

Pink® NoiseSTOP™ Acoustic decorative panels

Description

Pink® NoiseSTOP™ is a decorative insulation panel that comprises of a 32kg/m³ semi-rigid glasswool substrate that is fabricated with Durasorb®, a 100% non-woven black polyester fabric on one side.

Applications

Designed for commercial applications requiring thermal performance, acoustic control and where a black aesthetic finish is desired. It is also suitable for installation behind perforated metal linings to provide acoustic absorption and to conceal the substrate behind the metal lining for an enhanced visual appearance.

Product limitations of use

- Not to be used/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).
- This product can not be classified to AS1530.1 as an assembly, and is not suitable where non-combustible material is required.
- The facing is not a water or vapour barrier, not to be used where vapour or water control is required.
- Modifications not permissible, as suitability &/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 Type	Material R-value m ² K/W	Nominal thickness mm	Width mm	Length mm	Pieces per pack	Coverage per pack m ²	Old product code	New product code
Durasorb Facing (100% non-woven black polyester fabric)	R1.5	50	1200	2400	5	14.40	240735	4006987
	R2.2	75	1200	2400	3	8.60	240736	4006988
	R3.0	100	1200	2400	2	5.76	240748	4006991

Install using matching tape

Product	Width mm	Length mm	Rolls per carton	Old product code	New product code
Pink Noisestop Durasorb Tape	70	50	16	318833	4006808

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® NoiseSTOP™ exhibits the following characteristics when tested in accordance with the following standards:

Property	Test method/standard	Result
Combustibility (unfaced 32kg/m ³ glasswool component only)	AS/NZS 1530.1	Non-combustible
Early Fire Hazard Indices	AS/NZS 1530.3	
Ignitability Index		
Spread of Flame Index		
Heat Evolved Index		
Smoke Developed Index		2
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(a).
- 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(1).
- 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® NoiseSTOP™ achieves the following sound absorption results when tested in accordance with AS ISO 354:

Nominal thickness mm	Sound absorption coefficients (reverberation) at frequencies (Hz) of:						NRC	α _w
	125	250	500	1000	2000	4000		
50	0.25	0.80	1.00	1.00	1.00	1.00	1.10	1.00
75	0.35	1.00	1.00	1.00	1.00	0.95	1.10	1.00
100	0.74	1.19	1.10	0.96	1.02	1.05	1.05	1.00

Flow resistivity

Acoustic performance of Pink® NoiseSTOP™ products used in sound absorption applications can be measured by their resistance to air flow, this is recognised as flow resistivity.

Tested in accordance with ASTM Standard C522-03 Standard Test method for Airflow Resistance of Acoustic Materials. The following table rates the flow resistivity of Pink® NoiseSTOP™ products:

Product	Thickness mm	RAYLS/m
Pink® NoiseSTOP™ R1.5	50	21040
Pink® NoiseSTOP™ R2.2	75	20220
Pink® NoiseSTOP™ R3.0	100	17100

Health and safety

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

Environmental properties

The Glasswool component of Pink® NoiseSTOP™ 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® NoiseSTOP™ insulation provides the use of 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.
- Product's facing should not be in contact with any 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.
- 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
- Where insulation can be inspected, ensure any tears in the facing are repaired with appropriate tape as highlighted in the installation guidelines.
- 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® NoiseSTOP™ and 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 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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