

PINK® THERMAL SLAB **COMMERCIAL UNDER SLAB/SOFFIT INSULATION**

Description

Pink® Thermal Slab is a highly effective soffit insulation material comprising of a semi-rigid glasswool board manufactured from up to 80% recycled glass combined with Sisalation® Heavy Duty 450 Facing Foil laminate adhered to one side and is available in various thicknesses.

Application

Pink® Thermal Slab is suitable for use in commercial under slab soffit applications where thermal and acoustic properties are pivotal in controlling noise levels and temperature fluctuations of concrete roofs, floors and walls. Pink® Thermal Slab provides excellent fire performance for ceiling lining applications achieving a AS 5637.1 Group 1 NCC fire classification. Pink® Thermal Slab delivers excellent thermal performance which in turn improves the energy efficiency of a building. Pink® Thermal Slab provides the added benefit of exceptional acoustic absorption, which allows Architects, Specifiers and Builders to satisfy both thermal and acoustic design requirements through the specification and installation of a single product.

Product data

Foil Facing	Material R-value m² K/W	Thickness mm	Width mm	Length mm	Pieces per pack	Coverage per pack m²	Product Code
Sisalation® Heavy Duty (HD) 450	R1.5	50	1200	2400	5	14.40	941107
	R2.0	66	1200	2400	3	8.64	941110
	R2.2	75	1200	2400	3	8.64	941108
	R3.0	100	1200	2400	2	5.76	941109

Physical Properties

Property	Test Method/Standard	Result	Unit
Thermal Resistance R-value	AS/NZS 4859.1	Complies	m ² K/W
Maximum Service Temperature	ASTMC 411/C447	Glasswool: 350 Facing Materials: 70	°C
pH	ASTM C871	9 (does not contribute to the corrosion of steel structures)	
Moisture Absorption	ASTM C1104	< 0.2	% by volume

Fire Hazard Properties

Pink® Thermal Slab achieves the following results when tested in accordance with the following standards:

Property	Test Method/Standard	Result
Combustability (unfaced 32kg glasswool product component only)	AS/NZS 1530.1	Non-combustible
Early Fire Hazard Indices Ignitability Index Spread of Flame Index Heat Evolved Index Smoked Developed Index	AS/NZS 1530.3	0 0 0 1
Flammability Index (Sisalation® Heavy duty 450 facing foil component)	AS/NZS 1530.2	≤ 5
Group Number	AS 5637.1	Group 1
AS ISO9705	Heat Release Rate & SMOGRA	< 100

Health and Safety

Pink® Thermal Slab 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. Fletcher Insulation™ glasswool can be used with confidence in any residential, commercial or HVAC application. Pink® Thermal Slab product contains a layer of aluminium foil and can conduct electricity. To avoid electrocution, care should be taken to ensure products do not come into contact with electrical wiring during installation or use.

Environmental Properties

Pink® Thermal Slab Glasswool is manufactured from up to 80% recycled glass which would otherwise go into landfill and be unsuitable for alternative manufacturing processes. 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. The use of Glasswool guarantees the use of Zero ODP insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOCs) are released.

Acoustic Performance Sound Absorption

Pink® Thermal Slab underslab insulation achieves the following sound absorption results when tested in accordance with AS ISO 354:

Sisalation® Heavy Duty 450 Facing Foil	Thickness mm	Sound Absorption Coefficients at Frequencies (Hz) of:						NRC	α _w
		125	250	500	1000	2000	4000		
Pink® Thermal Slab – silver reflective	50	0.35	1.00	0.90	0.45	0.20	0.15	0.70	0.25
	66	0.45	1.00	0.90	0.50	0.25	0.10	0.70	0.25
	75	0.50	1.00	0.90	0.50	0.25	0.10	0.70	0.25
	100	0.85	1.00	0.85	0.50	0.25	0.10	0.70	0.25

Technical Specification

When specifying, state the following: The insulation material shall be Fletcher Insulation Pink® Thermal Slab. The insulation shall achieve a Material R-value of R_____m²K/W (specify Material R-value) at a nominal thickness of _____mm (specify insulation thickness) and an NRC of not less than _____ (refer to the Acoustic Performance section).

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