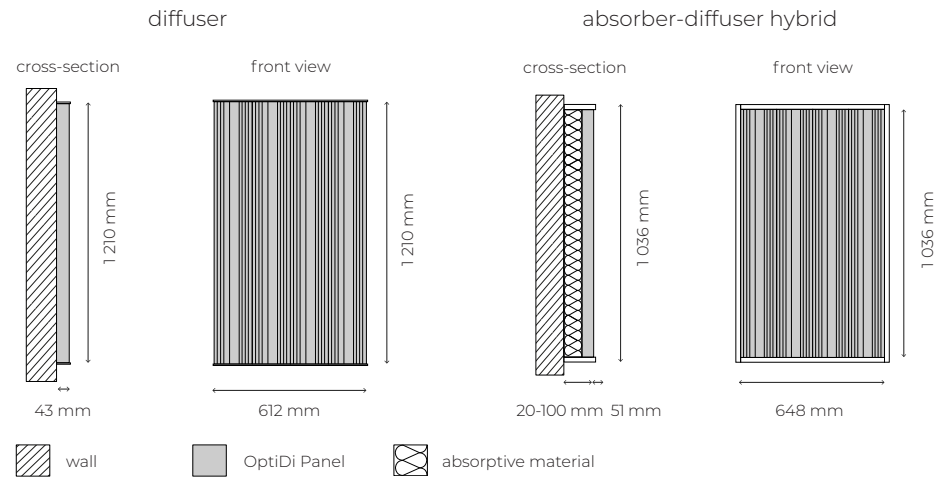




OPTIDI PANEL



OptiDi is a compact acoustic system with a wide range of applications. Its unique shape and colour enlivens any room and gives it a unique character, combining the visual and sound side. It is precisely molded from aluminum in two forms and two thicknesses, providing sound dispersion over a wide frequency range and optional bass absorption.

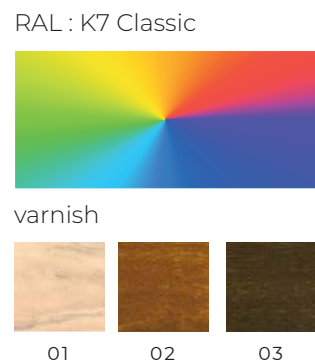


Standard sizes
612 x 1 210 x 43 mm – diffuser
648 x 1 036 x 71-151 mm – absorber-diffuser hybrid

Weight
13 kg – diffuser
25 kg – absorber-diffuser hybrid

Material
aluminium, wood-based material, mineral wool

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



Designer
Architected Sound Team

Country of production
Poland

Category
diffusion / absorption

Opis
OptiDi Panel comes in two variants: as a diffuser and an absorber-diffuser hybrid.

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/home listening rooms.

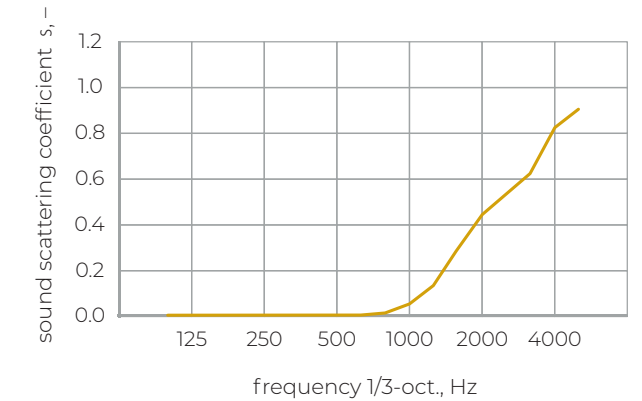
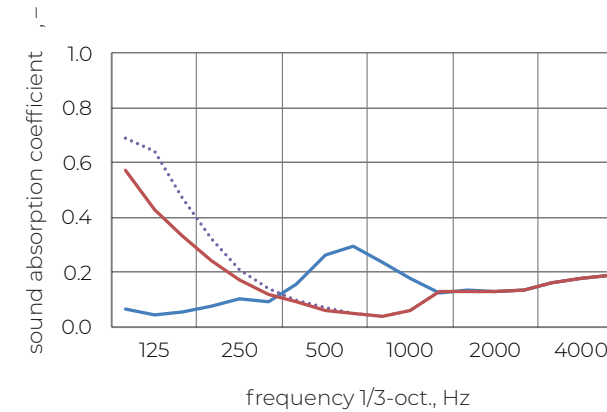
Custom-made
An individually designed comprehensive acoustic system, taking into account the particular frequency bands. Possible mobile version. Different panel thicknesses are available in the hybrid variant due to the absorption needed.

Fire safety
Diffuser variant made of materials with flammability class A1. Possibility of making hybrid variant out of materials with flammability class B-s1, d0.

Additional information
Technical solution developed in cooperation with the AGH University of Science and Technology in Cracow. Community design number: 004417723-0001 and 004417723-0002.



Architected Sound OptiDi Panel – sound absorption and scattering coefficients



Practical sound absorption coefficient α_p

mounting type	A-40	C-50	C-100
frequency 1/1 oct.	—	—
125 Hz	0.05	0.60	0.45
250 Hz	0.10	0.20	0.20
500 Hz	0.25	0.05	0.05
1000 Hz	0.20	0.10	0.10
2000 Hz	0.15	0.15	0.15
4000 Hz	0.20	0.20	0.20

Sound scattering coefficient s

frequency 1/3-oct.	s
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

- A-40:** direct mounting, o.d.s. 40 mm *
- C-50:** slit 1 mm + mineral wool 50 mm (35 kg/cbm), o.d.s. 90 mm *
- C-100:** slit 1 mm + mineral wool 100 mm (35 kg/cbm), o.d.s. 140 mm *

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