

PINK® NOISESTOP™ ACOUSTIC DECORATIVE PANELS

Description

Pink® NoiseSTOP™ is a high performance decorative insulation panel that comprises of a semi-rigid glasswool substrate that is fabricated on one side with a high quality, 100% non-woven black polyester fabric.

Application

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 Data

Foil Facing Type	Material R-value m² K/W	Nominal thickness mm	Width mm	Length mm	Pieces per pack	Coverage per pack m²	Product Code
Durasorb Facing (100% non-woven black polyester fabric)	R1.2	38	1200	2400	6	17.30	240734
	R1.5	50	1200	2400	5	14.40	240735
	R2.3	75	1200	2400	3	8.60	240736
	R3.0	100	1200	2400	2	5.76	240748

Physical Properties

Property	Test Method/Standard	Result	Unit
Maximum service temperature	ASTM C411/C447	Glasswool 350 Foil 70	°C
pH	ASTM C871	9 (does not contribute to the corrosion of steel structures)	
Moisture absorption	When exposed to environmental conditions of 50°C and 95% relative humidity for four days	0.2	% by volume
Thermal Resistance R-value	AS/NZS 4859.1	Complies	m²K/W

Fire Hazard Properties

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

Property	Test Method/Standard	Result
Combustability (Glasswool)	AS/NZS 1530.1	Non combustible
Early Fire Hazard Indices	AS/NZS 1530.3	
Ignitability Index		0
Spread of Flame Index		0
Heat Evolved Index		0
Smoked Developed Index		2

Acoustic Performance

Sound Absorption

The performance of sound absorption for insulation is described by the Noise Reduction Coefficient (NRC). In sound absorption application, the NRC is used as an acoustic performance measure. The higher the NRC, the greater the sound absorption at the representative frequencies.

The Noise Reduction Coefficient (NRC) is calculated according to ASTM C423-90A and the average result of four frequencies: 250Hz, 500Hz, 1000Hz, 2000Hz.

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:						
	125	250	500	1000	2000	4000	NRC
38	0.15	0.55	1.00	1.00	1.00	0.95	0.95
50	0.25	0.80	1.00	1.00	1.00	1.00	1.10
75	0.35	1.00	1.00	1.00	1.00	0.95	1.10

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.

Flow resistivity performance is valuable when evaluating products of the same thickness and density that have varying fibre attributes.

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	21,040
Pink® NoiseSTOP™ R2.3	75	20,220
Pink® NoiseSTOP™ R3.0	100	17,100

Health and Safety

Pink® NoiseSTOP™ insulation is manufactured from FBS-1 Glasswool Bio-Soluble Insulation®. FBS-1 Glasswool Bio-Soluble Insulation® is safe to use and is classified as non-hazardous according to the criteria of Safe Work Australia. Fletcher Insulation glasswool can be used with confidence in any residential or commercial application.

Environmental Properties

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 guarantees 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.

Technical Specification

When specifying, state the following:

The insulation material shall be Fletcher Insulation Pink® NoiseSTOP™ and shall achieve a Material R-value of R_____m² K/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).

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