

ROCKWOOL

FIBERTEX-R120 Compression Board

DATA SHEET

Product Description

Fibertex-R120 is highly density thermal insulation with superior compressive strength, specially designed to bear heavy load. It consists of long, fine fibres spun from molten natural rock bonded by thermosetting resin.

Fibertex-R120 is supplied as rigid sheet which not easy to bend. Slitting or kerfing should need to conform curved surface for closely attachment.



Fibertex-R120 Rockwool

Applications

Fibertex-R120 provides superior performance of thermal resistance, sound absorption and compression resistance in wide ranges of building and industrial applications. These advantages are particularly useful where the insulation may be subjected to mechanical loads or vibrations. Fibertex-R120 is suitable for resilient load-bearing characteristic required in vibration isolation of wall, floor and other structures.

Standard Sizes & Packaging

Thickness (mm)	Sheet Size (mm x mm)	Pieces/pack
25	1200 x 600	8
30	1200 x 600	8
40	1200 x 600	6
50	1200 x 600	4
60	1200 x 600	4
70	1200 x 600	3
80	1200 x 600	3
90	1200 x 600	3
100	1200 x 600	3
120	1200 x 600	2

Note: Not all of these standard sizes are held in stock. Some are subject to minimum order quantities. Standard packaging is shrink-wrapped.

Nominal Density

120 kg/m³ (7-1/2 lb/ft³).

Maximum Service Temperature

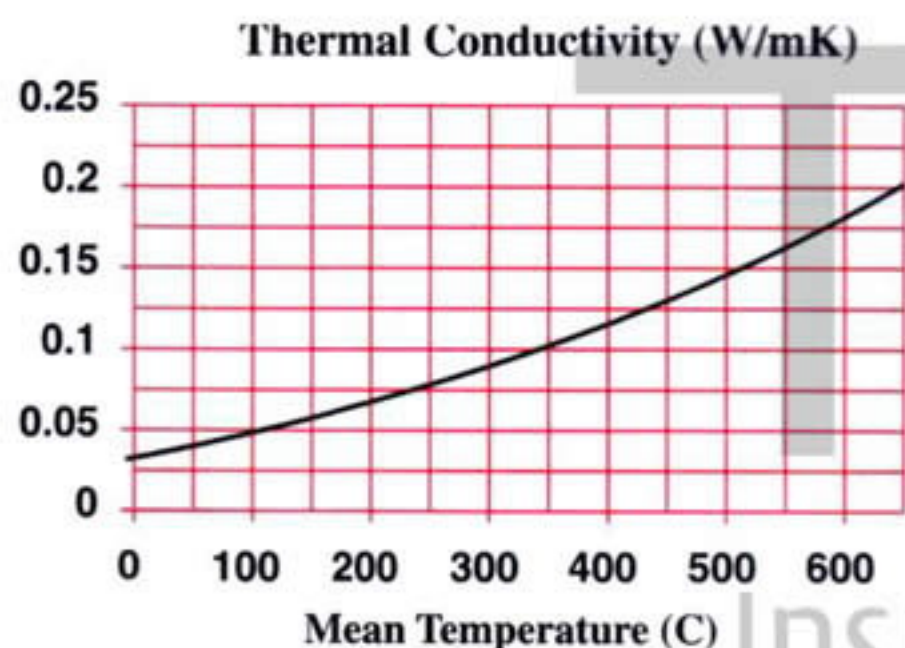
Recommended operating temperature up to 650 °C (1202 °F)
Capability of handling intermittent temperature up to 1000 °C (1832 °F). At high-temperature, R120 demonstrates higher compression resistance than lower density.

Fusion Temperature

Fusion temperature or Melting point of rockwool at 1350 °C (2462 °F)

Thermal Conductivity

0.034 W/mK at 20 °C mean temperature (0.235 Btu in/ft²h°F at 68 °F)



Thickness (mm)	Thermal Resistance	
	m ² K/W	ft ² h°F/Btu
50	1.47	8.4
60	1.77	10.0
70	2.06	11.7
80	2.35	13.4
90	2.65	15.0
100	2.94	16.7

Microbial Resistance

Bradford Rockwool should not support microbial growth such as bacteria and fungi.

Factory Applied Facings

Product is available to order with wide ranges of factory facings such as various grades of aluminium foil, fibreglass cloth, flex-skin (polyester) laminate.

Fire Performance

Bradford Rockwool achieve four zero of Early Fire Hazard Indices when tested with AS 1530 : Part 3-1976 (same as BS 476 : Parts 5, 6, and 7;1967) for non-combustible material.

Ignitability	(0-20)	0
Spread of Flame	(0-10)	0
Heat Evolved	(0-10)	0
Smoke Developed	(0-10)	0

Moisture Resistance

Exposure to an atmosphere of 50 °C and 95% relative humidity for 96 hours results in moisture absorption of less than 0.2% by volume. Should insulation become wet, full thermal efficiency will be restored on drying out.

Corrosion Resistance

Fibertex-R120 is faintly alkaline and not accelerated with steel, copper or aluminum. When tested in accordance with BS 3958: Part 5: 1969, results in range of pH 7.5 to 8.0. Fibertex-R120 contain less than 15ppm soluble chlorides.

Acoustic Properties

When tested in accordance with AS 1045;1971, will get sound absorption coefficient as shown in the table.

Thickness (mm)	Centre Frequency (Hz)							
	125	250	500	1000	2000	4000	5000	NRC ⁺
25	0.02	0.30	0.82	1.10	1.06	1.02	1.20	0.77
50	0.50	0.74	1.20	1.20	0.98	1.14	1.19	0.95

NRC⁺ is the average sound absorption coefficient between 180 to 2800 Hz .

Compression Resistance

Fibertex-R120 is a resilient material which readily returns to original shape after removal load. The result between reduction in thickness (%) versus compressive load (kPa) following BS-2972;1975 :

