 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 Court jurisdiction. Our information does not constitute a legally binding assurance of certain properties or suitability for a specific purpose. Supplementary information by our specialists are merely recommendations, for which no liability is accepted.

Due to the many possible applications of our products, we recommend subjecting the project to a thorough suitability test on original materials before release for further application. Since our information are non-binding we do not warranty their correctness. For this reason we accept no liability for possible improper processing based on information submitted by our employees.

This technical data sheet replaces all previous versions and is valid until a new version is issued, or until Dec. 31, 2024. Please request the latest version after Jan. 01, 2025.

Dr. Hermann, Anwendungstechnik / Application Technology, Gingen / Fils