

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.

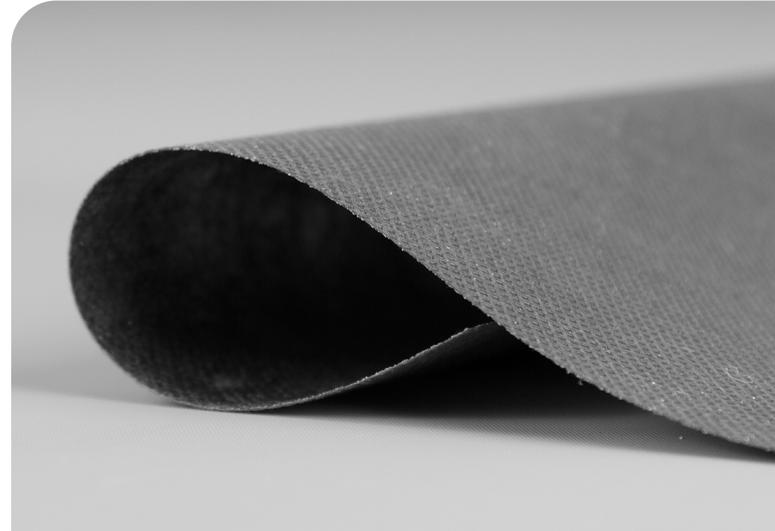
Sorbertextile P44FR can be supplied laminated to perforated panels with a pattern of choice (depending on MOQ).

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) White available depending on MOQ
Available	Standard roll sizes: 1.2 x 50 m and 1.2 x 200 m Nominal thickness: 0.37 mm Standard weight: 160 gsm (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
- $NRC \geq 0.70$ 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

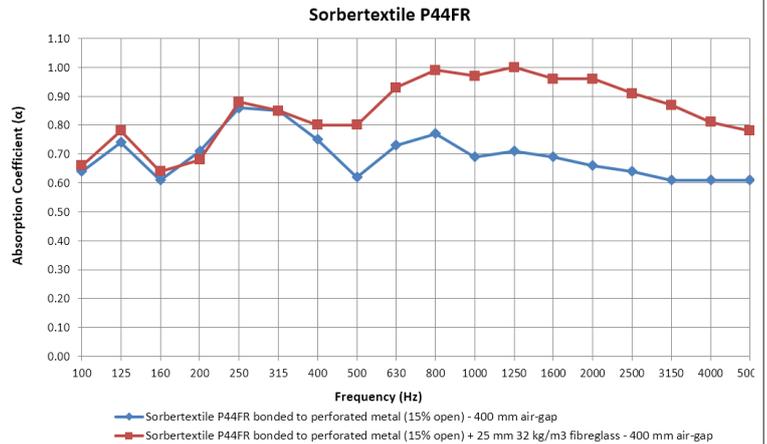
Product	Test method	Property	Report no.	Results	
Sorbertextile P44FR	AS 5637.1 (AS/NZ 3837, ISO 5660-1 & ISO 5660-2)	Fire hazard properties	FH11455-02-3*	NCC	Group 1 Average specific extinction area less than 250 m ² /kg
				NZBC	Group 1-s
	AS 1530.3	Flame propagation (spread of flame index), smoke development 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/m ³ 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
α_w	0.70 (L)	0.90

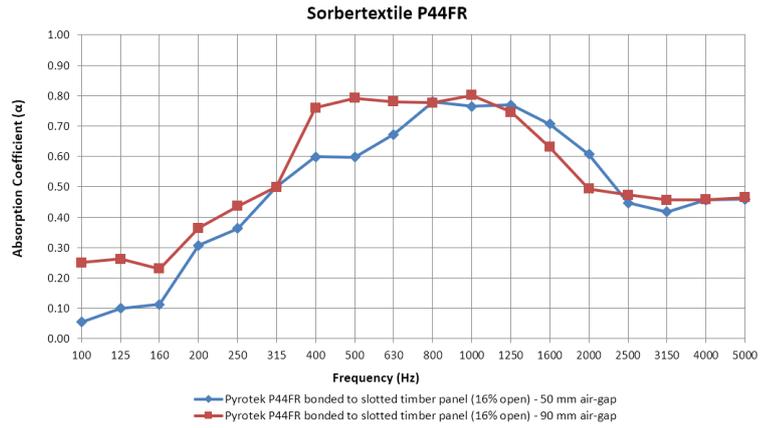
Tested to AS 1045:1988 at RMIT
Report Number: 31919AR



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
α_w	0.60	0.60

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



For further information and contact details, please visit our website pyroteknc.com

Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic, mechanical and fire engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See pyroteknc.com/disclaimer.

