BARON INSULATION

Technical Data Sheet

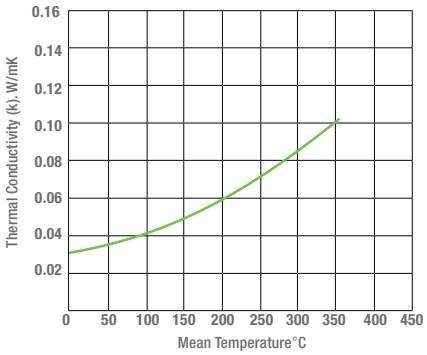
GLASSWOOL 48kg RIGID
SHEETS AND ACOUSTIC BLANKET
MEDIUM WEIGHT EQUIPMENT INSULATION

Description
Glasswool 48kg Rigid 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, Glasswool 48kg Rigid 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
R3.0	100	1500	2400	–	–	48	48	4.8

Thermal Performance
The R-value of Glasswool 48kg Rigid Sheets and Acoustic Blanket is determined in accordance with AS/NZS 4859.1. The thermal conductivity of Glasswool 48kg Rigid 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.



*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
Glasswool 48kg Rigid 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

For more information
call (03) 8773 9300

email mail@baroninsulation.com.au or
web www.baroninsulation.com.au

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Moisture Absorption

Tested in an atmosphere of 65% relative humidity at 20°C in accordance with British Standard 2972. The moisture content of Glasswool 48kg Rigid is less than 0.1% by volume.

Acoustic Performance

Glasswool 48kg Rigid 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

Baron 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

Glasswool 48kg Rigid Sheets is manufactured from FBS-1 Glasswool Bio-Soluble Insulation®. 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. Baron 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 Glasswool 48kg _____(specify ‘Sheets’ or ‘Acoustic Blanket’).

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