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InnvoLay™ Acoustic Underlay Acoustic Test Results

Summary of test results for InnvoLay™ Acoustic Underlay, which were conducted at the CSIRO Acoustic Laboratory – Highett Victoria in June 2008.

All tests were installed in-situ on a CSIRO compliant slab of 150mm thickness with NO CEILING. Therefore, higher results will be achieved with the addition of a generic ceiling system, the value of which depends on the system employed.

Flooring System Tested	CSIRO Result	Delta ΔL_w (db) Reduction	Adhesive	InnvoLay Underlay Tested	Ln,w + Ci Result
14mm Engineered Timber (Floating)	A	18	Nil	3mm Rubber	Ln,w+Ci = 59 Exceeds by 3
8mm Laminate (Floating)	B	18	Nil	3mm Rubber	Ln,w+Ci = 59 Exceeds by 3
2mm Vinyl Plank (Direct Stick)	C	20	1 Part Polyurethane	3mm Cork	Ln,w+Ci = 57 Exceeds by 5
19mm Solid Timber/Plywood	D	16	1 Part Polyurethane	5mm Rubber	Ln,w+Ci = 61 Exceeds by 1
19mm Solid Timber/Plywood	E	18	1 Part Polyurethane	15mm Rubber	Ln,w+Ci = 58 Exceeds by 4
14mm Engineered Timber (Direct Stick)	F	18	1 Part Polyurethane	5mm Rubber	Ln,w+Ci = 59 Exceeds by 3
14mm Engineered Timber (Direct Stick)	G	16	1 Part Polyurethane	3mm Cork	Ln,w+Ci = 61 Exceeds by 1
14mm Engineered Timber (Direct Stick)	H	16	1 Part Polyurethane	3mm Rubber	Ln,w+Ci = 61 Exceeds by 1
14mm Engineered Timber (Direct Stick)	I	17	Polymer	3mm Rubber	Ln,w+Ci = 61 Exceeds by 1
2mm Sheet Vinyl over Dual Bond Masonite	J	22	Nil	3mm Rubber	Ln,w+Ci = 55 Exceeds by 7
Ceramic Tile (Direct Stick)	K	13	Tile Adhesive	5mm Cork	Ln,w+Ci = 62 Meets BCA
Ceramic Tile (Direct Stick)	L	14	Tile Adhesive	6mm Rubber	Ln,w+Ci = 62 Meets BCA
Ceramic Tile Over 20mm Screed Bed	M	18	Tile Adhesive	5mm Rubber	Ln,w+Ci = 59 Exceeds by 3
Ceramic Tile Over 20mm Screed Bed	N	17	Tile Adhesive	5mm Cork	Ln,w+Ci = 60 Exceeds by 2

CSIRO Test Report No INR-157 can be made available to Specifiers/Architects & Acoustic Engineers upon request.