Mineral wool

Slab

Product description

Mineral wool slab is an economical, bonded mineral fibre board for thermal and sound control applications. Its fine fibre, semi-rigid composition makes mineral wool slab easy to handle. This product is available in a number of densities with different facing options if needed. The range of densities makes mineral wool slab adaptable for industrial applications in a broad scope of low or high temperature applications. This product absorbs less than 1% moisture, is vermin proof and mould resistant. On initial start-up only, heat rise should not exceed 9°C per minute to allow the binder to dissipate without excessive temperature rise. Thermal conductivity is not affected.

Product options

Recycled Content Options[1]: Standard Fibre 70%

[1]Recycled content options other than Standard must be specified at time of order.

Standard sizes

Product Name	Nominal Density	Thickness*	Widths**	Lengths**
Mineral Wool Slab 350	min. 48kg/m3	40mm, 50mm	900mm	1200mm
Mineral Wool Slab 450	64kg/m3	25mm, 40mm, 50mm, 75mm, 100mm	900mm	1200mm
Mineral Wool Slab 650	80kg/m3	25mm, 40mm, 50mm, 75mm	900mm	1200mm

*Other Thicknesses Available **Other sizes available POA.

Technical data

Thermal Conductivity Tested to ASTM C 518								Tested to ASTM E 84 Unfaced	
Nominal Density	23.9°C	65.6°C	93.3°C	148.9°C	204.4°C	260.0°C	371.1°C	Flame Spread	Smoke Developed
40kg/m3	0.037	-	0.058	0.074	-	-	-	0	0
48kg/m3	0.036	-	0.050	0.065	-	-	-	0	0
56kg/m3	0.036	-	0.050	0.063	-	-	-	0	0
64kg/m3	0.035	-	0.049	0.061	0.074	0.087	-	0	0
72kg/m3	0.035	-	0.048	0.059	0.071	0.084	-	0	0
80kg/m3	0.035	-	0.045	0.057	0.069	0.082		0	0
96kg/m3	0.035	-	0.043	0.055	0.066	0.081	-	0	0
112kg/m3	0.035	-	0.043	0.053	0.065	0.079	-	0	0
128kg/m3	0.035	-	0.042	0.050	0.062	0.076	-	0	0
144kg/m3	0.035	-	0.040	0.049	0.061	0.074	-	0	0
160kg/m3	0.035	0.039	-	0.049	-	0.069	0.097	0	0
192kg/m3	0.036	0.040	-	0.049	-	0.068	0.088	0	0

[1]Degrees represent mean temperature

Maximum Hot Surface Temperature One Side (enclosed panel) per ASTM C 411	
Nominal Density	Maximum °C
48kg/m3	350
64kg/m3	450
80kg/m3	649

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NRC Data: Coefficients at Frequencies per ASTM C 423								
Nominal Density	**Thickness**	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**NRC**
64kg/m3	25.4mm	0.06	0.24	0.58	0.81	0.85	0.90	0.60
96kg/m3	25.4mm	0.07	0.24	0.62	0.87	0.91	0.91	0.65
128kg/m3	25.4mm	0.10	0.37	0.82	0.97	0.91	0.89	0.75
192kg/m3	25.4mm	0.09	0.31	0.77	0.96	0.99	0.94	0.75
48kg/m3	50.8mm	0.35	0.63	1.11	1.13	1.07	1.06	1.00
64kg/m3	50.8mm	0.33	0.71	1.13	1.15	1.08	1.09	1.00
80kg/m3	50.8mm	0.35	0.75	1.14	1.10	1.05	1.07	1.00
96kg/m3	50.8mm	0.36	0.79	1.15	1.04	1.01	1.04	1.00
128kg/m3	50.8mm	0.35	0.84	1.08	1.04	0.96	0.93	1.00
192kg/m3	50.8mm	0.40	0.79	0.78	0.94	0.94	0.87	0.85
40kg/m3	101.6mm	0.83	1.19	1.27	1.12	1.12	1.13	1.20
48kg/m3	101.6mm	0.95	1.20	1.22	1.11	1.08	1.08	1.15
64kg/m3	101.6mm	1.01	1.26	1.23	1.13	1.11	1.09	1.20
96kg/m3	101.6mm	1.15	1.17	1.18	1.03	1.06	1.08	1.10

Standards compliance

ASTM E 136	Rated Non-combustible per NFPA Standard 220
ASTM C 665	Non-Corrosive
MIL-I-24244	Meet applicable analysis for austenitic stainless steel
ASTM C 612	48.1 kg/m3 IA 64.1-72.1 kg/m3 1A, 1B, II 96.1-128.1 kg/m3 Type 1A, 1B, II, III, IVA
ASTM C 612	144.2 - 160.2 kg/m3 1A, 1B, II, III, IVA, IVB 192.2 kg/m3 1B, II, III, IV (Expect linear shrinkage over 704.4°C)
ASTM C 553	48 kg/m3-192 kg/m3 Type III
ASTM C 1104	Absorption less than 1% by volume
ASTM C 165	192.2 kg/m3 - 28.25kPa @ 10% compression, 160.2 kg/m3 - 22.02kPa @ 10% compression

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