

Polycooustic™ Commercial

Polyester acoustic insulation for steel framed construction

Product description and typical applications

Polycooustic™ Commercial Batts (14kg/m³) are 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 *Polycooustic Commercial* Batts. The strong fibres are soft to handle and the high density gives them the rigidity required to stand in a steel stud wall cavity, making for easy installation where an improved reduction in noise transfer between rooms is desired compared to the standard ISB range, while still using a polyester product.

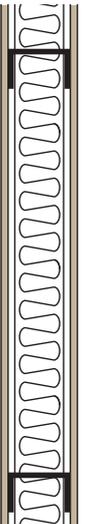
Physical Characteristics

Nominal R-value (m ² k/w)	Batt Size (mm)	Nominal Thickness (mm)	Batts Per Pack	Area Per Pack (m ²)
0.9	2700 x 610	50	8	13.2
	13600 x 450	50	4	24.5
	13600 x 610	50	3	24.9
1.4	2700 x 610	75	6	9.9
	13600 x 450	75	3	18.4
	1360 x 610	75	2	16.6
1.8	2700 x 610	100	4	6.6
	13600 x 450	100	2	12.2
	13600 x 610	100	2	16.6

Rw 44 Tested wall system

CSIRO acoustic testing laboratory has confirmed that the wall system consisting of 92mm steel stud with one layer of 13mm fire-rated plasterboard on each side and 100mm *Polycooustic Commercial* infill will achieve an Rw44 (Rw + Ctr = 36).

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.



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We safely deliver extraordinary
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AS1530.3 Early fire hazard properties of materials

Polycoustic Commercial Batts 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 *Polycoustic Commercial Batts* becoming wet, they should be dried prior to installation to obtain maximum performance and prevent damage to other building elements.

Alkalinity

Polycoustic Commercial Batts 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 *Polycoustic Commercial Batts* have a maximum service temperature of 160°C

Specification notes

State the following:

- Product name - Fletcher Insulation *Polycoustic Commercial Batts*
- Thickness required
- Stud spacing.



Low Allergen content with the ability to moderate temperature changes.



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