

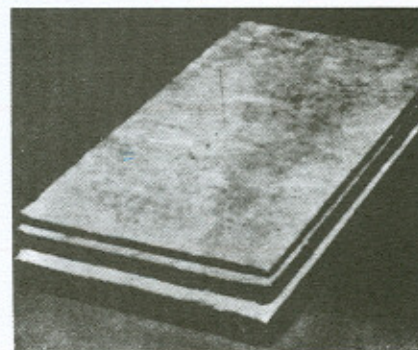
Fibertex-R150 High Compression Board

Rockwool Data Sheet

Product Description

Fibertex-R150 is a high density thermal insulation material with superior resistance to compression. It consists of long fine fibres spun from molten natural rock bonded with a thermosetting resin.

Fibertex-R150 is supplied as rigid sheet which is not easy to bend.



Fibertex-R150 Rockwool

Applications

Fibertex-R150 provides superior thermal resistance, sound absorption and compression resistance in a wide range of building and industrial application, and is particularly useful where a rigid product is required.

Fibertex-R150 also provides the resilient load-bearing characteristics required for vibration isolation in walls, floors and other structural elements. It is particularly suited to built-up roofing construction.

The product acts as a fire barrier when applied withmescent coating.

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

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

Nominal Density

150 kg/m³ (9.4 lb/ft³)

Maximum Service Temperature

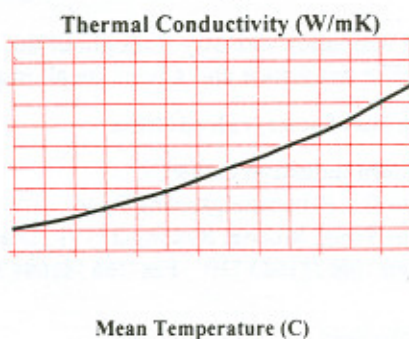
Maximum Service Temperature up to 650 °C (1202 °F)

Capability of handling intermittent temperature up to 1000 °C (1832 °F)

Note: At temperatures above 250 °C the resin binder undergoes changes which reduce the resistance to compression. However, even at elevated temperatures Fibertex-R150 offers superior compression resistance when compared with lower density.

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.

Fire Performance

When tested in accordance with AS 1530 : Part 3-1973, Fibertex-R150 has the following Early Fire Hazard Indices:- (AS 1530 : Part 3-1976 specifies similar test procedures to BS 476 : Parts 5, 6 & 7 : 1968). Fibertex-R150 is non-combustible that suitable for fire resistance applications.

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-R150 is faintly alkaline and is incapable of corroding steel. To maintain this condition, protection must be provided against contamination from external sources. When tested in accordance with BS 3958: Part 5-1959, Fibertex-R150 has a pH of 7.5-8.0.

Acoustic Properties

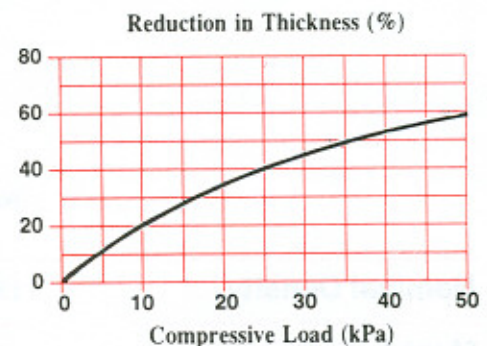
When tested in reverberation chamber in accordance with AS 1045-1971 the sound absorption coefficients shown in the table are achieved:

Thickness (mm)	Centre Frequency (Hz)							NRC*
	125	250	500	1000	2000	4000	5000	
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 over the 180 to 2800 Hz range.

Compression Resistance

Fibertex-R150 is not substantially compressed by normal working loads. The graph shows the reduction in thickness of Fibertex-R150 under compressive load, measure in accordance with BS 2972 : 1975.



CSR Bradford Rockwool technology is well accepted and recognised by the insulation industry throughout the world. Our sales and technical executives are well trained and always prepared to offer assistance and advice on all inquiries.

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CSR web site : <http://www.csr.com.au>

CSR's policy is one of continual product development. Therefore, details as published may be subject to change.