

ACOUSTALAY®

Innovative underlay for rigid floors
and LVT click flooring



est. 1986
Engineering Underlay for rigid floors since 1995
"THE FIRST - THE BEST"

THE FOUNDATION OF GREAT FLOORS

THE UNDERLAY RANGE

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UNDERLAY FOR FLOATING LAMINATE & ENGINEERED FLOORS

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UNDERLAY FOR FIXED ENGINEERED & SOLID WOOD FLOORS

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OUR HISTORY



Beacons Products, established in 1986, one of the leading stockists, distributors and converters of expanded foam products in South Wales and the West Country.



WHY ACOUSTALAY®?

Our experience and understanding of the flooring industry and the function of underlay combined with our confidence and technical knowledge has enabled us to develop our **ACOUSTALAY®** range. The most cost effective solution available - WHY PAY MORE FOR LESS?

The **ACOUSTALAY®** range has been manufactured and distributed since 1995 by Beacons Products.

Beacons have been engineering underlay for rigid floors since laminates were first introduced into the UK and Ireland in the early 1990s.

With a company focus on products that are 'fit for purpose', the high performance and long life of the **ACOUSTALAY®** range has quickly established itself as the professional's choice.

Produced from a unique formula of chemically and physically cross-linked polyolefin foams, **ACOUSTALAY®** offers a complete, fully tested and certified range, meeting industry standards exactly. With a 10 year guarantee **ACOUSTALAY®** gives you underlay matched to your needs from domestic to heavy commercial grades. With products developed for acoustically sensitive areas and for use with underfloor heating and with vapour or DPM barriers, **ACOUSTALAY®** will meet the specific needs of your installation.



INVESTOR IN PEOPLE



OUR ADVERTISING

ACOUSTALAY®
Innovative underlay for rigid floors and LVT click flooring

THE FINISH DEPENDS ON THE START

QUALITY BRITISH BRAND MANUFACTURED IN WALES FOR OVER 25 YEARS

THE BEST RESULTS COME FROM CAREFUL PREPARATION

Excellent trade pricing and margins for you. Great value for your customers

ACOUSTALAY® for laminate | engineered | solid wood | LVT click flooring laid on timber or concrete sub-floors

SUPPLIED IN RETAIL OR CONTRACTOR ROLLS (Typically 10 or 100m)

SLATTED OR ADHESIVE BACKED ACOUSTALAY® FOR FIXED, ENGINEERED OR SOLID WOOD FLOORS

ACOUSTALAY® IS ALSO PERFECT FOR FLOATING, LAMINATE, ENGINEERED AND LVT CLICK FLOORS

Protection guaranteed: Our underlays will maintain all of their properties for the life of the floor

- Spot levelling: 1.8mm up to 4.5mm
- Static load resistance: 200kg/m² up to 1500kg/m²
- Joint protection ≤ 0.5mm deflection: 20kPa up to 60kPa
- Transmitted (impact) sound reduction: Up to 22dB
- Thermal insulation 0.052m²K/W up to 0.15m²K/W

ACOUSTALAY® the professional's choice.
E: ENQUIRIES@ACOUSTALAY.CO.UK | ACOUSTALAY.CO.UK

ACOUSTALAY®
Innovative underlay for rigid floors and LVT click flooring

THE FOUNDATION OF GREAT FLOORS

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ACOUSTALAY®
Innovative underlay for rigid floors and LVT click flooring

A STRONG & HEALTHY BALANCE

QUALITY BRITISH BRAND MANUFACTURED IN WALES FOR OVER 25 YEARS

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QUALITY APPROVED

ACOUSTALAY®
Innovative underlay for rigid floors and LVT click flooring

QUALITY BRITISH BRAND MANUFACTURED IN WALES FOR OVER 25 YEARS

THE BEST RESULTS COME FROM CAREFUL PREPARATION

Excellent trade pricing and margins for you. Great value for your customers

ACOUSTALAY® for laminate | engineered | solid wood | LVT click flooring laid on timber or concrete sub-floors

SUPPLIED IN RETAIL OR CONTRACTOR ROLLS (Typically 10 or 100m)

SLATTED OR ADHESIVE BACKED ACOUSTALAY® FOR FIXED, ENGINEERED OR SOLID WOOD FLOORS

ACOUSTALAY® IS ALSO PERFECT FOR FLOATING, LAMINATE, ENGINEERED AND LVT CLICK FLOORS

Protection guaranteed: Our underlays will maintain all of their properties for the life of the floor

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ACOUSTALAY®
Innovative underlay for rigid floors and LVT click flooring

THE JACK OF OUR TRADE

QUALITY BRITISH BRAND MANUFACTURED IN WALES FOR OVER 25 YEARS

THE BEST RESULTS COME FROM CAREFUL PREPARATION

Excellent trade pricing and margins for you. Great value for your customers

ACOUSTALAY® for laminate | engineered | solid wood | LVT click flooring laid on timber or concrete sub-floors

SUPPLIED IN RETAIL OR CONTRACTOR ROLLS (Typically 10 or 100m)

SLATTED OR ADHESIVE BACKED ACOUSTALAY® FOR FIXED, ENGINEERED OR SOLID WOOD FLOORS

ACOUSTALAY® IS ALSO PERFECT FOR FLOATING, LAMINATE, ENGINEERED AND LVT CLICK FLOORS

Protection guaranteed: Our underlays will maintain all of their properties for the life of the floor

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ACOUSTALAY®
Innovative underlay for rigid floors and LVT click flooring

STRICTLY THE BEST

QUALITY BRITISH BRAND MANUFACTURED IN WALES FOR OVER 25 YEARS

THE BEST RESULTS COME FROM CAREFUL PREPARATION

Excellent trade pricing and margins for you. Great value for your customers

ACOUSTALAY® for laminate | engineered | solid wood | LVT click flooring laid on timber or concrete sub-floors

SUPPLIED IN RETAIL OR CONTRACTOR ROLLS (Typically 10 or 100m)

SLATTED OR ADHESIVE BACKED ACOUSTALAY® FOR FIXED, ENGINEERED OR SOLID WOOD FLOORS

ACOUSTALAY® IS ALSO PERFECT FOR FLOATING, LAMINATE, ENGINEERED AND LVT CLICK FLOORS

Protection guaranteed: Our underlays will maintain all of their properties for the life of the floor

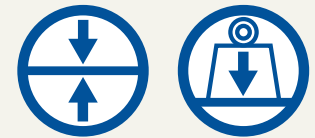
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UNDERLAY FOR FLOATING FLOORS

If the underlay fails, the floor fails

1 All underlays must provide a minimum of 1.5mm layer between the floor and the sub-floor for spot levelling.



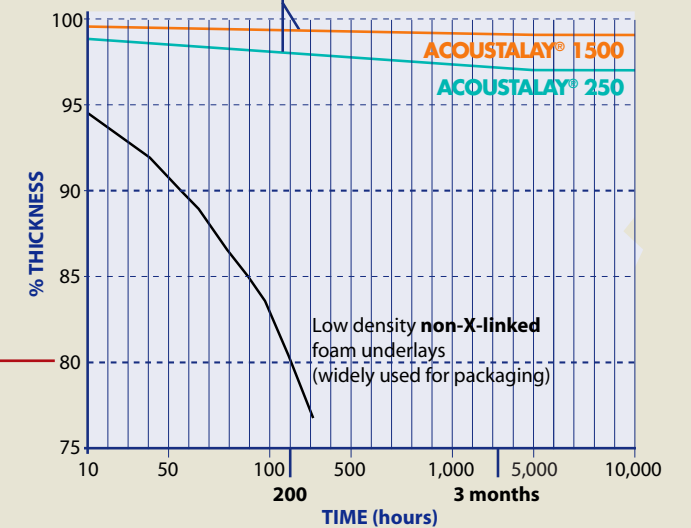
ACOUSTALAY® is tested so when the appropriate grade is selected for the correct application, compression is minimised with no more than 10% thickness loss over a minimum period of 10 years when under load. This gives a minimum of 1.8mm protection between the floor and the sub-floor, ensuring spot levelling and all other benefits are maintained for the life of the floor.

LOADING RANGE
2-15kPa (200-1500kg/m²)

OVERLOAD COMPRESSION
When 20% compression is exceeded cellular foams fail as the cell structure becomes damaged and can no longer recover its original thickness

Compressive creep comparison at 2kPa (200kg) load

ACOUSTALAY® will compress no more than 10% over the life of the floor (10 years)



2 All underlays must not deflect by more than 0.5mm to protect the joints from premature wear.



ACOUSTALAY® is fully tested and will take a force of a minimum of 20kPa = equivalent to 2 tonnes on the joint without exceeding the 0.5mm deflection limit, maintaining the integrity of the joints.

LOADING RANGE
20-60kPa (2000-6000kg/m²)



RANGE & SELECTION

8 underlays to choose from with easy selection. Retail (POS) display cartons, top up pallet trays or contractor Midi Rolls.

SELECTION GUIDE

FOR FLOATING LAMINATE & ENGINEERED FLOORS



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/m² 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. By doing so, it prevents 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. Acoustalayer® gives a minimum of 1.8mm for normal use.



FIRE RETARDANT FOAM

Tested to UL94, rating H-BF, HF-2, HF-1. Slow horizontal burning on a 3mm thick specimen with a burning rate less than 75mm/min or stops burning before the 125mm mark. H-B rated materials are considered "self-extinguishing".



THERMAL INSULATION

Thermal resistance to heat transfer; relevant if heat loss is important or underfloor heating is to be used.
Suitability for use with sub-floor embedded underfloor heating systems is indicated.
(See Technical Overview on page 25 for more information).



VAPOUR BARRIER (MOISTURE)

When installed as directed using waterproof tape the underlay will prevent the penetration of moisture.
ACOUSTALAYER® 250 DPM AND ENERGY offer a complete damp proof membrane (DPM) for use when sub-floor moisture level is 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)	FIRE RETARDANT FOAM			THERMAL INSULATION		VAPOUR BARRIER (MOISTURE)	IN-ROOM SOUND QUALITY (DRUM)	TRANSMITTED SOUND REDUCTION (IMPACT)
								(UNDERFLOOR HEATING)	(UNDERFLOOR HEATING)			
ACOUSTALAYER® 200	Bedroom Spare Room Living Room	Domestic 2 kPa 200 Kg/m ²	32 kPa 3200 Kg/m ²	2mm (1.8mm)				Low 0.059m ² K/W	Surface + Embedded	NO	★★	★★★ 22dB
ACOUSTALAYER® 250	Bedroom Spare Room Living Room	Domestic Commercial 2.5 kPa 250 Kg/m ²	28 kPa 2800 Kg/m ²	3mm (2.7mm)				Medium 0.090m ² K/W	Surface + Embedded	NO	★★★	★★ 19dB
ACOUSTALAYER® 250 DPM	HIGH MOISTURE AREAS Kitchen Living Room	Domestic Commercial 2.5 kPa 250 Kg/m ²	28 kPa 2800 Kg/m ²	3mm (2.7mm)				Medium 0.094m ² K/W	Surface + Embedded	DPM	★★★	★★ 19dB
ACOUSTALAYER® 250 ENERGY	HIGH MOISTURE AREAS ENERGY SAVING	Domestic Commercial 2.5 kPa 250 Kg/m ²	28 kPa 2800 Kg/m ²	3mm (2.7mm)				High 0.122m ² K/W	Surface	DPM	★★★	★★ 19dB
ACOUSTALAYER® 300	Living Room Kitchen Hallway	H Domestic /Commercial 3 kPa 300 Kg/m ²	28 kPa 2800 Kg/m ²	3mm (2.7mm)				Medium 0.088m ² K/W	Surface + Embedded	YES	★★	★★★ 22dB
ACOUSTALAYER® 300+	COARSE SURFACES Living Room Hallway	H Domestic /Commercial 3 kPa 300 Kg/m ²	20 kPa 2000 Kg/m ²	5mm (4.5mm)				High 0.15m ² K/W	Surface	YES	★★	★★★ 22dB†
ACOUSTALAYER® 1000	HIGH TRAFFIC AREAS Office Hotel Room	Commercial 10 kPa 1000 Kg/m ²	40 kPa 4000 Kg/m ²	3mm (2.7mm)				Medium 0.073m ² K/W	Surface + Embedded	YES	★★★	★★ 20dB
ACOUSTALAYER® 1500	ACOUSTIC + HEAVY LOADING	Heavy Commercial 15 kPa 1500 Kg/m ²	60 kPa 6000 Kg/m ²	2mm (1.8mm)				Low 0.052m ² K/W	Surface + Embedded	YES	★★★	★★ 20dB

†Estimated values from known test results.

See pages 24-25 for Technical Overview

FOR USE WITH FLOATING FLOORS (LAMINATE AND ENGINEERED BOARDS)

as an insulating/spot leveling layer between the floor to be laid and the sub-floor to prevent rocking and extend the life of the floor.

ACOUSTALAY® Innovative underlay for rigid floors

INSTALLATION

- 1 Ensure floor is clean and flat*. Unroll at 90° to the direction of the floor, covering area to be laid.

To assist laying, apply double-sided tape to the perimeter of the sub-floor.



- 2 Butt the edge of each roll tightly against the previous. Taping the joints between rows may assist in this process. Do not overlap the ACOUSTALAY®.



- 3 Lay the flooring on top of the ACOUSTALAY®, referring to the manufacturer's instructions.

If laid on a concrete sub-floor a separate vapour barrier should be used with a minimum of 20mm up all walls.



Suitable for use with underfloor heating.
Always read and follow the guidelines supplied with the underfloor heating system and/or floor to be fitted.
Operating temperature -50°C to 100°C.

* A flat sub-floor means deviations of less than 2mm over 2.5m.



ACOUSTALAY®
200

PERFORMANCE DOMESTIC

TYPICAL USE Bedroom Spare Room Living Room	PERFORMANCE Domestic 2 kPa 200 Kg/m² (max load)
JOINT PROTECTION 32 kPa 3200 Kg/m² (compressive strength)	THICKNESS 2mm (1.8mm spot levelling)
THERMAL INSULATION Low 0.059m² K/W	VAPOUR BARRIER (MOISTURE) NO
IN-ROOM SOUND QUALITY (DRUM) ★★	TRANSMITTED SOUND REDUCTION (IMPACT) ★★★22dB



ACOUSTALAY®
250

PERFORMANCE DOMESTIC/COMMERCIAL

TYPICAL USE Bedroom Spare Room Living Room	PERFORMANCE Domestic/Commercial 2.5 kPa 250 Kg/m² (max load)
JOINT PROTECTION 28 kPa 2800 Kg/m² (compressive strength)	THICKNESS 3mm (2.7mm spot levelling)
THERMAL INSULATION Medium 0.090m² K/W	VAPOUR BARRIER (MOISTURE) NO
IN-ROOM SOUND QUALITY (DRUM) ★★★	TRANSMITTED SOUND REDUCTION (IMPACT) ★★ 19dB

DPM

FOR USE WITH
FLOATING FLOORS
(LAMINATE AND ENGINEERED BOARDS)

as an insulating/spot leveling layer between the floor to be laid and the sub-floor to prevent rocking and extend the life of the floor.

ACOUSTALAY®

Innovative underlay for rigid floors

**SUITED FOR USE IN AREAS WITH HIGH MOISTURE
(ABOVE 4% VOLUME).**

INSTALLATION

- 1 Ensure floor is clean and flat*. Unroll at 90° to the direction of the floor, covering area to be laid. To assist laying, apply double-sided tape to the perimeter of the sub-floor.

If laid on a concrete sub-floor so the ACOUSTALAY® is to be used as a damp proof membrane, then the first row should be laid with a minimum of 20mm up the walls.

- 2 Butt the next row edge tightly to the first, ensuring that they do not overlap. Carefully tape the joints using a waterproof tape. All rows, including the last, should also be laid with a minimum of 20mm up the wall. This will be concealed behind the new or refitted skirting§, scotia/trim once the floor is laid.

If overlap option selected. The first row of Acoustalay® should be laid with the DPM overlap up the wall trimmed back to 20mm (minimum). Butt the next row of Acoustalay® tightly against the first, overlapping the 200mm DPM overlap and using the integral adhesive strip (recommended for a complete seal). All rows, including the last, should be laid with a minimum of 20mm up the wall. This will be concealed behind the new or refitted skirting§ once the floor is laid.

- 3 Lay the flooring on top of the ACOUSTALAY®, referring to the manufacturer's instructions.



Suitable for use with underfloor heating.
Always read and follow the guidelines supplied with the underfloor heating system and/or floor to be fitted.
Operating temperature -50°C to 100°C.

* A flat sub-floor means deviations of less than 2mm over 2.5m.

§ Where new skirting is to be fitted, lay the ACOUSTALAY® 50mm up the walls on all room edges and conceal with newly fitted skirting.



DPM
Manufactured to
EN 13967



**ACOUSTALAY®
250 DPM**

DPM
DAMP PROOF
MEMBRANE



**ACOUSTALAY®
250 ENERGY**

Used with ribbon type 'surface mounted' underfloor heating systems, tests show **ACOUSTALAY® 250 ENERGY** can reduce heating cycle times when compared to standard **ACOUSTALAY® 250**, reducing energy costs.

**REAL ALUMINIUM
SURFACES REDUCE
ENERGY COSTS**

PERFORMANCE
DOMESTIC/COMMERCIAL

TYPICAL USE HIGH MOISTURE AREAS Kitchen, Living Room	PERFORMANCE Domestic/Commercial 2.5 kPa 250 Kg/m² (max load)
JOINT PROTECTION 28 kPa 2800 Kg/m² (compressive strength)	THICKNESS 3mm (2.7mm spot levelling)
THERMAL INSULATION Medium 0.094m² K/W	VAPOUR BARRIER (MOISTURE) YES (DPM)
IN-ROOM SOUND QUALITY (DRUM) ★★★	TRANSMITTED SOUND REDUCTION (IMPACT) ★★ 19dB

PERFORMANCE
DOMESTIC/COMMERCIAL

TYPICAL USE HIGH MOISTURE AREAS ENERGY SAVING	PERFORMANCE Domestic/Commercial 2.5 kPa 250 Kg/m² (max load)
JOINT PROTECTION 28 kPa 2800 Kg/m² (compressive strength)	THICKNESS 3mm (2.7mm spot levelling)
THERMAL INSULATION High 0.122m² K/W	VAPOUR BARRIER (MOISTURE) YES (DPM)
IN-ROOM SOUND QUALITY (DRUM) ★★★	TRANSMITTED SOUND REDUCTION (IMPACT) ★★ 19dB

VAPOUR BARRIER

FOR USE WITH
FLOATING FLOORS
(LAMINATE AND ENGINEERED BOARDS)

as an insulating/spot leveling layer between the floor to be laid and the sub-floor to prevent rocking and extend the life of the floor.

ACOUSTALAY®
Innovative underlay for rigid floors

SUITED FOR USE ON TIMBER OR
CONCRETE-BASED SUB-FLOORS

INSTALLATION

- 1 Ensure floor is clean and flat*. Unroll at 90° to the direction of the floor, covering area to be laid. To assist laying, apply double-sided tape to the perimeter of the sub-floor.

If laid on a concrete sub-floor so the ACOUSTALAY® is to be used as a vapour barrier, then the first row should be laid with a minimum of 20mm up the walls.

- 2 Butt the next row edge tightly to the first, ensuring that they do not overlap. Carefully tape the joints using a waterproof tape. All rows, including the last, should also be laid with a minimum of 20mm up the wall. This will be concealed behind the new or refitted skirting, scotia/trim once the floor is laid.

- 3 Lay the flooring on top of the ACOUSTALAY®, referring to the manufacturer's instructions.



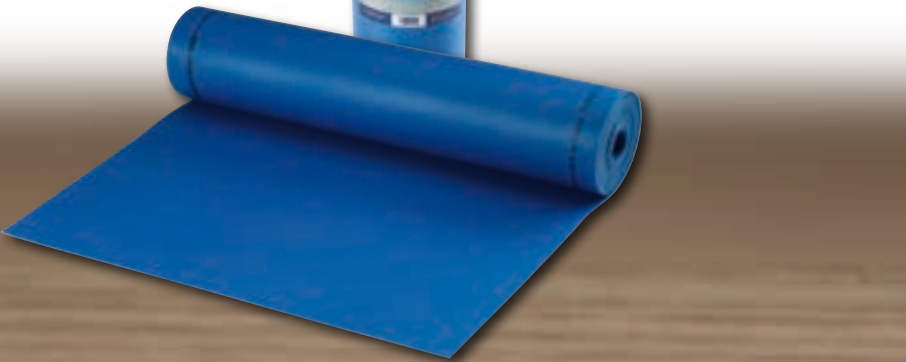
Suitable for use with underfloor heating.
Always read and follow the guidelines supplied with the underfloor heating system and/or floor to be fitted.
Operating temperature -50°C to 100°C.

* A flat sub-floor means deviations of less than 2mm over 2.5m.

‡ Estimated values from known test results.



ACOUSTALAY®
300



ACOUSTALAY®
300+

PERFORMANCE
HEAVY DOMESTIC
/COMMERCIAL

TYPICAL USE Living Room Kitchen Hallway	PERFORMANCE H Domestic/Commercial 3 kPa 300 Kg/m² (max load)
JOINT PROTECTION 28 kPa 2800 Kg/m² (compressive strength)	THICKNESS 3mm (2.7mm spot levelling)
THERMAL INSULATION Medium 0.088m² K/W	VAPOUR BARRIER (MOISTURE) YES
IN-ROOM SOUND QUALITY (DRUM) ★★	TRANSMITTED SOUND REDUCTION (IMPACT) ★★★★22dB

PERFORMANCE
HEAVY DOMESTIC
/COMMERCIAL









TYPICAL USE COARSE SURFACES Living Room Hallway	PERFORMANCE H Domestic/Commercial 3 kPa 300 Kg/m² (max load)
JOINT PROTECTION 20 kPa 2000 Kg/m² (compressive strength)	THICKNESS 5mm (4.5mm spot levelling)
THERMAL INSULATION High 0.15m² K/W	VAPOUR BARRIER (MOISTURE) YES
IN-ROOM SOUND QUALITY (DRUM) ★★	TRANSMITTED SOUND REDUCTION (IMPACT) ★★★★22dB‡

ACOUSTALAY® 1000









ACOUSTALAY® 1500

SUITABLE FOR
LVT CLICK TILES
FOR MEDIUM TRAFFIC AREAS
(DOMESTIC APPLICATIONS)

PERFORMANCE COMMERCIAL

 TYPICAL USE HIGH TRAFFIC AREAS Office Hotel Room	 PERFORMANCE Commercial 10 kPa 1000 Kg/m² (max load)
 JOINT PROTECTION 40 kPa 4000 Kg/m² (compressive strength)	 THICKNESS 3mm (2.7mm spot levelling)
 THERMAL INSULATION Medium 0.073m² K/W	 VAPOUR BARRIER (MOISTURE) YES
 IN-ROOM SOUND QUALITY (DRUM) ★★★	 TRANSMITTED SOUND REDUCTION (IMPACT) ★★ 20dB

PERFORMANCE HEAVY COMMERCIAL

 TYPICAL USE ACOUSTIC HEAVY LOADING	 PERFORMANCE Heavy Commercial 15 kPa 1500 Kg/m² (max load)
 JOINT PROTECTION 60 kPa 6000 Kg/m² (compressive strength)	 THICKNESS 2mm (1.8mm spot levelling)
 THERMAL INSULATION Low 0.052m² K/W	 VAPOUR BARRIER (MOISTURE) YES
 IN-ROOM SOUND QUALITY (DRUM) ★★★	 TRANSMITTED SOUND REDUCTION (IMPACT) ★★ 20dB

UNDERLAY FOR FIXED FLOORS

FOR SOLID WOOD AND ENGINEERED BOARDS

If the underlay fails, the floor fails

- 1 All underlays must provide a minimum of 1.5mm layer between the floor and the sub-floor for spot levelling.



ACOUSTALAY® is tested so when the appropriate grade is selected for the correct application, compression is minimised with no more than 10% thickness loss over a period of 10 years when under load. This gives a minimum of 1.8mm protection between the floor and the sub-floor, ensuring spot levelling and all other benefits are maintained for the life of the floor.

LOADING RANGE
2.5-15kPa (250-1500kg/m²)

- 2 All underlays must minimise deflection to protect the joints from premature wear.



ACOUSTALAY® is fully tested and will take a force of a minimum of 20kPa = equivalent to 2 tonnes on the joint without exceeding 0.5mm deflection limit, maintaining the integrity of the joints.

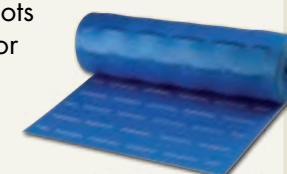
LOADING RANGE
20-60kPa (2000-6000kg/m²)



ACOUSTALAY® offers three alternative products for use with fixed floors.

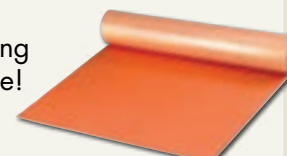
ACOUSTALAY® SLATTED

With pre-cut slots to glue the floor directly to the sub-floor.



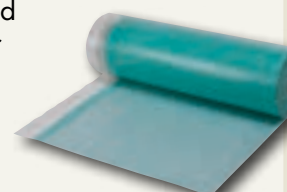
ACOUSTALAY® ADHESIVE

Easy to use method reducing installation time!



ACOUSTALAY® ADHESIVE+

With integrated vapour barrier and easy adhesive strip eliminating the need for separate vapour barrier when laid on concrete floor.

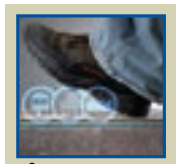


RANGE & SELECTION

6 underlays to choose from with easy selection. Retail (POS) display cartons, top up pallet trays or contractor Midi Rolls



SELECTION GUIDE
FOR FIXED ENGINEERED & SOLID WOOD FLOORS



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/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, Acoustalay® gives a minimum of 1.8mm for normal use.




FIRE RETARDANT FOAM

Tested to UL94, rating H-BF, HF-2, HF-1. Slow horizontal burning on a 3mm thick specimen with a burning rate less than 75mm/min or stops burning before the 125mm mark. H-B rated materials are considered "self-extinguishing".



THERMAL INSULATION

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

 Suitability for use with sub-floor embedded underfloor heating systems is indicated.

(See Technical Overview on page 25 for more information).



VAPOUR BARRIER (MOISTURE)

For use on concrete based sub-floors up to 4% moisture content.

(See technical overview on page 25).



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 dB

PRODUCT	TYPICAL USE	PERFORMANCE (MAX LOAD)	JOINT PROTECTION (COMPRESSIVE STRENGTH)	THICKNESS (SPOT LEVELLING)	FIRE RETARDANT FOAM	THERMAL INSULATION		VAPOUR BARRIER (MOISTURE)	IN-ROOM SOUND QUALITY (DRUM)	TRANSMITTED SOUND REDUCTION (IMPACT)
						 (UNDERFLOOR HEATING)	 (EMBEDDED)			
ACOUSTALAY® 300 SLATTED	 Living Room Kitchen Hallway	H Domestic /Commercial 3 kPa 300 Kg/m ²	28 kPa 2800 Kg/m ²	3mm (2.7mm)		Medium 0.088m ² K/W	Embedded	YES	★★★	★★ 16dB†
ACOUSTALAY® 300+ SLATTED	 COARSE SURFACES Living Room Hallway	H Domestic /Commercial 3 kPa 300 Kg/m ²	20 kPa 2000 Kg/m ²	5mm (4.5mm)		High 0.15m ² K/W	Embedded	YES	★★★★	★★★★ 18dB†
ACOUSTALAY® 300 ADHESIVE	 Living Room Kitchen Hallway	H Domestic /Commercial 3 kPa 300 Kg/m ²	28 kPa 2800 Kg/m ²	3mm (2.7mm)		Medium 0.088m ² K/W	Embedded	NO	★★★★	★★ 16dB†
ACOUSTALAY® 1000 ADHESIVE	 HIGH TRAFFIC AREAS 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	★★★★	★★ 16dB†
ACOUSTALAY® 1500 ADHESIVE	 ACOUSTIC HEAVY LOADING	H Commerical 15 kPa 1500 Kg/m ²	60 kPa 6000 Kg/m ²	2mm (1.8mm)		Low 0.052m ² K/W	Embedded	NO	★★★★	★★ 16dB†
ACOUSTALAY® 250 ADHESIVE+	 Living Room Kitchen Hallway	Domestic /Commercial 2.5 kPa 250 Kg/m ²	28 kPa 2800 Kg/m ²	3mm (2.7mm)		Medium 0.090m ² K/W	Embedded	YES	★★★★	★★ 16dB†

†Estimated values from known test results.

See pages 24-25 for Technical Overview

SLATTED

FOR USE WITH ENGINEERED & SOLID WOOD FLOORS

as an insulating/spot leveling layer between the floor to be laid and the sub-floor to prevent rocking and extend the life of the floor.

ACOUSTALAY®

Innovative underlay for rigid floors

ACOUSTALAY® SLATTED ENABLES FLOOR TO BE GLUED DIRECTLY TO SUB-FLOOR. THE PRECUT SLOTS ENSURE MINIMUM ADHESIVE USED WHILE THE ACOUSTALAY® PROVIDES FOR PERFECT SPOT LEVELLING.

INSTALLATION

- 1 Ensure the floor is clean and flat*. Simply unroll on to a prepared sub-floor with the precut slots perpendicular to the length of the wood. Place together edge to edge. Do not overlap. To assist laying, apply double-sided tape to the perimeter of the sub-floor and tape the joints between each row.
- 2 Apply a high strength elastic adhesive at a width of 8mm and a height of 8mm in to all precut slots to form a secure bond between wood boards and sub-floor. The nozzle should be held vertically to the substrate.
- 3 Remember to leave expansion gaps in accordance with floor-fitting instructions. It is important that the first row is laid completely straight (**do not assume the wall is straight**). Start laying flooring along the longest wall, position wood boards carefully and firmly and press in to the adhesive until they lay taut to the previous row. The wood boards can then be positioned using a hammer and an impact block. Continue until the floor area is covered.



This system is designed for accurately cut 'tongue and groove' boards (min: 3x3mm) with a minimum board size of 300x50x12mm and a maximum board thickness of 28mm. If laid on a concrete sub-floor ensure moisture level is below 2%.

Suitable for use with sub-floor embedded underfloor heating.
Always read and follow the guidelines supplied with the underfloor heating system and/or floor to be fitted.
Operating temperature -50°C to 100°C.

* A flat sub-floor means deviations of less than 2mm over 2.5m.

‡ Estimated values from known test results.



**ACOUSTALAY®
300 SLATTED**



**ACOUSTALAY®
300+ SLATTED**

PERFORMANCE HEAVY DOMESTIC /COMMERCIAL

TYPICAL USE Living Room Kitchen Hallway	PERFORMANCE H Domestic/Commercial 3 kPa 300 Kg/m² (max load)
JOINT PROTECTION 28 kPa 2800 Kg/m² (compressive strength)	THICKNESS 3mm (2.7mm spot levelling)
THERMAL INSULATION Medium 0.088m² K/W	VAPOUR BARRIER (MOISTURE) YES
IN-ROOM SOUND QUALITY (DRUM) ★★★	TRANSMITTED SOUND REDUCTION (IMPACT) ★★ 16dB‡

PERFORMANCE HEAVY DOMESTIC /COMMERCIAL

TYPICAL USE COARSE SURFACES Living Room Hallway	PERFORMANCE H Domestic/Commercial 3 kPa 300 Kg/m² (max load)
JOINT PROTECTION 20 kPa 2000 Kg/m² (compressive strength)	THICKNESS 5mm (4.5mm spot levelling)
THERMAL INSULATION High 0.15m² K/W	VAPOUR BARRIER (MOISTURE) YES
IN-ROOM SOUND QUALITY (DRUM) ★★★	TRANSMITTED SOUND REDUCTION (IMPACT) ★★★★ 18dB‡

ADHESIVE

FOR USE WITH ENGINEERED & SOLID WOOD FLOORS

as an insulating/spot leveling layer
between the floor to be laid and the
sub-floor to prevent rocking and extend
the life of the floor.

ACOUSTALAY®

Innovative underlay for rigid floors

EASY TO USE ACOUSTALAY® ADHESIVE
(SELF ADHESIVE BACKED)
SIGNIFICANTLY REDUCES INSTALLATION TIME

INSTALLATION

- 1 Ensure the floor is clean and flat*. To assist laying, apply double-sided tape to the perimeter of the sub-floor.
- 2 **If laid on a concrete sub-floor**, then a separate vapour barrier should be used and positioned with a minimum of 20mm up all room edges. (Any surplus can be trimmed flush to the floor when installation is complete and concealed with appropriate newly fitted skirting, scotia/trim).
- 3 Unroll at 90° to the direction of the floor, with the release liner facing upward. Each row of ACOUSTALAY® should be measured to allow approximately one board width plus 100mm extra length up the wall at the leading edge.
- 4 The second row of ACOUSTALAY® should be laid so that the foam is flush to the previous row (do not overlap the foam).
- 5 Peel back the release liner from the adhesive on the extra length measured at the leading edge of all rows of ACOUSTALAY® (mentioned in point 3 above). Leaving the liner intact, trim the underlay only flush to the room edge.
Replace the liner to cover all exposed adhesive to ensure no contact is made with the flooring before intended.
NB: As spare liner becomes available during the installation it can be re-applied to any off-cut pieces of foam, which can be retained for later use.
- 6 Fold the extra length of liner down onto the newly trimmed rows (without exposing the adhesive), giving a double layer of liner onto which the first row of boards can be laid.
- 7 Remember to leave expansion gaps in accordance with floor fitting instructions. It is important that the first row is laid completely straight (**do not assume the wall is straight**).
Carefully position the first row of boards. For engineered flooring add a couple of spots of wood glue to the board ends (optional) because of light expansion – not necessary for solid wood flooring.
- 8 Once the first row is positioned, a portion of the liner will still be visible. Grip this and gently pull back from under the boards, while retaining pressure on the flooring to keep it in place.
CAUTION: Once the floor contacts the adhesive it will not be possible to re-adjust its position.
- 9 For ease of installation ensure that the release liner remains underneath the last fitted row. If pulled too far at any stage simply press carefully back into place, so that no adhesive is exposed.
- 10 Install further rows by laying the flooring on top of the folded liner and, once in position, pull back the liner from the ACOUSTALAY® row by row.
- 11 Trim back all exposed ACOUSTALAY® flush to the floor and conceal with the newly fitted skirting, scotia/trim.

Minimum installation temperature 5°C.

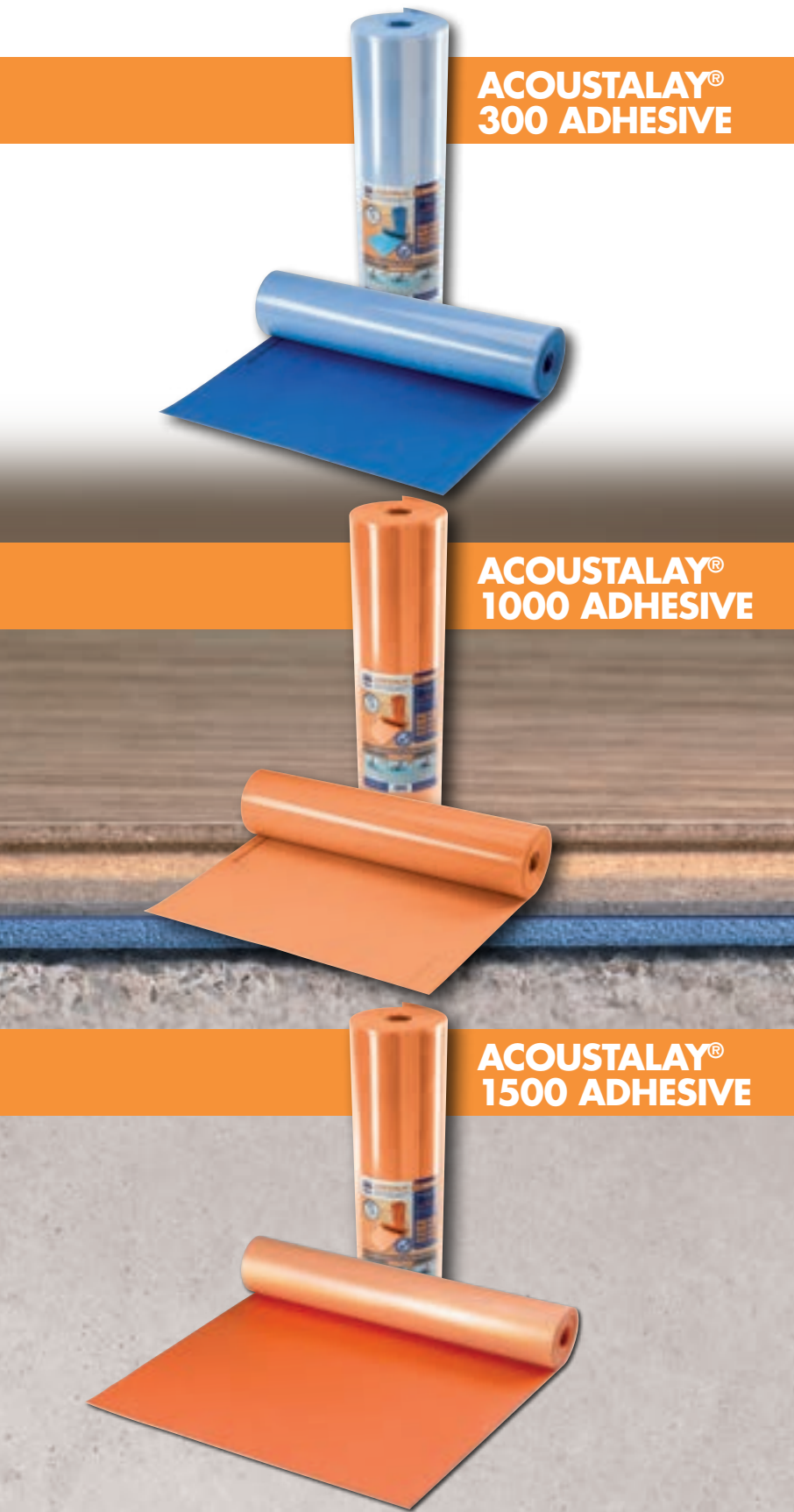
Suitable for use with sub-floor embedded
underfloor heating.

Always read and follow the guidelines supplied
with the underfloor heating system and/or floor to
be fitted.

Operating temperature -50°C to 100°C.

* A flat sub-floor means deviations of less than 2mm
over 2.5m.

‡ Estimated values from known test results.



PERFORMANCE HEAVY DOMESTIC /COMMERCIAL

TYPICAL USE Living Room Kitchen Hallway	PERFORMANCE H Domestic/Commercial 3 kPa 300 Kg/m² (max load)
JOINT PROTECTION 28 kPa 2800 Kg/m² (compressive strength)	THICKNESS 3mm (2.7mm spot levelling)
THERMAL INSULATION Medium 0.088m² K/W	VAPOUR BARRIER (MOISTURE) NO
IN-ROOM SOUND QUALITY (DRUM) ★★★	TRANSMITTED SOUND REDUCTION (IMPACT) ★★ 16dB‡

PERFORMANCE COMMERCIAL

TYPICAL USE HIGH TRAFFIC AREAS Office Hotel Room	PERFORMANCE Commercial 10 kPa 1000 Kg/m² (max load)
JOINT PROTECTION 40 kPa 4000 Kg/m² (compressive strength)	THICKNESS 3mm (2.7mm spot levelling)
THERMAL INSULATION Medium 0.073m² K/W	VAPOUR BARRIER (MOISTURE) NO
IN-ROOM SOUND QUALITY (DRUM) ★★★	TRANSMITTED SOUND REDUCTION (IMPACT) ★★ 16dB‡

PERFORMANCE HEAVY COMMERCIAL

TYPICAL USE ACOUSTIC + HEAVY LOADING	PERFORMANCE H Commercial 15 kPa 1500 Kg/m² (max load)
JOINT PROTECTION 60 kPa 6000 Kg/m² (compressive strength)	THICKNESS 2mm (1.8mm spot levelling)
THERMAL INSULATION Low 0.052m² K/W	VAPOUR BARRIER (MOISTURE) NO
IN-ROOM SOUND QUALITY (DRUM) ★★★	TRANSMITTED SOUND REDUCTION (IMPACT) ★★ 16dB‡

ADHESIVE+

FOR USE WITH
ENGINEERED & SOLID
WOOD FLOORS

as an insulating/spot leveling layer between the floor to be laid and the concrete sub-floor preventing rocking, extending the life of the floor and eliminating the need for a separate vapour barrier.

ACOUSTALAY®
Innovative underlay for rigid floors

SELF ADHESIVE BACKED UNDERLAY WITH INTEGRATED
125mp PE FILM VAPOUR BARRIER TO EN 13984. ELIMINATES
THE NEED FOR A SEPARATE VAPOUR BARRIER.
SAVES INSTALLATION HASSLE, TIME & MONEY.

INSTALLATION

- 1 Ensure the floor is clean and flat*. To assist laying, apply double-sided tape to the perimeter of the sub-floor.
- 2 Unroll at 90° to the direction of the floor.
- 3 The first row of ACOUSTALAY® should be laid starting on the left hand side of the room, with the release liner facing upward and vapour barrier facing downward with a minimum of 20mm up the wall.
- 4 Each row of ACOUSTALAY® should be measured to allow approximately one board width plus 100mm extra length up the wall at the leading edge.
- 5 All rows, including the last should be laid with a minimum of 20mm of ACOUSTALAY® up all room edges. (Any surplus can be trimmed flush to the floor when installation is complete and concealed with appropriate newly fitted skirting, scotia/trim§).
- 6 The second row of ACOUSTALAY® should be laid over the under-lapping vapour barrier so that the underlay is flush to the previous row (do not overlap the underlay). Once in place carefully remove the protective tape from the adhesive strip to secure the ACOUSTALAY® in position.
- 7 Peel back the release liner from the adhesive on the extra length measured at the leading edge of all rows of ACOUSTALAY® (mentioned in point 4 above).
Leaving the liner intact, trim the ACOUSTALAY® only, leaving a minimum of 20mm of ACOUSTALAY® up the wall to form the vapour barrier. (Any surplus can be trimmed back once the installation is complete).
Replace the liner to cover all exposed adhesive to ensure no contact is made with the flooring before intended.
NB: As spare liner becomes available during the installation it can be re-applied to any off-cut pieces of foam, which can be retained for later use.
- 8 Fold the extra length of liner down onto the newly trimmed rows (without exposing the adhesive), giving a double layer of liner onto which the first row of boards can be laid.
- 9 Remember to leave expansion gaps in accordance with floor fitting instructions. It is important that the first row is laid completely straight (**do not assume the wall is straight**).
Carefully position the first row of boards. For engineered flooring add a couple of spots of wood glue to the board ends (optional) because of light expansion – not necessary for solid wood flooring.
- 10 Once the first row is positioned, a portion of the liner will still be visible. Grip this and gently pull back from under the boards, while retaining pressure on the flooring to keep it in place.
CAUTION: Once the floor contacts the adhesive it will not be possible to re-adjust its position.
- 11 For ease of installation ensure that the release liner remains underneath the last fitted row. If pulled too far at any stage simply press carefully back into place, so that no adhesive is exposed.
- 12 Install further rows by laying the flooring on top of the folded liner and, once in position, pull back the liner from the ACOUSTALAY® row by row.
- 13 Trim back all exposed ACOUSTALAY® flush to the floor and conceal with the newly fitted skirting, scotia/trim.

Minimum installation temperature 5°C.

Suitable for use with sub-floor embedded underfloor heating.
Always read and follow the guidelines supplied with the underfloor heating system and/or floor to be fitted.
Operating temperature -50°C to 100°C.

- * A flat sub-floor means deviations of less than 2mm over 2.5m.
- § Where new skirting is to be fitted, lay the ACOUSTALAY® 50mm up the walls on all room edges and conceal with newly fitted skirting.
- ‡ Estimated values from known test results.



NB: Please see Adhesive installation and images on page 20 for further details.



ACOUSTALAY®
250 ADHESIVE+

PERFORMANCE
DOMESTIC/COMMERCIAL

TYPICAL USE Living Room Kitchen Hallway	PERFORMANCE Domestic/Commercial 2.5 kPa 250 Kg/m² (max load)
JOINT PROTECTION 28 kPa 2800 Kg/m² (compressive strength)	THICKNESS 3mm (2.7mm spot levelling)
THERMAL INSULATION Medium 0.090m² K/W‡	VAPOUR BARRIER (MOISTURE) YES
IN-ROOM SOUND QUALITY (DRUM) ★★★	TRANSMITTED SOUND REDUCTION (IMPACT) ★★ 16dB‡



est. 1986
Engineering Underlay for rigid floors since 1995
"THE FIRST - THE BEST"



TECHNICAL OVERVIEW

TYPICAL USE



HOME, OFFICE, FACTORY

INTRODUCTION

The **ACOUSTALAY®** range offers the most cost effective solution available. For home, office or commercial applications, we offer a range of solutions which are fully tested to industry standards and guaranteed for 10 years.

THICKNESS



(PROTECTION)

THICKNESS - SPOT LEVELLING

Underlay needs to be thick and elastic enough to compensate for small protruding particles found on the smoothest of floors. By doing so, it prevents 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.

When applied correctly the **ACOUSTALAY®** range achieves a minimum of 1.8mm protection for the life of the floor.

PERFORMANCE



PERFORMANCE - COMPRESSIVE CREEP

Compressive creep is measured (being equal to thickness loss over time under a specified load) according to EN1606 and EN13163. 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. This data is of particular importance in relation to heavy furniture. The higher the value the greater its ability to withstand heavy furniture.

ACOUSTALAY® range: 2kPa - 15kPa (200Kg/m² - 1500Kg/m²)

JOINT PROTECTION



JOINT PROTECTION - COMPRESSIVE STRENGTH

Compressive strength is measured at 0.5mm deformation according to acc. ISO 844 resp. EN13163. A minimum value of 20kPa is advisable to prevent potential damage of the click or tongue and groove systems when puncture load is applied. The higher the value the greater its resistance to tongue and groove damage.

ACOUSTALAY® range: 20kPa - 60kPa (2000Kg/m² - 6000Kg/m²)



FIRE RETARDANT FOAM

Tested to UL94, rating H-BF, HF-2, HF-1. Slow horizontal burning on a 3mm thick specimen with a burning rate less than 75mm/min

or stops burning before the 125mm mark. H-B rated materials are considered "self-extinguishing".

VAPOUR BARRIER (MOISTURE)

Moisture content of all mineral sub-floors (cement, screed floor, ceramic and stone tiling) can vary and needs to be ascertained.

European Producers of Laminate Flooring (EPLF) Code of Practice for the installation of laminate flooring recommends the Magnesium moisture test (CM) test for measuring relative humidity.

A maximum moisture content within a cement screed sub-floor must be kept to < 2.0CM% with a relative humidity not exceeding 60% RH.

To protect floors and to minimise the risk of possible damage from rising damp, use only

ACOUSTALAY® products with an integrated vapour barrier with waterproof joint sealing tape.

ACOUSTALAY® products are tested to ISO 1663 (23°C @ 0.50% RH) for moisture barrier performance. The EPLF code of practice requires a minimum thickness of 0.2mm of PE foil which equates to an SD Value (M) of 20.

All **ACOUSTALAY®** products with an SD value of 20 or greater pass the EPLF requirements, eliminating the need for additional barriers.

For areas where sub-floor moisture level is >4% a damp proof membrane (DPM) should be used.

VAPOUR BARRIER (MOISTURE)



Separate barriers where applied meet the following standards:



THERMAL INSULATION - RESISTANCE

Thermal resistance is measured according to ISO 11092:BS EN 31092 and is relevant if either underfloor heating is in use, or if heat loss is an issue.

With sub-floor embedded underfloor heating the **ACOUSTALAY®** will lie on top of the heated floor. According to EN1264 Part 3 Floor Heating – System & Components, the thermal resistance $R_{p, B}$ of all materials (underlay, laminate, wood etc.) laying on top of a heated floor should not exceed 0.150m²K/W to prevent unnecessary increase of the flow temperature of the heating system. Hence in this case the lower the value of the **ACOUSTALAY®** the greater the

flexibility in the choice of flooring.

In the case of surface underfloor heating (ribbon or wire type) the **ACOUSTALAY®** will lie between the sub-floor and the heating system. In this case, with the **ACOUSTALAY®** below the heating system, it will provide an insulating layer against heat loss through the sub-floor and will not offer an impediment to heat travelling upwards into the room. Similarly where underfloor heating is not in use the **ACOUSTALAY®** will provide an insulating layer against heat loss through the sub-floor. In either case a high thermal insulation value will be beneficial.

ACOUSTALAY® range: 0.052m²K/W - 0.15m²K/W

THERMAL INSULATION



UNDERFLOOR HEATING



IN-ROOM SOUND QUALITY (DRUM)

Drum sound (also called room, emitted or reflected sound) is defined as a perceived level of noise inside a room created by footsteps, falling toys and other impact sources.

The internal test methods adopted relate

to the EPLF norm 021029-3. Within the **ACOUSTALAY®** range the higher the rating (four star being the highest) the better the perceived noise within the room.

IN-ROOM SOUND QUALITY (DRUM)



TRANSMITTED SOUND REDUCTION (IMPACT)

Impact sound transmission of laminate flooring is measured according to ISO 140-8 using a tapping hammer on the floor.

Results are expressed as a single value called impact sound improvement index D_{Lw}

(dB) which basically describes the noise level in an underneath located room once with and once without the floating floor.

The higher the value the lower the noise level in the room underneath the floor.

TRANSMITTED SOUND REDUCTION (IMPACT)



ACOUSTALAY® range: 16dB upwards

SALES SUPPORT & SUPPLY FLEXIBILITY

EASY SELECTION FROM OUR COMPREHENSIVE RANGE

The **ACOUSTALAY®** range has been carefully structured to include underlays that match all domestic and commercial applications.

SUPERIOR QUALITY AND LONG LIFE

The cross-linked construction and special blend of the polyolefin formula used results in underlays that will perform as specified, protecting the floor for at least 10 years.

SUPERB VALUE

ACOUSTALAY® Offers the customer superb value when considering cost and long term performance of their floor.

CHOICE OF DELIVERY OPTIONS

- Retail '**POINT OF SALE**' (POS) display cartons
- Top up '**PALLET TRAYS**'
- Contractor '**MIDI ROLLS**' (Normally below 25kgs and suitable for access through standard doorways)

PALLETISED LOADS FOR EASY DELIVERY/STORAGE





ACOUSTALAY® is a registered brand of:

Beacons Products Limited, Unit 10, EFI Industrial Estate, Brecon Rd, Merthyr Tydfil, CF47 8RB, South Wales, UK

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sales@acoustalay.co.uk www.acoustalay.co.uk



INVESTOR IN PEOPLE



0224/BEA067