Fletcher Insulation
Building Better, Together

Technical data sheet

Pink® Thermal Slab

Commercial under slab/soffit insulation

Description

Pink® Thermal Slab is a soffit insulation material comprising of a 32kg/m³ semi-rigid glasswool board manufactured from up to 80% recycled glass, faced with Sisalation® Heavy Duty 450 Facing Foil laminate adhered to one side.

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 compliant fire performance for ceiling lining applications achieving a AS 5637.1 Group 1 NCC fire classification. Pink® Thermal Slab delivers thermal performance which in turn improves the energy efficiency of a building. Pink® Thermal Slab provides the added benefit of 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.

Features and benefits

Codemark certified to AS 4859.1 for thermal performance	→	Assurance that the product meets the requirements of National Construction Code (NCC).
NRC acoustic performance properties	→	Aids in reducing sound transmission, creating more comfortable and healthy work or living spaces.
Group 1 NCC fire classification	→	Provides compliant fire performance for ceiling lining applications in accordance with AS 5637.1.
FBS-1 Bio-Soluble product	→	Safe and comfortable to handle.

Product data

Foil Facing	Material R-value m^2K/W	Thickness mm	Width mm	Length mm	Pieces per pack	Coverage per pack m^2	Old product code	New product code
Sisalation® Heavy Duty (HD) 450	R1.5	50	1200	2400	5	14.40	941107	4005602
	R2.0	68	1200	2400	3	8.64	941110	4005605
	R2.2	75	1200	2400	3	8.64	941108	4005603
	R3.0	100	1200	2400	2	5.76	941109	4005604

Physical properties

Property	Test method/standard	Result	Unit
Thermal resistance R-value	AS/NZS 4859.1	Complies	m^2K/W
Moisture absorption	When exposed to environmental conditions of 50°C and 95% relative humidity for four days	< 0.2	% by volume
Fungi resistance of insulation materials	ASTM C1338-14	Pass (No growth)	

Fire hazard properties

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

Property	Test method/standard	Result	Unit
Early Fire Hazard Indices	AS/NZS 1530.3		
Ignitability Index		0	
Spread of Flame Index		0	
Heat Evolved Index		0	
Smoke Developed Index		2	
Group number	AS 5637.1	Group 1	
SMOGRArc	≤100	AS ISO 9705	m^2/s^2 x 1000

Product limitations

Important: Do Not Modify This Product: Compliance with the evidence of suitability data referenced in this document is only achieved by the product or configuration listed.

- **Important:** Compliance with evidence of suitability data referenced in this document is only achieved when this product is produced at a Fletcher Insulation approved facility, in accordance with Fletcher Insulation specifications and approved materials.
- This product is not classified as non-combustible in accordance with AS 1530.1 and is not suitable where a non-combustible material is required.
- This product does not meet the non-combustibility or fusion temperature requirements of AS 1668.1 Clause 2.3.2.
- Compression of the product will reduce its declared material R-value.
- The maximum service temperature for this product is 70°C
- This product should not come into contact with wet concrete or alkaline materials
- This product is not suitable for use within 500m of a saltwater body in unenclosed or permanently ventilated spaces

Compliance

NCC 2022

When correctly specified and installed, the product complies with below NCC clauses and relevant standards:

- Complies to NCC Volume 1 2022 J4D3(1) and ABCB Housing provisions 2022 13.2.2(1) meeting requirements through compliance with AS/NZS 4859.1.
- When tested or assessed to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' and 'Smoke Developed' as required by NCC 2022 Volume 1, S7C7 for insulation materials.
- Achieves a Group Number of 1 and SMOGRArc ≤100 m2/s2 x 1000 in accordance with AS ISO 9705 and AS 5637.1. It may be used as an exposed wall or ceiling lining where specified by NCC Volume 1 2025 S7C4.

NCC 2025

When correctly specified and installed, the product complies with below NCC clauses and relevant standards:

- Complies to NCC Volume 1 2025 J4D3(1) and ABCB Housing Provisions 2025 13.2.2(1) meeting requirements through compliance with AS/NZS 4859.1.
- When tested or assessed to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' and 'Smoke Developed' as required by NCC 2025 Volume 1, S7C7 for insulation materials.
- Achieves a Group Number of 1 and SMOGRArc ≤100 m2/s2 x 1000 in accordance with AS ISO 9705 and AS 5637.1. It may be used as an exposed wall or ceiling lining where specified by NCC Volume 1 2025 S7C4.

Maintenance and conditions of use

- Pressure cleaners or mineral based cleaners must not be used on the foil facing product.
- Where Sisalation® Pliable Building Membranes can be inspected, ensure any tears are repaired with appropriate tape, such as Vapastop® 883 Foil Tape.
- Foil facing products should not be in contact with any corrosive environments, water or alkaline materials such as wet concrete etc.
- Ensure product is protected from physical damage during storage and avoid packaging being stored under UV light (such as direct sunlight) for extended periods.
- Product must be kept dry and not be exposed to weather in any condition including prior, during and after installation.

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: 125	250	500	1000	2000	4000	NRC	αw
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

Health and safety

Pink® Thermal Slab is manufactured from FBS-1 Glasswool Bio-Soluble Insulation®. Refer to Fletcher Insulation SUIS for more information.

Environmental properties

The glasswool component of Pink® Thermal Slab 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 Pink® Thermal Slab insulation provides Zero ODP insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOCs) are released. This allows the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

Technical specification

When specifying, please state the following:
The insulation material must be Fletcher Insulation Pink® Thermal Slab. The insulation must 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). Compliant with the thermal testing requirements of AS/NZS 4859.1, and achieves Group 1 fire classification in accordance with AS5637.1.

The following performance attributes must be specified:

- Product must be FBS-1 Biosoluble.
- Product must recover to the requirements of AS/NZS 4859.1.
- Where sound performance is required for the project, Sound Absorption level must be _____.

Installation instructions

- For the correct installation method, follow the Installation Guidelines available from insulation.com.au

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