

TECHNICAL DATA SHEET

Silent Shield™ Screed Underlay

Silent Shield™ is a light-weight and flexible underlay range designed for the floating screed system. It is designed to maximise noise impact reduction whilst providing high compression strength and maintaining long term compression resistance (compressive creep).

- Silent Shield™ HD is a higher density underlay designed for extra heavy load applications.
- Silent Shield™ FHD grade is a felt and physically crosslinked polyolefin foam composite with superior noise impact reduction.

Property	Test Method	Typical Value			
		SD		HD	FHD
Grade					
Thickness (nominal)	Internal	3 mm	5 mm	6mm	6mm
Impact Sound Reduction ΔL_w	ISO 10140				
50mm concrete screed		19 dB+	19 dB+	16 dB	23 dB
70mm concrete screed		21 dB+	21 dB+	17 dB	25 dB
100mm concrete screed		24 dB	24 dB	17 dB+	29 dB+
Impact Insulation Class (IIC)	ASTM E989				
50mm concrete screed		51 dB+	51 dB+	48 dB	55 dB+
70mm concrete screed		53 dB+	53 dB+	49 dB	57 dB+
100mm concrete screed		59 dB	60 dB	49 dB+	64 dB
Thermal Resistance	ASTM C518				
23°C mean temperature		0.09 m ² .°K/W	0.15 m ² .°K/W	0.17 m ² .°K/W	0.18 m ² .°K/W
Compressibility (c)	EN 12431	0.11 mm	0.18 mm	0.11 mm	0.49 mm
Compressibility Level	EN 13162	CP2	CP2	CP2	CP3
Compressive Strength	ISO 844				
25% deflection		40 kPa	40 kPa	60 kPa	40 kPa
Maximum Design Imposed Load	EN 13162				
50mm concrete screed		6.25 kPa	6.25 kPa	13.75 kPa	4.25 kPa
100mm concrete screed		5 kPa	5 kPa	12.5 kPa	3 kPa
Dynamic Stiffness	ISO 9052-1	109 N/m ³	109 N/m ³	288 N/m ³	54 N/m ³
Permeance Resistance Factor (μ)	ISO 1663	>5000	>5000	>5000	>1200
Water Absorption	ISO 2896	<1% v/v	<1% v/v	<1% v/v	N/A

*Derived from ISO 12349 calculations and based on dynamic stiffness data.

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