

Pink® Partition

Non combustible thermal and acoustic insulation for partitions and wall systems

Description

The Pink® Partition range is manufactured from up to 80% recycled glass for thermal and acoustic insulation of commercial partitions, wall systems and ceilings. Pink® Partition is available in densities of 11, 14, 22, 24 and 32kg/m³ to fit standard steel stud spacings.

Application

Specially designed for use in commercial metal framed partitions, wall systems 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 22 R4.2 150mm has been developed specifically for external walls that require high thermal performance. 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 Energy Efficiency, Sound Insulation Provisions and Fire resistance performance.

The firm, rigid composition of Pink® Partition insulation allows for friction fitting; thereby reducing installation time and costs. 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.

Product limitations of use

- Not to be used/exposed to weather in any condition including prior, during and after installation
- Not suitable for applications where high humidity is present within building (wet climates for a long period)
- Check the plasterboard ceiling manufactures guide for any weight limitations on ceilings
- This product cannot be used as a water or vapour barrier
- Modifications not permissible, as suitability and/or compliance may be compromised
- Product must not be stuffed or forced into a wall, as it may damage the wall
- Confirm any weight limitations of ceiling framing/lining prior to installation to ensure additional weight of insulation does not compromise the system.

Features and benefits

Superior acoustic properties	→	Aids in reducing sound transmission in wall systems, creating a more comfortable and healthy work or living space.
Non-combustible	→	Meets AS 1530.1 avoiding additional fuel loading to a building and meeting the requirements of the NCC.
Friction fit to suit commercial steel frame	→	Saves labour install-time and cost and little-to-no product slumping in the wall space means there are no un-insulated wall cavities.
Made from next generation Fibre Bio-Soluble (FBS-1) formulation	→	Soft to touch, safe and comfortable to handle.
Made in Australia for Australian conditions formulation	→	Local manufacturing means limited compression to product during transportation thus permitting full product thickness and R-value recovery during installation.

Product data

Density	Material R-value m ² K/M	Nominal thickness mm	Width mm	Length mm	Pieces per pack	Coverage per pack m ²	Old product code	New product code
Pink® Partition (11kg)	R1.2	50	450	1200	32	17.28	903442	4006003
		50	600	1200	32	23.04	903444	4006005
		50	600	2700	16	25.92	903445	4006006
	R1.8	75	450	1200	16	8.64	903446	4006007
		75	600	1200	16	11.52	903448	4006009
		75	600	2700	16	25.92	903449	4006010
	R2.1	90	450	1200	16	8.64	903450	4006011
		90	450	2700	24	29.16	903451	4006012
		90	600	1200	16	11.52	903452	4006013
	R2.5	110	450	1200	16	8.64	903458	4006017
		110	600	1200	16	11.52	903454	4006015
	R3.5	165	450	1200	10	5.74	903478	4008200
		165	600	1200	10	7.20	903463	4008199
Pink® Partition (14kg)	R1.3	50	450	1200	24	12.96	903515	4006021
		50	600	1200	24	17.28	903517	4006023
	R1.9	75	450	1200	16	8.64	903715	4005951
		75	450	2700	18	21.87	903716	4005952
		75	600	1200	16	11.52	903717	4005953
		75	600	2700	12	19.44	903718	4005954
	R2.2	90	450	1200	14	7.56	903915	4005957
		90	600	1200	14	10.08	903919	4005959
Pink® Partition (22kg)	R4.2	150	600	1200	5	3.60	-	4020971
Pink® Partition (24kg)	R0.7	25	600	2700	20	32.40	901022	4006087
	R1.4	50	600	1200	12	8.64	903552	4006025
		50	600	2700	12	19.44	901024	4008195
	R2.1	75	450	1200	10	5.40	903553	4006026
		75	600	1200	10	7.20	903554	4006027
	R2.5	90	600	1200	8	5.76	903556	4006029
	R2.8	100	450	1200	6	3.24	903557	4006030
		100	600	1200	6	4.32	903558	4006031

Pink® Partition (32kg)	R1.5	50	450	1200	12	6.48	903650	4006033
		50	600	1200	12	8.64	903652	4006034
	R2.2	75	450	1200	8	4.32	903670	4008123
		75	600	1200	8	5.76	903673	4008122
	R2.7	90	450	1200	8	4.32	903690	4005948
		90	600	1200	8	5.76	903692	4005949
	R3.0	100	600	1200	6	4.32	903694	4005950

Physical properties

Property	Test method/standard	Result	Unit
Thermal Resistance R-value	AS/NZS 4859.1	Complies	m²K/W
Moisture Absorption	When exposed to environmental conditions of 50°C and 95% relative humidity for four days	< 0.2	% by volume
Fungi resistance of insulation materials	ASTM C1338-14	Pass (no growth)	°C

Fire hazard properties

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

Property	Test method/standard	Result
Combustibility	AS 1530.1	Non-combustible
Early Fire Hazard Indices Ignitability Index Spread of Flame Index Heat Evolved Index Smoked Developed Index	AS/NZS 1530.3	0 0 0 1
BAL Compliance	AS 3959	Low-FZ

Compliance NCC 2019

When correctly specified and installed, the product complies or assists to comply with below NCC clauses and relevant standards.

- 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.
- Thickness and density specifications cover the requirements of the Acceptable forms of Construction for sound insulation according to NCC 2019 Volume 1, Specification F5.2 and NCC 2019 Volume 2, 3.8.6.1.
- Classified as Non-Combustible, when tested in accordance with AS 1530.1, therefore complies with the requirements of NCC Volume 1 C1.9(a) and, wherever a non-combustible insulation material is required according to NCC 2019 Volume 2.
- 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.
- Complies with the requirements of AS 3959 Bushfire Attack Level Low-FZ in walls, floors and ceilings.

Compliance NCC 2022

- When correctly specified and installed, the product complies or assists to comply with below NCC clauses and relevant standards.
- Complies with AS/NZS 4859.1 as referenced in NCC 2022, Volume 1 Clause J4D3(1) and NCC 2022, Volume 2 Housing Provisions Clause 13.2.2(1).
- CodeMark Certificate of Conformity CM 30006.
- Thickness and density specifications cover the requirements of the acceptable forms of construction for sound insulation according to NCC 2022 Volume 1, Specification 28 and NCC 2022 Volume 2, Housing Provisions 10.7.
- Classified as Non-Combustible, when tested in accordance with AS 1530.1, therefore complies with the requirements of NCC Volume 1 C2D10(1) and, wherever a non-combustible insulation material is required according to NCC 2022 Volume 2.
- 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, Specification 7 'Fire Hazard Properties Table S7C7 for insulation materials.
- Complies with the requirements of AS 3959 Bushfire Attack Level Low-FZ in walls, floors and ceilings.

Acoustic performance

Sound absorption

Pink® Partition tested achieve the following sound absorption coefficients when tested in accordance with AS ISO 354.

		Sound absorption coefficients at frequencies (Hz) of:										
Product	Thickness mm	100	125	250	500	1000	2000	3150	4000	5000	NRC	α _w
Pink® Partition 11	50	0.15	0.16	0.63	0.88	0.98	0.99	1.00	1.01	1.06	0.85	0.85 (H)
	75	0.26	0.27	0.91	0.99	1.04	1.00	1.06	1.05	1.11	1.00	1.00
	110	0.40	0.42	1.08	1.10	1.02	1.09	1.09	1.06	1.06	1.05	1.00
Pink® Partition 14	50	0.14	0.12	0.59	0.86	1.00	1.02	1.02	0.99	1.04	0.85	0.85 (H)
	75	0.24	0.24	0.91	1.01	1.03	1.00	1.08	1.03	1.06	1.00	1.00
Pink® Partition 24	50	0.16	0.17	0.69	1.02	1.09	1.03	1.07	1.04	1.06	0.95	0.95
	90	0.36	0.43	1.16	1.11	1.05	1.07	1.04	1.07	1.06	1.10	1.00
Pink® Partition 32	50	0.08	0.16	0.66	1.04	1.10	1.02	1.03	1.05	1.03	0.95	1.00
	75	0.18	0.32	0.98	1.10	1.08	1.05	1.07	1.06	1.09	1.05	1.00
	90	0.32	0.58	1.14	1.05	1.05	0.99	1.05	1.04	1.03	1.05	1.00

Flow Resistivity

Product	Material R-value	Thickness mm	Density kg/m³	Flow Resistivity Rayls/m
Pink® Partition 11	R1.8	75	11	4050
Pink® Partition 11	R2.1	90	11	3610
Pink® Partition 14	R1.3	50	14	4040
Pink® Partition 14	R1.9	75	14	5960
Pink® Partition 14	R2.2	90	14	5090
Pink® Partition 32	R1.5	50	32	20840
Pink® Partition 32	R2.7	90	32	19440
Pink® Partition 32	R3.0	100	32	18820

Health and safety

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

Environmental properties

Pink® Partition 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® products. The use of Pink® Partition 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, not to be exposed to weather in any condition including prior, during and after installation.
- Product needs to be correctly installed in the right stud width and depth.
- Product should be installed without compression to keep its claimed R-value.
- 22kg, 24kg and 32kg higher density products should not be compressed during installation, allowing for adequate cavity space to accommodate products nominal thickness. If installed in a smaller cavity size, wall lining is at risk of being damaged.
- If used with any other pliable building membrane products except Sisalation®, confirmation of suitability must be reviewed.
- 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 shall be Fletcher Insulation non-combustible Pink® Partition _____ (specify nominal density 11, 14, 22, 24 or 32kg/m³) R _____ m² K/W (Material R-value) x _____ (thickness mm) x _____ (length mm) x _____ (width mm). Compliant with the thermal testing requirements of AS/NZS 4859.1, and non-combustible according to AS1530.1 (R2016).

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 shall be _____.

Installation instructions

For the correct installation method, follow the Installation Guidelines available from insulation.com.au

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