# SORBERTEXTILE™ P44FR

## engineered acoustic fabric with heat reactive adhesive

Sorbertextile™ P44FR are non-woven acoustic textiles available with a coated heat reactive adhesive. The fabrics are manufactured to provide excellent mechanical strength, opacity and permeability.

The products are predominantly designed for installation behind perforated panels to offer excellent sound absorption and an elegant appearance. The product prevents fibre release from materials such as polyester blankets, mineral wool or fibreglass.

Sorbertextile P44FR is supplied with a pre-applied fire-resistant adhesive backing, allowing for attachment on any perforated panel system. The product only requires to be preheated to 80 °C with the use of gentle pressure to achieve a good bond. This installation method provides a more comfortable and cleaner application, eliminating the need for spray adhesives.

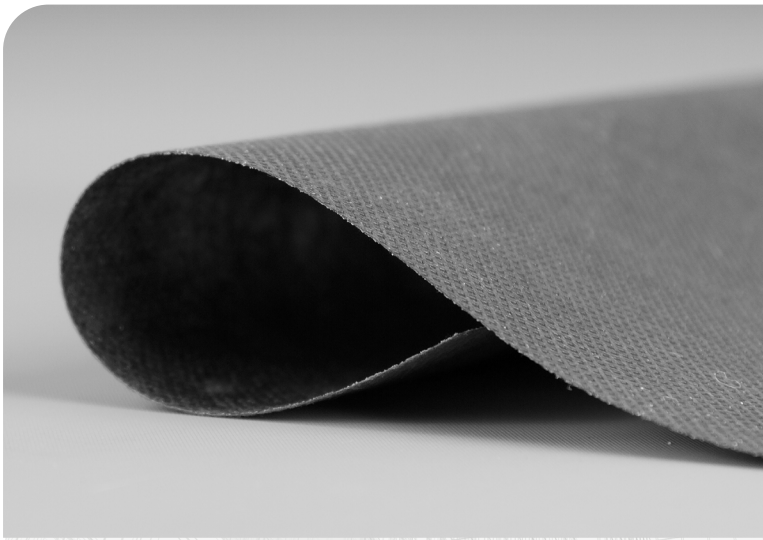
Sorbertextile P44FR can be supplied laminated to perforated panels with a pattern of choice (depending on MOQ).

### VOC, ODP, HEALTH AND SAFETY

Sorbertextile P44FR are non-toxic and is safe to handle by methods prescribed in the Safety Data Sheet.

### SPECIFICATIONS

| | |
|---|---|
| Colour | Black (Standard)<br>White available depending on MOQ |
| Available | Standard roll sizes: 1.2 x 50 m and 1.2 x 200 m<br>Nominal thickness: 0.37 mm<br>Standard weight: 160 gsm<br>(without backing adhesive layer 80 gsm) |
| | Custom sizes, colours and/or thicknesses available depending on MOQ |



## applications

Behind perforated panels for use in:

- Suspended ceilings
- Acoustic panel linings

## features

- Premium sound absorption properties
- NRC ≥0.70 for most commonly used perforated patterns
- Easy installation with heat reactive adhesive requires only 80 °C
- Excellent mechanical properties
- Maximum recommended service temperature 80 °C
- Unique & adequate solution for most acoustic installations
- Clean, light and safe to handle
- Fixed in place (not floating)
- Can be supplied laminated to perforated panels with a pattern of choice
- Complies to stringent building code requirements (tested to AS 1530.2 and AS 1530.3)
- Achieves Group 1 fire safety requirement for buildings (tested to AS 5637.1)

## PRODUCT SPECIFICATIONS

| Product | Description | Nominal thickness | Standard roll width | Standard roll length | Weight | Maximum storage temperature | Maximum service temperature |
|---|---|---|---|---|---|---|---|
| Sorbertextile P44FR | FR glue | 0.37 mm (0.01 in) | 1.2 m (3.9 ft) | 50 or 200 m (164 or 656.2 ft) | 160 gsm | 40 °C (104 °F) | 80 °C (176 °F) |

*Tolerances: Length: ±1%, Width: -0/+5 mm (0.2 in), Thickness: ±0.5 mm (0.02 in)*

## MATERIAL PROPERTIES

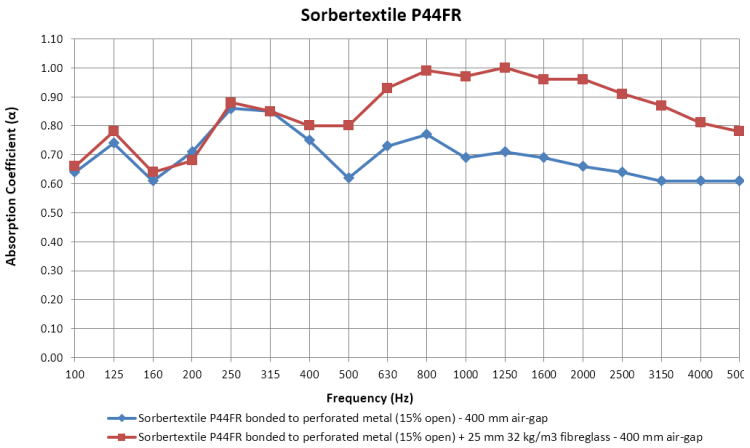
| Product | Test method | Property | Report no. | Results | |
|---|---|---|---|---|---|
| Sorbertextile P44FR | AS 5637.1 (AS/NZ 3837, ISO 5660-1 & ISO 5660-2) | Fire hazard properties | FH11455-02-3* | NCC | Group 1 *Average specific extinction area less than 250 m2/kg* |
| | | | | NZBC | Group 1-s |
| | AS 1530.3 | Flame propagation (spread of flame index), smoke development index | 16-006626 | 0, 4 | |
| | AS 1530.2 | Flammability index | 18-003119 | 1 | |
| | FMVSS 302 | Flammability of interior materials | - | Complies to the requirements of US (DOT) Department of Transportation for occupant compartments of motor vehicles | |

**Tested with & without backing adhesive layer*

## ACOUSTIC PERFORMANCE

| Frequency (Hz) | P44FR bonded to perforated metal (15% open) 400 mm air-gap | P44FR bonded to perforated metal (15% open) + 25 mm 32 kg/m³ fibreglass 400 mm air-gap |
|---|---|---|
| 100 | 0.64 | 0.66 |
| 125 | 0.74 | 0.78 |
| 160 | 0.61 | 0.64 |
| 200 | 0.71 | 0.68 |
| 250 | 0.86 | 0.88 |
| 315 | 0.85 | 0.85 |
| 400 | 0.75 | 0.80 |
| 500 | 0.62 | 0.80 |
| 630 | 0.73 | 0.93 |
| 800 | 0.77 | 0.99 |
| 1000 | 0.69 | 0.97 |
| 1250 | 0.71 | 1.00 |
| 1600 | 0.69 | 0.96 |
| 2000 | 0.66 | 0.96 |
| 2500 | 0.64 | 0.91 |
| 3150 | 0.61 | 0.87 |
| 4000 | 0.61 | 0.81 |
| 5000 | 0.61 | 0.78 |
| NRC | 0.70 | 0.90 |
| SAA | 0.72 | 0.89 |
| $\alpha_w$ | 0.70 (L) | 0.90 |

*Tested to AS 1045:1988 at RMIT*
*Report Number: 31919AR*



## ACOUSTIC PERFORMANCE

| Frequency (Hz) | Pyrotek P44FR bonded to slotted timber panel (16% open) - 50 mm air-gap | Pyrotek P44FR bonded to slotted timber panel (16% open) - 90 mm air-gap |
|---|---|---|
| 100 | 0.06 | 0.25 |
| 125 | 0.10 | 0.26 |
| 160 | 0.11 | 0.23 |
| 200 | 0.31 | 0.36 |
| 250 | 0.36 | 0.44 |
| 315 | 0.50 | 0.50 |
| 400 | 0.60 | 0.76 |
| 500 | 0.60 | 0.76 |
| 630 | 0.67 | 0.78 |
| 800 | 0.78 | 0.78 |
| 1000 | 0.76 | 0.80 |
| 1250 | 0.77 | 0.75 |
| 1600 | 0.71 | 0.63 |
| 2000 | 0.61 | 0.49 |
| 2500 | 0.45 | 0.47 |
| 3150 | 0.42 | 0.46 |
| 4000 | 0.46 | 0.46 |
| 5000 | 0.46 | 0.47 |
| NRC | 0.60 | 0.65 |
| SAA | 0.59 | 0.63 |
| $\alpha_w$ | 0.60 | 0.60 |

*Tested to ISO 354:2003 (reduced size reverberation room)*
*Report numbers: 32319AR*