

Acoustic Insulation - Laboratory Testing

From offices, libraries and education facilities through to cafés, hotels and restaurants, acoustic insulation has always been an important factor in building comfortable commercial interiors. The increase in inner city living and the number of high-rise apartments now entering our skylines means that noise reduction treatments are important with hard flooring systems in order to provide occupants with a comfortable amenity and quiet living space.

To provide you with confidence, Godfrey Hirst has worked closely with Damtec Australasia utilising their high quality, German engineered and manufactured underlays. **N.A.T.A accredited laboratory testing** has been completed to the relevant **International Standards** for our hard flooring systems.

Using Damtec underlay products, all Godfrey Hirst timber and LVP flooring systems comply and exceed the **BCA/NCC 2016 requirements** for the treatment of Impact Noise (see table below).

Godfrey Hirst Floors Product	Installation Method	Underlay (Damtec®)	Compliance to Part 5 of BCA/NCC 2016 (must be L_{nw} 62 or less)	Laboratory Test Report #
12mm Engineered Timber (Project Oak)	Loose Laid	Multi 3mm	$L_{nw} = 60$ (Pass)	461415-31
	Loose Laid	Multi 4mm	$L_{nw} = 57$ (Pass)	461415-04
12mm Engineered Timber (Project Oak)	PU Adhesive	Multi 3mm	$L_{nw} = 60$ (Pass)	461415-23
	PU Adhesive	Multi 4mm	$L_{nw} = 59$ (Pass)	461415-24
14mm Engineered Timber (Villa, Regal Oak)	Loose Laid	Multi 3mm	$L_{nw} = 58$ (Pass)	461415-01
	Loose Laid	Multi 4mm	$L_{nw} = 57$ (Pass)	461415-02
14mm Engineered Timber (Villa, Regal Oak)	PU Adhesive	Multi 3mm	$L_{nw} = 61$ (Pass)	461415-21
	PU Adhesive	Multi 4mm	$L_{nw} = 59$ (Pass)	461415-22
2.5mm Luxury Vinyl Plank (Vega DS)	PU Adhesive	Color 2mm	$L_{nw} = 57$ (Pass)	461415-25
4mm Luxury Vinyl Plank (Orion DS)	PU Adhesive	Color 2mm	$L_{nw} = 58$ (Pass)	461415-27
5mm Luxury Vinyl Plank (Vega EL)	PU Adhesive	Color 2mm	$L_{nw} = 58$ (Pass)	461415-26
5mm Luxury Vinyl Plank (Click) (Vega CK, Orion CK)	Loose Laid	Color 2mm	$L_{nw} = 58$ (Pass)	461415-05
8mm Laminate (Belle)	Loose Laid	Multi 4mm	$L_{nw} = 52$ (Pass)	461415-20
	Loose Laid	Rubber 2mm	$L_{nw} = 55$ (Pass)	461415-19

Please note that all Godfrey Hirst Floors ranges must be installed in accordance with the applicable installation guidelines. We also recommend you consult with Damtec and your preferred adhesive supplier for their respective installation recommendations and requirements.

All testing has been conducted at a N.A.T.A. recognised laboratory on a 140mm thick concrete slab with no ceiling in accordance with ISO 140 and results calculated in accordance with ISO 717.2.

The results above serve as a guide and are all based on the requirements of the BCA/NCC 2016 Standards. If specific results are required, advice from an AAAC accredited acoustic consultant should be obtained and a field test conducted to ensure compliance as results may vary subject to the final building materials used on site.

Please contact your Godfrey Hirst Account Manager for more information and for the latest version of this document.

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