

Acoustigard® Partition Rolls

Refer to product table below for applicable product codes covered by this document

Issue **C**

Product Type & Application

Acoustigard® Partition Rolls are non-combustible Glasswool rolls for thermal and acoustic insulation in internal or external partitions and walls. They are also suitable for roof or ceiling use.

Compliance with the NCC

For use in Australia, when correctly specified and installed, this product:

- **Thermal** - Complies with NCC 2019 Volume 1 Section J1.2, NCC 2019 Volume 2 Section 3.12.1.1(a), and all state-prescribed variations. The product meets the requirements of the NCC through compliance with AS/NZS 4859.1.
- **Sound** - Thickness and density reported give details for compliance with sound insulation Deemed-To-Satisfy constructions in NCC 2019 Volume 1, Specification F5.2 and Acceptable Construction Practice in NCC 2019 Volume 2, Tables 3.8.6.1a-3.8.6.1d.
- **Fire Hazard Properties** - Meets the requirements of the NCC 2019 Volume 1, Specification C1.10 Clause 7 for insulation materials. When tested to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices of Specification C1.10 Clause 7.
- **Non-Combustibility** - Meets the requirements of NCC Vol.1 C1.9(a), as it is non-combustible when tested to AS 1530.1.

Evidence of Suitability

- Testing to AS/NZS 4859.1 across the following reports-
 - CSR Lab Report R-20033.
 - CSR Lab Report R-20034.
 - CSR Lab Report R-20035.
 - CSR Lab Report R-20036.
 - CSR Lab Report R-20037.
 - CSR Lab Report R-20038.
 - CSR Lab Report R-20039.
 - CSR Lab Report R-20040.
 - CSR Lab Report R-20041.
 - CSR Lab Report R-20044.
 - CSR Lab Report R-20045.
 - CSR Lab Report R-20046.
 - CSR Lab Report R-20047.
 - CSR Lab Report R-20048.
 - CSR Lab Report R-20049.
 - CSR Lab Report R-20070.
- Testing and Professional Assessment, AS/NZS 1530.3 - CSIRO Assessment FCO-2805.

- Testing and Professional Assessment, AS 1530.1 –
 - CSR Lab NATA Report NR-16001.
 - CSR Lab NATA Report NR-16007
 - CSR Lab NATA Report NR-16008.
 - CSR Lab NATA Report NR-17002.
 - CSR Lab NATA Report NR-17005.
 - CSR Lab NATA Report NR-17006.
 - CSR Lab NATA Report NR-17007.
 - CSIRO Assessment FCO-2812.

Specific Design or Installation Instructions

- Isolate power before installation.
- **Caution:** Electrical cables and equipment partially or completely surrounded with bulk thermal insulation may overheat and fail. In new build construction with electrical wiring in accordance with AS/NZS 3000, 2018 version or later, wiring may be partially or completely surrounded for up to 400mm. If more than 400mm is surrounded, or for wiring pre AS/NZS 3000, 2018 version, seek advice from a licenced electrician. Refer to legislation and referenced standards for full details.
- Insulation should form a continuous layer, except where it butts against structural members, or for mandatory gaps around services and fittings. Compensate for gaps as specified by the NCC Volume 2, 3.12.1.2(e) and Table 3.12.1.1h. It should be installed at nominal thickness, except where it crosses structures, services and fittings.
- Ceiling perimeter batts may be required to achieve compliance depending upon roof and exterior wall design.
- Do not allow insulation to get wet after installation.

Supplementary information - Additional installation guidance for this product can be found in AS 3999.

Limitations of Use

- Unfaced Glasswool is not a vapour barrier and is not suitable for vapour control.
- Consult AS 3959 to determine the installation conditions when using unfaced rolls in roofs of buildings in bushfire-zoned areas.
- Maximum service temperature is 300°C.

Conditions of Storage, Use & Maintenance

Store in the original packaging in a cool, dry area, away from foodstuffs. Ensure packages are adequately labelled, protected from physical damage, and sealed when not in use. Avoid packaging being stored under UV light (direct sunlight) for long periods.

Refer to the product SUI/MSDS at Bradfordinsulation.com.au for more information.

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Applicable Product Codes

R-VALUE (m ² K/W)	DENSITY (kg/m ³)	THICKNESS (mm)	LENGTH (m)	WIDTH (mm)	ROLLS PER PACK	COVERAGE PER PACK (m ²)	PRODUCT CODE
R1.0	11	50	16.2	450	3	21.9	119466
R1.0	11	50	16.2	600	2	19.4	119467
R1.7	11	75	13.5	450	3	18.2	119468
R1.7	11	75	13.5	600	2	16.2	119469
R2.5	11	110	8.1	600	2	9.7	119511
R3.5	11	165	5.4	600	2	6.5	119470
R1.2	14	50	16.2	450	3	21.9	119521
R1.2	14	50	16.2	600	2	19.4	119522
R1.8	14	75	13.5	450	3	18.2	119523
R1.8	14	75	13.5	600	2	16.2	119524
R2.2	14	90	10.8	450	3	14.6	73776
R2.2	14	90	10.8	600	2	13.0	87731
R2.4	14	100	10.8	450	3	14.6	119527
R2.4	14	100	10.8	600	2	13.0	119526
R0.6	18	25	21.6	600	2	25.9	119373
R1.3	18	50	10.8	450	3	14.6	119375
R1.3	18	50	10.8	600	2	13.0	119376
R2.0	18	75	8.1	450	3	10.9	119377
R2.0	18	75	8.1	600	2	9.7	119379
R2.5	18	100	8.1	450	3	10.9	456770
R2.5	18	100	8.1	600	2	9.7	456815
R2.4	20	90	5.4	450	3	7.3	119462
R2.4	20	90	5.4	600	2	6.5	119463
R1.4	24	50	10.8	450	3	14.6	119529
R1.4	24	50	10.8	600	2	13.0	119528
R2.1	24	75	8.1	450	3	10.9	119530
R2.1	24	75	8.1	600	2	9.7	119551
R2.5	24	90	5.4	450	3	7.3	456978
R2.5	24	90	5.4	600	2	6.5	457190
R0.7	32	25	16.2	450	3	21.9	456817
R0.7	32	25	16.2	600	2	19.4	456859
R1.5	32	50	8.1	450	3	10.9	119587
R1.5	32	50	8.1	600	2	9.7	119588
R2.2	32	75	5.4	450	3	7.3	119589
R2.2	32	75	5.4	600	2	6.5	119631
R2.7	32	90	5.4	450	3	7.3	162853
R2.7	32	90	5.4	600	2	6.5	162852

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Additional Product Data

Maximum Service Temperature		300°C (suitable where a long term surface operating temperature $\geq 90^{\circ}\text{C}$ is required for insulation around heat generating equipment.)
Fire Hazard Properties	When tested in accordance with AS/NZS 1530.3	- Ignitability: 0 - Spread of Flame: 0 - Heat Evolved: 0 - Smoke Developed: 1
Non-Combustibility	When tested to AS 1530.1	Non - Combustible
Sample Specification	The insulation material shall be Bradford Acoustigard Partition Rolls having a material R-Value; R_m(specify R-Value) @ XXmm....(specify thickness) having a nominal density YYkg/m ³(specify density), and shall be deemed non-combustible when tested to AS 1530.1. For installation specifications refer to the relevant Bradford Product Selector.	

Acoustic Performance

Sound absorption results tested in accordance with AS/ISO 354-2006. NRC rated in using ASTM C423-90A, and weighted sound absorption coefficient α_w as per AS/ISO 11654-1997. Flow Resistivity tested in accordance with ASTM C522 -

Density (kg/m ³)	Thickness (mm)	Sound Absorption Coefficient (α_s)	Frequency (Hz)								Flow Resistivity (mks rayl/m)	α_w
			125	250	500	1000	2000	4000	5000	NRC		
11	75		0.26	0.63	0.97	0.87	0.92	0.97	0.95	0.85	3180	0.90
14	75		0.26	0.71	1.03	1.00	0.95	0.99	0.97	0.90	5840	0.95
18	50		0.22	0.58	0.93	1.04	1.00	1.04	1.10	0.90	8490	0.85
24	50		0.24	0.64	1.00	1.06	1.01	1.05	1.05	0.95	11310	0.90
32	50		0.24	0.64	1.11	1.08	1.06	1.02	1.04	0.95		0.95
32	75		0.35	1.08	1.19	1.05	1.02	1.00	1.01	1.10	18440	1.00

Other Accreditation



FBS-1 Glasswool - The fibre component of these products is listed by Safe Work Australia as Man-made Vitreous Fibre (Glasswool) of low bio persistence as specified under Note Q in the Australian Hazardous Substances Information System and in the Australian Approved Criteria documentation. In accordance with EU ATP 31 (2009) these fibres are not classified as an irritant, or as carcinogenic.
Refer to the product SUI/MSDS at Bradfordinsulation.com.au for more information.



National Asthma Council Sensitive Choice