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

E20 Exposed floor (normal)

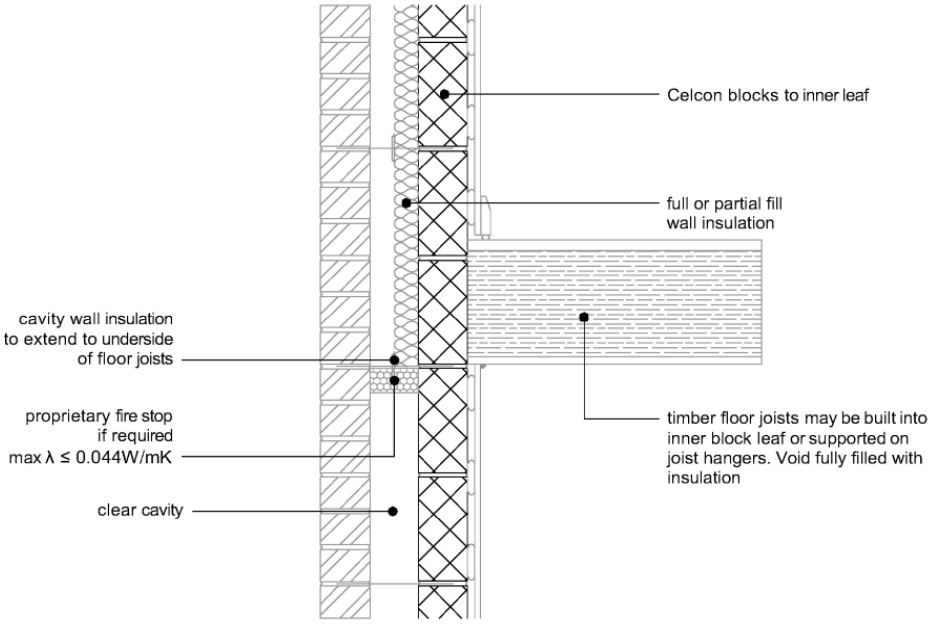
IF005 - 240mm (minimum) Timber joist built in (fully insulated (0.044W/mK) over garage)

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	0.055	0.055	0.056			
	75	0.054	0.055	0.056			
	100	0.054	0.055	0.056	0.056	0.056	0.057
	125				0.056	0.056	0.057
	150				0.056	0.057	0.057
EW1-- 100mm Celcon Standard	50	0.062	0.062	0.063			
	75	0.061	0.062	0.063			
	100	0.062	0.062	0.063	0.063	0.063	0.063
	125				0.063	0.063	0.064
	150				0.063	0.064	0.064
EW2-- 100mm Celcon High or Super Strength	50	0.067	0.067	0.067			
	75	0.067	0.067	0.068			
	100	0.067	0.067	0.068	0.068	0.068	0.068
	125				0.068	0.068	0.069
	150				0.069	0.069	0.069

Above Ψ-values have been based on H+H Standard Detail Drawings HH - PF - 25 for Part Fill and HH - FF - 25 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