acoustica®
the quiet Australian

IMPACT

AngelStep® GOLD8

universal acoustic underlay

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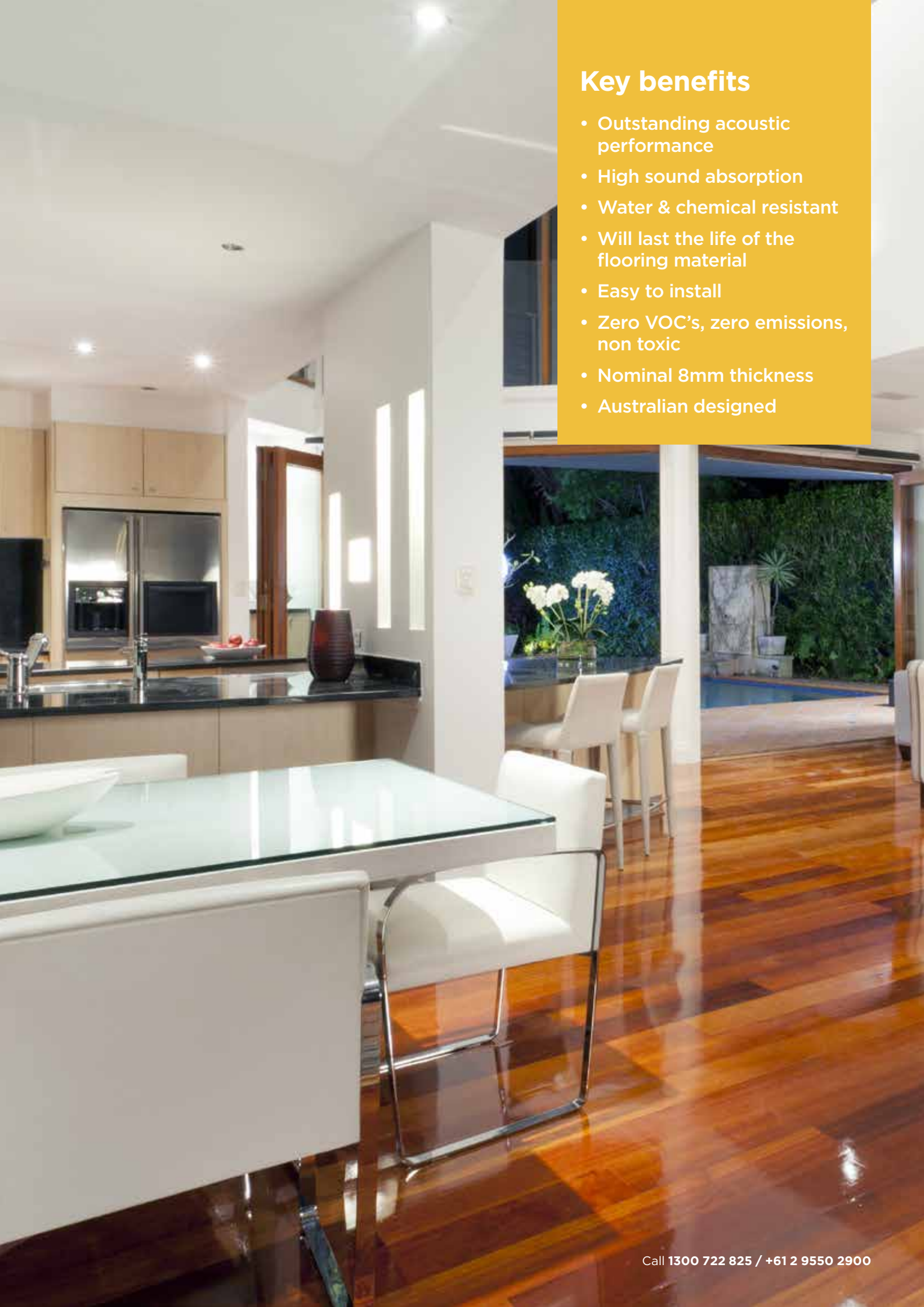
The unrivalled performance of AngelStep® GOLD8 was designed for use in apartments and townhouses, upmarket housing and professional office and consulting suites where discerning buyers expect performance beyond that mandated by the minimum requirements of the BCA. When AngelStep® GOLD8 is installed, it delivers optimum performance and comfort for both resident and neighbours alike.

The AngelStep® GOLD8 product is an acoustic underlay for the treatment of Impact and airborne noise transfer. Its construction combines a highly effective support and cushion. It provides maximum performance for minimum thickness combining an impact and vibration dampener and sound absorber.

The performance of AngelStep® GOLD8 is due to its unique and patented construction – a laminate of double needle punched high density sound absorbent polyester and a resilient 'cross linked' microcellular foam. It is nominally 8mm thin & is supplied in tiles 1150x1150mm.

Unlike competitive underlays AngelStep® GOLD8 has been engineered as a universal underlay to deliver optimum acoustic performance according to the flooring type. Independent comparison tests have shown that AngelStep® GOLD8 provides a more cost effective acoustic treatment in a thinner solution that is very cost effective. Select installation option – of polyester side facing up/down or foil moisture barrier side facing up/down depending on end result required.



Key benefits

- Outstanding acoustic performance
- High sound absorption
- Water & chemical resistant
- Will last the life of the flooring material
- Easy to install
- Zero VOC's, zero emissions, non toxic
- Nominal 8mm thickness
- Australian designed

The product has been independently tested to achieve Lnt,w of 40 - equivalent to AAAC rating 6 stars:

- Independently tested by West and Associates Pty Limited document 14201 28/10/2014 = GOLD8 + 15mm plywood + 15mm timber floor on a concrete slab with vermiculite result Lnt,w 36 = AAAC 6 stars
- Independently tested by Palmer Acoustics Australia Pty Limited document 3770 v.0
- 28/11/2014 = GOLD8 + 14mm thick timber on a concrete slab result Lnt,w 40 = AAAC 6 stars
- Independently tested by Wilkinson Murray Pty Limited document 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
- Independently tested by Vipac Engineers & Scientists 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 (report 20E-16-0089-TPR-456023-0)
- Independently tested by Vipac Engineers & Scientists Ltd 06/10/2016 to achieve AAAC 6 stars Lntw 40 with Novocore vinyl flooring over 200mm concrete slab with bare concrete ceiling (report 20E-16-0192-ADM-456564-0)

Gold foil up
Solid timber
Engineered timber
Bamboo
Veneer
Carpet

Gold foil down
Parquetry
Ceramic tile
Vinyl
Cork

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.

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 Ci, of less than or equal to 62 Lnt,w+Ci.

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.

Custom & specialist solutions

Acoustica are specialists in refining solutions to tune your project to achieve an optimal outcome.

Note: When installation of multiple layers is required, please contact our experts at Acoustica for specific installation instructions.

Applications

AngelStep® GOLD8 is a universal floor acoustic underlay that can be installed under* solid timber floor, engineered timber floor, ceramic tiles, vinyl, carpet or carpet tiles.

Our engineers will advise how to perform the installation.

Features & Benefits

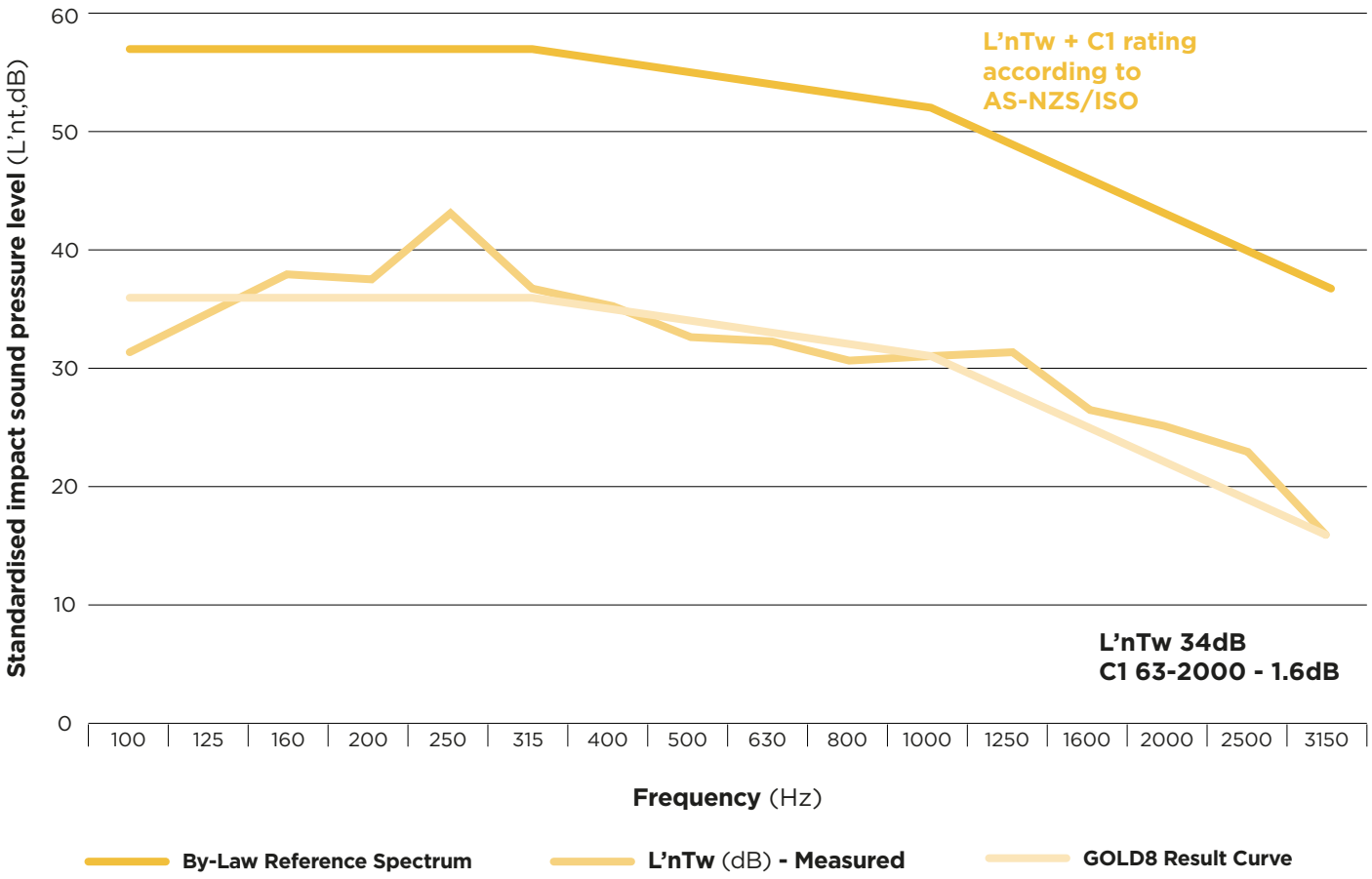
- Outstanding impact and sound deadening
- Resistance to moisture absorption and rot
- Suitable for underfloor heating
- Environment friendly
- Helps to reduce reverberated sound in the room
- Will last the life of any floors

	Impact Isolation of floors (Lnt'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

*For some floor finishes, an intermediate layer (eg light concrete screed, tong & groove plywood or chipboard, FC sheeting) will have to be installed.

Typical Acoustic Test Result on a Concrete Slab

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



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.

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