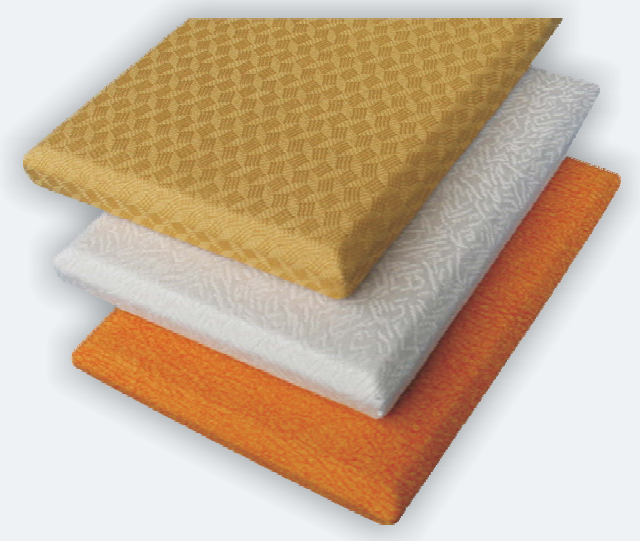
# NOISESTOP®
## Acoustic Fabric Panel

### Introduction

NOISESTOP absorptive fabric wrapped panel is the most popular acoustics product in the current industry, providing the most economical solution for general reverberation control in a wide variety of application. The high performance in sound absorption of Fabric Panel absorb the excessive sound reflections and providing a comfortable environment for meeting, gathering areas, music quality and when speech intelligibility is important.

NOISESTOP High Impact Resistant Acoustic Fabric Panel (Model:FP25/50HP) is constructed from a high density fibreglass core with impact facer sheet to withstand high impact without crushing.

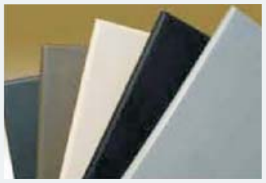
All models provide different edge, color and pattern of fabric finishing for selection.



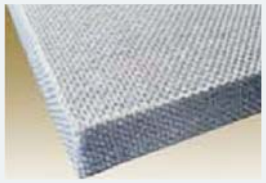
### Product Options

Harden Resin

Mitered

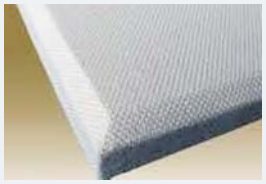


Leather



Squared

Fabric



Beveled

Lecture Theater at New Academic Building
The Hong Kong University of Science and Technology

### Product Specification

| Model | Thickness | Density | Size |
|---|---|---|---|
| FP25 | 25mm | 2.4kg/m$^2$ | 300/600/1200mm |
| FP50 | 50mm | 4.8kg/m$^2$ | 300/600/1200mm |
| FP25HP | 26mm | 3.5kg/m$^2$ | 300/600/1200mm |
| FP50HP | 51mm | 5.9kg/m$^2$ | 300/600/1200mm |

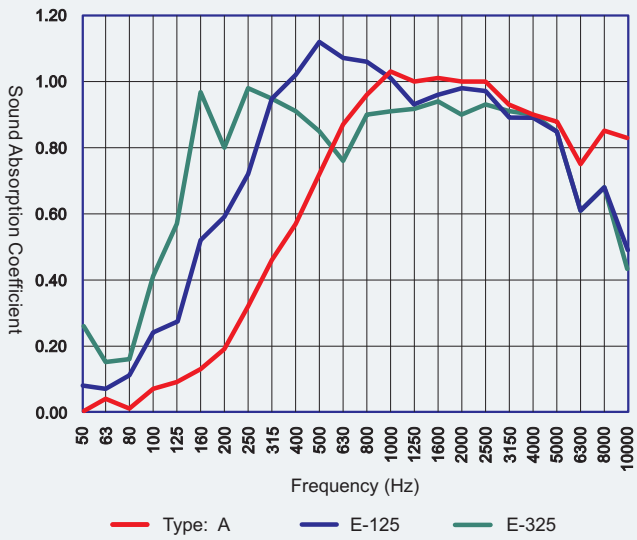
### Flammability Performance

| Fabric | Test Method | Description |
|---|---|---|
| Cara | BS 476 Part 7 Class 1<br>BS EN 1021-1:2006 (Cigarette) | Flammability |

### Acoustics Performance

Testing in accordance with ASTM C423-09a Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

FP25 Sound Absorption Coefficient



NOISESTOP®

Acoustic Fabric Panel

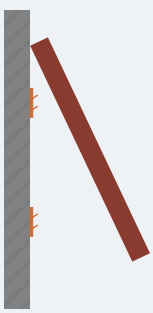
## Acoustics Performance

### FP25 and FP50 Sound Absorption Coefficient

| 1/3 Octave Band and 1/1 Octave Band Sound Absorption Coefficient | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Type | FP25 | | | | | | | | | | | | | | | | FP50 | | | | | | | |
| Cavity | Type: A | | E-50 | | E-75 | | E-125 | | E-175 | | E-225 | | E-325 | | E-425 | | E-625 | | Type: A | | E-150 | | E-350 | | E-650 | |
| Hz | 0mm | | 25mm | | 50mm | | 100mm | | 150mm | | 200mm | | 300mm | | 400mm | | 600mm | | 0mm | | 100mm | | 300mm | | 600mm | |
| 50 | 0.00 | | 0.00 | | 0.00 | | 0.08 | | 0.10 | | 0.22 | | 0.26 | | 0.30 | | 0.42 | | 0.00 | | 0.08 | | 0.18 | | 0.51 | |
| **63** | 0.04 | **0.00** | 0.06 | **0.05** | 0.02 | **0.05** | 0.07 | **0.10** | 0.02 | **0.10** | 0.11 | **0.15** | 0.15 | **0.20** | 0.09 | **0.20** | 0.29 | **0.40** | 0.00 | **0.00** | 0.01 | **0.10** | 0.08 | **0.15** | 0.36 | **0.45** |
| 80 | 0.01 | | 0.04 | | 0.07 | | 0.11 | | 0.17 | | 0.12 | | 0.16 | | 0.24 | | 0.42 | | 0.00 | | 0.25 | | 0.19 | | 0.42 | |
| 100 | 0.07 | | 0.07 | | 0.15 | | 0.24 | | 0.32 | | 0.39 | | 0.41 | | 0.50 | | 1.06 | | 0.10 | | 0.40 | | 0.77 | | 1.12 | |
| **125** | 0.09 | **0.10** | 0.11 | **0.10** | 0.22 | **0.25** | 0.27 | **0.35** | 0.35 | **0.45** | 0.46 | **0.55** | 0.57 | **0.65** | 0.70 | **0.75** | 0.87 | **0.90** | 0.23 | **0.25** | 0.34 | **0.50** | 0.61 | **0.70** | 1.12 | **1.00** |
| 160 | 0.13 | | 0.19 | | 0.33 | | 0.52 | | 0.64 | | 0.77 | | 0.97 | | 1.11 | | 0.82 | | 0.48 | | 0.73 | | 0.75 | | 0.90 | |
| 200 | 0.19 | | 0.25 | | 0.41 | | 0.59 | | 0.74 | | 0.78 | | 0.80 | | 0.91 | | 0.75 | | 0.57 | | 0.79 | | 0.88 | | 0.71 | |
| **250** | 0.32 | **0.30** | 0.43 | **0.40** | 0.62 | **0.60** | 0.72 | **0.75** | 0.86 | **0.90** | 1.01 | **0.95** | 0.98 | **0.90** | 1.05 | **0.95** | 0.79 | **0.75** | 0.83 | **0.85** | 1.09 | **1.00** | 1.08 | **1.00** | 0.85 | **0.80** |
| 315 | 0.46 | | 0.56 | | 0.76 | | 0.95 | | 1.03 | | 1.12 | | 0.95 | | 0.89 | | 0.69 | | 1.10 | | 1.30 | | 1.13 | | 0.87 | |
| 400 | 0.57 | | 0.71 | | 0.89 | | 1.02 | | 1.02 | | 1.01 | | 0.91 | | 0.79 | | 0.76 | | 1.20 | | 1.17 | | 0.96 | | 0.94 | |
| **500** | 0.72 | **0.70** | 0.88 | **0.85** | 1.04 | **1.00** | 1.12 | **1.00** | 1.04 | **1.00** | 1.01 | **1.00** | 0.85 | **0.85** | 0.78 | **0.85** | 0.83 | **0.85** | 1.13 | **1.00** | 1.27 | **1.00** | 0.95 | **1.00** | 1.03 | **1.00** |
| 630 | 0.87 | | 1.02 | | 1.09 | | 1.07 | | 0.96 | | 0.94 | | 0.76 | | 0.92 | | 0.89 | | 1.18 | | 1.12 | | 1.06 | | 1.06 | |
| 800 | 0.96 | | 1.16 | | 1.14 | | 1.06 | | 0.92 | | 0.90 | | 0.90 | | 0.99 | | 0.96 | | 1.19 | | 1.08 | | 1.04 | | 1.05 | |
| **1000** | 1.03 | **1.00** | 1.12 | **1.00** | 1.13 | **1.00** | 1.01 | **1.00** | 0.92 | **0.90** | 0.96 | **0.95** | 0.91 | **0.90** | 0.95 | **1.00** | 0.96 | **0.95** | 1.10 | **1.00** | 1.01 | **1.00** | 1.02 | **1.00** | 1.03 | **1.00** |
| 1250 | 1.00 | | 1.09 | | 1.04 | | 0.93 | | 0.91 | | 1.02 | | 0.92 | | 1.02 | | 0.96 | | 1.08 | | 1.01 | | 1.02 | | 1.00 | |
| 1600 | 1.01 | | 1.00 | | 1.05 | | 0.96 | | 0.95 | | 1.03 | | 0.94 | | 1.01 | | 0.99 | | 1.02 | | 1.04 | | 0.98 | | 1.01 | |
| **2000** | 1.00 | **1.00** | 0.99 | **1.00** | 0.96 | **1.00** | 0.98 | **0.95** | 0.93 | **0.95** | 1.01 | **1.00** | 0.90 | **0.90** | 1.01 | **1.00** | 0.97 | **1.00** | 1.04 | **1.00** | 1.01 | **1.00** | 1.00 | **1.00** | 1.00 | **1.00** |
| 2500 | 1.00 | | 0.95 | | 0.95 | | 0.97 | | 0.91 | | 1.00 | | 0.93 | | 1.01 | | 0.98 | | 0.97 | | 0.98 | | 0.99 | | 0.99 | |
| 3150 | 0.93 | | 0.91 | | 0.93 | | 0.89 | | 0.91 | | 0.90 | | 0.91 | | 0.94 | | 0.99 | | 1.05 | | 0.97 | | 0.97 | | 1.02 | |
| **4000** | 0.90 | **0.90** | 0.89 | **0.90** | 0.95 | **0.90** | 0.89 | **0.90** | 0.87 | **0.85** | 0.92 | **0.90** | 0.90 | **0.90** | 0.97 | **0.95** | 1.04 | **1.00** | 0.98 | **1.00** | 1.00 | **0.95** | 1.02 | **1.00** | 1.01 | **1.00** |
| 5000 | 0.88 | | 0.90 | | 0.87 | | 0.85 | | 0.84 | | 0.89 | | 0.85 | | 0.94 | | 0.97 | | 0.97 | | 0.94 | | 0.99 | | 0.98 | |
| 6300 | 0.75 | | 0.80 | | 0.82 | | 0.61 | | 0.70 | | 0.61 | | 0.61 | | 0.73 | | 0.83 | | 0.84 | | 0.80 | | 0.74 | | 0.74 | |
| **8000** | 0.85 | **0.80** | 0.88 | **0.80** | 0.81 | **0.80** | 0.68 | **0.60** | 0.78 | **0.65** | 0.71 | **0.60** | 0.68 | **0.55** | 0.75 | **0.65** | 0.79 | **0.75** | 0.81 | **0.70** | 0.87 | **0.65** | 0.96 | **0.70** | 0.88 | **0.75** |
| 10000 | 0.83 | | 0.65 | | 0.83 | | 0.49 | | 0.49 | | 0.43 | | 0.43 | | 0.49 | | 0.58 | | 0.41 | | 0.23 | | 0.45 | | 0.63 | |
| **NRC** | **0.75** | | **0.85** | | **0.95** | | **0.95** | | **0.95** | | **1.00** | | **0.90** | | **0.95** | | **0.90** | | **1.05** | | **1.10** | | **1.00** | | **1.00** | |

## Installation

### Fixed Surface Mounting



Fixing Clip

Simply secure the fixing clip to a surface, with screws or with a hook. If air cavity is required, secure the clip on the wood batten. Line up the panel and gently pierce the back of the panel with the triangular prongs. Then press firmly into the fixing clip and press downward until the panel reaches the desired height.