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

E11 Eaves (insulation at rafter level)

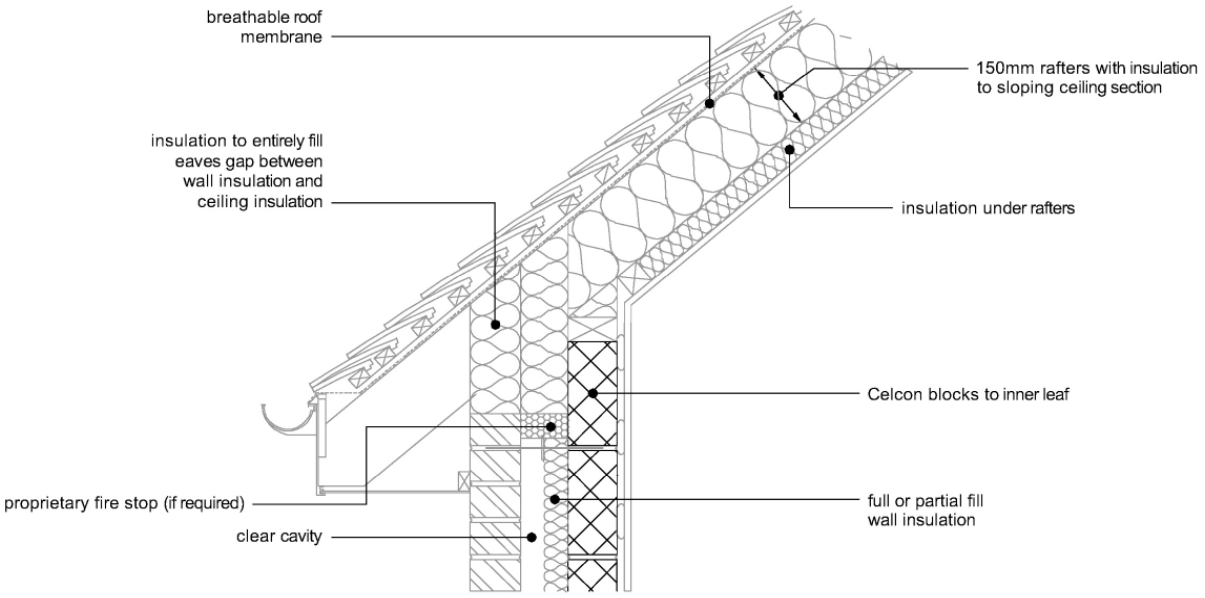
RE002 - 150mm insulation (0.044W/mK) between + 50mm (0.022W/mK) beneath rafters

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	0.035	0.025	0.009			
	75	0.047	0.038	0.023			
	100	0.053	0.045	0.031	0.032	0.023	0.011
	125				0.037	0.029	0.018
	150				0.041	0.034	0.024
EW1-- 100mm Celcon Standard	50	0.035	0.024	0.007			
	75	0.047	0.038	0.022			
	100	0.053	0.045	0.031	0.031	0.022	0.009
	125				0.037	0.029	0.017
	150				0.041	0.034	0.023
EW2-- 100mm Celcon High or Super Strength	50	0.035	0.024	0.006			
	75	0.047	0.038	0.022			
	100	0.054	0.045	0.031	0.031	0.022	0.009
	125				0.037	0.029	0.017
	150				0.041	0.034	0.023

Above Ψ-values have been based on H+H Standard Detail Drawings HH - PF - 23 for Part Fill and HH - FF - 23 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



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