

AngelStep[®] 250

acoustic underlay



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The ultimate - up to AAAC 6 Star Rating acoustic underlay.*

The AngelStep[®] range is an acoustic underlay for the treatment of Impact and airborne noise transfer.

AngelStep[®] construction combines a highly effective support and cushion. It provides maximum performance for minimum thickness combining an impact and vibration damping and sound absorber.

The resilient polyester core layer absorbs impact energy and residual airborne noise from above and below, transforming wave vibrations into heat energy. The 'decoupled flexible floating' top noise barrier greatly reduces airborne sound waves noise above or below the floor - and complies with the Building Code of Australia in respect to separating floors between adjoining dwellings. When AngelStep[®] is installed, it delivers optimum performance and comfort for both resident and neighbours alike

*each building is different, to achieve AAAC 6 star rating we recommend an onsite tapping test to tune the solution to suit your project



AngelStep® 250 acoustic underlay

The unrivalled performance of AngelStep® 250 was designed for use in apartments and townhouses, upmarket housing and professional office and consulting suites where discerning buyers expect performance beyond that mandated by the minimum requirements of the BCA.

It is 4mm thin and is supplied in tiles 1200x1200mm (1.44m²)

The unrivalled performance of AngelStep® 250 is due to its unique and patented polymer construction. No degradation of acoustic properties due to structural collapse under the weight of heavy furniture, castors and appliances.

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Key benefits

- outstanding acoustic performance
- high sound absorption
- high impact insulations & strength
- water & most chemical resistant
- will last the life of the flooring material
- easy to install
- no VOCs, no smell
- 4mm thick
- Australian designed & manufactured
- Global Green Tag Certified

Fire Ratings

AS ISO 9705-2003

- classification Group 1 ; (SMORGArc) <100m²/s²; as required by BCA C1.10; tested 16/05/2012 BRANZ FI 4871
- ISO 9705 1993
- classification Group 1-S; smoke production rate <5.0m²/s as required by NZBC C/VM2
- EN13501-1:2007 B-s2, d0 report dated 22/07/2009

VOC emissions tested by Cetec Pty Limited (CV080408) for chemical emission & is classified as low VOC.
VOC Concentration 0.01mg/m³

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Acoustic tapping test

Acoustica's product range of noise control solutions for flooring systems has been repeatedly independently tested to consistently achieve five and six stars in the Association of Australian Acoustic Consultants (AAAC) star rating system. However, results will vary depending on the construction, substrate and surface materials of each project.

Acoustica can provide site specific testing and certification for each project site, prepared in accordance with the International Standard ISO 16283-1:2014 Acoustics -- Field measurement of sound insulation in buildings and of building elements -- Part 1: Airborne sound insulation (refer ISO 140-7:1998). There is a charge for this service.

Technical

The BCA provides minimum construction standards for various building classes including acoustic privacy. The BCA requirement is a weighted standardised impact sound pressure level with spectrum adaptation term C_i , of less than or equal to $62 L_{nt,w} + C_i$. However, the reality is that this is in most cases unacceptable to occupants and can result in the need for costly reparation works. In response the Association of Australian Acoustic Consultants (AAAC) has developed the star rating system to rank the acoustical quality of apartments and provide guidance in the design and construction process.

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Custom & specialist solutions

Acoustica are specialists in refining solutions to tune your project to achieve an optimal outcome. Please contact us for information and advice.

	impact isolation of floors $L_{nt,w}$	AAAC description
6 star	40	just audible or not audible
5 star	45	just audible
4 star	50	audible
3 star	55	clearly audible
2 star	65	clearly audible
BCA	62	clearly audible



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