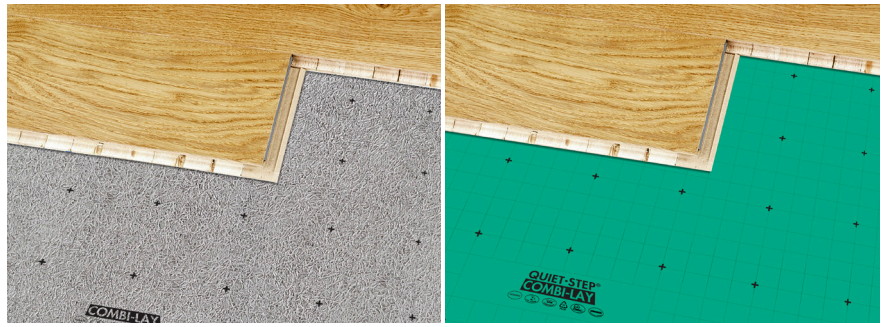


# UNDERLAYS







FEATURES	COMBI-LAY STANDARD	QUIET-STEP® COMBI-LAY
Easy to handle	✓	✓
Integrated peel and stick strip	✓	✓
Lay flat polymers for easy installations	✓	✓
Reflected foot noise		✓
Multi-storey		✓
Will not hold water and will not mildew	✓	✓
Compatible with standard trims	✓	✓
Continuous damp proofing in one application *	✓	✓

SPECIFICATION	STANDARD	COMBI-LAY STANDARD	QUIET-STEP® COMBI-LAY
Thickness supplied	ISO 1923	2mm	2mm
Supplied in rolls of		20/50m <sup>2</sup>	20/50m <sup>2</sup>
Width		1m	1m
Reflected foot noise			reduced by 30%
Multi-storey (NZBC G6.3.1 STC > 55)	ISO 717/2		STC = 60 / LnTw = 40 (Site Specific)
Water vapour transmission:	SD > 75m	SD = 86.7m	SD = 89.3m
Water absorption 28 days:	JIS 6767	0.07mg/cm <sup>2</sup>	0.03mg/cm <sup>2</sup>
Compr. creep (thickness loss)	8hrs		0.1%
23C at 20 kPa load	408hrs 10,000hrs		0.6% 2.0%
Compr. strength (25%)	ISO 844	30kPa	70kPa
VOC emission	ASTM D5116	0.06mg/sqm/hr	Green Star compliant

\* Both Combi-Lay Standard and Quiet-Step® Combi-Lay are available without the damp proof for those applications where 200um plastic is to be used or where a damp proof is not deemed necessary. Always seek manufacturer's guidelines. Floorscape recommends continuous damp proof for all floating floor installations over concrete and wood floors directly above ground. Continuous damp proofing requires taping of roll end joints. Heated floors and knowingly or logically wet floors require separate 200um plastic barrier with 300mm overlap and turn up at walls.



### Combi-Lay Standard

Combi-Lay Standard is a good quality, medium density polyolefin underlay for all floating floor applications. It incorporates a continuous clear damp-proof with 100mm overlap and integrated “peel and stick”. The inclusion of a continuous damp proof is a requirement under most floating floor installations. With Combi-Lay, the need for additional damp proof layers is almost always avoided\*, making installations quicker and more cost effective. Combi-Lay Standard combines the right balance of compression, slip and damp proof characteristics into one affordable package. The 50 square metre rolls are easy to handle, while the no fuss lay flat polymers make installation simple.

### Quiet-Step® Combi-Lay

Quiet-Step® Combi-Lay is a superior underlay, where reduced reflected foot noise and sound reduction in multi-story buildings are required. It is made of high density polyolefin copolymer resin which effectively reduces the hollow and often “clunky” foot noise associated with floating floors. Quiet-Step® Combi-Lay addresses this key negative of floating floor installations, while performing all the tasks of a superior quality underlay including a continuous damp proof\*.

Quiet-Step® Combi-Lay is the first floating floor underlay in New Zealand to take reflected foot noise seriously. Independent university tests show a 30% or more reduction in reflected foot noise for the user, while the underlay has achieved an excellent IIC =60 rating in a multi-storey application. This is a site specific test result and complies with NZBC multi-storey requirements. Test report available upon request. This result is AAAC 6 star compliant. The integrated damp proof removes the need for additional damp proof layers in most instances\*, while the products strength and lay flat characteristics make it a pleasure to install.

## WHEN CONSIDERING THE NOISE ASSOCIATED WITH FLOORING SYSTEMS WE SHOULD CONSIDER BOTH THE REFLECTED NOISE, AND THE MULTI-STOREY NOISE.

### Reflected noise

Reflected noise is that noise experience by the person walking on the flooring system. The amount and type of this noise can change, depending on the underlay used.

### Multi-storey noise

Multi-storey noise is noise that is transferred from above to below in multi level dwellings. Multi-Storey noise will test differently based on concrete density and thickness, ceiling treatments, and other structural considerations. As such, the results are a measure of the structural characteristics of the building, as much as the measure of flooring and underlay performance.

The New Zealand Building Code states that multi-storey noise should measure no less than IIC =40, whereas the standard Strata Title Act only states that “peaceful enjoyment” of adjoining lots must be provided. Such an arbitrary and vague guideline has led many Body Corporates to register special guidelines for their own building. These guidelines should be followed, when enacted.

Floating floor systems work very well because of the inherent isolation afforded by this method of installation.