

# 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







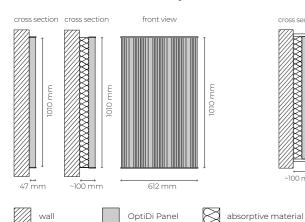
diffusion

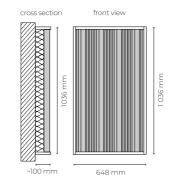
sion a

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 and absorber-diffuser hybrid







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

RAL: K7 Classic



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

 $a_{w, max} = 0.20$ 

#### 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

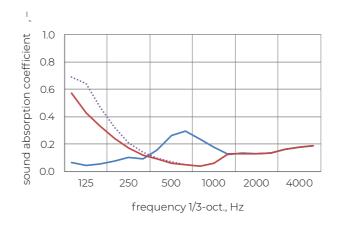
Possibility of making the system out of materials with flammability class

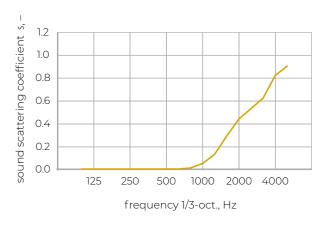
#### Additional information

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 $\alpha_p$

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 \*

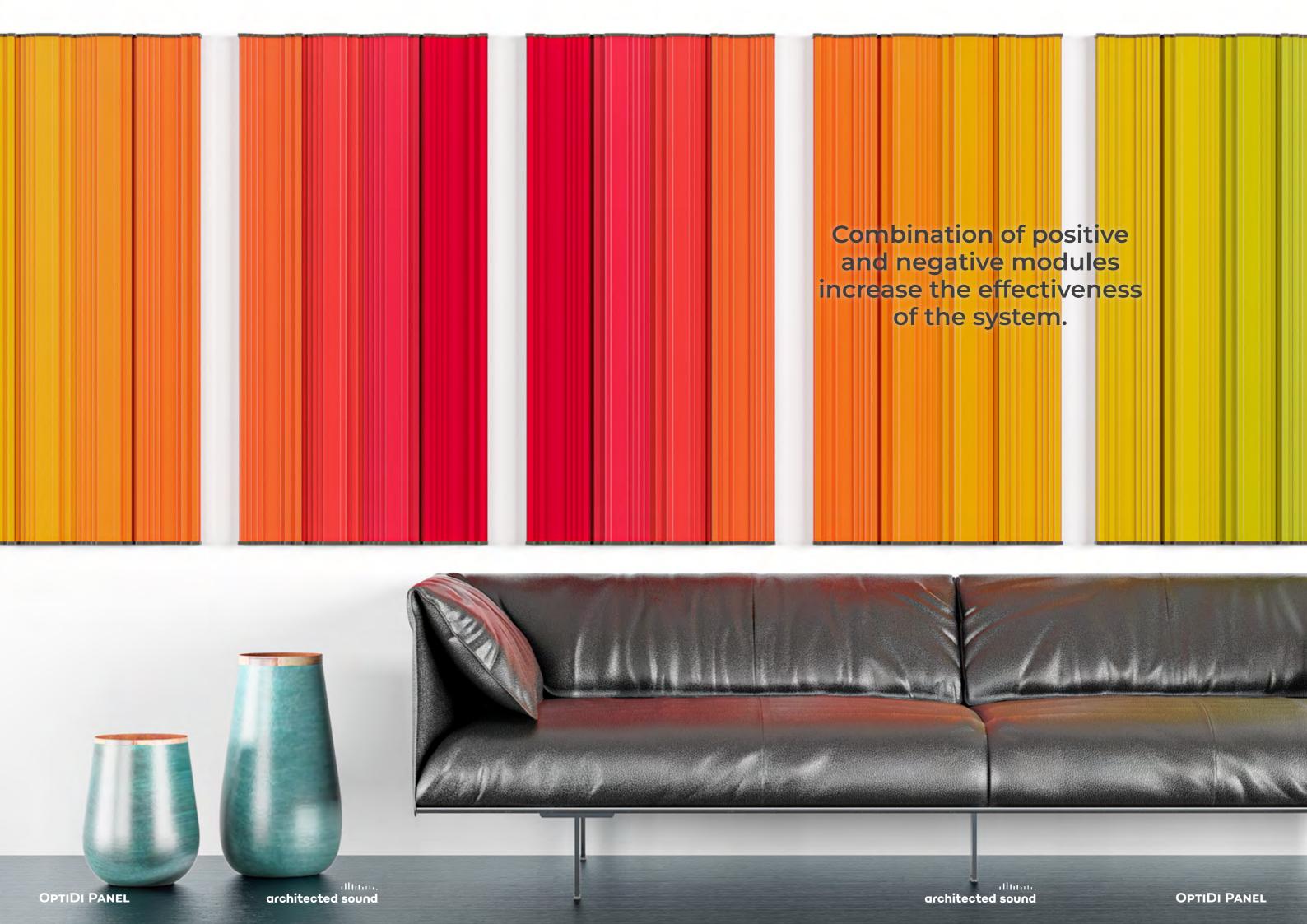
C-100: slit 1 mm + mineral wool 100 mm (35 kg/cbm), o.d.s. 140 mm \*

\* results obtained from analytical calculations

\*\* measurements conducted in accordance to ISO 17497-1:2004

slit from 0 to 5 mm \*\*





## **Architected Sound**

ul. Chałubińskiego 53 30-698 Kraków info@architected-sound.com +48 12 259 13 00

www.architected-sound.com

