

FI48 Rigid Glasswool Sheets and Acoustic Blanket Medium weight equipment insulation

Description

FI48 Rigid Glasswool Sheets and Acoustic Blanket provide an excellent balance of both thermal and acoustic insulation properties, which render them suitable for a broad range of industrial applications. They are particularly suited to the mechanical services industry where design requirements dictate optimum performance from internally lined air conditioning ducts, plant room and equipment casings. In such applications, FI48 Rigid Glasswool Sheets and Acoustic Blanket offer the additional benefits of high compressive strength and clean, accurate fabrication.

Product Data

| Material R-value m ² K/W | Thickness mm | Sheet width mm | Sheet length mm | Roll width mm | Roll length m | Density kg/m ³ | Density kg/m ³ | Mass/uit area kg/m ³ |
|-------------------------------------|--------------|----------------|-----------------|---------------|---------------|---------------------------|---------------------------|---------------------------------|
| R0.8 | 25 | 1200 | 2400 | 1200 | 15 | 48 | 48 | 1.2 |
| R1.2 | 38 | 1200 | 2400 | - | - | 48 | 48 | 1.8 |
| R1.5 | 50 | 1200 | 2400 | 1200 | 75 | 48 | 48 | 2.4 |
| R2.3 | 75 | 1200 | 2400 | - | - | 48 | 48 | 3.6 |
| R3.0 | 100 | 1200 | 2400 | - | - | 48 | 48 | 4.8 |

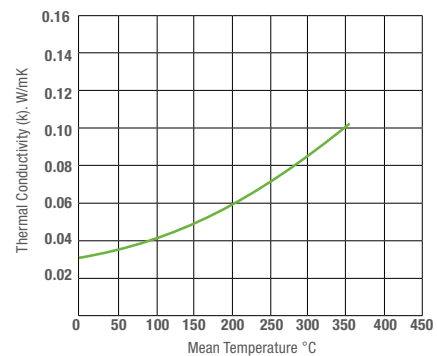
Thermal Performance

The R-value of FI48 Rigid Glasswool Sheets and Acoustic Blanket is determined in accordance with AS/NZS 4859.1. The thermal conductivity of FI48 Rigid Glasswool Sheets and Acoustic Blanket at a mean temperature* 23°C is 0.032 (at 20°C it is 0.031 W/mK) when tested in accordance with ASTM C177. Values of thermal conductivity may be obtained from the graph.

$$*\text{Mean Temperature} = \frac{T1 + T2}{2}$$

Where T1 = temperature of hot side of insulation (°C)

Where T2 = temperature of cool side of insulation (°C)



Fire Hazard Properties

FI48 Rigid Glasswool Sheets and Acoustic Blanket material is not deemed combustible according to the test criteria specified in Clause 3.4 of AS 1530.1:1994.

| Test Results | |
|-------------------------------------|-----------------|
| Test Method/Standard | Unfaced |
| Combustability (AS/NZS 1530.1:1994) | Non combustible |

Moisture Absorption

Tested in an atmosphere of 65% relative humidity at 20°C in accordance with British Standard 2972. The moisture content of FI48 Rigid Glasswool is less than 0.1% by volume.

Acoustic Performance

FI48 Rigid Glasswool Sheets and Acoustic Blanket has the following sound absorption coefficients when tested in accordance with AS1045 by the Reverberation Room Method (Mounting N4-laid flat on floor):

| Product | Nominal thickness mm | Sound absorption coefficients (reverberation) at frequencies (Hz) of: | | | | | |
|---|----------------------|---|------|------|------|------|------|
| | | 125 | 250 | 500 | 1000 | 2000 | NRC |
| Rigid Glasswool: Plain | 25 | 0.07 | 0.26 | 0.67 | 0.95 | 1.02 | 0.70 |
| | 50 | 0.25 | 0.85 | 1.00 | 1.00 | 1.00 | 1.00 |
| Rigid Glasswool: Black Tissue Faced | 25 | 0.08 | 0.33 | 0.73 | 0.94 | 1.04 | 0.75 |
| | 50 | 0.26 | 0.79 | 1.16 | 1.09 | 1.08 | 1.05 |
| Rigid Glasswool: Perforated Foil Faced (e.g. Sisalation® 450) | 25 | 0.11 | 0.29 | 0.77 | 1.04 | 1.03 | 0.80 |
| | 50 | 0.25 | 0.89 | 1.15 | 1.12 | 1.09 | 1.05 |

Environmental Properties

Fletcher Insulation avoids the use of Ozone Depleting Potential (ODP) substances in the manufacture or composition of its FBS-1 Glasswool Bio-Soluble Insulation® and Sisalation® reflective foil products.

Health and Safety

FBS-1 Glasswool Bio-Soluble Insulation® is safe to use and meets the criteria of the Australian Safety and Compensation Council (formerly NOHSC) to be classified as non-hazardous. Fletcher Insulation™ glasswool can be used with confidence in any residential, commercial or industrial application.

Technical Specification

When specifying, state the following:

The insulation material shall be Fletcher Insulation FI48 Rigid Glasswool _____ (specify 'Sheets' or 'Acoustic Blanket').



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