

REFFUZOR

architected sound

REFFUZOR

Sound under control



reflection



low tones



mid tones



high tones

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REFFUZOR is the first ceiling reflective panel that, thanks to a patented technical solution, allows sound reflection in the extended frequency band.

Its innovative design combines reflective, diffusing and absorbing surfaces whilst ensuring fully adjustable and very precise sound wave direction.

The main task of REFFUZOR panels is to improve the quality of artists' communication on stage and to evenly cover audience surface with sound, all by shaping the first sound reflection.





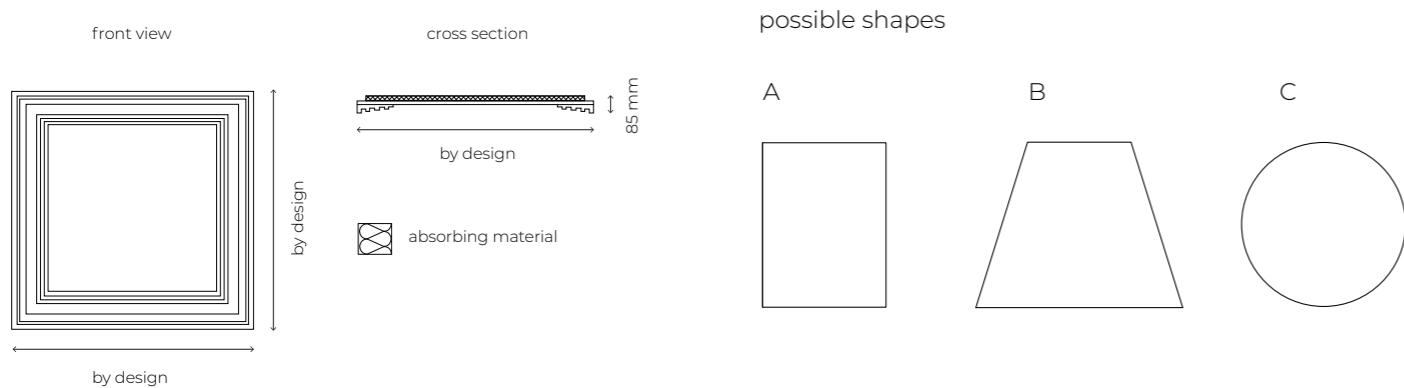
Reflective panels over the stage can be used as an alternative to full ceilings with sculpted geometry. Unlike standard ceiling solutions, REFFUZOR panels do not reduce the room volume. Additionally, due to the possibility of differentiating possible shapes, they will not change the design concept.



REFFUZOR



Reffuzor ceiling panel with the basic function of directing sound has been designed in order to reflect the sound waves in the extended frequency range. The possibility of permanent suspension or setting the angle of inclination allows to adjust the acoustic parameters of the room, depending on the type of artistic event.



Size
according to individual design
of an interior and required
acoustic properties

Weight
approximately 30 kg / sqm

Material
wood-based or gypsum-fiber
materials, polyethylene foam

Available in any colour from
the RAL K7 classic palette.



Designer
Architected Sound Team

Country of production
Poland

Category
reflection

Description
The novelty of Reffuzor panels technology is the result of in-depth material analyzes, computer simulations and tests carried out in specialized measuring chambers. The ability to adjust the angle of the panels, allows to direct reflections to specific places in the room. An additional sound absorbing layer located at the top of the panel prevents the occurrence of undesirable reflections between the panel and the ceiling surface.

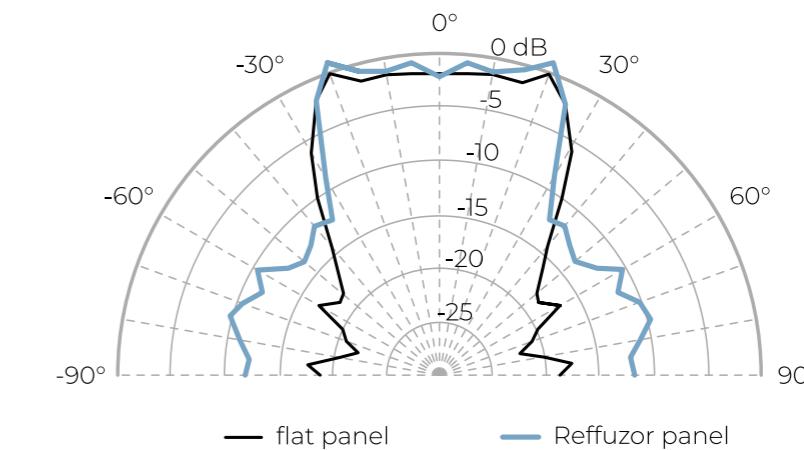
Custom-made
Possibility of designing panels with dimensions, shapes and colours adapted to a specific room. They can also be equipped with an automatic angle adjustment system in two planes. The regulation system can be integrated with the management systems of leading manufacturers.

Fire safety
Possibility of making the system out of materials with flammability class at least D-s1.

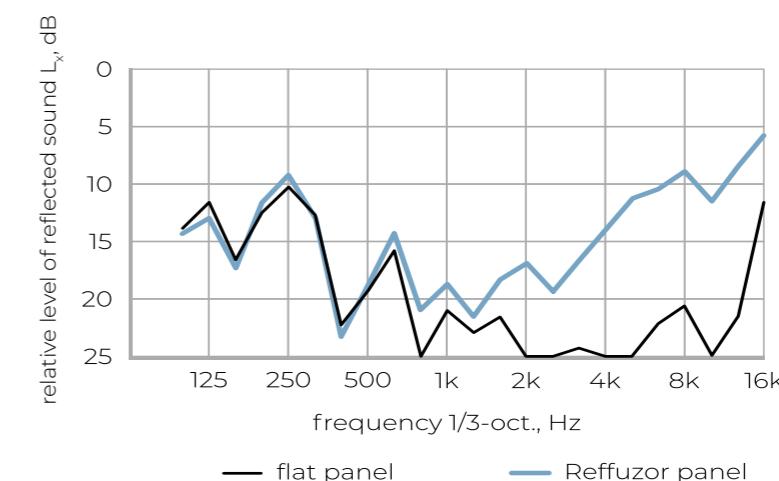
Additional information
Technical solution patented by AGH University of Science and Technology in Krakow.
Patent number: PL 227198 B1.



Directional reflection characteristics of the Reffuzor panel compared to a standard flat reflective panel for a sound frequency of 4000 Hz.



Amplitude-frequency characteristics of sound reflection from the Reffuzor panel and compared to a standard flat reflection panel for an angle of incidence of 75°.





**Wide range of shapes,
such as trapezium, rectangle
or circle as well as available
colours, allows you to combine
the original room design
and proper interior acoustics.**

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