BASEMENT SLAB
Section
Concrete 400mm
Waterproof membrane 15mm
Insulation 150mm
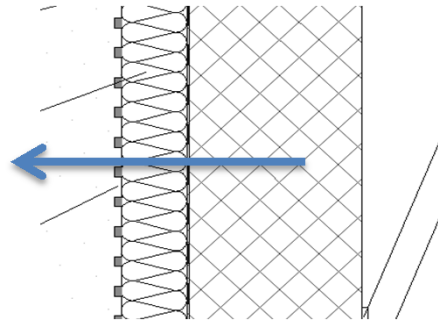
Construction	d (m)	λ (W/mK)	R=d/λ (m²K/W)	DS418
U1 up to 2m, below soil				
Rsi-Int. Resistance			0,1700	p20
Concrete	0,4	1,7	0,2353	p48
Waterproof membra	0,015	0,23	0,0652	
Insulation	0,2	0,04	5,0000	
Rj Soil Resistance	0,2 + 0,3*h = 0,2 + 0,3*3,66		1,2980	p31
∑R=1/U'			6,7685	
U'=1/∑R			0,1477	
ΔU = 0, **U = U' + ΔU = 0,1812 + 0 =0,1812 W/m²K**				

Construction	d (m)	λ (W/mK)	R=d/λ (m²K/W)	DS418
U2 more than 2m, below soil				
Rsi-Int. Resistance			0,1700	p20
Concrete	0,4	1,7	0,2353	p48
Waterproof membra	0,015	0,23	0,0652	
Insulation	0,2	0,04	5,0000	
Rj Soil Resistance			2,0000	p31
∑R=1/U'			7,4705	
U'=1/∑R			0,1339	
ΔU = 0, **U = U' + ΔU = 0,1608 + 0 =0,1608 W/m²K**				

AREAS		
m/l BASEMENT WALL	94,9	
A1	m/l basement wall x h = 94,9 x 2	**189,8000 m2**
A2	m/l basement wall x h = 94,9 x 1,66	**157,5340 m2**

U-VALUES	
U1	**0,1477 W/m²k**
U2	**0,1339 W/m²k**

U= (U1 x A1 + U2 x A2)/(A1 + A2)

U=(0,1812 x 189,8 + 0,1608 x 157,53   0,141440984