

# Acusticell BS

## General description

ACUSTICELL BS is a light weight, flexible, open-cell, melamine based acoustic quality foam having excellent flame and heat resistance.

It exhibits a very low degree of flammability, does not drip upon ignition, ceases to burn after removal of source of ignition.

Its cellular composition allows use even in low temperatures without altering or weakening the structure.

Compared with some similar acoustical products, ACUSTICELL BS has better strength, lower compression set and higher resiliency.

The versatility and uniqueness of ACUSTICELL BS make the product "attractive" to many fields of application, from the transport market to the air conditioning systems up to the production of renewable energy.

It is recommended for use as acoustic or thermal insulation, where light weight, heat resistance and fire safety is of utmost concern.

Compliance with regulations and light weight make it one of the main products applied in the field of insulation on rail transport systems (standard and high-speed trains).

Combinations of ACUSTICELL BS with superficial protective or decorative films (Embossed Aluminium, Technical Textiles, etc) or with heavy septum or with visco-elastic damping layers are available.

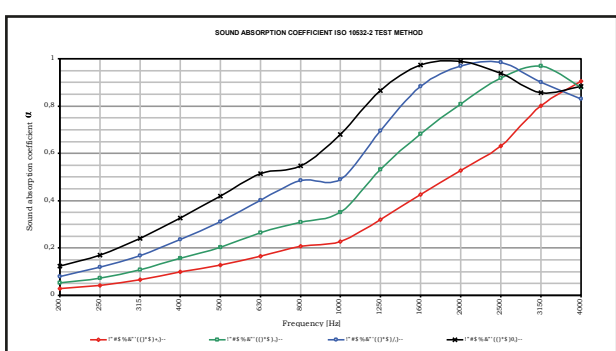
ACUSTICELL BS can be supplied with high performance pressure sensitive adhesive for ease of installation.

### Typical properties

	TEST METHOD	VALUE
Density	EN ISO 845	9 (+2/-1) kg/m <sup>3</sup>
Tensile strength *	ISO 1798	>115 kPa
Elongation at break *	ISO 1798	>20%
Compressive strength *	EN ISO 3386-1	>6 kPa
Compression set 50%, 70°C, 22 h 50%, 20°C, 72 h	DIN 53572 DIN 53572	5 ÷ 30% 10 ÷ 35%
Thermal Conductivity at 10 C	DIN 52612	≤0,035 W/m·K
Maximum application temperature (defined in ISO 3386-1)	DIN EN ISO 2578	220°C x 1000 h
		200°C x 5000 h
		180°C x 20000 h

\* average value

Fire behaviour	EN 13501-2	B/C
	DIN 4102-1	B1
	DIN 5510-2	S4, ST2, SR2
	NF P 92-507	M1
	FMVSS 302	COMPLIANT (0 mm/min)
	UL 94	V-0 HF-1
	BS 476	CLASS 1 (part 7)
Colour		Light gray (white on demand)
Sound absorption	ISO 10532-2	See enclosed chart



### Material Size

- Standard thickness: 10, 15, 20, 25, 50 mm ± 1,5 mm
- Standard sheet size: 1250 x 2500 mm; 1250 x 1250 mm -0 +50mm
- Different sizes are available on request.