

ISB™ Partition Blanket

Polyester acoustic insulation for steel framed partitions

Product description and typical applications

ISB™ Partition Blanket is a lightweight acoustic insulation made from a blend of polyester fibres bonded with a low melt fibre to produce a 100% polyester insulation. Polyester fibres are made from synthetic polymers known as polyethylene terephthalate (PET) - chemical substances found mainly in petroleum. To reduce landfill, plastic drink bottles are recycled to produce a portion of the fibres used to manufacture *ISB Partition Blanket*. The strong fibres are soft to handle, making for easy installation in walls and between floors of steel framed construction where a reduction in noise transfer between rooms is desired. ISB contributes to increasing the acoustic comfort of building occupants but cannot be used as a compliant thermal insulation.

Physical characteristics

Product	Nominal Thickness (mm)	Size (mm)	Pieces Per Pack	Area Per Pack (m ²)
ISB2	50	610 x 2700	10	16.5
		450 x 24300	4	43.7
		610 x 24300	2	29.3
ISB3	65	610 x 2700	8	13.2
		450 x 16200	4	29.2
		610 x 16200	2	19.8
ISB4	75	610 x 2700	8	13.2
		450 x 16200	4	29.2
		610 x 16200	2	19.8
ISB5	85	610 x 2700	6	9.9
		450 x 13500	4	24.3
		610 x 13500	2	16.5
ISB6	100	610 x 2700	6	9.9
		610 x 10800	2	13.2

Rw 41 Tested wall system

CSIRO acoustic testing laboratory has confirmed that the wall system consisting of 92mm steel stud with one layer of 13mm standard plasterboard on either side and ISB5 infill will achieve an Rw 41 (Rw+CTR=33).

Using Acousti-Max software, Fletcher Insulation Technical Services are able to rapidly compare the noise transmission loss for different types of wall construction including concrete, brick, hebel, timber and steel with various types of wall linings and insulation infill to find out the optimum acoustic performance.

AS1530.3 Early fire hazard properties of materials

ISB Partition Blankets exhibit the following characteristics when tested in accordance with AS1530 Part 3.

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	0-3

Moisture resistance

In the event of ISB Partition Blankets becoming wet, they should be dried prior to installation to obtain maximum performance and prevent damage to other building elements.

Alkalinity

ISB Partition Blankets will not promote or accelerate the corrosion of steel or galvanised steel studs provided they are protected from external contamination.

Maximum service temperature

Fletcher Insulation ISB Partition Blankets have a maximum service temperature of 160°C.

Specification notes

State the following:

- Product name - Fletcher Insulation ISB2, 3, 4, 5, or 6 Partition Blanket
- Thickness required
- Stud spacing.



Low Allergen content with the ability to moderate temperature changes.



Fletcher[™]
Insulation

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