

Soundlay Foam White underscreed

Technical Data Sheet

CMS Danskin Acoustics Soundlay Foam White is a cross-linked, closed cell polyolefin foam which is ideal as a low cost, resilient under-screed layer designed to reduce the transmission of impact sound through concrete floors.

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

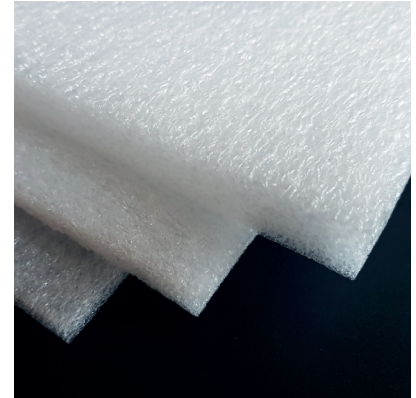
- Social housing
- Apartments
- Educational buildings
- Hotels

TECHNICAL INFORMATION

Weighted reduction in impact sound pressure (ΔL_w)

Tested BS EN ISO 10140-3 140mm thick RD Appendix D
Heavyweight Concrete Floor with no ceiling

5mm	37dB
5mm + 46mm concrete slab	26dB
10mm	51dB
10mm + 46mm concrete slab	25dB



TECHNICAL INFORMATION for Cross-linked polyolefin foam

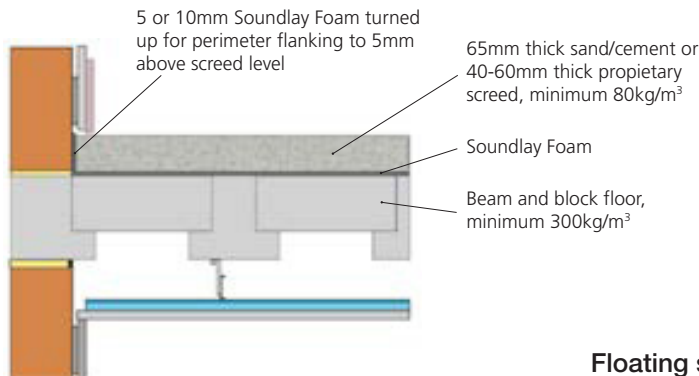
Property		Value		Standard
Roll sizes		50 x 1.2 m		-
Standard thickness		5 mm	10 mm	ISO 1923
Roll weight		9 kg	18 kg	Calculation
Density		30 kg/m³		EN ISO 845
Cell size		≥ 26 / 25 mm		BS 4443/1
Compressive strength (100mm/min speed)	25% (4th compression)	30 KPa		ISO 3386
	50% (4th compression)	90 KPa		
	70% (4th compression)	205 KPa		
Compressive strength (100mm/min speed)	Vertical @ 25%	45 KPa		ISO 7214
	Vertical @ 50%	95 KPa		
Compression set (50% compression)		< 10 %		ASTM D3575-08 Suffix B
Compressive creep (1.25psi, 8.75kg/m²)	168 hrs	< 10 %		ASTM D3575-08 Suffix BB
	1000 hrs	< 15 %		
Tensile strength @ peak	MD	250 KPa		ISO 1798
	CD	200 KPa		
Tensile elongation	MD	70 %		ISO 1798
	CD	65 %		
Tensile strength	MD	17 N/cm		ASTM D3575-08 Suffix G
	CD	18 N/cm		
Water absorption after 28 days		< 3 %		ISO 2896
Thermal conductivity (λ)		0.05 W/mK		ISO 8301
Thermal stability (24hrs @ 70°C)		< 2 %		ISO 2796

INSTALLATION

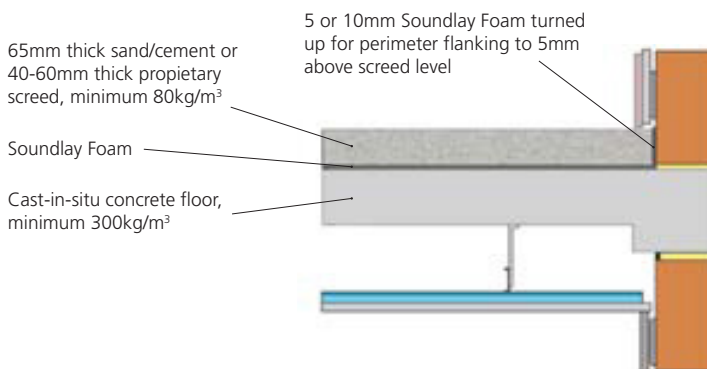
Soundlay Foam as an underscreed solution for impact sound reduction on cast-in-situ, beam and block and precast plank flooring. The use of Soundlay Foam eliminates the need for separate flanking strips around the perimeter and for a waterproof membrane.

To install, cover the floor with Soundlay Foam, butting adjacent sheets and completely taping all joints. To ensure complete acoustic isolation of the screed, turn up the foam to at least 5mm above the intended screed surface around the full perimeter of the floor.

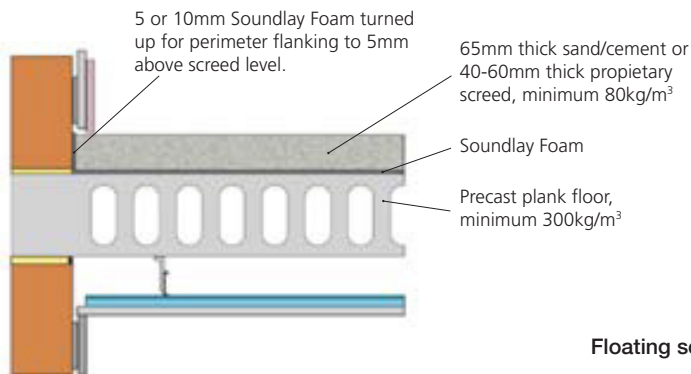
Floating screed on beam and block floor



Floating screed on cast-in-situ concrete slab floor



Floating screed on precast plank floor



Floating screed on cast-in-situ concrete slab floor on hollow rib

