Quinn Building Products

U-Value Calculator

QUINN BUILDING PRODUCTS

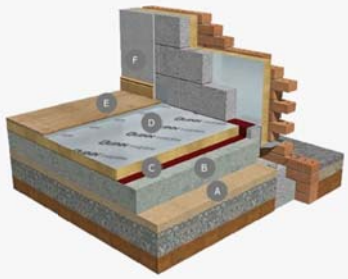
U-Value

0.13

W/m 2·K

Email my U-Value

Construction Type:	Floors / Walls / Pitched Roof / Flat Roof
Construction Type Layer 2:	Ground floor
Insulation Solution:	Solid ground floor: timber floating floor (Quinn Therm QF
PA Ratios: ?	0.5
Slab Thickness:	125 mm
Insulation Thickness:	125mm (20mm, 30mm, 50mm, 70mm, 80mm, 100mm, 120mm, 130mm, 150mm)



Solid ground floor: timber floating floor (Quinn Therm QF)

1. Sand blinding and hardcore
2. Concrete slab
3. Radon barrier / DPM
4. Quinn Therm QF PIR insulation boards
5. Timber flooring on polyethylene slip sheet
6. Internal finish

Whilst the information and/or specification contained here is to the best of our knowledge true and accurate, we specifically exclude any liability for errors, omissions or otherwise arising therefrom. Details, practices, principles, values and calculations should be verified as to accuracy and suitability for the required purpose for use.

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Project Information

Reference
Date 2 April 2020

Construction Type

Element : Solid ground floor - timber floating floor (Quinn Therm QF)
Internal surface emissivity : High External surface emissivity : High

	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m²K/W)	Pitch (º)	Bridge details Air gaps (Level, Delta U")
Inside surface	-	-	0.170		
Screed - cast (BS5250)	60.0	1.401	0.043		
Polythene, 500 gauge (0.12mm) (BS5250)	-	-	-		
Quinn Therm QF	125.0	0.022	5.682		L:0 0.000W/m²K
Concrete, dense (BS5250)	125.0	1.701	0.073		
DPM/Radon barrier	-	-	-		
Ground	-	-	0.040		

Ground Floor Details

Floor type : Solid floor
Calculation method : EN ISO 13370:2007
P/A : 0.500 Characteristic dimension, B' : 4.000
Thermal conductivity of ground: : 1.500 W/mK Width of walls, w: : 0.300 m
Edge insulation position : None

U-value = 0.13W/m²K

U-value, Combined Method : 0.135W/m²K (upper/lower limit 6.008 / 6.008m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0
dUrc1 0.0000, dUrc2 0.0000)

Correction factors

Air gaps, Delta Ug = 0.000W/m²K

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