

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 ISO 9705 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 m ² K/W	Thickness mm	Width mm	Length mm	Pieces per pack	Coverage per pack m ²	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
	R2.3	75	1200	2400	3	8.64	941108
	R3.0	100	1200	2400	2	5.76	941109

Physical Properties

Property	Test Method	Result	Unit
Thermal conductivity* @23°C	AS/NZS 4859.1	0.033	W/mK
Thermal Resistance* @23°C*	ASTM C518	Complies	m ² K/W
Maximum Service Temperature	ASTMC 411/C447	Glasswool: 350 Facing Materials: 70	°C
Akalinity	ASTM C871	9	pH
Moisture Absorption	ASTM C1104	0.2	By vol

*Pink® Thermal Slab complies with the requirements of AS/NZS 4859.1. The thermal performance of Pink® Thermal Slab insulation varies with application and installation method. For complete Total R-value guidance visit www.insulation.com.au/fletcher-specpro

Fire Hazard Properties

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

Test Method/ Standard	Property	Result
AS ISO9705-2003 (R2016)	Heat Release Rate & SMOGRA	Group 1
AS/NZS 1530.1: 1999	Combustability (unfaced 32kg glasswool product component only)	Non Combustible
AS/NZS 1530.2: 2016	Flammability Index (Sisalation® Heavy duty 450 facing foil component)	≤ 5
AS/NZS 1530.3: 1999 (R2016)	Ignitability Index Spread of Flame Index Heat Evolved Index Smoke Developed Index	0 0 0 2

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.

Environmental Properties

Semi Rigid Glasswool is manufactured from up to 80% recycled glass which would otherwise go into landfill and be unsuitable for alternative manufacturing processes.

Semi Rigid Emission rates tested to ASTM D5116:

Total Volatile Organic Compound (VOC):

Semi Rigid unfaced glasswool insulation: <0.004mg/m²/hr (24hrs)

Acoustic Performance

Sound Absorption

Pink® Thermal Slab underslab insulation achieves the following sound absorption results when tested in accordance with AS ISO 354 – 2006:

Sisalation® Heavy Duty 450 Facing Foil	Thickness mm	Sound absorption coefficients (reverberation) at frequencies (Hz) of:							
		125	250	500	1000	2000	4000	NRC	α _w
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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