

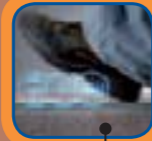
SELECTION GUIDE

FOR 'FIXED' ENGINEERED & SOLID WOOD FLOORS



RANGE & SELECTION

4 underlays to choose from with easy selection.



PERFORMANCE (COMPRESSIVE CREEP)

The value given in kPa is the maximum load which can be applied to the underlay so that the loss in thickness remains below 10% after 10 years loading time. The higher the value the greater its ability to withstand heavy furniture.



(See Technical Overview on page 24 for more information)

THERMAL INSULATION

Thermal resistance to heat transfer; relevant if heat loss is important or underfloor heating is to be used.



Suitability for use with surface (ribbon, wire etc) or subfloor embedded underfloor heating systems is indicated.



VAPOUR BARRIER (MOISTURE)

If laid where sub-floor moisture is <4% a separate vapour barrier should be used.

Where sub-floor moisture is >4% a damp proof membrane (DPM) should be used.

(See accessories on page 27)

PRODUCT	TYPICAL USE	PERFORMANCE (MAX LOAD)	JOINT PROTECTION (COMPRESSIVE STRENGTH)	THICKNESS (SPOT LEVELLING)	THERMAL INSULATION		VAPOUR BARRIER (MOISTURE)	IN-ROOM SOUND QUALITY (DRUM)	TRANSMITTED SOUND REDUCTION (IMPACT)
					(UNDERFLOOR HEATING)	(EMBEDDED)			
ACOUSTALAY® 300 SLATTED	Living Room Kitchen Play Room Hallway	Heavy Domestic 3 kPa 300 Kg/m ²	28 kPa 2800 Kg/m ²	3mm (2.7mm)	Medium 0.088m ² K/W†	Embedded	NO	★★	★★★ 22dB†
ACOUSTALAY® 1000 SLATTED	Kitchen Hallway Office Hotel Room	Commerical 10 kPa 1000 Kg/m ²	40 kPa 4000 Kg/m ²	3mm (2.7mm)	Medium 0.073m ² K/W†	Embedded	NO	★★★	★★ 20dB†
ACOUSTALAY® 300 ADHESIVE	Living Room Kitchen Play Room Hallway	Heavy Domestic 3 kPa 300 Kg/m ²	28 kPa 2800 Kg/m ²	3mm (2.7mm)	Medium 0.088m ² K/W†	Embedded	NO	★★	★★★ 22dB†
ACOUSTALAY® 1000 ADHESIVE	Kitchen Hallway Office Hotel Room	Commerical 10 kPa 1000 Kg/m ²	40 kPa 4000 Kg/m ²	3mm (2.7mm)	Medium 0.073m ² K/W†	Embedded	NO	★★★	★★ 20dB†

†Estimated values from known test results.

JOINT PROTECTION (COMPRESSIVE STRENGTH)

A minimum value of 20kPa/2000kg/m² is advisable to prevent potential damage of the tongue and groove system when puncture load is applied; the higher the value the greater its resistance to tongue and groove damage.



THICKNESS (PROTECTION/SPOT LEVELLING)

Underlay needs to be thick and elastic enough to compensate for small protruding particles found on the smoothest of floors. Thereby preventing the creation of undesirable sound bridges and rocking caused by the new floor coming into contact with the sub-floor.

A minimum of 1.5mm thickness is recommended for moderately smooth structural floors, Beacons recommend a minimum of 1.8mm for normal use.



IN-ROOM SOUND QUALITY (DRUM)

The perceived level of noise an action (footsteps etc.) will produce in the room.

★ MIN REDUCTION
★★★★ MAX REDUCTION



TRANSMITTED SOUND REDUCTION (IMPACT)

The noise an action (footsteps etc.) will transmit to the room below.

★ MIN REDUCTION
★★★★ MAX REDUCTION
dB