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)

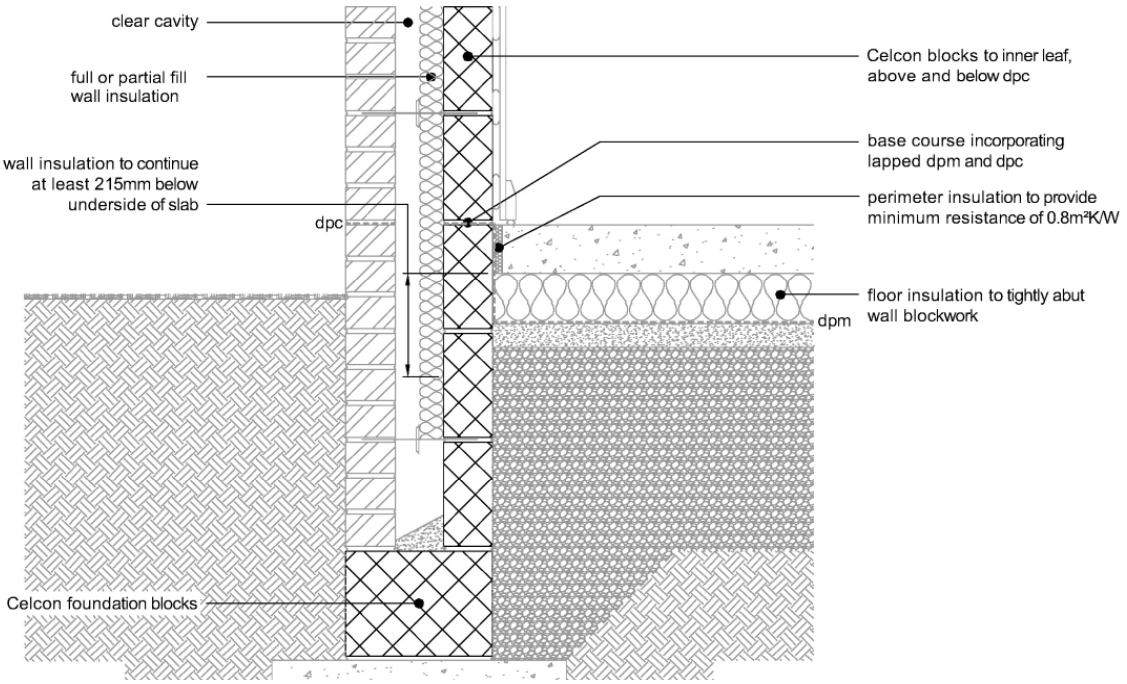
GF023 - 100mm Ground bearing slab + 150mm insulation (0.022W/mK) below

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	0.073	0.075	0.078			
	75	0.070	0.071	0.074			
	100	0.067	0.069	0.071	0.074	0.076	0.078
	125				0.072	0.073	0.075
	150				0.070	0.071	0.073
EW1-- 100mm Celcon Standard	50	0.074	0.076	0.079			
	75	0.071	0.072	0.075			
	100	0.068	0.069	0.072	0.075	0.077	0.079
	125				0.073	0.074	0.076
	150				0.071	0.072	0.074
EW2-- 100mm Celcon High or Super Strength	50	0.081	0.082	0.085			
	75	0.077	0.079	0.081			
	100	0.075	0.076	0.078	0.081	0.083	0.085
	125				0.079	0.080	0.082
	150				0.077	0.078	0.080

Above Ψ-values have been based on H+H Standard Detail Drawings HH - PF - 03 for Part Fill and HH - FF - 03 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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