Technical Data Sheet

Protecflam Industries
Edition 03/03/2026

Fiberflam® FA450

Flame-retardant acoustic veil

Description

100% polyester black flame retardant acoustic veil.

Technical datas

Thickness	2,5 mm (EN/ISO 29073-1)
Mass per unit area	450 g/m² (EN/ISO 29073-2)
Tensile strength (machine direction)	425 N/5cm (EN/ISO 29073-3)
Tensile strength (cross direction)	800 N/5cm (EN/ISO 29073-3)
Elongation at break (machine direction)	80% (EN/ISO 29073-3)
Elongation at break (cross direction)	55% (EN/ISO 29073-3)
Acoustic impedance	600 Ns/m³

Fire reaction

Classified B-s1,d0 according to EN 13501

Storage

Store in a dry indoor area at temperatures between +5 °C and +23 °C.
Preferably store in a well-ventilated location.

Measured values

All technical values stated in this product data sheet are based on laboratory tests. Circumstances beyond our control may lead to deviations in the actual measured values.

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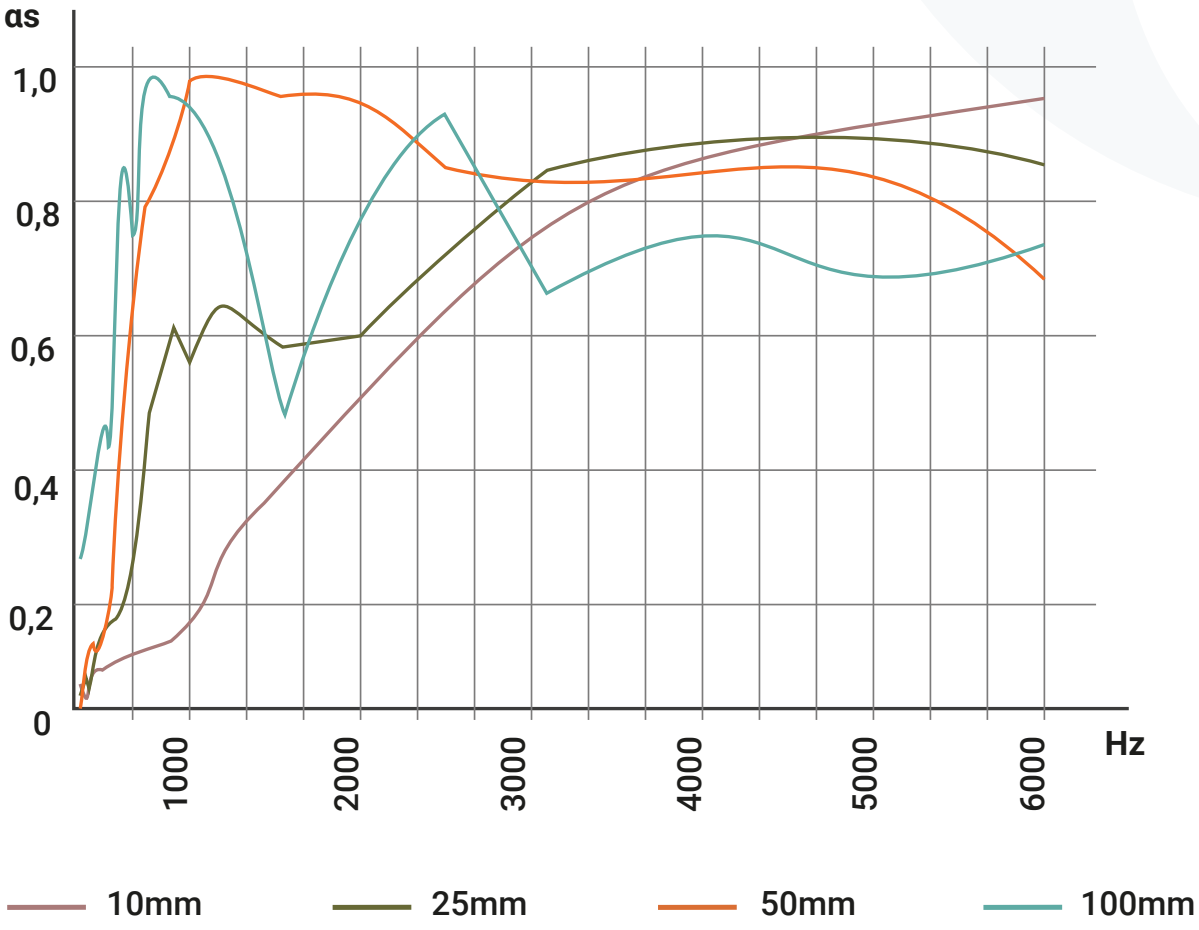
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Acoustic properties

Sound absorption coefficients (EN/ISO 354)

45 mm plenum: αw = 0.45, Class D (MH)
100 mm plenum: αw = 0.85, Class B

date	January 21, 2023
Temperature / Pressure	22°C / 101325 Pa
Tensile strength (machine direction)	425 N/5cm (EN/ISO 29073-3)
Tensile strength (cross direction)	800 N/5cm (EN/ISO 29073-3)
Elongation at break (machine direction)	80 % (EN/ISO 29073-3)
Elongation at break (cross direction)	55 % (EN/ISO 29073-3)
Acoustic impedance	600 Ns/m^3



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Legend :

- Sound absorption coefficients [αs]
- Frequency [Hz]

Reference table of acoustic measurements:

	as			
f (Hz)	10mm	25mm	50mm	100mm
100	0,06	0,04	0,00	0,24
125	0,02	0,07	0,10	0,28
160	0,05	0,05	0,13	0,35
200	0,08	0,11	0,12	0,43
250	0,08	0,13	0,14	0,45
315	0,08	0,14	0,22	0,43
400	0,08	0,15	0,51	0,83
500	0,10	0,23	0,64	0,75
630	0,11	0,49	0,79	0,98
800	0,11	0,61	0,87	0,95
1000	0,14	0,57	0,97	0,92
1250	0,26	0,63	0,98	0,88
1600	0,32	0,58	0,96	0,49
2000	0,49	0,60	0,96	0,80
2500	0,63	0,72	0,85	0,91
3150	0,78	0,85	0,83	0,63
4000	0,86	0,89	0,84	0,78
5000	0,91	0,90	0,85	0,64
6000	0,94	0,85	0,69	0,77

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