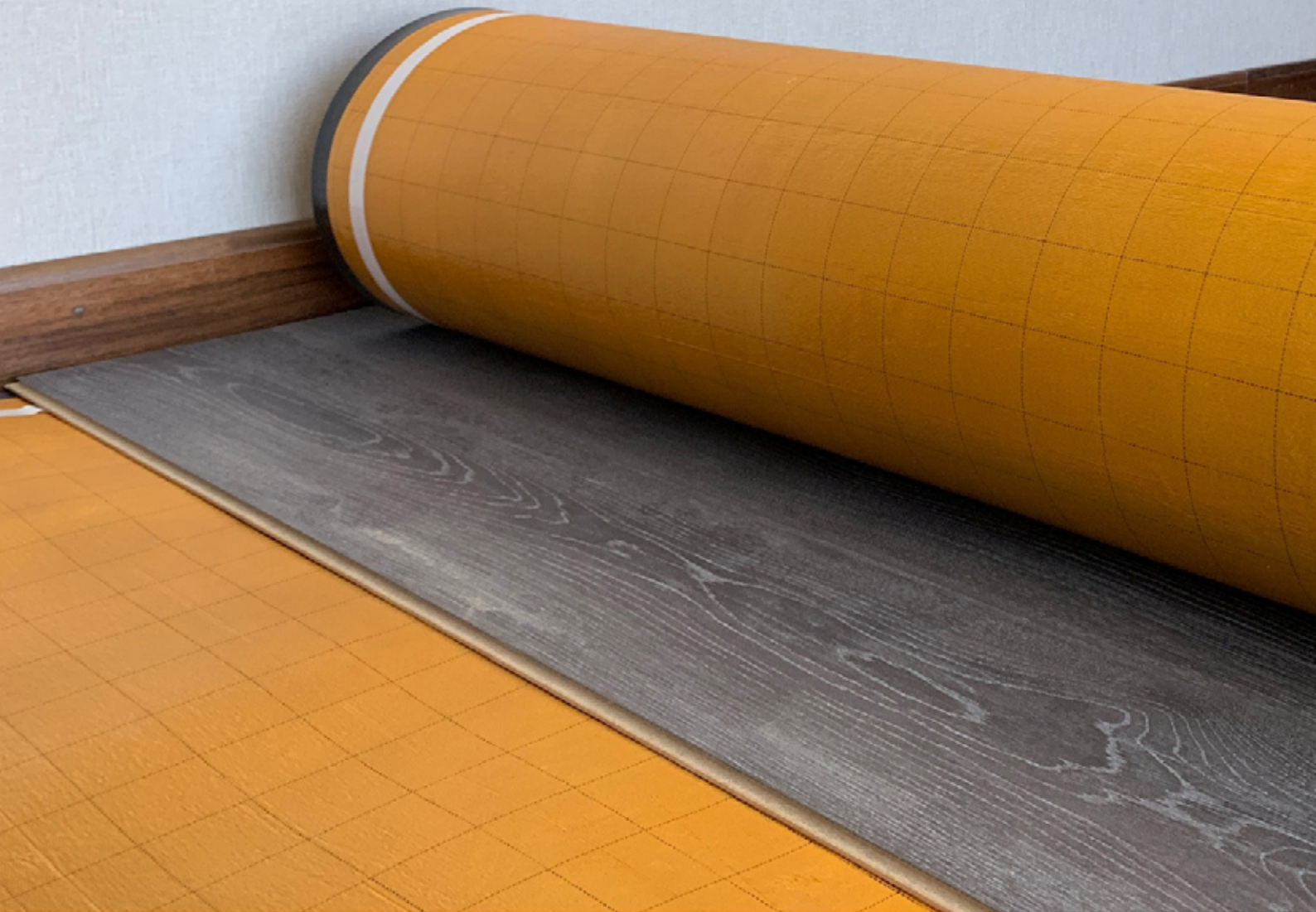


SILENT SHIELD™

FLOORING UNDERLAY

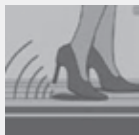


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The Silent Shield Solution



Enjoy the silence - superior sound insulation

Drum sound or reflection sound is the sound you hear when you walk on the floor. Silent Shield underlays reduce this sound offering superior drum sound insulation performance.



Impact Sound is the sound you hear when someone walks in the room above. It is a problem with multi-storey apartments and hotel rooms. Silent Shield underlays assist to reduce this sound and thus meet the standard requirements enforced by various building codes.



Protecting your wood floor against rising moisture

Moisture or vapour rising from the concrete can seriously damage laminate flooring. Silent Shield underlays offer superior protection from moisture due to their excellent water vapour resistance.



Highly conformable underlays compensating for floor unevenness

An underlay can level out minor unevenness in the sub-floor thus reducing drum sound from hollow areas. It needs to be compressible without permanent deformation. Silent Shield underlays are made from physically crosslinked polyolefin foam providing superior compression and repeated compression performance when compared to other underlays.



Excellent cushioning and comfort

Excessive compression of the floor at floor joints leads to damage of the tongue & groove. Silent Shield underlays provide excellent compression strength at 0.5mm deflection and therefore they ensure that your investment is protected.



Ezi-Lay system for simple installation

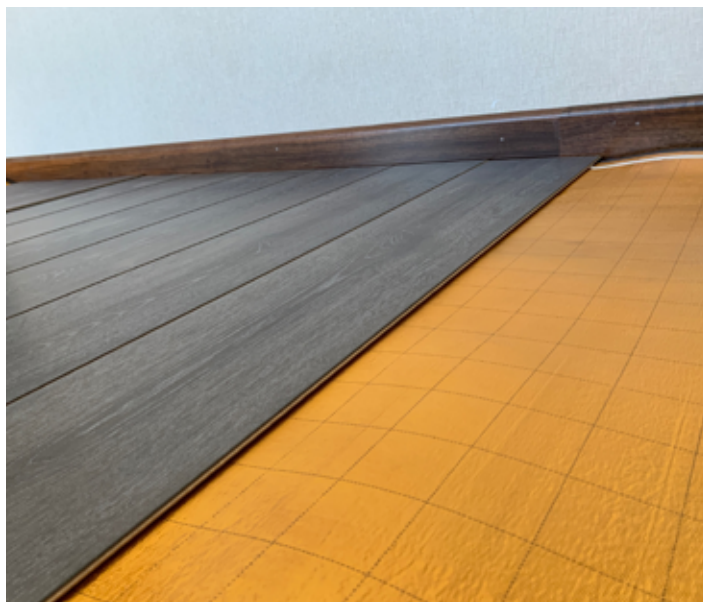
Silent Shield underlays are lightweight and easy to unroll. The Ezi-Lay system adds an adhesive strip for joining rolls together meaning a quick and easy install that doesn't require the use of tape.



Health, Safety & Environmental Benefits

Silent Shield underlays provide many health, safety and environmental benefits that other materials may not be able to achieve.

- Low VOC Emissions
- Low GWP
- Compliance to RoHS Directive
- No CFCs or HCFCs
- Zero PVC, Zero Formaldehyde
- Compliance to REACH Directive
- Zero Ozone Depletion Potential



The Silent Shield Range

SILENT SHIELD™

FLOORING UNDERLAY

STANDARD

SILENT SHIELD™

FLOORING UNDERLAY

PROFESSIONAL

SILENT SHIELD™

FLOORING UNDERLAY

PREMIUM

Features

> Good permanent compression resistance so that key functional properties remain intact for the long term.

> Good impact sound damping and very good leveling characteristics.

> Outstanding compression resistance so that key functional properties remain intact for the long term.

> Very good acoustic properties regarding damping of sound and reflected walking sound.

> Exceptional compressive strength and dynamic load resistance which ensures extended durability.

> Outstanding damping of sound and reflected walking sound.

Application

Cost efficient quality for standard needs

Proven quality for elevated requirements

Premium quality for the highest demands

Vapour Control Film

Clear

Silver

Gold

Adhesive Strip

Yes

Yes

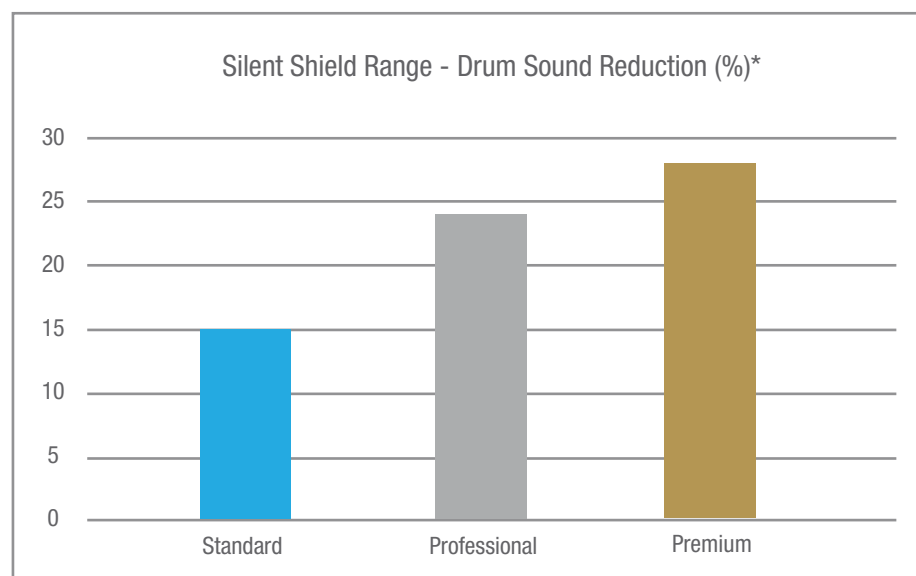
Yes



Silent Shield Technical Specifications

Silent Shield is a high performance underlay made using closed cell, physically cross linked, polyolefin foam specifically designed for noise isolation in flooring systems.

Property	STANDARD	PROFESSIONAL	PREMIUM	Test Method
Size Availability	20m rolls	20m rolls	20m rolls	-
Thickness	2 & 3mm	2 & 3mm	2 & 3mm	ASTM E96
Drum Sound Reduction (%)*	15	24	28	Internal
Impact Sound Transmission* $L'_{n,w}$	50	50	50	ISO 717-2
Compressive Strength at 0.5 mm deflection	30kPa	50 kPa	70kPa	ISO 844 / EN 13163
Compressive Creep (10 years, max. 10%) max. load	5kPa	10kPa	15kPa	EN1606 / EN 13163
Conformability (3mm)	2.4mm	2.3mm	2.2mm	Internal
Thermal Resistance (3mm)m ² K/W	0.085	0.079	0.071	ISO 8301
Moisture Protection, SD value (m)	70	85	85	Internal
Water Absorption	<1 Vol. %	<1 Vol. %	<1 Vol. %	Internal



*Improvement of impact sound compared with reference underlay

**Measured under 8mm laminate flooring



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