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

E2 Other lintels (including other steel lintels)

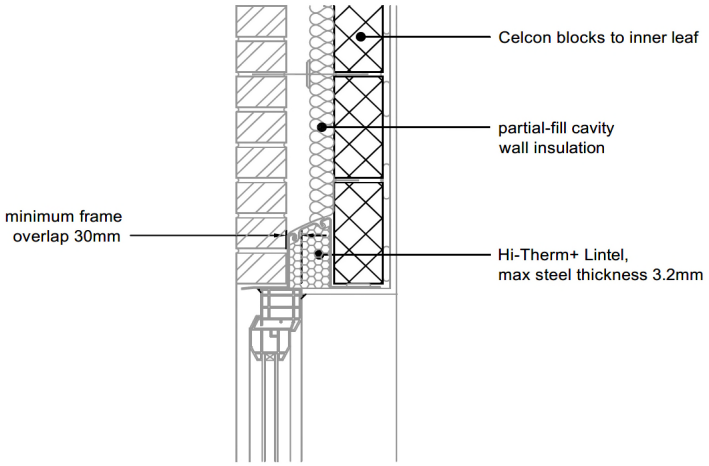
LN006 - Hi-therm+ Steel/Polymer Hybrid lintel (max 3.2mm steel), 30mm frame overlap

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	0.058	0.052	0.044			
	75	0.063	0.059	0.052			
	100	0.060	0.057	0.051	0.048	0.043	0.038
	125				0.055	0.051	0.046
	150				0.054	0.052	0.048
EW1-- 100mm Celcon Standard	50	0.056	0.050	0.041			
	75	0.063	0.058	0.050			
	100	0.060	0.056	0.050	0.047	0.042	0.036
	125				0.054	0.050	0.045
	150				0.054	0.050	0.046
EW2-- 100mm Celcon High or Super Strength	50	0.056	0.050	0.040			
	75	0.062	0.057	0.049			
	100	0.060	0.056	0.050	0.045	0.041	0.034
	125				0.053	0.049	0.044
	150				0.053	0.050	0.045

Above Ψ-values have been based on H+H Standard Detail Drawings HH - PF - 27 for Part Fill and HH - FF - 27 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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