

# Stratocell Whisper™

Sound Absorbing Polyethylene Foam

| Factories | Pipes | Machines | Engines | Trucks | Trains | Marine | Out door | In door |

## Stratocell Whisper™

Acoustic sound absorbing PE foam

- » No need for a "water shield"
- » Easy fabrication / converting
- » Easy fastening
- » Low weight
- » Fiber free
- » Excellent acoustic properties

# The Whisper foam:

The real advantages of Whisper™



- **Water resistant**  
Provides unaltered and sustained performance in wet or humid conditions.
- **Best Sound absorption in the market**  
The new generation of Whisper has one of the very best absorption skills, on the market.
- **Low installation costs**  
Due to the light weight, and the structural independency "self standing" – it is very easy to make a material installation.
- **Effect of Humidity**  
The absorption ability of Stratocell Whisper is not significantly modified in a humid atmosphere.



- **Fire Reaction.**  
The Whisper products meets all the typical required Fire Norms with in: Transportation, Industrial vehicles, Marine, Trains, Appliances & Electronics, Building and Construction.

**Whisper™ FR meets:** (DIN 4102:B1, UL94 HF1, FMVSS 3021/ISO 3795, DIN 54837, EN 13501-1).

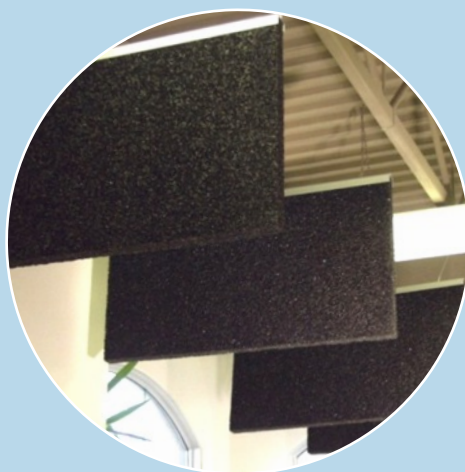
- **Self Standing/Structurally Independent**
- **Acoustic Absorption**  
Absorption peak is at lower frequencies than conventional material.
- **Fibre free**

## Stratocell Whisper

Properties

### Stratocell® Whisper® Advantages

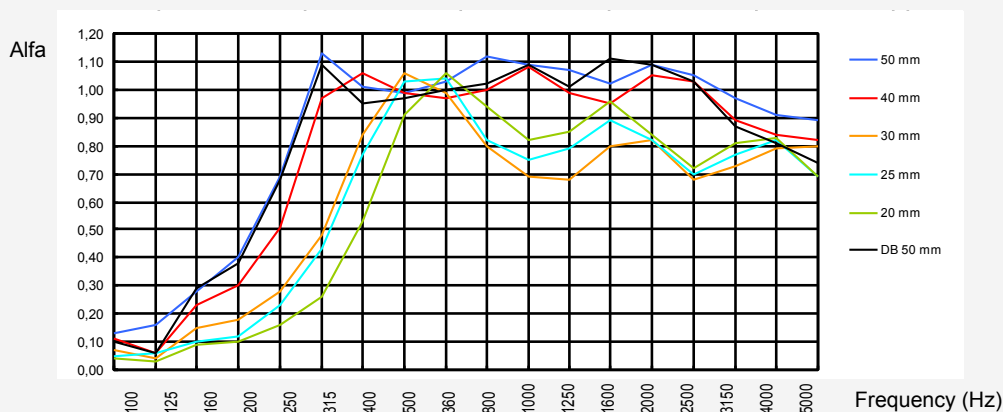
- Fantastic acoustic performance.  
(40 and 50mm in Highest Absorption Class)
- Soft and very easy to bend (flexible).
- Low weight – excellent as Acoustic baffles
- Type: FR-S1 meets the highest smoke class.
- Type: DB without FR meets FMVSS 302





## Acoustic properties

Reverberation Room Results, according to EN ISO 354 - Stratocell Whisper FR



## Fire Characteristics

All Whisper material - exclusive Type "Whisper DB".

### Transportation

Standard NF F 16-101 (Class F1)

- pyrolysis and combustion gases measurements (CO and CO<sub>2</sub>)
- acids measurements (hydrochloric, hydrobromic, hydrocyanic, hydrofluoric)
- SO<sub>2</sub> and NO<sub>x</sub> analysis
- specific optical density measurements
- opacity measurements

### Marine

- ISO 4589-2 (28,6%) and ISO 4589-3 (26%)  
(Burning behaviour by Oxygen Index)

### New standard for Trains

- EN 45545-2  
(ISO 5658-2, ISO 5660-1, ISO 5659-2)

### Appliances & Electronics

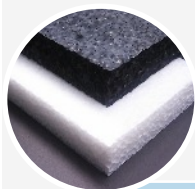
- Standard UL94 (Class HF1)

### Building & Construction

- Standard DIN 4102 (Class B1)
- Standard EN 13501-1 (Class B, S1-S2, d0)
- All Whisper material can be used (ex. DB)

### Automotive

- Standard DIN 54837
  - Class S3 (Flammability Classification)
  - Class SR2 (Smoke Diffusion Class.)
  - Class ST2 (Dripping Classification)
- Standard DIN EN ISO 5510-2 and TS 45545-2 (Gas Determination and Toxicity)



## Measurements

The size of standard sheets

Material	Dimensions in mm	Thickness in mm	Colour
Stratocell Whisper FR	1200 x 2400	Ca. 20, 25, 40 and 50	Natural & Black
Stratocell Whisper FR-S1	1100 x 2400	Ca. 25 and 30	Black
Stratocell Whisper DB	1200 x 2400	Ca. 20, 25, 40 and 50	Grey

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