H+H Calculated Ψ-values

In accordance with BRE Report BR497 (2016) and IP 1/06 (using TRISCO version 13.0w)

PARTNERS IN WALL BUILDING

External wall junctions

E5 Ground floor (normal)

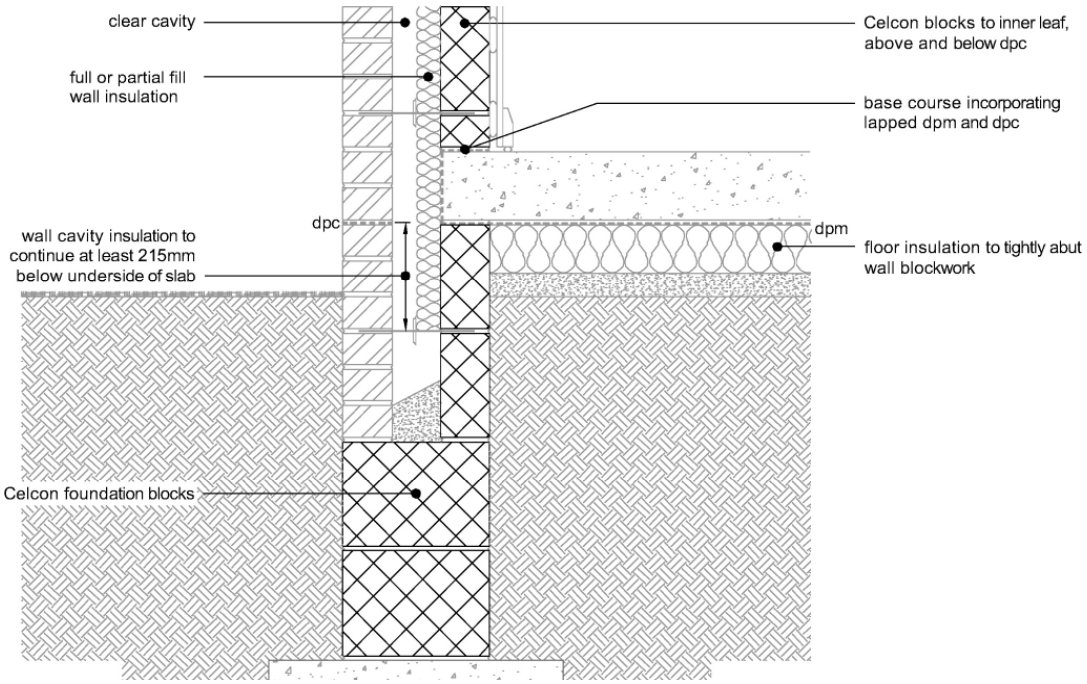
GF013 - 150mm Cast in-situ suspended slab + 150mm insulation (0.022W/mK) below

Inner leaf	Insulation thickness (mm)	Calculated Ψ-value (W/mK)					
		Insulation thermal conductivity (W/mK)					
		Part Fill (foil faced)			Full Fill		
		0.018	0.022	0.030	0.032	0.037	0.045
EW0-- 100mm Celcon Solar	50	0.129	0.137	0.150			
	75	0.116	0.122	0.133			
	100	0.108	0.113	0.123	0.132	0.139	0.149
	125				0.123	0.128	0.137
	150				0.116	0.121	0.129
EW1-- 100mm Celcon Standard	50	0.129	0.137	0.150			
	75	0.116	0.122	0.133			
	100	0.108	0.113	0.122	0.131	0.138	0.148
	125				0.123	0.128	0.137
	150				0.116	0.121	0.129
EW2-- 100mm Celcon High or Super Strength	50	0.138	0.146	0.158			
	75	0.125	0.131	0.142			
	100	0.118	0.123	0.132	0.141	0.147	0.157
	125				0.132	0.137	0.146
	150				0.126	0.130	0.138

Above Ψ-values have been based on H+H Standard Detail Drawings HH - PF - 02 for Part Fill and HH - FF - 02 for Full Fill. Deviation from these drawn details will have an affect on the calculated Ψ-values.

All calculations assume a Brick outer leaf and Plasterboard on dabs internal finish

All details have calculated temperature factors (f) which are not less than the BRE IP 1/06 critlcal temperature factor of 0.75 (0.70 at corners)



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