Celotex
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Project Information
Date 31 March 2020
Client OWLarchitecture.com Project

Construction Type
Element : Solid ground floor - Ground Floor - Solid - Insulation under slab
Ground Floor - Solid - Insulation under slab
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		
Concrete oversite	150.0	1.701	0.088		
Polythene, 500 gauge separating layer	-	-	-		
Celotex XR4000	130.0	-	5.909		
DPM - Polythene, 1200 gauge	-	-	-		
Sand Blinded Hardcore	150.0	0.000	0.000		
Ground	-	-	0.040		

Ground Floor Details
Floor type : Solid floor
Calculation method : EN ISO 13370:2007
P/A : 0.600 Characteristic dimension, B' : 3.333
Thermal conductivity of ground: : 1.500 W/mK Width of walls, w: : 0.300 m
Edge insulation position : None

Perimeter Upstand Insulation: Celotex TB4000

As detailed in Accredited Construction Details, for all ground floors where a screed or concrete slab is above the insulation layer, a perimeter up-stand insulation with a minimum R Value of 0.75 m²K/W is required for the depth of the screed or concrete slab.
This is achieved with using a minimum thickness of 20mm Celotex TB4000.

U-value = 0.13W/m²K

U-value, Combined Method : 0.135W/m²K (upper/lower limit 6.207 / 6.207m²K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000, dUrc1 0.0000, dUrc2 0.0000)

Correction factors
Air gaps, Delta Ug = 0.000W/m²K

Saint-Gobain Construction Products UK Limited trading as Celotex
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