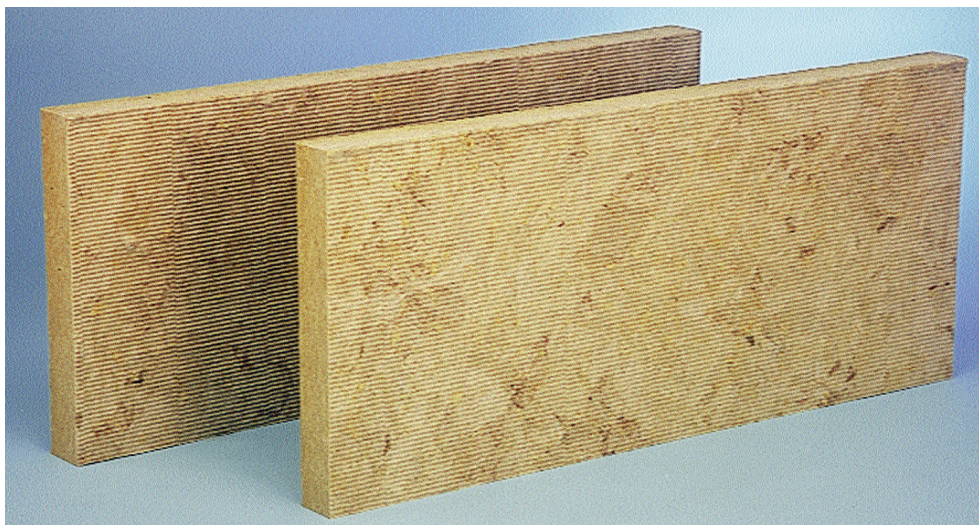


Rock Fibre Slabs

Description

Rock Fibre Slabs are manufactured from non-combustible rock fibre bonded with a high performance binder.



They are designed for the thermal and acoustic insulation of flat and curved surfaces.

Rock Fibre Slabs are available in semi-rigid and rigid slabs and in a range of densities to suit almost any thermal or acoustic insulation application. They can be supplied cut to size and shape, and can be faced or totally enclosed in a wide range of materials including aluminium foil, tissue and glass cloth.

Colour - Greyish Brown

Application

Rock Fibre Slabs are used extensively for thermal and acoustic insulation in domestic, commercial and industrial buildings; in original equipment such as cookers, boilers, tanks, vessels, generators, industrial plant and equipment, ceiling tiles and marine, road and rail transport.

Operating Temperature

Rock Fibre Slabs can be used at continuous operating temperatures up to 230°C and up to 850°C in selected applications. Further details available on request.

Fire Performance

Rock Fibre Slabs achieve a Euroclass A1 fire rating (non-combustible) when tested in accordance with BS EN 13501-1.

They are non-combustible, when tested in accordance with BS476: Part 4: 1970 (1984).

They comply with the Class 'O' requirements of the Building Regulations, when tested to BS476: Part 6: 1981 and Part 7: 1987.

Thermal Conductivity

Density Kg/m ³	Thermal Conductivity W/mK (Tested in accordance with BS874)								
	Mean Temperature °C								
	10	25	50	100	150	200	250	300	350
33	0.035	0.037	0.040	0.052	0.069	-	-	-	-
45	0.033	0.035	0.038	0.049	0.061	0.079	-	-	-
60	0.033	0.034	0.037	0.046	0.057	0.071	0.089	-	-
80	0.033	0.034	0.037	0.044	0.054	0.066	0.080	0.097	-
100	0.033	0.034	0.037	0.044	0.052	0.062	0.074	0.088	0.104

Data Sheet
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Acoustic Performance

Typical test data is given below for comparative purposes. The letter (S) denotes results obtained with a solid backing and the letter (C) denotes results obtained with a 300mm cavity behind the insulation.

Density Kg/m ³	Thickness mm	Sound Absorption Coefficients						
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC †
33	(S) 50	0.10	0.60	0.90	1.00	1.00	0.95	0.88
	(S) 75	0.24	0.53	0.89	0.94	0.96	0.98	0.83
45	(S) 25	0.05	0.25	0.55	0.75	0.90	1.00	0.61
	(S) 50	0.25	0.65	1.00	1.00	1.00	0.95	0.96
	(C) 50	0.45	0.95	0.80	0.95	0.95	1.00	0.91
	(S) 75	0.50	1.00	1.00	1.00	1.00	0.95	1.00
	(S) 100	0.80	1.00	1.00	1.00	1.00	1.00	1.00
60	(S) 25	0.10	0.20	0.65	0.85	1.00	0.90	0.68
	(S) 50	0.25	0.65	1.00	1.00	1.00	0.95	0.98
	(C) 50	0.45	0.90	0.80	0.90	0.95	0.95	0.86
	(S) 75	0.55	1.00	1.00	1.00	1.00	1.00	1.00
80	(S) 25	0.06	0.23	0.56	0.88	1.00	1.00	0.66
	(S) 40	0.14	0.61	1.00	1.00	1.00	1.00	0.90
	(S) 50	0.16	0.72	1.00	1.00	1.00	1.00	0.93
	(S) 60	0.25	0.90	1.00	1.00	1.00	1.00	0.97
	(S) 75	0.39	1.00	1.00	1.00	1.00	1.00	1.00
	(S) 100	0.59	1.00	1.00	1.00	1.00	1.00	1.00
100	(S) 25	0.05	0.30	0.70	0.95	1.00	1.00	0.75
	(S) 50	0.35	0.85	1.00	1.00	1.00	1.00	1.00
	(C) 50	0.65	0.95	0.80	0.90	0.95	1.00	0.90

†NRC (Noise Reduction Coefficient) is the average coefficient over the frequency range 250-2000Hz inclusive.

Dimensions and Density

Rock Fibre Slabs can be die-cut to size and shape.

Density Kg/m ³	Dimensions mm	Depending on density any thickness can be cut ± 2mm	
		from a minimum of:	to a maximum of:
33	1000 x 600	15mm	100mm
45	1200 x 600	15mm	100mm
60	1200 x 600	10mm	100mm
80	1200 x 1000	n/a	50mm
100	1200 x 600	8mm	100mm

Note: Other slab sizes, density and thicknesses may be available subject to minimum order quantities. Further details available on request.

Permanence

Rock Fibre Slabs are rot-proof, odourless, non-hygroscopic, will not sustain vermin and will not encourage the growth of fungi, mould or bacteria. They do not settle under vibration, when tested in accordance with BS2972: 1975 and are dimensionally stable under varying conditions of temperature and humidity.

For Further Information

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