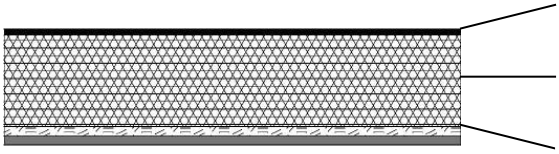
Technical Information

Noiseflex® Proof Vario

Description:
Noiseflex® Proof Vario are slab-shaped sound absorbers made of polyurethane foam material. These sound absorber boards are available in 10 to 50 mm thicknesses and may optionally be layered with a polyurethane-based foil for surface protection and/or an additional self-adhesive system.

Construction of Noiseflex® Proof Vario:



Optional:
PU protective foil

Noiseflex® sound absorber foam material

Optional:
Self-adhesive layer with siliconized cover foil

Technical data:

Foam material		Polyurethane ether-based soft foam	
Standard thicknesses		10 mm, 15 mm, 20 mm, 25 mm, 30 mm, 40 mm, 50 mm others on request	
Density		23 – 28 kg / m³	ISO 845
Compressive resistance CV 40		3.15 – 3.85 kPa	ISO 3386 / 1
Tensile strength		> 110 kPa	ISO 1798
Ultimate elongation		> 130 %	ISO 1798
Compression set at 22 h, 70 °C, 50 %		< 7 %	ISO 1856
Fire behaviour at 13 mm thickness		≤ 100 mm / Min.	FMVSS 302
Temperature resistance		- 40 °C to + 120 °C	
Smell test		≤ 3	VDA 270 C3
Fogging behaviour		≤ 1.0 mg	
Protective foil		Polyurethane-based covering foil	
Foil thickness		25 ± 5 µm	ISO 4593:1993
Melting range on the surface		148 – 152 °C	UNI EN ISO 11357 – 1
Tensile strength	lengthwise	> 25 MPa	ISO 527 – 3 / 2 / 200
	transverse	> 25 MPa	
Elongation at break	lengthwise	> 500 %	ISO 527 – 3 / 2 / 200
	transverse	> 500 %	
Tear resistance	lengthwise	k. A.	DIN 53519 / 90
	transverse	k. A.	

All the values listed above refer to the PU foil as a raw product. These values may change after application on the sound absorber foam (laminating).

Self adhesive layer:

Base	Acrylic acid ester polymer dispersion	
Temperature resistance	- 40 °C to + 105 °C	
Resistance against softeners	good	
Fire behaviour	FMVSS 302 compliant on flame-protected foam material	
Adhesion on painted sheet metal	3.5 N / cm	DIN 53357 – A
Order volume	97 + 15 / - 10 g / m²	Dry weight
Cover material	siliconized cover foil	

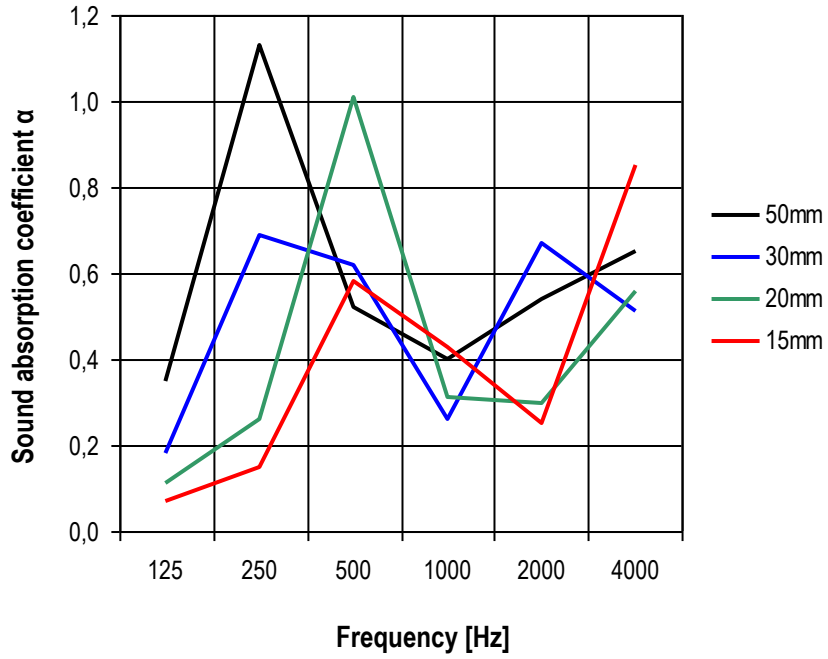
The self-adhesive layer is low-odour and has very low sensitivity to water. It does not contain any solvents after application to the substrate.

BOSIG GmbH D – 73333 Gingen, Brunnenstraße 75 - 77 Telephone +49(0)7162-40 99-0 Fax +49(0)7162-40 99-200 www.bosig.de
info@bosig.de

Processing instructions:
In order to achieve a proper adhesion, the substrate has to be dry and free of dust, oil and grease as well as sustainable.
In the case of metals and plastics a cleaning with one of our cleaners is recommended. The subsurface is to be checked for conformity with the cleaner / the self-adhesive coating.
Proceed carefully when adhering, since a subsequent correction is not possible after the self-adhesive coating has come into contact with the subsurface. While processing pay attention to sufficient application of pressure while avoiding trapped air.
During installation, never stretch the product.

Storage:
Store in original packaging tightly closed, dry at temperatures of + 15 °C to + 25 °C with no exposure to direct sun light.
Shelf life is at least 12 months.

Sound absorption capacity
(measured in the reverberation room)



Frequency [Hz]	Sound absorption coefficient α			
	15 mm	20 mm	30 mm	50 mm
125	0.07	0.11	0.18	0.35
250	0.15	0.26	0.69	1.13
500	0.58	1.01	0.62	0.52
1000	0.43	0.31	0.26	0.40
2000	0.25	0.30	0.67	0.54
4000	0.85	0.56	0.51	0.65

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

BOSIG GmbH D – 73333 Gingen, Brunnenstraße 75 - 77 Telephone +49(0)7162-40 99-0 Fax +49(0)7162-40 99-200 www.bosig.de info@bosig.de