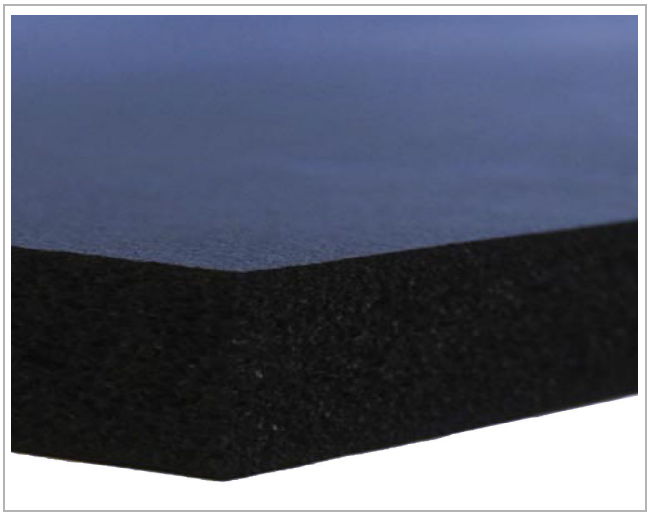
Thermal Insulation

LAMA



Description

Lamacell thermal insulation is an elastomeric rubber; black in colour with a smooth tough outer skin and due to its flexibility is easily applied to curved surfaces or deformed to fit complex shapes.
The material has the additional benefit of being exceptionally fire resistive, meeting the requirements of Class '0' to Building Regulations.

Installation

The material is normally adhered to the background surface using a separate adhesive or by means of the optional self-adhesive backing (contact our technical team for a specification sheet on self-adhesive films for properties and limitations).

Additionally the product can be mechanically fixed (using large headed fixings or spreader washers). Our insulation support pins and non-return washers represent a suitable fixing.

Environment

• It contains no Volatile Organic Compounds (VOCs) and no very Volatile Organic Compounds (vVOCs)
• Zero Ozone Depleting Potential
• Global Warming Potential of less than 5
• Recyclable

Benefits

- Class '0' and UL94 - V0 fire rated
- Built in vapour barrier preventing condensation
- Reduces energy loss by up to 87%
- Lightweight and flexible: ease and speed of installation
- Excellent resistance to the effects of ozone, oil, chemicals

Acoustic Performance

Thickness (mm)	Sound Absorption Coefficients					
	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
6	-0.01	0.03	0.07	0.15	0.21	0.39
10	0.02	0.04	0.08	0.18	0.51	0.4
19	0.02	0.10	0.28	0.84	0.41	0.43
32	0.09	0.16	0.49	0.55	0.23	0.24

Technical Specification

Form supplied (mm)	Roll width: 1000 nominal Other forms: Linear 3D sections and die-cut parts
Standard thickness (mm)	3, 6, 9, 13, 19, 25, 32 Other thicknesses may be available on request.
Colour	Black foamed nitrile rubber
Working temp range	-50°C ~ +105°C
Density	60kg/m3
Thermal conductivity	0°C: 0.034w/mK +20°C: 0.036w/mK +40°C: 0.038w/mK
Water vapour permeability (EN ISO 9346)	Resistance: 7,000 Permeability: 2.79 x 10
Water absorption (ASTM C 209)	0.2% by volume
Water vapour resistance (EN ISO 13469; EN ISO 12086)	Moisture Resistance Factor μ ≥ 10 000
Salt spray	Superficial damage over 5 days exposure
Reaction to fire	Class '0' to Building Regulations

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Fire Performance

BS476-6/7	Fire propagation index Surface spread of flame	BS476, Part 6: I<12, i1<6 BS476, Part 7: Class 1 Class 0 to Building Regulations UL94: V0			
ISO 5658-2	Critical flux at extinguishment	1	CFE	43,32	HL3
ISO 5659-2: 50 kW/ m^2 without pilot flame	Specific optical density at 4 minutes	3	Ds(4)	196,3	HL2
	Cumulative value of optical density of smoke in the first 4 minutes of the test	2	VOF4	380,65	HL2
	Conventional index of toxicity, General products	2	CITg	0,04	HL3
ISO 5660-1: 50kW/m2	Maximum average rate of heat emission	1	MARHE	18,6	HL3
EN ISO 11925-2: Surface Exposure, 30s	Flame spread within 60s	Fs>/=150mm		NO	Official Rating: HL1/HL2
	Flaming droplets	Ignition of filter paper		none	

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