

## Setting sound levels.

In 2004, the BCA amended the minimum sound insulation requirements for multi level dwellings to reflect community expectations. The BCA introduced a minimum impact sound insulation requirement for all floors. The terms to describe the impact sound insulation of the floor are the 'weighted normalised impact sound pressure level' (Ln,w) plus the 'spectrum adaptation' (CI). The lower the Ln,w + CI for the flooring assembly, the better the performance of the floor in terms of impact sound insulation.

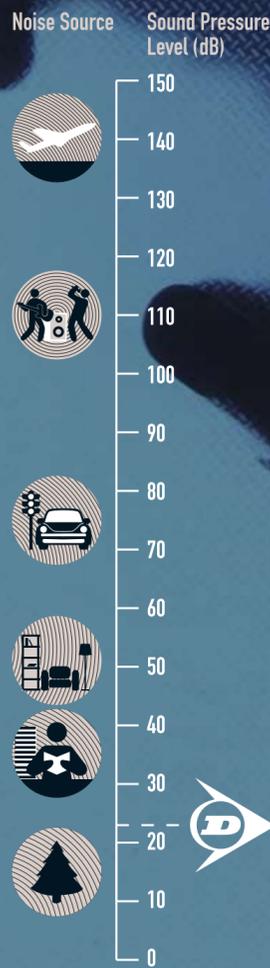
In addition to impact sound, reverberation in everyday environments such as open plan offices, homes and schools can be noisy due to multiple reflections from hard surfaces found within the room. The term 'Reverberation' is used to describe the way sound builds up within a room. The degree to which a material assists in the control of reverberation is given by its Noise Reduction Coefficient (NRC) or Weighted Sound Absorption Coefficient (w, pronounced 'apha W'). Both rating systems have values in the range of 0 to 1, with zero providing no absorption (e.g. glass) and one providing total absorption (e.g. cotton wool).

## Sound proof.

After stringent testing from the CSIRO, Dunlop AcoustiCushion in conjunction with carpet recorded a sound pressure level of 22dB, which easily surpasses the 62dB standard set by the BCA. The results have also been measured against the Association of Australian Acoustical Consultants (AAAC) rating system and we have achieved a maximum 6 star rating. The AAAC regulates the acoustical qualities of multi-tenancy dwellings and has developed a star rating system, which assists in the design, development, and purchase of apartments and townhouses by ranking their acoustical quality.

The NRC rating for Dunlop AcoustiCushion with a carpet is also provided below. This result indicates that carpet in combination with AcoustiCushion is a practical and effective means of introducing absorption into a space and controlling reverberation.

Carpet Cushion	Ln,w + CI (dB)	NRC	AAAC Rating	BCA Compliant
	22	0.65	6 Star	YES



DUNLOP AcoustiCushion Sample Folder

## AcoustiCushion Features and Benefits:

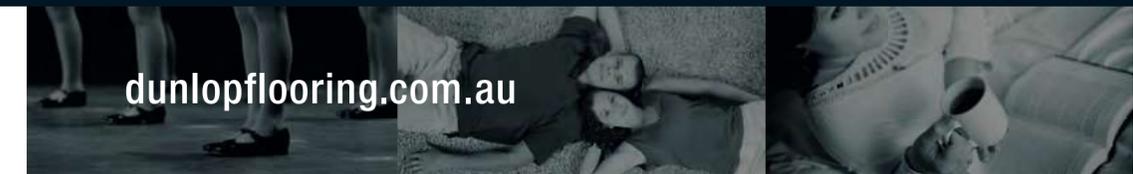
-  Improves acoustics by reducing noise transfer.
-  Acts as a thermal insulator, reducing your energy bills.
-  Makes carpet feel richer, thicker and more luxurious.
-  Extends the life of the carpet.
-  Improves carpet appearance and retention.
-  Suitable for all floor types, including heated slabs.
-  Green Label accredited for indoor air quality.
-  Ultra-Fresh treated to reduce mould, mildew and dust mites.
-  Environmentally friendly, 100% recyclable.
-  Australian made.
-  Guaranteed for the life of the carpet.
-  Meets Australian Standard AS 4288-2003 for soft underlays.

DUNLOP AcoustiCushion Sample Folder



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SOFTER.  
QUIETER.

 **DUNLOP** flooring  
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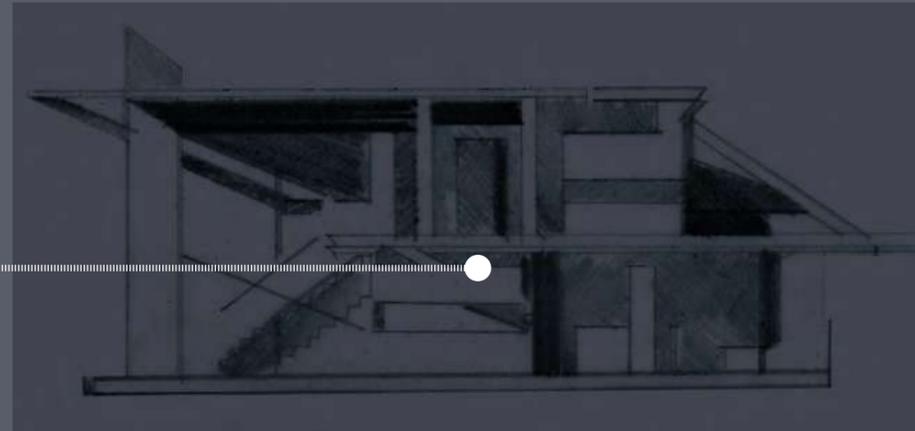
# The quiet achiever.

There's nothing more irritating than intrusive noise from the floor above. So as more and more people choose multi-level residential living, the issue of sound insulation has never been more important. Whether it's in a townhouse, apartment, or two-storey home, the sound of footsteps, moving furniture, or falling items is not only annoying but can also cause sleep deprivation and stress.

To tackle this problem, we've developed Dunlop AcoustiCushion, our thickest foam carpet underlay yet. Neither seen nor heard, it delivers outstanding acoustic performance while still helping to make your carpet more comfortable and maintain its appearance. Millions of tiny air pockets trap and absorb sound, which helps reduce the impact of noise through floors and ceilings by up to 68%, easily surpassing the industry standard set by the Building Code of Australia (BCA). That makes Dunlop AcoustiCushion a sound choice.

## The ultimate sound system.

Air is actually the best known thermal and acoustic insulator in existence so the more air pockets in the underlay, the better. For optimal acoustic performance, foam underlay needs the right balance of thickness and density. Dunlop AcoustiCushion achieves this balance, which results in superior acoustic insulation and outstanding comfort. As you can see below, it certainly delivers superior results when compared to most other flooring choices.



Upper floor



Lower floor

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Dunlop AcoustiCushion

Thickness: 12mm ± 0.3  
 Roll Length: 10.0m  
 Roll Width: 1800m ± 5  
 Roll Size :18m<sup>2</sup>  
 Roll Weight:16.0kg



## Peace, quiet, and comfort.

AcoustiCushion offers more than just peace and quiet. It's also a fantastic thermal insulator, which keeps your home warmer and helps reduce heating bills. And as you'd expect from a Dunlop carpet cushion, it improves carpet appearance and retention, extending the life of your carpet.



## Environmentally sound.

AcoustiCushion has been certified by the Carpet and Rug Institute's (CRI) Green Label program in the USA, which recognises products that promote superior indoor air quality. This was achieved after rigorous scientific testing.

It also meets the requirements set by the Green Building Council of Australia's (GBCA) Green Star program, gaining maximum rating points for building interiors. In fact, Dunlop Flooring was recognised as the first underlay manufacturer to achieve this.

In addition, AcoustiCushion has been awarded a GOLD plus 'Green Tag' certification from Eco-Specifier, which puts it in the top 15% of eco-friendly building materials currently on the market.

