

TECHNICAL DATA SHEET

PINK® PARTITION COMMERCIAL THERMAL AND ACOUSTIC INSULATION FOR WALLS AND CEILINGS

Product description and typical applications

Specially designed for use in commercial metal framed partitions, walls and ceilings, Pink® Partition insulation delivers exceptional thermal and acoustic performance thereby contributing to the effective construction of comfortable, energy efficient commercial buildings. It is typically used in partition walls of low and high rise multi-residential buildings and commercial fit-out projects such as offices, schools, universities and shopping centres where acoustic control is essential. Pink® Partition may also be used as a ceiling overlay for enhanced thermal and acoustic performance.

The range encompasses multiple densities, thicknesses and dimensions to suit typical commercial steel framed studs and to satisfy a broad spectrum of building requirements. Specification and installation of Australian made, Pink® Partition insulation enables designers and builders to satisfy National Construction Code (NCC) requirements pertaining to:

Section J Energy Efficiency: Pink® Partition insulation complies to AS 4859.1:2002 including Amendment 1. This assures users the products deliver the specified thermal resistance which contribute to the operational efficiencies of the building.

Sound Insulation Provisions: Pink® Partition insulation minimises sound transfer between walls and achieves excellent R_w and R_w+C_{tr} ratings.

Fire-resistance performance: Pink® Partition insulation is deemed non-combustible and therefore will not contribute to the fuel load of a building.

Additionally, the firm, rigid composition of Pink® Partition insulation allows for friction fitting; thereby reducing installation time and costs. More importantly, the rigidity of Pink® Partition insulation assures users the product will not slump within the cavity. Slumping of insulation creates voids which in turn diminish a building systems overall thermal and acoustic performance.

Pink® Partition insulation is classified as FBS-1 Bio-Soluble Insulation® and can therefore be used with confidence in commercial building applications. Moreover, thanks to advances in formulation, Pink® Partition insulation is low itch - making it comfortable to handle during installation.

Physical characteristics

Pink® Partition 11						
Material R-value m ² K/W	Nominal thickness mm	Width mm	Length mm	Pieces per pack	Coverage per pack m ²	Product code
R1.2	50	450	1200	32	17.28	903442
		450	2700	24	29.16	903443
		600	1200	32	23.04	903444
		600	2700	16	25.92	903445
R1.8	75	450	1200	16	8.64	903446
		450	2700	24	29.16	903447
		600	1200	16	11.52	903448
		600	2700	16	25.92	903449
R2.1	90	450	1200	16	8.64	903450
		450	2700	24	29.16	903451
		600	1200	16	11.52	903452
		600	2700	16	25.92	903453
R2.5	110	450	1200	16	8.64	903458
		600	1200	16	11.52	903454
		600	2700*	10	16.20	903457
R3.5	165	600	1200	10	7.20	903463



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Pink® Partition 14						
Material R-value m²K/W	Nominal thickness mm	Width mm	Length mm	Pieces per pack	Coverage per pack m²	Product code
R1.3	50	450	1200	24	12.96	903515
		450	2700	24	29.16	903516
		600	1200	24	17.28	903517
		600	2700	16	25.92	903518
R1.9	75	450	1200	16	8.64	903715
		450	2700	18	21.87	903716
		600	1200	16	11.52	903717
		600	2700	12	19.44	903718
R2.2	90	450	1200	14	7.56	903915
		450	2700	15	18.23	903916
		600	1200	14	10.08	903919
		600	2700	10	16.20	903918

Pink® Partition 24						
Material R-value m²K/W	Nominal thickness mm	Width mm	Length mm	Pieces per pack	Coverage per pack m²	Product code
R0.7	25	600	2700	20	32.40	901022
R1.1	38	600	2700	12	19.44	901023
R1.4	50	450	1200	12	6.48	903551
		600	1200	12	8.64	903552
		600	2700	12	19.44	901024
R1.8	64	600	2700	10	16.20	901025
R2.1	75	450	1200	10	5.40	903553
		600	1200	10	7.20	903554
R2.5	90	450	1200	8	4.32	903555
		600	1200	8	5.76	903556
R2.8	100	450	1200	6	3.24	903557
		600	1200	6	4.32	903558

Pink® Partition 32						
Material R-value m²K/W	Nominal thickness mm	Width mm	Length mm	Pieces per pack	Coverage per pack m²	Product code
R1.5	50	450	1200	12	6.48	903650
		600	1200	12	8.64	903652
R2.2	75	450	1200	10	5.40	903670
		600	1200	10	7.20	903672
R2.7	90	450	1200	8	4.32	903690
		600	1200	8	5.76	903692
R3.0	100	450	1200	6	3.24	903600
		600	1200	6	4.32	903694

Note: 2700mm lengths are supplied as skip-chopped rolls.

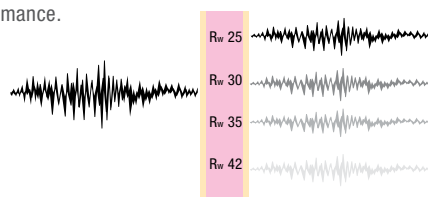
Acoustic performance

The National Construction Code (NCC) has adopted the Weighted Sound Reduction Index (R_w) as a measure of the sound isolating properties of building elements. A wall system with a higher R_w rating isolates sound better than a wall system with a lower R_w rating.

Typically an internal wall on 92mm steel studs containing 13mm standard plasterboard on either side will achieve R_w 35. Incorporating 75mm Pink® Partition 14 acoustic insulation within the stud cavity will typically enhance the performance of this system to R_w 43. That is an increase of 8 points in R_w rating - a significant increase in perceived sound isolating performance.

To put this into context further, consider the following:

- At R_w 25, normal speech can be heard easily
- At R_w 30, loud speech can be heard easily
- At R_w 35, loud speech can be heard but not understood
- At R_w 42, loud speech can be heard only as a murmur



Source: USG Boral Systems+ April 2015.

For further information relating to the acoustic performance of Pink® Partition insulation in various building applications,

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contact Fletcher Insulation's Technical Support Team on 1300 654 444.

Early fire hazard properties

Pink® Partition insulation achieves the following results when tested in accordance with AS1530.3-1999:

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	0-1

Combustibility

Pink® Partition insulation is classified as non-combustible in accordance with AS1530.1-1994.

Maximum service temperature

Pink® Partition insulation has a maximum service temperature of 340°C.

Moisture absorption

Pink® Partition insulation absorbs less than 0.2% moisture by volume when exposed to environmental conditions of 50°C and 95% relative humidity for four days.

Alkalinity

When tested in accordance with British Standard 3958, Fletcher Insulation™ glasswool products receive a rating of pH9 (pH7 is neutral). They will not promote or accelerate the corrosion of steel or galvanised steel studs provided they are protected from external contamination.

Safe to use

Pink® Partition insulation is manufactured from FBS-1 Glasswool Bio-Soluble Insulation®. FBS-1 Glasswool Bio-Soluble Insulation® is safe to use and meets the criteria of the Australian Safety and Compensation Council (formerly NOHSC) to be classified as non-hazardous. Fletcher Insulation™ glasswool can be used with confidence in any residential, commercial or industrial application.

Green Star compliant

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® Partition insulation guarantees the use of Zero ODP insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOC's) are released. This allows the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

Specification notes

The insulation material shall be Fletcher Insulation non-combustible Pink® Partition _____ (specify nominal density i.e. 11,14,24 or 32kg/m³) R_____ m² K/W _____ x _____ x _____ mm (specify Material R-value, width, length, thickness).

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