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Manufactured from high quality EPS (Expanded Polystyrene), the Trap Fuser is a unidirectional panel that controls sound reflections in two different ways - absorption and diffusion. Its hybrid structure allows sound energy to either be trapped in the cavities, or scattered by the plain surfaces. Usually applied for the treatment of mid or high frequencies, the Trap Fuser panel represents true acoustic science development.

In many practical applications, especially those that require a large area of diffusion treatment, it is common to repeat a same diffuser, so as to introduce periodicity into a sequence. This will concentrate the reflection energy in the diffraction orders of the grating and result in a narrower diffusion pattern. The innovation with the Trap Fuser lies in the freedom to position the panel's two halves and create random sequences. By rotating these diffusers in different directions, you can achieve combinations of patterns that are not only appealing to the eye but also extremely efficient when the aim is diffusing sound in a particular area. In fact, studies show that there are specific patterns that optimize diffusion and acoustic technicians can recommend which pattern works best, given the requirements of the area.

Assuming positions 0 and 1, the panels can be positioned according to simple binary sequences, with variations of 180°. Another possible combination is making 90° variations of the panels, thus transforming a one dimensional (1D) panel into a two dimensional (2D) system.

- Easy to install
- Available in 3 colors: Black, White and Grey
- Can be painted with water-based paints.

#### Applications:

Recording and Broadcast Studios, Post Production Studios, Listening Rooms, Conference and Teleconference Rooms, Lecture Halls, Distance Learning Rooms, Public Spaces, Auditoriums, Performance Spaces, etc.

#### Main Info

Ref: B00542  
EAN13: 5600301843105  
HS-Code: 39203000  
Dimensions: 595.0 x 595.0 x 169.0 mm  
Scratch Resistance: No  
Washable: No

#### Performance

Functionality: Diffusion  
Absorption Frequency: Low

## Technical File

# Trap Fuser White



alpha with Shape Indicators: 0.25 (M)  
NRC: 0.350  
Fire Class European (EN): Euroclass E

## Shipping

Units Per Box: 6 boxes  
Box Dimensions: 530.0 x 910.0 x 620.0 mm  
Box Weight: 16.2 kg

## Row Materials

Material: Polystyrene  
Polystyrene Density: 60.0

## Design

Polystyrene Color: White  
Edges: Angled

## Installation

Place: Wall, Ceiling  
Fixing Type: Glued

*Technical File*