

# SELECTION GUIDE

## FOR 'FLOATING' LAMINATE & ENGINEERED FLOORS



### RANGE & SELECTION

9 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.

### JOINT PROTECTION (COMPRESSIVE STRENGTH)

A minimum value of 20kPa/2000kg/m<sup>2</sup> is advisable to prevent potential damage of the tongue and groove system (click or non-click laminate) 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.

### 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.

(See Technical Overview on page 24 for more information).

### VAPOUR BARRIER (MOISTURE)

When installed as directed using waterproof tape the underlay will prevent the penetration of moisture.

**ACOUSTALAY® 250 DPM** offers a complete damp proof membrane (DPM) to PIFA 6/83A:1995, for use when subfloor moisture level greater than 4%.

### 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 dB      ★★★★★ MAX REDUCTION dB



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)	(SURFACE + EMBEDDED)			
<b>ACOUSTALAY® 200</b>	Bedroom Spare Room Living Room	Domestic 2 kPa 200 Kg/m <sup>2</sup>	32 kPa 3200 Kg/m <sup>2</sup>	2mm (1.8mm)	Low 0.059m <sup>2</sup> K/W	Surface + Embedded	NO	★	★★★ 22dB
<b>ACOUSTALAY® 250</b>	Bedroom Spare Room Living Room	Domestic 2.5 kPa 250 Kg/m <sup>2</sup>	28 kPa 2800 Kg/m <sup>2</sup>	3mm (2.7mm)	High 0.130m <sup>2</sup> K/W	Surface	NO	★★	★★ 19dB
<b>ACOUSTALAY® 250 DPM*</b>	HIGH MOISTURE AREAS Kitchen Living Room	Domestic 2.5 kPa 250 Kg/m <sup>2</sup>	28 kPa 2800 Kg/m <sup>2</sup>	3mm (2.7mm)	Medium 0.086m <sup>2</sup> K/W	Surface + Embedded	DPM	★★	★★ 19dB
<b>ACOUSTALAY® 300</b>	Living Room Kitchen Play Room Hallway	Heavy Domestic 3 kPa 300 Kg/m <sup>2</sup>	28 kPa 2800 Kg/m <sup>2</sup>	3mm (2.7mm)	Medium 0.088m <sup>2</sup> K/W	Surface + Embedded	YES	★★	★★★★ 22dB
<b>ACOUSTALAY® 300 TILE</b>	COARSE SURFACES Living Room Hallway	Heavy Domestic 3 kPa 300 Kg/m <sup>2</sup>	20 kPa 2000 Kg/m <sup>2</sup>	5mm (4.5mm)	High 0.15m <sup>2</sup> K/W	Surface	NO	★★★★	★★★★ 22dB†
<b>ACOUSTALAY® 300 ISO-SOUND</b>	ACOUSTIC Living Room Hallway	Domestic Commercial 3 kPa 300 Kg/m <sup>2</sup>	28 kPa 2800 Kg/m <sup>2</sup>	4mm (3.7mm)	High 0.15m <sup>2</sup> K/W‡	Surface	YES	★★★★★	★★★★★
<b>ACOUSTALAY® 1000</b>	Kitchen Hallway Office Hotel Room	Commercial 10 kPa 1000 Kg/m <sup>2</sup>	40 kPa 4000 Kg/m <sup>2</sup>	3mm (2.7mm)	Medium 0.073m <sup>2</sup> K/W	Surface + Embedded	YES	★★★★	★★★ 20dB
<b>ACOUSTALAY® 1500</b>	ACOUSTIC Office, Café Boutique Canteen	Heavy Commercial 15 kPa 1500 Kg/m <sup>2</sup>	60 kPa 6000 Kg/m <sup>2</sup>	2mm (1.8mm)	Low 0.052m <sup>2</sup> K/W	Surface + Embedded	YES	★★★★	★★★ 20dB
<b>ACOUSTALAY® 3500</b>	ACOUSTIC Open Plan Snooker Room Public Buildings	Extra Heavy Commercial 35 kPa 3500 Kg/m <sup>2</sup>	110 kPa 11000 Kg/m <sup>2</sup>	2mm (1.8mm)	Low 0.050m <sup>2</sup> K/W	Surface + Embedded	YES	★★★★★	★ 16dB

\*Estimated values from known test results.