

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.

Product limitations of use

- Not to be used or exposed to weather in any condition including prior, during and after installation. Product must be kept dry at all times.
- Not suitable for applications where high humidity is present within building (wet climates for a long period).
- The foil facing is a vapour barrier, not to be used where vapour permeable facing is required.
- Modifications not permissible, as suitability and/or compliance may be compromised.

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 ² K/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 ² K/W
Moisture absorption	When exposed to environmental conditions of 50°C and 95% relative humidity for four days	< 0.2	% by volume
Maximum service temperature	ASTM C411/C447	Glasswool: 340 Facing Materials: 70	°C
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
Combustibility (unfaced 32kg glasswool component only)	AS 1530.1	Non-combustible
Early Fire Hazard Indices	AS/NZS 1530.3	
Ignitability Index		0
Spread of Flame Index		0
Heat Evolved Index		0
Smoke Developed Index		2
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

Compliance

NCC 2019

- Complies with AS/NZS 4859.1 as referenced in NCC 2019, Volume 1 Clause J1.2(a) and NCC 2019, Volume 2 Clause 3.12.1.1.
- Complies with the Group number requirements of NCC 2019 Volume 1, Specification C1.10 Clause 4 for wall and ceiling linings.
- When tested to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices as required by NCC 2019 Volume 1, Specification C1.10 Clause 7 for insulation materials.

NCC 2022

- Complies with AS/NZS 4859.1 as referenced in NCC 2022, Volume 1 Clause J4D3 (1) and NCC 2022, Volume 2 ABCB Housing provisions Clause 13.2.2.
- Complies with the Group Number requirements of NCC 2022 Volume 1, S7C4 for wall and ceiling linings.
- When tested to AS/NZS 1530.3, this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices as required by NCC 2022 Volume 1, S7C7 for insulation materials.

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

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.

Maintenance and conditions of use

- Product should be kept dry at all times, not to be exposed to weather in any condition including prior, during and after installation.
- Foil facing should not be in contact with any corrosive environment, water or alkaline materials such as wet concrete etc.
- Use of pressure cleaners or mineral based cleaners must not be used on the facing product.
- Where Insulation can be inspected, ensure any tears in the facing are repaired with appropriate tape as highlighted in the product's installation guidelines.
- If product is compressed it will reduce the thermal performance of the product, ensure product recovers to its nominal thickness to achieve declared material R-value.
- When storing, ensure product is protected from physical damage. Avoid storing product packaging under UV light (direct sunlight) for extended periods.
- When product is installed as per the product installation guidelines, no further maintenance is required for this product.

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

© Fletcher Insulation Pty Limited 2024. Fletcher Insulation reserves the right to change product specifications without prior notification. Information in this publication and otherwise supplied to users as to the subject product is based on our general experience and is given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of products, no warranty is given or is to be implied with respect to either such information or the product itself, in particular the suitability of the product for any particular purpose. The purchaser should independently determine the suitability of the product for the intended application. The colour PINK, Pink® and Pink Batts® are registered trademarks of Owens Corning Intellectual Capital, LLC used under licence by Fletcher Insulation. FBS-1 Glasswool Bio-Soluble Insulation® is a registered trademark of ICANZ. Unless otherwise stated all ™ and ® are trademarks and registered trademarks of Fletcher Insulation Pty Limited ABN 72 001 175 355. CTDS3_Revision_4_Issue date 14062024.