POLYFON KiON

Round Trap Acoustic Object

WIDE FREQUENCY
ABSORPTION

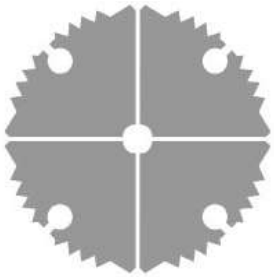
POLYFON-KiON : An innovative acoustic Round Trap cylinder type object that offers high Sound Absorption characteristics in a broad band frequency range.

POLYFON-KiON

Quarter

Semi cylinder

Cylinder



Description

POLYFON-KiON is an innovative acoustic Round Trap cylinder type panel that offers high Sound Absorption characteristics in a broad band frequency range.

• POLYFON-KiON is produced by polyurethane flexible foam, with a sculpted design, that effectively absorbs the sound energy and reduces the reverberation time.

It consists of 4 quadrants (of 90 degrees angle). They may be delivered either 4 quadrants bonded together or on their own, as independent parts.

The addition of cavities (like Helmholtz resonators) offers additional sound absorption.
The acoustic energy is dissipated as heat in the foam cells.

The triangular-shaped quarters of the round trap, are a cost effective solution for a reliable bass trap sound absorption.
It can be installed in the room corners and/or wall or ceiling junction, to provide low frequency sound absorption.
The semi cylindrical shaped traps can be installed at the lateral walls, with a space in between.

The POLYFON-KiON Round Trap/cylinder, can be suspended from the ceiling, or stand on the floor, like a column.

• Fins may be added between the quarters for a better aesthetic result. These fins / flaps can be made either of wooden elements, or acrylic sheets in different colors.

Color:	Dark grey.
Reaction to fire:	SE according to FMVSS302.
Dimensions:	600x400 mm (Height x Diameter)
Packing:	Carton box with 8 quarters (2 Round Traps).

POLYFON-KiON "semi cylinder" with wooden fins

Type:	Practical Sound Absorption Coefficient α_p						Weighted Sound Absorption Coefficient (α_w)	Sound Absorption Class
	Frequency (Hz)							
	125	250	500	1000	2000	4000		
POLYFON-KiON	0.8	0.95	0.95	1	1	1	1	A

Sound absorption coefficients αp, according to ISO 11654:1997.

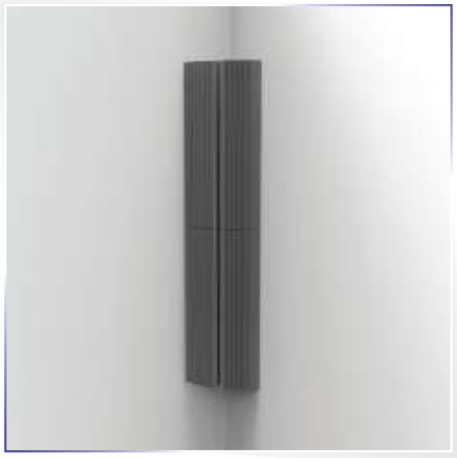
POLYFON KiON

Applications

POLYFON-KiON can be used, in order to improve the reverberation time, to reduce flutter echo and standing waves, to prevent the room modes and to increase the voice clarity.
It is especially useful, to trap the bass audible frequencies, which are more intense at the intersection of flat surfaces.
Installation on the wall can be easily done, with adequate glue.
The suspension from the ceiling can be done, using an appropriate tube adapted to the suitable hole, at the center of the cylinder.

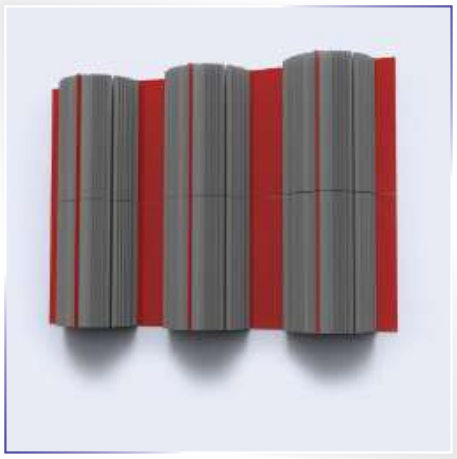
Typical applications:

• Home Theatres, bar, restaurants, malls, Recording & Post Production Studios, Rehearsal Rooms, Conference Rooms, multipurpose hall, etc.



POLYFON-KiON
quarter at the corner
as a Bass Trap.

POLYFON-KiON
hanging from ceiling,
with wooden fins.



POLYFON-KiON
Semi cylinder on the wall with vary fins.

POLYFON-KiON
Round Trap with wooden fins.

Design Patent Pending.

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