

H+H Calculated Ψ -values

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

External wall junctions

E5 Ground floor (normal)

GF001 - 150mm Beam & Celcon block infill + 100mm insulation (0.022W/mK) + 65mm screed

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	0.054	0.055	0.056			
	75	0.054	0.054	0.055			
	100	0.054	0.054	0.055	0.055	0.056	0.056
	125				0.055	0.056	0.056
	150				0.055	0.056	0.056
EW1-- 100mm Celcon Standard	50	0.061	0.061	0.062			
	75	0.060	0.061	0.061			
	100	0.060	0.060	0.061	0.061	0.062	0.062
	125				0.061	0.062	0.062
	150				0.061	0.062	0.063
EW2-- 100mm Celcon High or Super Strength	50	0.066	0.066	0.067			
	75	0.066	0.066	0.066			
	100	0.066	0.066	0.066	0.067	0.067	0.067
	125				0.067	0.067	0.068
	150				0.067	0.067	0.068

Above Ψ -values have been based on H+H Standard Detail Drawings HH - PF - 01 for Part Fill and HH - FF - 01 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 critical temperature factor of 0.75 (0.70 at corners)

