

Solid Ground Floor - Insulation Below Screed

Horley Town Hall

02/06/2025

U Value
0.15 W/(m²·K)

Layer	Material	Thickness mm	Lambda W/(m·K)	R value m ² ·K/W
Internal Surface Resistance				0.170
Floor Finish	SAND CEMENT SCREED	70	1.400	0.050
Separation Layer	POLYTHENE SEPARATION LAYER	0.5		0.001
Insulation	KOOLTHERM K103	100	0.019	5.263
Floor Slab	CONCRETE 1:2:4 2000 kg/m ³	150	1.400	0.107
Damp Proof Membrane	DAMP PROOF MEMBRANE	0.9		0.001
External Surface Resistance				0.040

Exposed Perimeter	Area	P/A Ratio	Total Construction Thickness	321.4 mm
29.4 m	46.21 m ²	0.636		

U-values calculated to BS EN ISO 6946:2017 or BS EN ISO 13370:2017 depending on application. For floor calculations the u-value result is dependent on the exposed perimeter and area entered into the calculator for each individual floor calculation. Soil type thermal conductivity taken as 1.5 W/mK, relevant to Clay/Silt. The physical and chemical properties of the products of Kingspan Insulation represent average values obtained by testing in accordance with generally accepted standards and are subject to standard tolerances.

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For wall applications (excluding K-roc)

There are potential restrictions placed upon this product which vary dependant on building type, height, construction and location. For guidance regarding the routes to compliance for meeting the fire safety requirements of the Building Regulations /Standards, refer to the relevant Technical Bulletins and links to Government websites at www.kingspaninsulation.co.uk/fireregulations