



# Acoustic Underlays for Floating Timber & Screed floor systems

**SEKISUI**

**FOAM**  
INTERNATIONAL  
Global Foam Solutions

**PHYSICALLY**  
CROSSLINKED  
SEKISUI TECHNOLOGY 

# Sekisui Foam underlays are designed to protect your investment and enhance the wood flooring experience.



## Enjoy the silence - superior sound insulation

**Drum sound** or reflection sound is the sound you hear when you walk on the floor. **Softlon®** underlay reduces this sound. **Silent Shield™** offers superior drum sound insulation performance, ideal for large rooms, public and office spaces.



**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. **Softlon®** underlay assists to reduce this sound and thus meet the Standard requirements enforced by various Building Codes. **Silent Shield** is highly recommended for such applications.



## Protecting your wood floor against rising moisture

Moisture or vapour rising from the concrete can seriously damage laminate flooring. Sekisui Foam underlays offer superior protection. The Easy Lay system provides additional security offering exceptional 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. Sekisui Foam 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 Tonge & Groove. Sekisui Foam underlays provide excellent compression strength at 0.5mm deflection and therefore they ensure that your investment is protected.



## Reliable and Easy to use

Sekisui Foam underlays are lightweight and easy to unroll. They are durable, lay flat and sit square making them easy to use and always reliable.

## Ezy-Lay additional value added features for demanding applications and faster installation

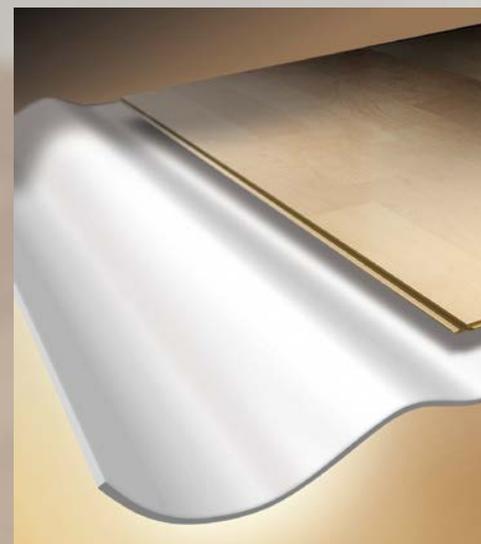
Softlon floating floor underlays are available with added vapour control barriers. The overhanging flap and adhesive strip ensure a faster installation.

Y™  
AY 20M X 1M  
m and plastic film



# A range of floating timber underlays to meet your needs.

Type	Range	Description	Typical Application
<b>Softlon®</b>	2 mm, 3 mm	Good quality polyolefin foam offering good balance of cost, comfort, compression strength and performance	Domestic and single floor dwellings
<b>Silent Shield™</b>	2mm	High density acoustic foam designed to provide optimum acoustic performance and comfort. Provides excellent impact sound insulation, superior reflected drum noise reduction, and superior compression resistance	Multi storey commercial buildings, hotels, where more sound impact reduction is required
Additional Vapour Barrier	all		Additional vapour barrier for demanding applications and extra security



## Softlon® Underlay Specifications

Thickness - Conformability	ISO 1923	2 & 3 mm	Softlon underlay is very conformable and levels out moderately rough structural floors
Compressive Strength at 0.5 mm deflection	ISO 844/ EN 13163	30 kPa	Exceeds minimum strength advisable to prevent potential damage of the T&G (click or non click laminate) when punctual load is applied
Compressive Creep (10 years, max. 10%) max. load	EN 1606/ EN 13163	5 kPa	Does not flatten out under long term static loads of up to 1.5 tonnes per sqm
Water Absorption	Internal	<1 Vol. %	100% closed cell material does not absorb any significant amount of water

## Silent Shield™ Technical Specifications

Thickness - Conformability	ISO 1923	2 mm	2mm Silent Shield is very conformable and levels out moderately rough structural floors
Drum Sound Performance	Internal	AA	Excellent in reducing the drum sound of floating timber floors
Impact Sound Transmission* $L'_{n,w}+C$	ISO 717/2	57* FIIC 51 $L'_{n,w}+C$	Meets the BCA requirements for impact sound Isolation. Building Code of Australia (BCA) requires: $L'_{n,w}+C \leq 62$
Impact Resistance, Large ball' **	EN 13329/ EN 438-2	1700 mm	Improves the timber floor performance in meeting the properties as defined by NALFA for residential, light commercial and commercial floors.
Compressive Strength at 0.5 mm deflection	ISO 844/ EN 13163	60 kPa	Has 3 times the min. strength advisable to prevent potential damage of the T&G (click or non-click laminate) when punctual load is applied.
Compressive Creep (10 years, max. 10%) max. load	EN 1606/ EN 13163	15 kPa	Does not flatten out under long term static loads of up to 1.5 tonnes per sqm
Thermal Resistance at 10°C	ISO 8301	0.054 $m^2K/W$	Excellent performance parameter in case of heated and non-heated floors
Water Vapour Transmission (Permeance)	ASTM E96 - 2000	0.015 ug/Ns	Provides a very effective barrier to water vapour transmission, (ref AS2870)
Water Absorption	Internal	<1 Vol. %	100% closed cell material does not absorb any significant amount of water

# Softlon® Screed

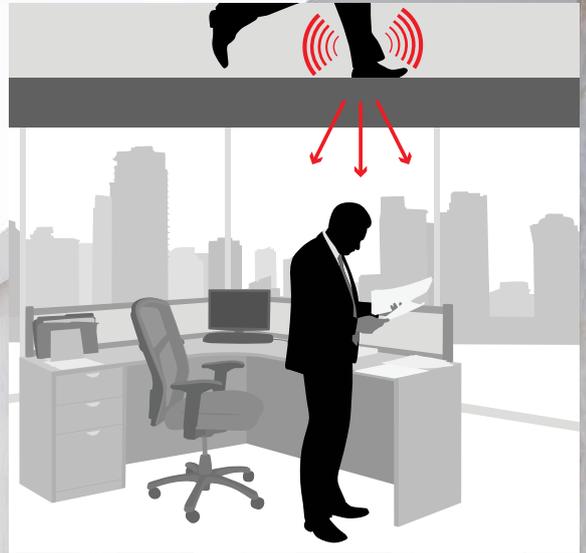
## Underlays specifically designed for noise isolation in fixed floor covering systems.

Multi level commercial buildings commonly used fixed floor coverings. The widespread preference to tiles, solid wood and parquet type of coverings restricts the use of underlays directly beneath these surfaces.

The use of lightweight screed requires high performance underlays that are installed between the subfloor and screed.

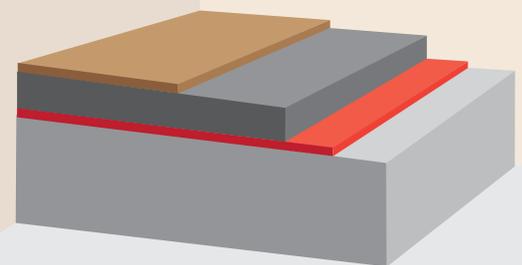
Softlon Screed® range of underlays can be used to improve the impact sound insulation and reduce the impact sound levels. They are thin, elastic and water resistant and maintain long term compression resistance (creep).

Impact sound is measured using ISO 140-7 Standard and shows the dB impact sound reduction attributed to the underlay.



Softlon Screed	Standard	Result	Units
Thickness	ISO 1923	6	mm
Impact sound improvement:			
• 50mm concrete screed	ISO 140-7	16	dB
• 70mm concrete screed	ISO 717/2	17	dB
Creep, 3yrs, 23 C, <10%	Internal	10	kPa
Permeability (23 C, @ 85%)	ISO 1663	7000	
Water absorption 28 days:	ISO 2896	<1.0	%
Compression strength	ISO 844	60	kPa

### Floating Screed Construction



- Floor Finish
- Screed
- Softlon Screed underlay
- Concrete Base