

ANGELSTEP®

GOLD 8



ACOUSTIC FLOORING
UNDERLAY



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GROUND FLOOR, 6A NELSON STREET, ANNANDALE NSW 2038



**Acoustica
Projects**

KEY BENEFITS

- Universal underlay - gives different results depending on how it is laid:
 1. Gold foil up - solid timber, engineered timber, bamboo, veneer, carpet
 2. Gold foil down - parquetry, ceramic tile, vinyl, cork
- AngelStep® patented technology - unaffected by weight
- Excellent thermal insulation
- High sound and impact energy absorption
- Guaranteed for the lifespan of the building
- Particularly strong under the weight of castors, furniture and appliances
- 10-year guarantee

APPLICATIONS

- Residential apartments
- Housing and commercial unit blocks
- Commercial offices
- Schools
- Shopping malls



DESCRIPTION

AngelStep® GOLD 8 resets the bar for the performance of acoustic underlay for treating impact and airborne noise.

The unrivalled performance of AngelStep® GOLD 8 is due to its unique and patented construction.

Dependent on the floor finish, Acoustica Projects will advise if an intermediate layer such as plywood or fibrous cement substrate will need to be installed.

FEATURES

- Suitable to combine with floor heating systems
- Moisture and rot resistant - will last the life of any floors
- Castor-resistant
- Vapour barrier
- Water - and most chemicals resistance
- 'Low volatile' organic compounds (VOCs)
- Underfloor heating compatible
- Zero VOC's, zero emissions, non-toxic
- Capable of achieving the highest 6-star rating dependant on installation
- 10-year warranty (subject to correct installation)
- Australian designed
- Standard sheet size: 1150mm x 1150mm x 8mm

INDOOR AIR QUALITY

Safe indoor air quality - does not contain any added chemicals such as formaldehyde - based binders or fibres that can be harmful to your health.

Tested by Cetec Pty Ltd report CV080408 for chemical emission and is classified as low VOC. VOC concentration 0.01mg/m³.

WATER VAPOUR

Water Vapour Transmission Rate (ASTM F-1294) = 1gm/m²/day

COMPRESSIVE STRENGTH

Compressive strength at 10% deformation (EN 826) = 2.16 kPa

DYNAMIC STIFFNESS

Dynamic stiffness (ISO 9052-1) = 19.99 MN/m³

COMPRESSIBILITY

Compressibility (EN 12431) = 0.1mm @ 50 kPa

STANDARDS

- Measurements and assessments of sound transmission through floor/ceiling systems are carried out in accordance with the following standards:
- AS ISO 717.2-2004: Acoustics - Rating of sound insulation in building elements.
- AS/NZS ISO 140.7-2006: Acoustics - Rating of sound insulation in buildings and of building elements.

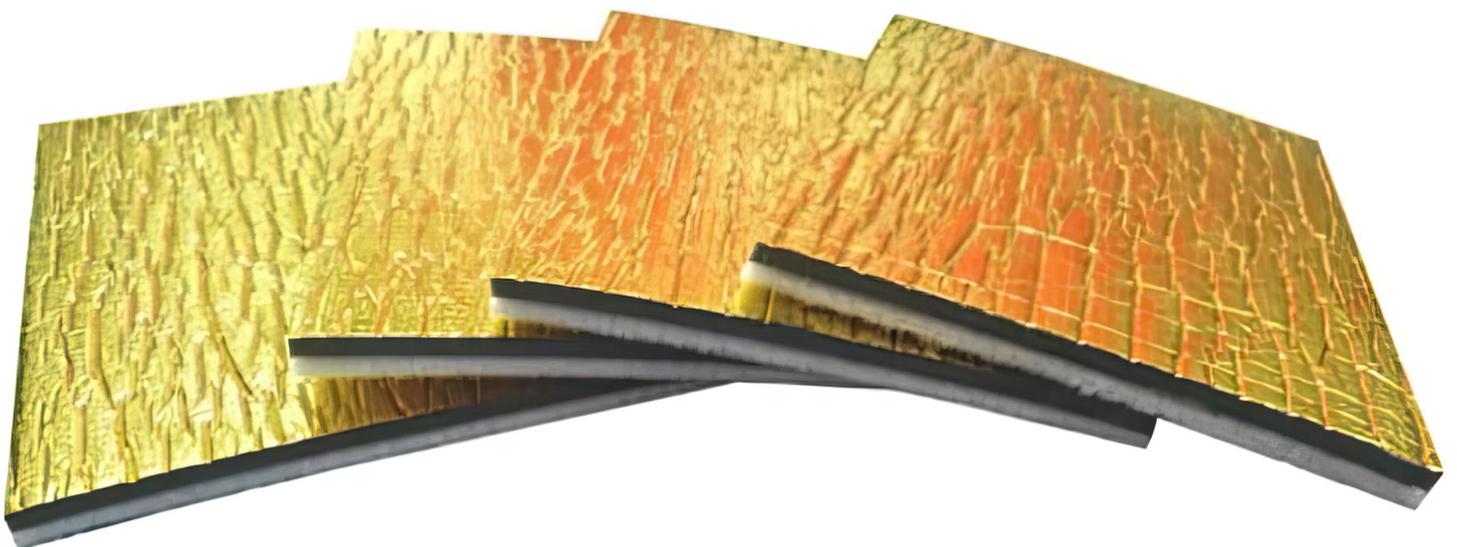
Field tests have achieved the ultimate six-star rating, streaks ahead of Acoustica Projects' competitors and above and beyond BCA standards.

Independently Tested By:	Results
West and Associates Pty Limited	Doc. 14201 28/10/2014 – GOLD8 + 15mm plywood + 15mm timber floor on a concrete slab with vermiculite result Lnt,w 36 = AAAC 6 stars
Palmer Acoustics Australia Pty Limited	Doc. 3770 v.0 28/11/2014 = GOLD8 + 14mm thick timber on a concrete slab result Lnt,w 40 = AAAC 6 stars
Wilkinson Murray Pty Limited	Doc. 16195/270516BC 27/05/2016 = GOLD8 + ply + 14mm engineered timber floor on a concrete slab with no ceiling cavity result Lnt,w 38 = AAAC 6 stars
Vipac Engineers & Scientists Ltd	Doc. 20E-16-0089- TPR-456023-0 Ltd 07/07/2016 to achieve AAAC 6 stars Lntw 35 in combination with AngelStep® 630 - test conditions 15mm engineered oak floor on 2 layers of AngelStep® GOLD8 with AngelStep® 630 between over concrete slab, 80mm cavity & 10mm plasterboard
Vipac Engineers & Scientists Ltd	Doc. 20E-16-0192-ADM-456564-0 06/10/2016 to achieve AAAC 6 stars Lntw 40 with Novocore vinyl flooring over 200mm concrete slab with bare concrete ceiling

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.

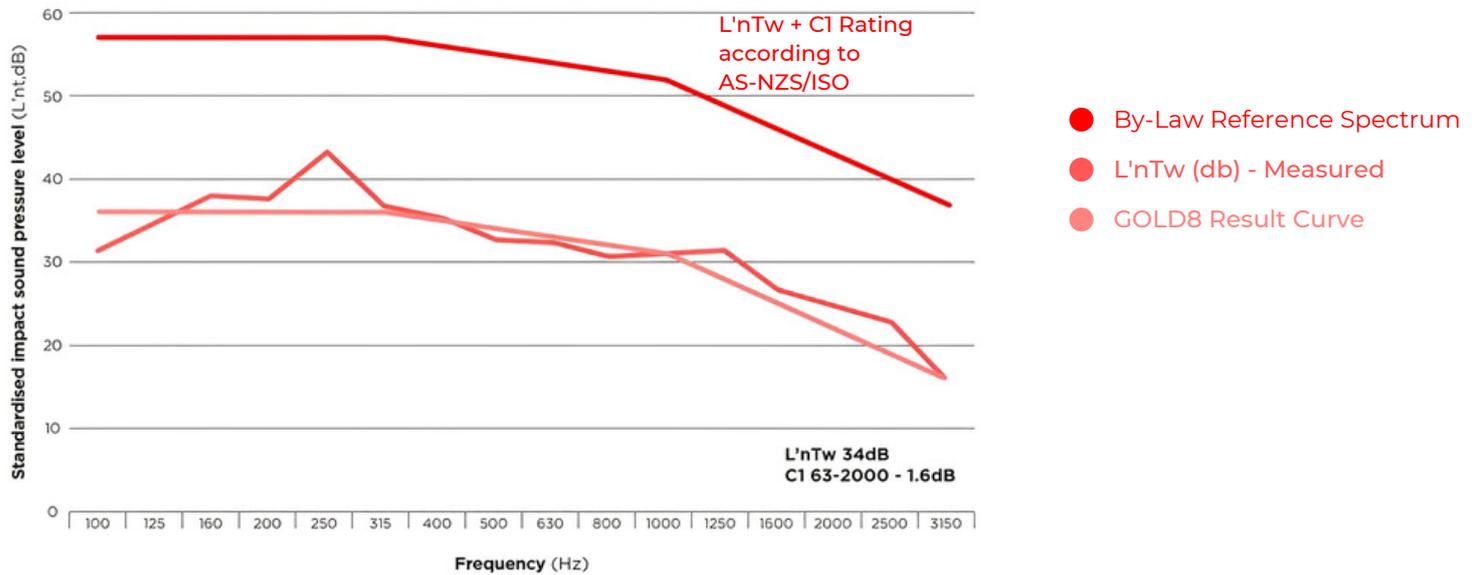
In response, the Association of Australian Acoustic Consultants (AAAC) has developed the star rating system to rank the acoustical quality of apartments and provide guidance in the design and construction process.

Rating	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



SCORES AND TEST RESULTS

AngelStep® GOLD8 under 6mm fibre cement sheet under 10mm stone tile, 220 concrete slab, suspended plasterboard ceiling.



CONSTRUCTION

A laminate of double-needle-punched, high-density, sound-absorbent polyester and a resilient 'cross-linked' microcellular foam to form an 8mm thick substrate.