



AbFoam NF

Abfoam NF is a highly modified, flexible, open celled polyurethane acoustic foam offering excellent sound absorption characteristics, whilst meeting the test criteria of some of the highest fire-resistant testing standards and is now classified to European standard EN 13501 B-s1, d0 along with BS476 pt6 & pt7 Class 0 & UL94 V-O.



Key Features and Benefits

- Excellent sound absorption properties
- Multiple fire test standards
- Chemically inert
- Will not dust or migrate when subjected to air flow
- Flexible and can be cut or pressed in to shapes

AbFoam

Industry & Applications

- Building & Construction
- Transport = Automotive, Rail & Military
- Plant and Machinery
- Marine acoustics
- Compressors and generators
- HVAC equipment
- Ducts and pipes
- OEM (Original Equipment Manufacturers)

Technical Information

Product	Abfoam NF
Type	Impregnated PU Foam
Colour	Dark Grey
Density	>90kg/m ³
Thickness	6mm – 100mm
Sheet Size	2000mm x 1200mm
Operating Temperature	-30°C to 100°C

Facings & Materials

- Pressure sensitive self-adhesive backing
- Aluminum Foil
- Vinyl facings
- Hypalon facing
- Used as part of Coustilam

Acoustic Performance

Product	Thickness mm	Sound Absorption Coefficient (BS EN ISO 354)						Absorber Classification	NRC	α_w
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz			
Abfoam NF	12	0.04	0.11	0.22	0.30	0.39	0.49	D	0.25	0.30
	25	0.10	0.25	0.43	0.52	0.54	0.70	D	0.45	0.45
	50	0.20	0.51	0.74	0.75	0.78	1.02	C	0.70	0.75

* Absorber Classifications tested in accordance with BS EN ISO 11654:1997

Technical Advice

Highly qualified building and acoustic consultants are available to offer assistance and advice to clients, architects and contractors on all aspects of noise control to ensure design specifications and acoustic performance requirements are achieved. They can also undertake noise surveys and provide details of anticipated reverberation times pre and post installation.

Fire Performance

EN 13501-1 Euro Class*	B-s1, d0
BS 476 Part 7 (Fire Propagation Index) *	<12
BS 476 Part 6 (Surface Spread of Flame) *	Class 1
Building Regulations A13(b)*	Class 0
ASTM E84-95 Surface Burning Behavior	ASTM E84-95
ASTM C411-04 Hot Surface Performance @ 100°C 96hr	Pass
ASTM E84-95 Surface Burning Behavior	Class A
UL94 Classification	94 V-0

*Certification of Euroclass and the Building Regulations relate to tested thicknesses 6mm to 50mm

Further Testing

ASTM C1071-05 127 Air Erosion Resistance	Pass
ASTM D-2020-92 Mildew(Fungus) Resistance	Does not support growth
ASTM G21-96	Does not support growth
Building Regulations A13(b)*	Class 0
ASTM E84-95 Surface Burning Behavior	ASTM E84-95
ASTM C411-04 Hot Surface Performance @ 100°C 96hr	Pass
ASTM E84-95 Surface Burning Behavior	Class A
UL94 Classification	94 V-0

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