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

E1 Steel lintel with perforated steel base plate

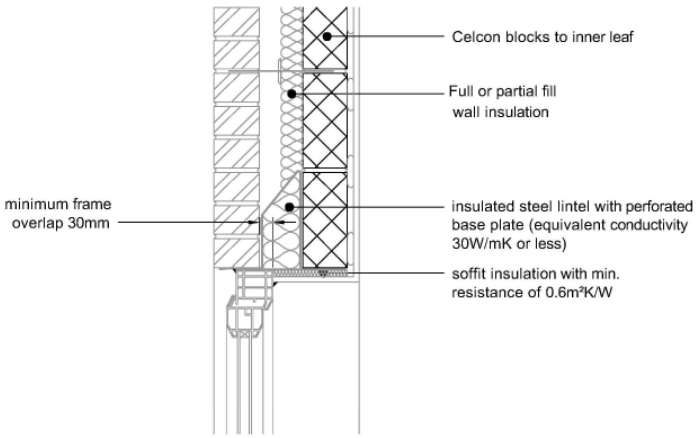
LN004 - Insulated lintel (3mm steel) with perforated base plate (max equiv λ = 30W/mK), 30mm frame overlap

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	0.371	0.363	0.349			
	75	0.374	0.367	0.354			
	100	0.390	0.383	0.372	0.369	0.362	0.352
	125				0.367	0.360	0.351
	150				0.380	0.375	0.366
EW1-- 100mm Celcon Standard	50	0.382	0.373	0.358			
	75	0.384	0.376	0.363			
	100	0.400	0.393	0.381	0.380	0.372	0.361
	125				0.376	0.369	0.359
	150				0.390	0.384	0.375
EW2-- 100mm Celcon High or Super Strength	50	0.389	0.380	0.364			
	75	0.391	0.382	0.369			
	100	0.406	0.399	0.387	0.387	0.379	0.367
	125				0.382	0.375	0.365
	150				0.396	0.390	0.380

Above Ψ-values have been based on H+H Standard Detail Drawings HH - PF - 05 for Part Fill and HH - FF - 05 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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