



DATA SHEET

Effective November 21, 2019

Product Overview

AcoustaMat™ acoustic underlay products have been individually tested at the CSIRO Laboratory in Melbourne in accordance with the requirements of ISO 140-8 – Part 8: “Measurement for the reduction in transmitted impact noise by floor coverings on a standard floor”. AcoustaMat™ complies with ISO 140-6 “Measurement of sound insulation in buildings and building elements – Part 6: Laboratory measurement of sound insulation of floors”. All products were tested at the CSIRO on a certified concrete slab and are deemed to satisfy the requirements of the National Construction Code (formerly known as the BCA). AcoustaMat™ products have been extensively on-site tested in numerous centres and buildings, and have successfully reduced the transmission of structure borne regenerative noise vibration from the typical activities performed in gymnasiums, school halls, under screeds and high traffic areas.

The source and transfer from one level to another varies in accordance with each individual building construction. AcoustaMat™ products are specifically designed for the reduction of impact sound to suit both concrete and timber sub surfaces and has been specifically engineered to meet the acoustical requirements of specifiers for all common construction and installation methods.

Recommendation

AcoustaMat™ products are specifically designed for the reduction of impact sound. The source of transfer noise from one level to another varies in accordance with each individual building and A1 Rubber™ strongly recommends testing in situ by a registered Acoustic Engineer to establish suitability of purpose. To guarantee the performance of the proposed installation A1 Rubber™ offers free samples for testing purposes only.

Specifications

AcoustaMat™				
	Material	Appearance	Density	Thickness
600	Polymerically bound black recycled rubber, can include re-grind rubber	Black, can have multi-coloured flecks	600kg/m ³	5mm, 10mm
700	Polymerically bound black recycled rubber, can include re-grind rubber	Black, can have multi-coloured flecks	700kg/m ³	5mm
850	Polymerically bound black recycled rubber, can include re-grind rubber	Black, can have multi-coloured flecks	850kg/m ³	3mm, 4mm, 5mm, 10mm
960	Polymerically bound black recycled rubber	Black	960kg/m ³	3mm

Tolerance

Roll width - ± 1.5%
 Roll length - ± 1.5%
 Thickness - ± 1.0mm
 Density - ± 5.0%

Dimensions

1.2m wide with various roll length options

VOC Emissions Certification

Office Design IEQ-13
 Office Interiors IEQ-11

Total Volatile Organic Compound emission rate 0.2mg/m²/hr (24 hours)



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Physical Properties Range	AcoustaMat 700, 850, 960	AcoustaMat 600
Tear Resistance @ 5mm	Approx 3.1N/mm ² (ISO 4674.1-2003 (E))	Approx 2.8N/mm ² (ISO 4674.1-2003 (E))
Hardness (Shore A)	20.0 - 40.0 (ASTM D2240-2003)	20.0 - 35.0 (ASTM D2240-2003)
Elongation at Break	20.0 - 37.5% (AS2001.2.3.2-2001)	20.0 - 30% (AS2001.2.3.2-2001)
Temperature Range	-25°C to 80°C	-25°C to 80°C

- For AcoustaMat™ test results, refer to the CSIRO Summary Results document
- Re-grind rubber is granulated waste rubber from the A1 Rubber manufacturing processes.

Surface Recommendations

Application	AcoustaMat™			
	600	700	850	960
Solid Timber Over Plywood	✓	✓	✓	
Engineered Timber Floating	✓	✓	✓	
Engineered Timber Direct Stick	✓	✓	✓	
Laminate Floating	✓	✓	✓	
Laminate Direct Stick	✓	✓	✓	
Vinyl Plank Direct Stick				✓ Note: Vinyl must be min. 4mm thick
Vinyl Plank Floating			✓ Note: Vinyl must be min. 5mm thick	
Vinyl Sheet Direct Stick				✓ Note: Vinyl must be min. 4mm thick
Ceramic Over Screed		✓		
Ceramic Direct Stick			✓	
Carpet Over Carpet Underlay			✓	
Carpet Tiles Direct Stick			✓	

Applications

For high-rise units, multi-storey townhouses and homes. Suitable for new and old buildings requiring impact sound insulation for the installation of timber, laminate, carpet, plank vinyl/vinyl over Masonite or ceramic floors. Can be installed on timber and concrete sub-bases. Can be used in wet areas when installed in conjunction with a suitable waterproof membrane system.

Disclaimer

All flooring was installed to the manufacturers' specifications. All adhesives were applied to the manufacturers' specifications. All AcoustaMat™ was butt joined and cut to cover the area required. These tests were carried out by the Commonwealth Scientific and Industrial Research Organisation (CSIRO) under strict laboratory conditions. The source and transfer of noise from one level to another varies in accordance with each individual building construction. The information provided is given as an example of the performance of A1 Rubber™ impact sound acoustic underlays only. The results provided are not to be read as a guarantee for any specific application. A1 Rubber™ does not guarantee that top surface products and adhesives not manufactured by A1 Rubber™ will be fit for purpose or compatible with AcoustaMat™, and manufacturers specifications of these products should be consulted before installation with AcoustaMat™. A1 Rubber™ recommends testing in situ to determine the exact performance of these systems in your project by a registered acoustic engineer. All applications of these products are subject to our standard Terms and Conditions of Sale.

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