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

E17 Corner (inverted)

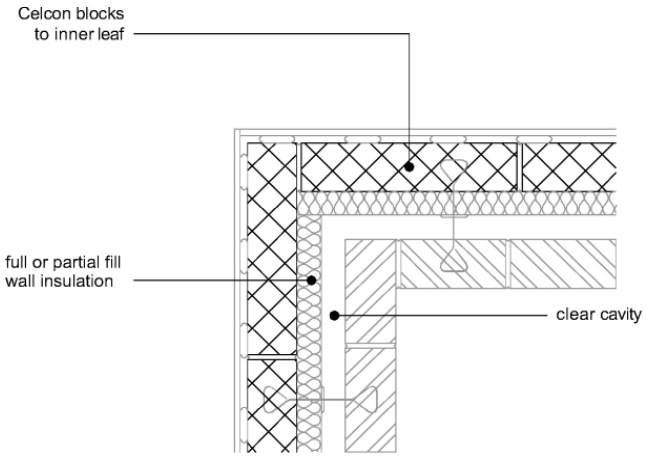
CI001 - Corner (inverted)

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	-0.083	-0.095	-0.114			
	75	-0.069	-0.080	-0.099			
	100	-0.060	-0.070	-0.089	-0.092	-0.102	-0.117
	125				-0.085	-0.095	-0.109
	150				-0.080	-0.089	-0.104
EW1-- 100mm Celcon Standard	50	-0.085	-0.098	-0.119			
	75	-0.070	-0.082	-0.102			
	100	-0.061	-0.072	-0.092	-0.096	-0.106	-0.122
	125				-0.088	-0.098	-0.114
	150				-0.082	-0.092	-0.107
EW2-- 100mm Celcon High or Super Strength	50	-0.087	-0.100	-0.122			
	75	-0.071	-0.083	-0.104			
	100	-0.062	-0.073	-0.093	-0.097	-0.108	-0.124
	125				-0.089	-0.100	-0.116
	150				-0.083	-0.094	-0.109

Above Ψ-values have been based on H+H Standard Detail Drawings HH - PF - 15 for Part Fill and HH - FF - 15 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



H+H UK Limited, Technical Services Department, Celcon House, Ightham, Sevenoaks, Kent TN15 9HZ
Tel: 01732 880580 e-mail: tsd@hhcelcon.co.uk