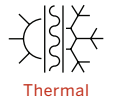


**Bradford**<sup>™</sup>  
acoustigard

# Non-Combustible Thermal & Acoustic Insulation

FOR EXTERNAL WALL AND INTERNAL PARTITION SYSTEMS



Building acoustics are an important element in any design and consideration needs to be given to the control of sound that passes through a dividing wall or building element. Bradford Acoustigard is a non-combustible product range that can assist in the control of acoustics, as well as deliver improvements in the thermal performance of the building structure.



# The benefits of Acoustigard™

There are various types of cladding and cavity in-fill systems that can assist in controlling noise in a building based upon their sound absorption and transmission properties. The Bradford Acoustigard range is suitable for use in a variety of these acoustic applications and as a thermally certified (according to AS/NZS4859:1) insulation material, contributing to the building's energy efficiency rating.

The Bradford Acoustigard product range has been designed to provide both a broad range of thicknesses to suit different cavity in-fill applications, as well as a substantial range of densities to meet acoustic and

thermal specifications. This ensures that the right combination of thickness, acoustic and/or thermal properties can be specified for most applications.

If you require assistance specifying Acoustigard, CSR Bradford's experienced technical team include on-staff engineering and architectural support to help you with specifying the right product. In selecting the most appropriate solution for your application, CSR Bradford always recommend that Environmentally Sustainable Design Engineers and Acoustic Engineers are consulted early in the project.

## Acoustigard for external walls, partition walls and ceiling overlays

### ○ Acoustigard is non-combustible

Non-combustibility is a key requirement of the Building Code of Australia for external walls in Type A and Type B construction. Compliance to Australian Standard AS 1530 Part 1 allows the use of Acoustigard anywhere non-combustible construction is required.

### ○ Acoustigard resists slumping in the cavity

The ability of insulation to resist slumping in the cavity is critical to ensure easy assembly and prevent un-insulated voids forming inside the wall cavity which can compromise acoustic and thermal performance.

### ○ Available in Roll or Batt format

Acoustigard is available in a number of form factors. Firstly, there is a choice of either 450mm or 600mm widths. Secondly, there is the option of a roll format (up to 16.2m depending on product) or a batt format (1200mm). This enables a choice based on the installation, material handling and storage requirements of each site.

### ○ Acoustigard is easy to work with

Acoustigard products are easy to cut around building services and won't bind or bunch if following trades drill into the wall cavity – this ensures that Acoustigard remains in position to provide optimum performance.

### ○ Ceiling Overlays

The Acoustigard product range can be effectively used as ceiling overlay over ceiling tiles. Consideration should be given to the density of the product selected and the weight capacity of the ceiling system prior to specification.

### ○ Zero ODP

As referenced in the US EPA list of Ozone Depleting Substances (Class 1 and Class 2), no Ozone Depleting Substances are involved in either the manufacture or composition of Acoustigard products.

### ○ Safe to Handle FBS-1 Bio-Soluble Insulation

Acoustigard products are manufactured from FBS-1 Glasswool Bio-Soluble Insulation, which is classified as non-hazardous according to the criteria of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Further information can be found on the SUIIS on the CSR Bradford website.

## Specifying Acoustigard

To ensure that Bradford Acoustigard is specified correctly, please include the following details on all drawings and specification information:

The insulation material shall be Bradford Acoustigard FBS-1 Glasswool insulation, having a material R-Value of  $R_m$  \_\_\_\_\_ (specify R-Value) @ \_\_\_\_\_ mm (specify thickness) with a nominal density of \_\_\_\_\_ kg/m<sup>3</sup> (specify density) being non combustible when assessed under AS1530 Part 1.



# Acoustic performance

Specific wall system acoustic performance information is available by contacting CSR Bradford.

Density (kg/m <sup>3</sup> )	Thickness (mm)	Practical Sound Absorption Coefficient ( $\alpha_p$ )	Frequency (Hz)						NRC	Flow Resistivity (Rayls/m)	$\alpha_w$
			125	250	500	1000	2000	4000			
11	75		0.25	0.75	0.95	1.00	1.00	1.00	0.95	4280	1.00
11	110		0.60	1.00	1.00	1.00	1.00	1.00	1.05	4173	1.00
14	50		0.20	0.55	0.75	0.90	0.95	0.95	0.80	9680	0.8(H)
14	75		0.30	0.80	1.00	1.00	1.00	1.00	0.95	6027	1.00
14	100		0.50	1.00	1.00	1.00	1.00	1.00	1.05	5565	1.00
24	25		0.10	0.25	0.60	0.85	0.95	1.00	0.65	14400	0.55(MH)
24	50		0.20	0.60	0.90	1.00	1.00	1.00	0.90	12430	0.90
24	75		0.40	1.00	1.00	1.00	1.00	1.00	1.10	14880	1.00
24	90		0.40	1.00	1.00	1.00	1.00	1.00	1.05	10600	1.00
32	25		0.10	0.35	0.65	0.85	1.00	1.00	0.70	14640	0.65(H)
32	50		0.25	0.75	1.00	1.00	1.00	1.00	1.00	18960	1.00
32	75		0.45	1.00	1.00	1.00	1.00	1.00	1.10	17533	1.00
32	90		0.55	1.00	1.00	1.00	1.00	1.00	1.10	18956	1.00

Sound absorption results tested in accordance with AS/ISO 354-2006 [R2016] and NRC rated using ASTM C423-22. The practical sound absorption coefficient is determined as per AS/ISO 11654-2002 [R2016]. The weighted sound absorption coefficient is determined as per AS/ISO 11654-2002 [R2016]. Flow Resistivity tested in accordance with ANSI C522-03 [R2016].

## Fire Performance

When assessed in accordance with AS1530 Part 1:1994, Acoustigard products up to a density of 32kg/m<sup>3</sup> are non-combustible.

When assessed in accordance with AS/NZS 1530.3:1999

Product	Ignitability	Spread of Flame	Heat Evolved	Smoke Developed
Acoustigard Range	0	0	0	1

## Product range selector

### ACOUSTIGARD 14 – Partition Batt 14kg/m<sup>3</sup>

Thickness (mm)	Density (kg/m <sup>3</sup> )	Material R-Value (R <sub>v</sub> )	Dimensions (mm)	Pieces per Pack	Area per pack (m <sup>2</sup> )	Packs per Multi	Product Code
75	14	R1.8	1200 x 450	14	7.5	6	196982
75	14	R1.8	1200 x 600	15	10.0	6	169546
90	14	R2.2	1200 x 450	12	6.4	6	485952
90	14	R2.2	1200 x 600	12	8.6	6	485951

### ACOUSTIGARD 24 – Partition Batt 24kg/m<sup>3</sup>

Thickness (mm)	Density (kg/m <sup>3</sup> )	Material R-Value (R <sub>v</sub> )	Dimensions (mm)	Pieces per Pack	Area per pack (m <sup>2</sup> )	Packs per Multi	Product Code
75	24	R2.1	1200 x 450	8	4.3	6	485954
75	24	R2.1	1200 x 600	8	5.7	6	485953
90	24	R2.5	1200 x 450	8	4.3	5	485955
90	24	R2.5	1200 x 600	8	5.7	5	485956

### ACOUSTIGARD 32 – Partition Batt 32kg/m<sup>3</sup>

Thickness (mm)	Density (kg/m <sup>3</sup> )	Material R-Value (R <sub>v</sub> )	Dimensions (mm)	Pieces per Pack	Area per pack (m <sup>2</sup> )	Packs per Multi	Product Code
75	32	R2.2	1200 x 450	6	3.2	6	485958
75	32	R2.2	1200 x 600	6	4.3	6	485957
90	32	R2.7	1200 x 450	5	2.7	5	485959
90	32	R2.7	1200 x 600	5	3.6	5	485960

# Product range selector

## ACOUSTIGARD 11 – Partition Roll 11kg/m<sup>3</sup>

Thickness (mm)	Density (kg/m <sup>3</sup> )	Material R-Value (R <sub>M</sub> )	Width (mm)	Roll length (m)	Rolls per pack	Area per pack (m <sup>2</sup> )	Product Code
75	11	R1.7	450	13.5	3	18.2	119468
75	11	R1.7	600	13.5	2	16.2	119469
110	11	R2.5	450	8.1	3	10.9	121214
110	11	R2.5	600	8.1	2	9.7	119511
165	11	R3.5	450	5.4	3	7.2	485018
165	11	R3.5	600	5.4	2	6.5	119470

## ACOUSTIGARD 14 – Partition Roll 14kg/m<sup>3</sup>

Thickness (mm)	Density (kg/m <sup>3</sup> )	Material R-Value (R <sub>M</sub> )	Width (mm)	Roll length (m)	Rolls per pack	Area per pack (m <sup>2</sup> )	Product Code
50	14	R1.2	450	16.2	3	21.9	119521
50	14	R1.2	600	16.2	2	19.4	119522
75	14	R1.8	450	13.5	3	18.2	119523
75	14	R1.8	600	13.5	2	16.2	119524
90	14	R2.2	450	10.8	3	14.6	73776
90	14	R2.2	600	10.8	2	13.0	87731
100	14.5	R2.4	450	10.8	3	14.6	119527
100	14.5	R2.4	600	10.8	2	13.0	119526

## ACOUSTIGARD 24 – Partition Roll 24kg/m<sup>3</sup>

Please note, minimum order quantities may apply

Thickness (mm)	Density (kg/m <sup>3</sup> )	Material R-Value (R <sub>M</sub> )	Width (mm)	Roll length (m)	Rolls per pack	Area per pack (m <sup>2</sup> )	Product Code
25	24	R0.65	450	16.2	3	21.9	479731
25	24	R0.65	600	16.2	2	19.4	479730
50	24	R1.4	450	10.8	3	14.6	119529
50	24	R1.4	600	10.8	2	13.0	119528
75	24	R2.1	450	8.1	3	10.9	119530
75	24	R2.1	600	8.1	2	9.7	119551
90	24	R2.5	450	5.4	3	7.3	456978
90	24	R2.5	600	5.4	2	6.5	457190

## ACOUSTIGARD 32 – Partition Roll 32kg/m<sup>3</sup>

Please note, minimum order quantities may apply

Thickness (mm)	Density (kg/m <sup>3</sup> )	Material R-Value (R <sub>M</sub> )	Width (mm)	Roll length (m)	Rolls per pack	Area per pack (m <sup>2</sup> )	Product Code
25	32	R0.7	450	16.2	3	21.9	456817
25	32	R0.7	600	16.2	2	19.4	456859
50	32	R1.5	450	8.1	3	10.9	119587
50	32	R1.5	600	8.1	2	9.7	119588
75	32	R2.2	450	5.4	3	7.3	119589
75	32	R2.2	600	5.4	2	6.5	119631
90	32	R2.7	450	5.4	3	7.3	162853
90	32	R2.7	600	5.4	2	6.5	162852



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