

## PRODUCT

CMS Danskin Acoustics Soundlay Foam Underlay is a cost effective acoustic underlay manufactured from an EVA rubber injected closed cell polyolefin foam, and can be used with a wide range of floor finishes. It is particularly suited to double-stick carpets, floating wood and laminated floor finishes.

CMS Danskin Acoustics Soundlay Foam Underlay is guaranteed for the serviceable lifetime of the floorcovering under which it is laid, providing it has been laid in accordance with manufacturer guidelines.



## FEATURES and BENEFITS

- Offers a reliable and economical solution to Part E compliance
- Greater resistance to compression and creep compared with traditional foam underlay products
- Available in two thicknesses to give a choice of impact sound insulation values
- Quick and easy to install
- No need for an additional waterproof membrane layer

## APPLICATIONS

- Social housing
- Apartments
- Educational buildings
- Hotels

## TECHNICAL INFORMATION

Weighted reduction in impact sound pressure ( $\Delta L_w$ )\*

5mm                      32dB

10mm                     46dB

End use Classification\*\*      HC/U Heavy Contract Use

\* Tested to BS EN ISO 140-8 & BS EN ISO 717-2

\*\* Tested to BS 5808:

## SPECIFICATION

Cross-linked polyolefin foam				
Property	Value		Unit	Norm
Roll size	50 x 2		m	-
Standard thickness	5	10	mm	ISO 1923
Roll weight	12.5	25	Kg	Calculation
Density	25		kg/m <sup>3</sup>	EN ISO 845
Impact sound insulation $\Delta L_w$ (DB:HR)	* 32	** 46	dB	EN ISO 140-8
Airborne sound insulation $\Delta R_A$ (DB:HR)	6.0	7.5	dB	EN ISO 140-3
Dynamic stiffness $s'$ (DB:HR)	87.2	57.7	MN/m <sup>3</sup>	EN 29052-1
Thickness (floating floor) Compressibility				
- $E_i$ (0Pa)	4.9	9.7	mm	EN 12431
- $d_L$ (250Pa)	4.8	9.6		
- $d_F$ (2kPa)	4.6	9.4		
- $d_B$ (50kPa)	4.4	9.2		
Compressibility (DB:HR)	0.4	0.4		
Thickness reduction underload			%	EN 12431
- $E_i$	0.0	0.0		
- $d_L$	2.0	1.0		
- $d_F$	6.1	3.1		
- $d_B$	10.2	5.2		
Compression stress strain				
- 10%	16		kPa	ISO 3386-1
- 25%	36			
- 50%	95			
Water Vapour Permeability	0.00150		mg/m.h.Pa	EN ISO 12086
Water absorption after 28 days	0.685		%	EN ISO 12087
Thermal conductivity ( $\lambda$ ) 20°C	0.041		W/m <sup>2</sup> K	EN ISO 12667
Compression creep (under load 1kPa = 102kg/m <sup>2</sup> )				
- at 30 days	1.54		%	EN 1606
- at 1 year	3.56			
- at 5 years	5.44			
- at 10 years	6.53			

\* Floor construction 160mm concrete slab/5mm Soundlay Foam with the addition of 8mm laminate flooring the LW is 18dB

\*\* Floor construction 160mm concrete slab/10mm Soundlay Foam with the addition of 8mm laminate flooring the LW is 19dB