

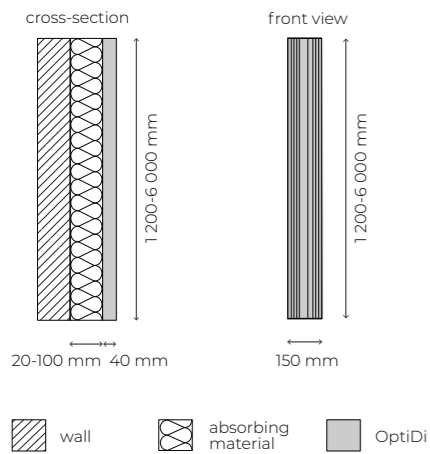


OPTIDI



diffusion absorption low tones

OptiDi, whilst giving your interior a unique aesthetics, it combines philosophy of minimalistic design and great acoustic properties. Its specific shape made of aluminium provides sound diffusion combined with efficient absorption in a lower frequency range. OptiDi is one of the kind diffuser providing a great visual effect and outstanding acoustical performance.



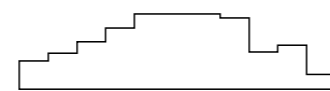
pattern version

A



positive

B



negative

Size
150 x 1200 x 40 mm
(max length: 6 m)

Weight
17 kg/m²

Material
aluminium

Possible finish in any colour from the RAL palette or wood-like varnish.

RAL



varnish



01 02 03

Designer
Architected Sound Team

Country of production
Poland

Category
diffusion / absorption

Description
OptiDi system diffuses sound in mid and high frequencies, most effectively as a combination of positive and negative modules. Due to internal filling and variable slots' width, bass absorption may be adjusted to a particular frequency of choice.

OptiDi is usually used on walls but it can be designed for ceilings or as a portable panel as well.

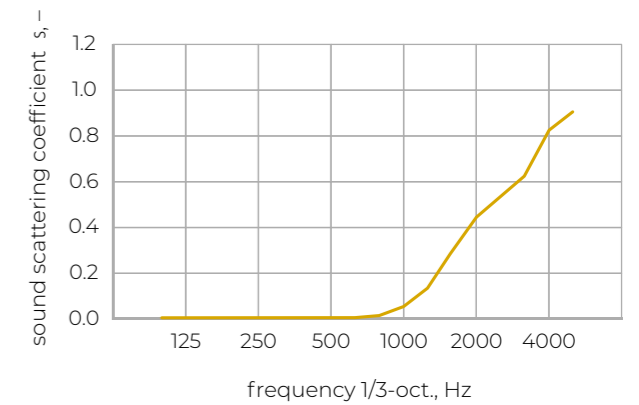
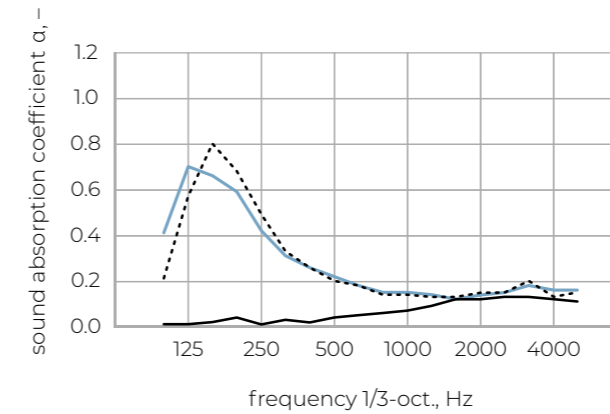
Sound absorption coefficient
 $\alpha_{w, \max} = 0.20$

Application
Concert and philharmonic halls, theatres, opera houses, rehearsal rooms, recording studios, control rooms, radio and TV emission rooms, conference rooms, lecture rooms and classrooms, waiting rooms, offices, dedicated listening rooms.

Custom-made
Usually custom-made due to specific absorption needed. Ceiling structure and mobile version possible. Various depth and bass absorption properties on demand.

Fire safety
Made of materials with flammability class A1.

Architected Sound OptiDi – sound absorption and scattering coefficients



Practical sound absorption coefficient α_p

frequency 1/1-oct.	—	—
125 Hz	0.60	0.55	0.00
250 Hz	0.45	0.50	0.05
500 Hz	0.20	0.20	0.05
1000 Hz	0.15	0.15	0.05
2000 Hz	0.15	0.15	0.10
4000 Hz	0.15	0.15	0.10

Sound scattering coefficient s

frequency 1/3-oct.	—
1000 Hz	0.05
1250 Hz	0.13
1600 Hz	0.28
2000 Hz	0.44
2500 Hz	0.53
3150 Hz	0.62
4000 Hz	0.82
5000 Hz	0.90

- slit 1 mm + mineral wool 50 mm, o.d.s. 90 mm *
- slit 1 mm + mineral wool 100 mm, o.d.s. 140 mm **
- direct mountig, o.d.s. 55 mm *

- slit from 0 to 5 mm ***

- * results obtained from analytical calculations
- ** measurements conducted in accordance to PN-EN ISO 354:2005
- *** measurements conducted in accordance to ISO 17497-1:2004