ISOLFON Whisper

Sound Absorbing Polyethylene Foam

ISOLFON - Whisper : Closed cell honeycomb polyethylene foam, that effectively traps sound and reduces the reverberation time.

ISOLFON - Whisper is a closed cell polyethylene foam in slabs which has cells that are subsequently opened through the manufacturing process, resulting in a highly efficient sound absorbent material with many unique

The product can be supplied in 2 different types according to fire resistance:

- ISOLFON-Whisper **FR** (fire rating according to DIN 4102:B1, EN 13501-1 B, S2 d0)

Color: White and black

- ISOLFON-Whisper **DB** (fire rating FMV SS 302)

Color: Grey

For outdoor applications please contact us

TECHNICAL CHARACTERISTICS

Slab Dimensions:	120x240 cm
Thickness:	50 mm standard 20 25 & 40mm upon request
Color:	White / black for FR and Grey for DB
Fire Resistance:	For FR type: DIN 4102:B1, EN 13501-1 B, S2 d0 For DB type: FMV SS 302
Characteristics:	Moisture resistant, High sound absorption, low weight, easy fabrication/ converting, no need for water shield, fiber free,Self standing / structurally independent, washable surface, fire retardant

ADVANTAGES

High Sound Absorption:	The form of the closed cell laminated polyethylene foam, provides excellent acoustical properties.
Water Resistant:	Provides unaltered and sustained performance in wet or humid conditions.
Fire Reaction:	Meeting all the typical required Fire Norms with in: Transportation, Industrial vehicles, Marine, Trains, Appliances & Electronics, Building and Construction.
Low installation costs:	Due to the light weight and its self supporting structure – it is very easy to be cut and be install on site.

ISOLFON-Whisper **FR**

ISOLFON Whisper *Sound Absorbing Polyethylene Foam*

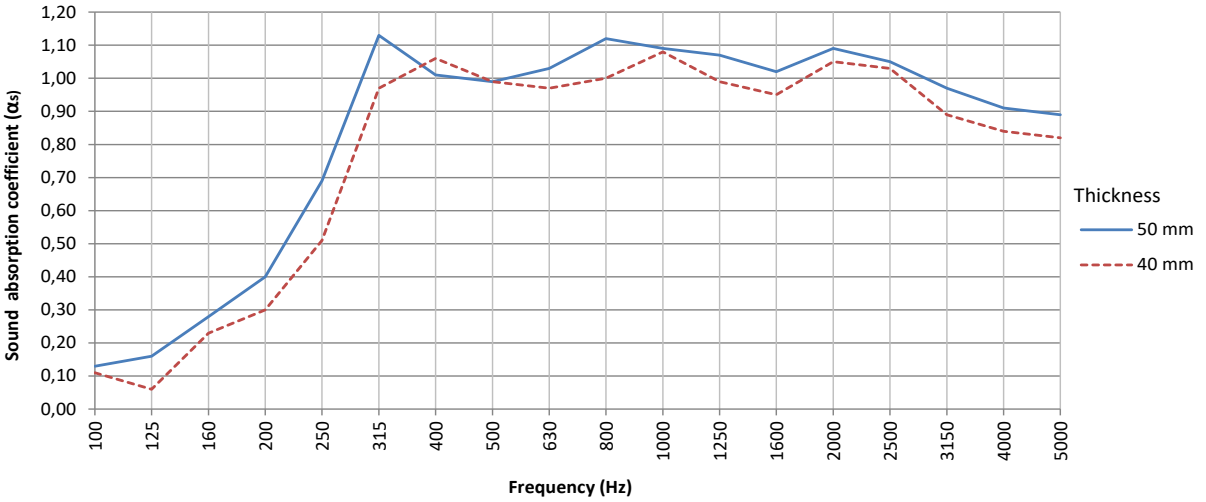
APPLICATIONS

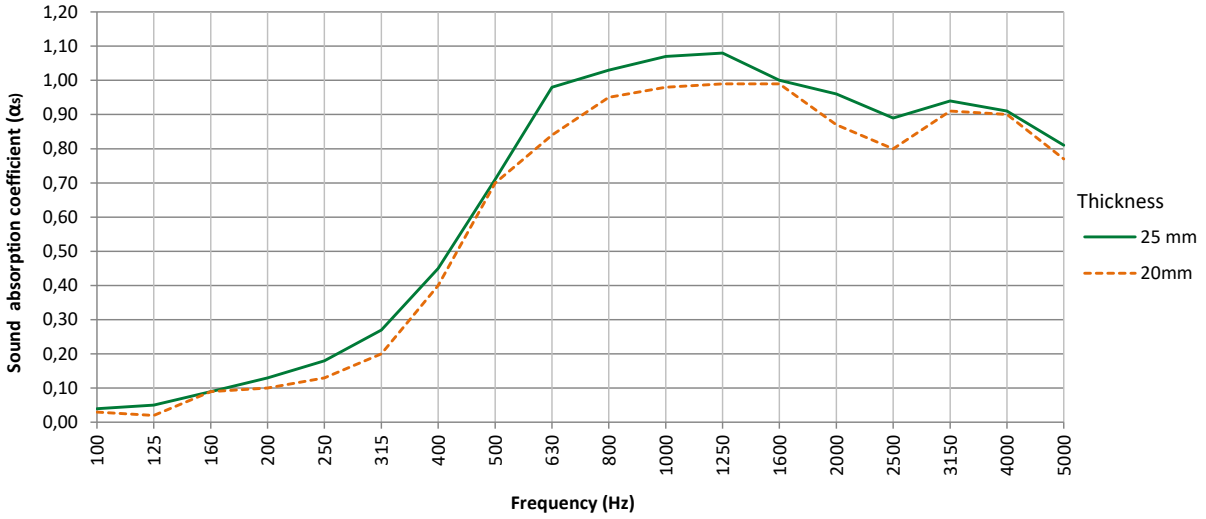
Sound absorption in recording studios, home cinemas, night clubs, restaurants, indoor pools, gyms, car washing tunnels, shooting ranges, sports halls etc. It can also be applied as ceiling vertical baffles, high speed rail/motorway Noise barriers, internal air-ducts lining, ventilation and air conditioning – sound attenuators/ silencers specially where there is high humidity, etc. Moreover, it can be installed as self-supporting panels with mechanical support (expandable anchors with suitable washers) or liquid or spray magnetic adhesive. It is very easy to cut with a blade or a suitable saw.

Typical applications

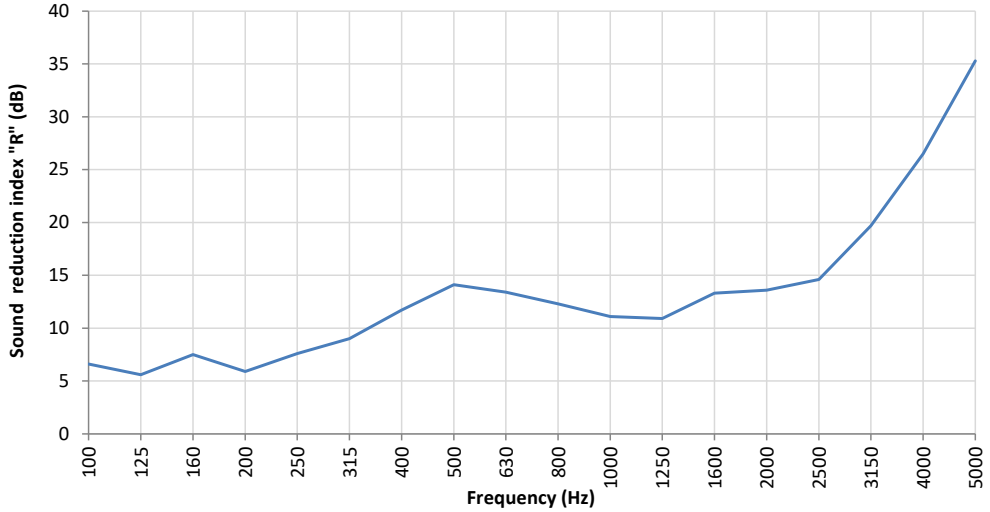
Acoustic properties

Reverberation Room Results according to EN ISO 354





Sound Reduction Results according to EN ISO 140 & ISO 717.1



Rw=13 dB

for thickness 50 mm

Certified by Institute Giordano S.p.A.

More applications

Technical specifications

Physical Properties	Test Method	Unit	Typical Physical Properties
Nominal Density	ASTM D3575-08 Suffix W ISO 845:2006	Kg/m^3	25
Compressive Strength Vertical @ 25%	ASTM D3575-08 Suffix D ISO 7214:2007	KPa	7 12
Compressive Strength 25% (4th compression) 50% (4th compression) 70% (4th compression) (100mm/min compression speed)	ISO 3386 1986 part 1 DIN 53577	KPa	3 7 25
Compression Set	ASTM D3575-08 Suffix B (50% Compression) ISO 1856:2000 (25% compression)	%	< 30 < 20
Cell Size	BS 4443/1 Met.4	Cells/25mm	< 10
Fire-test-response Characteristics (1) Transportation Automotive Building & Construction	TS EN 45545-2 NF F 16-101 DIN 54837 FMVSS 302 DIN 4102 EN 13501-1	Class Class - Class Class	HL2 for flooring. HL1 for ceiling and wall. F1 S3, SR2, ST2 Pass B1
Water Pick Up by Diffusion (RH > 95% - after 28 days)	UNI EN 12088	Kg/m2	< 3
Water Pick Up by Diffusion (RH > 95% - after 28 days)	UNI EN 12088	Volume %	< 5
Thermal Conductivity @ 23°C @ -5°C	ASTM D3575-08 Suffix V ISO 8301	W/mK	0.104 0.082
Thermal stability (24hrs at 70°C)	ASTM D3575-08 Suffix S ISO 2796	%	< 3
Tensile Strength @ Peak	ASTM D3575 Suffix T ISO1798	KPa	130
Tensile Elongation	ASTM D3575 Suffix T ISO1798	%	60
VOC Emissions	AFNOR NF EN ISO 16000-9	Class	A+

(1) These numerical laboratory fire-test-response characteristics are not intended to reflect hazards presented by this material under actual fire conditions.

NOTICE: While values shown are typical of this product, they should not be construed as specification limits.
User should test each application to determine suitability of the product for the intended use.

ALPHA ACOUSTIKI

In TUNE with YOUR needs

ALPHA ACOUSTIKI | 01/2023

Our technical department (tech@alphacoustic.com) will be happy to assist you find the best solution to your sound insulation problems.

CONTACT US

ALPHA ACOUSTIKI S.A.
EUID: ELGEMI.004207401000

T: +30 210 6779875

info@alphacoustic.com
www.alphacoustic.com

Eco-friendly
Recyclable

*Our company applies the Quality Management System **ISO 9001.2008** & Environmental Management System **ISO 14001.2004***