

# POLYFON **KiON**

## Round Trap Acoustic Panel

WIDE FREQUENCY ABSORPTION

**POLYFON-KiON : An innovative acoustic Round Trap cylinder type panel 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.

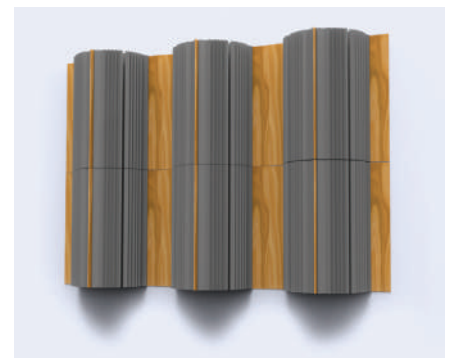
It can be installed in the room corners and/or wall or ceiling junction, to provide low frequency sound absorption.

The semi cylindrical shaped traps can be installed at the lateral walls, with a gap in between.

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

- Between the quarters, may be added fins to better aesthetic presentation. 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 $\alpha_p$						Weighted Sound Absorption Coefficient ( $\alpha_w$ )	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  $\alpha_p$ , according to ISO 11654:1997.

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## 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.

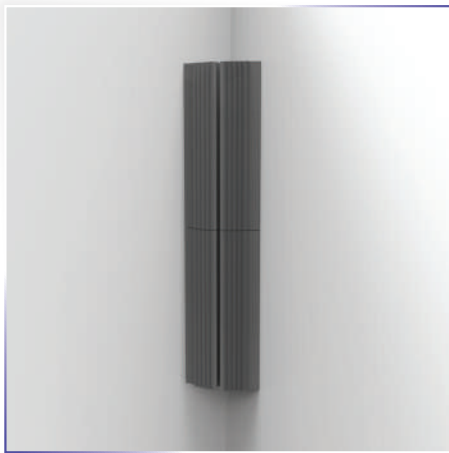
It is especially useful, to trap the bass audible frequencies, which are more intense at the intersection of flat surfaces.

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:

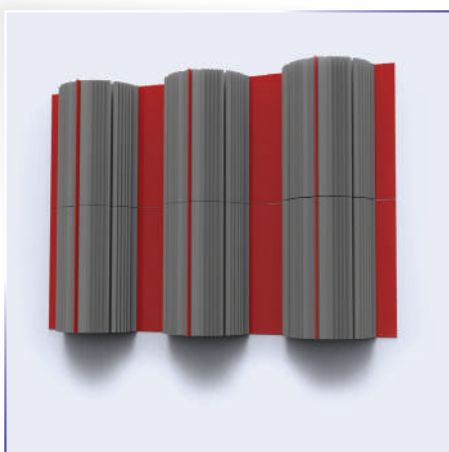
- Home Theatres, bar, restaurants, malls, Recording & Post Production Studios, Rehearsal Rooms, Conference Rooms, multipurpose hall, etc.



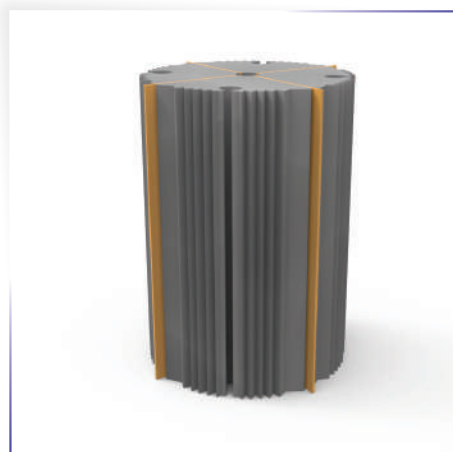
POLYFON-KiON  
quarter at the corner  
as a Bass Trap.



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.*

Design and Production according to Quality Management System **ISO 9001.2008** & Environmental Management System **ISO 14001.2004**