Technical Information

Noiseflex® Proof MH Fleece

It has been known in practice for some time that sound absorption can play a major role in many rooms and applications. Noiseflex® Proof MH Fleece comes in the form of plate-shaped broadband absorbers made of Noiseflex® MH, that are surface-coated on one side with a sound-conducting, oil- and water-resistant fleece.
This layer makes Noiseflex® Proof MH Fleece also suitable for sound insulation in connection with machinery, electrical substations, air conditioning and sheet metal-clad systems. The product is also especially appropriate for the soundproofing of thin sheet metal cladding used in automotive construction.
Noiseflex® MH is a flexible, open-pore foam made of melamine resin. Characteristic of it is the filigree, spatial mesh structure, formed by slender, easy to deform ribs. Noiseflex® MH offers a broad range of attractive properties. Particularly outstanding in terms of its quality are its high sound absorption capacity and low weight.

Physical properties:
Noiseflex® MH is chemically resistant to many substances and does not contain halogenated hydrocarbons.

Technical data:

Absorber	Noiseflex® MH melamine resin foam	
Coating	hydrophobic and oleophobic fleece, approx. 100 g/m²	
Bulk density	7 – 10.5 kg/m³, depending on the colour	EN ISO 845
Tensile strength of the basic foam	> 100 kPa	ISO 1798
Elongation at break of the basic foam	> 18%	ISO 1798
Compression hardness of the basic foam	> 5 kPa	EN ISO 3386 – 1
Thermal conductivity	λ ≤ 0,035 W / (m·K), depending on temperature	DIN EN 12667
Fire behaviour of the basic foam	B1 – flame retardant (Noiseflex® MH)	DIN 4102-1
Burning rate of the entire product	< 100 mm / Min.	FMVSS 302 / ECE R 118 Anh. 6

Depending on the product, colour deviations and differences in terms of the pore structure and size may occur.

Standard formats:

Abmessungen [mm]	**As Noiseflex® Proof MH Fleece white / grey**
1000 x 500 x 10	
1000 x 500 x 20	
1000 x 500 x 30	
1000 x 500 x 40	
1000 x 500 x 50	

We will be pleased to supply you with other customised two-dimensional formats on request.

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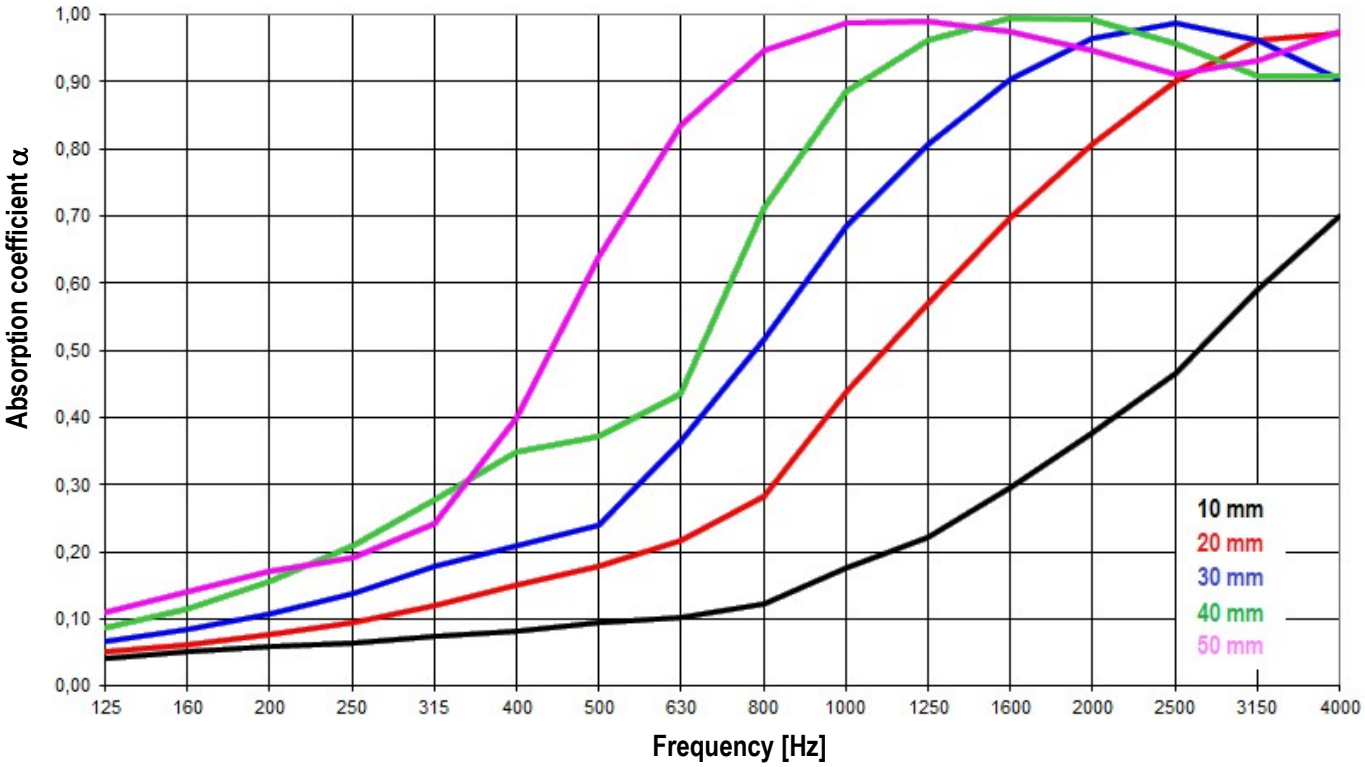
Application instructions:
The dust generated during processing, e.g. when sawing and milling, should be extracted directly at the cutting surface. Wearing a dust mask is recommended for carrying out such work.
Due to the sorption behaviour of the melamine resin in connection with the open-pored structure of the foam, the moisture content of the material can change depending on the ambient conditions. This involves dimensional changes, similar to those that can occur in the case of wood, concrete or clay bricks. This behaviour has to be taken into consideration during processing.
The foam sections, in packaged condition at delivery, must be unpacked and stored temporarily under the climatic conditions complying with those of their later use at least 3 – 5 days prior to actual application. This is vitally important so as to prevent undesired dimensional changes of the material in terms of length, width and thickness later on.
For full-surface bonding of Noiseflex® Proof MH Fleece, we recommend use of our BOSIG Acoustic Adhesive. Please observe the information provided in the technical data sheets and instructions for use of BOSIG Acoustic Adhesive
In addition, depending on actual application, the use of other self-adhesive systems is possible.
When mounting plates or cut sections of Noiseflex® Proof MH Fleece, we recommend ensuring abutting joints with no offsetting or providing shadow gaps of a width of 10 to 20 mm to obtain an optimum appearance.

Sound absorption level of Noiseflex® Proof MH Fleece in an impedance tube as per DIN EN ISO 10534-2:

Frequency [Hz]	Noiseflex® Proof MH Fleece 10 mm	Noiseflex® Proof MH Fleece 20 mm	Noiseflex® Proof MH Fleece 30 mm	Noiseflex® Proof MH Fleece 40 mm	Noiseflex® Proof MH Fleece 50 mm
125	0.04	0.05	0.07	0.09	0.11
160	0.05	0.06	0.08	0.11	0.14
200	0.06	0.08	0.11	0.15	0.17
250	0.06	0.10	0.14	0.21	0.19
315	0.07	0.12	0.18	0.28	0.24
400	0.08	0.15	0.21	0.35	0.40
500	0.09	0.18	0.24	0.37	0.64
630	0.10	0.22	0.37	0.43	0.83
800	0.12	0.28	0.52	0.71	0.95
1000	0.18	0.44	0.68	0.89	0.99
1250	0.22	0.57	0.81	0.96	0.99
1600	0.30	0.70	0.90	0.99	0.98
2000	0.38	0.81	0.97	0.99	0.95
2500	0.47	0.90	0.99	0.96	0.91
3150	0.59	0.96	0.96	0.91	0.93
4000	0.70	0.97	0.90	0.91	0.98

Sound absorption level of Noiseflex® Proof MH Fleece in an impedance tube as per DIN EN ISO 10534-2:



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, 2026. Please request the latest version after Jan. 01, 2027.

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