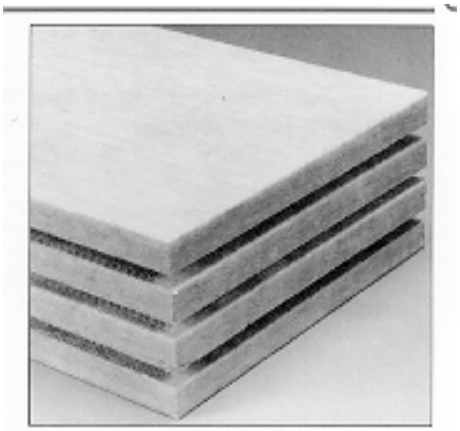
Bradford Insulation

Glasswool Quietel™ Data Sheet

Product Description



Quietel Glasswool

Bradford Glasswool Quietel is an insulation manufactured from glasswool bonded with a thermosetting resin that delivers excellent thermal and acoustic performance.

Glasswool Quietel is a high density board with superb impact and compression resistance.

Applications

Glasswool Quietel is an excellent acoustic and thermal insulator for both sound transmission and absorption while providing excellent thermal resistance. Quietel also has superior compressive resistance for use in trafficable areas.

Standard Sizes and Packaging

Thickness	Size	Pieces/Pack
13mm	2400mm x 600mm	8
25mm	1500mm x 1200mm	10
25mm	2400mm x 1200mm	2
50mm	1500mm x 1200mm	5
50mm	2400mm x 1200mm	1

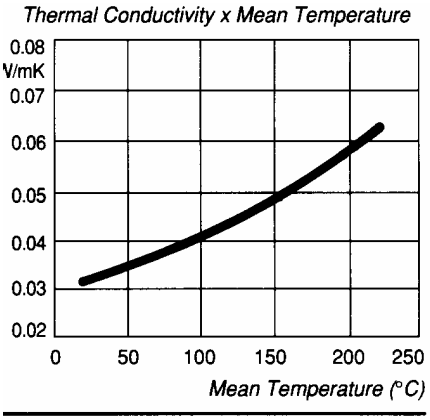
Standard packaging is a polythene bag. Nominal weight per 25mm thickness is 3.25kg/m^2.

Factory Applied Facings

Standard factory applied facings are available. Various grades of Thermofoil as well as black or plain glass tissue can be adhered to Quietel to meet the needs of the application.

Please contact your nearest Bradford sales office with your requirements.

Thermal Conductivity



0.031 W/mK at 20°C mean.

The thermal conductivity of Quietel Glasswool varies with the mean temperature of the insulation as shown in the graph.

The curve is based on measurements made in accordance with AS2464 Parts 5 and 6.

Maximum Service Temperature

Maximum service temperature: 350°C.

Fire Resistance Properties

When tested in accordance with AS/NZS 1530.3:1999, Glasswool Quietel has the following fire indices:

Ignitability	0
Spread of Flame	0
Head Evolved	0
Smoke Developed	0

Corrosion Resistance

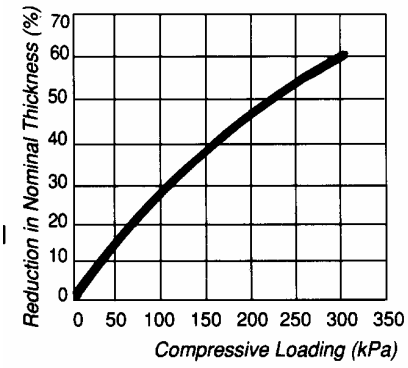
Glasswool Quietel is faintly alkaline and will not corrode steel. To maintain this condition, protection must be provided against contamination from external sources. When tested in accordance with BS 3958 Part 5—1986, Glasswool Quietel has a pH of 7.5-8.0.

Moisture Resistance

Exposure to an atmosphere of 50°C and 95% relative humidity for four days results in moisture absorption of less than 0.2% by volume.

If the insulation becomes wet, full thermal efficiency will be restored on drying out.

Compression Resistance



Glasswool Quietel is a resilient insulation material which readily recovers to its nominal thickness after the removal of a normal compressive load.

When tested in accordance with ASTM C165-1 983 'Measuring Compressive Properties of Thermal Insulation', Glasswool Quietel compresses under load as shown in the graph.

Sound Absorption

Glasswool Quietel exhibits the following sound absorption coefficients when tested in accordance with AS 1045-1988 'Measurement of Absorption Coefficients in a Reverberation Room' (Mounting No. 4 - Laid flat on floor.)

Thickness (mm)	Facing	Frequency (Hz)							
		125	250	500	1000	2000	4000	5000	NRC
13	Nil	0.06	0.08	0.28	0.62	0.86	1.06	1.04	**0.45**
25	Nil	0.07	0.28	0.74	1.04	1.13	1.09	1.11	**0.80**
50	Nil	0.36	0.81	1.12	1.18	1.11	1.12	1.22	**1.05**

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