

OPTIDI PANEL

In the modular direction







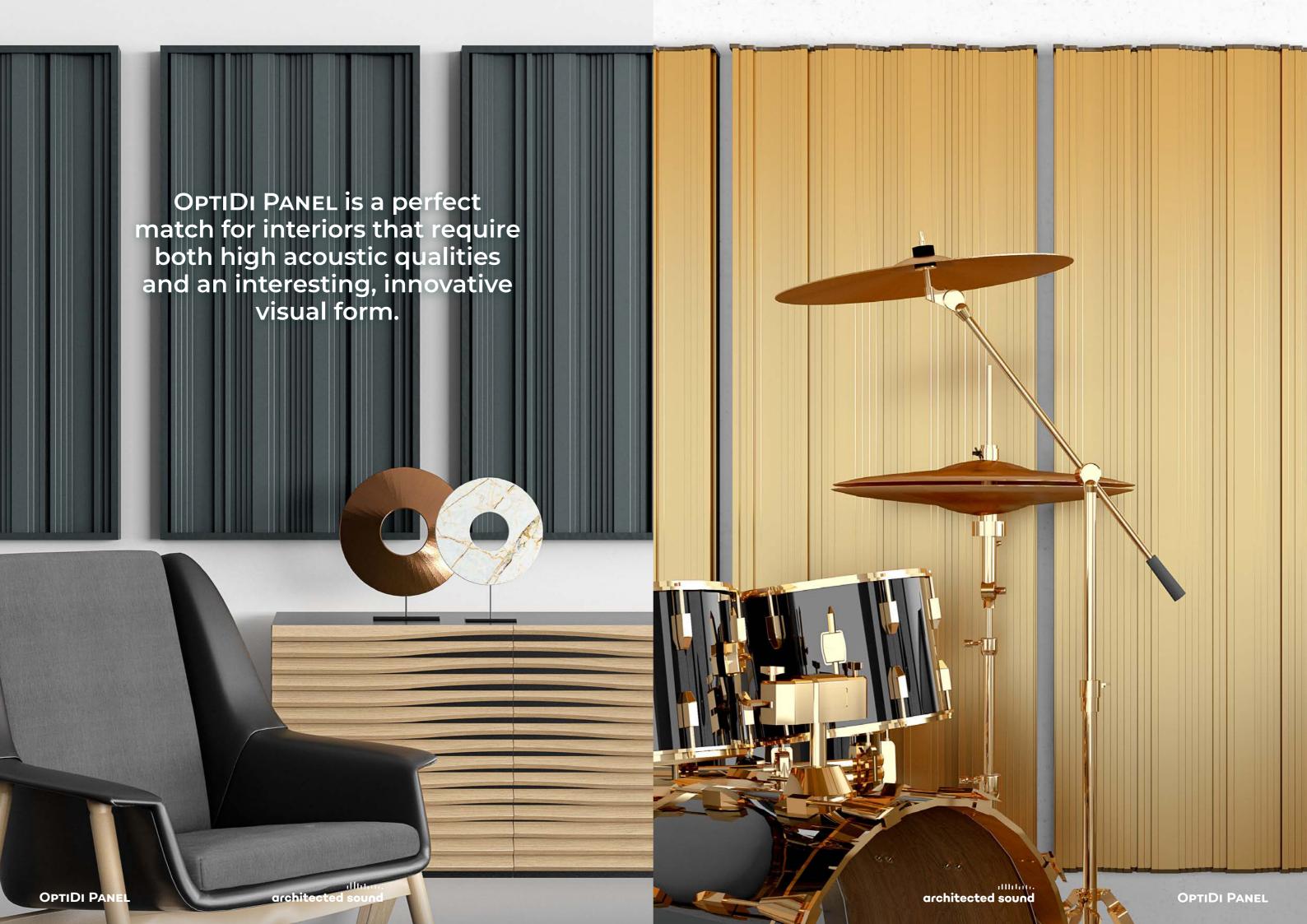
absorption



low tone

The main purpose of OPTIDI
PANEL is dispersing sound waves
over a very wide frequency range.
OPTIDI PANEL was formed as a
specialized construction in order
to create an innovative acoustic
system in a form available to any
customer. It is now easy to hang
in any space.







OPTIDI PANEL







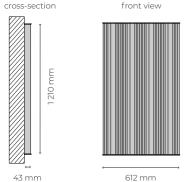
front view

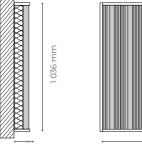
diffusion

absorption low tones

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.

diffuser





absorber-diffuser hybrid

20-100 mm 51 mm

648 mm

Standard sizes

612 x 1 210 x 43 mm - diffuser 648 x 1 036 x 71-151 mm - absorberdiffuser hybrid

OptiDi Panel

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.

RAL: K7 Classic







Designer

absorptive material

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

 $a_{w, max} = 0.20$

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

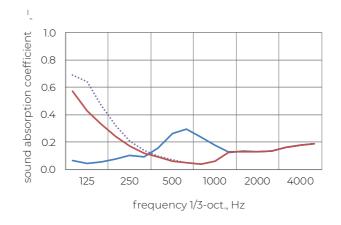
Diffuser variant made of materials with flammability class A1. Possibillity of making hybrid variant out of materials with flammability class B-s1, d0.

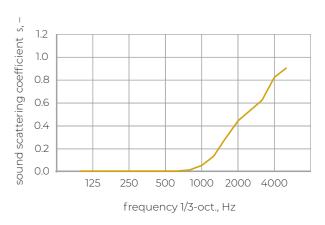
Additional information

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

0.05
0.13
0.28
0.44
0.53
0.62
0.82
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 *

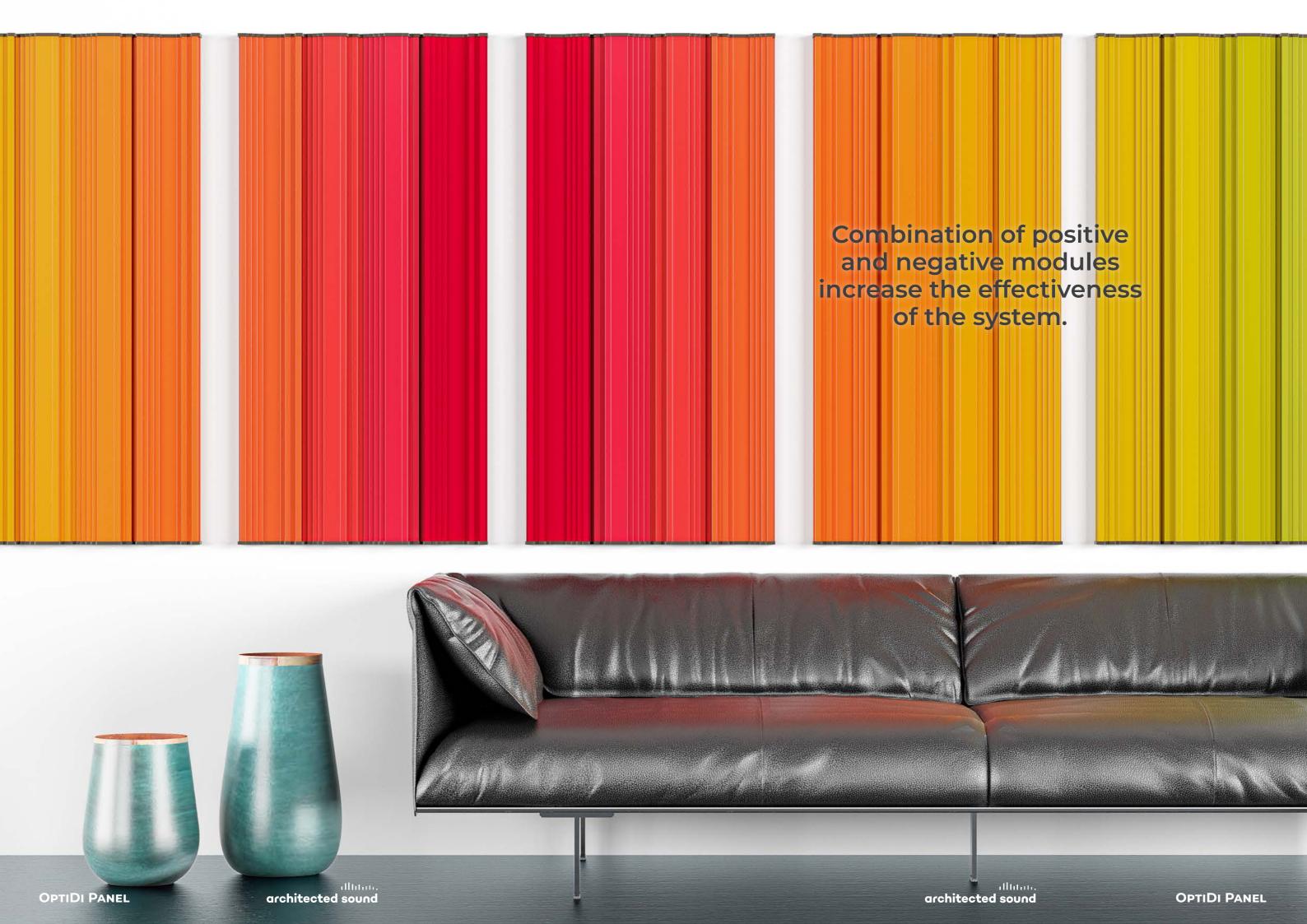
C-100: slit 1 mm + mineral wool 100 mm (35 kg/cbm), o.d.s. 140 mm *



slit from 0 to 5 mm **







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