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)

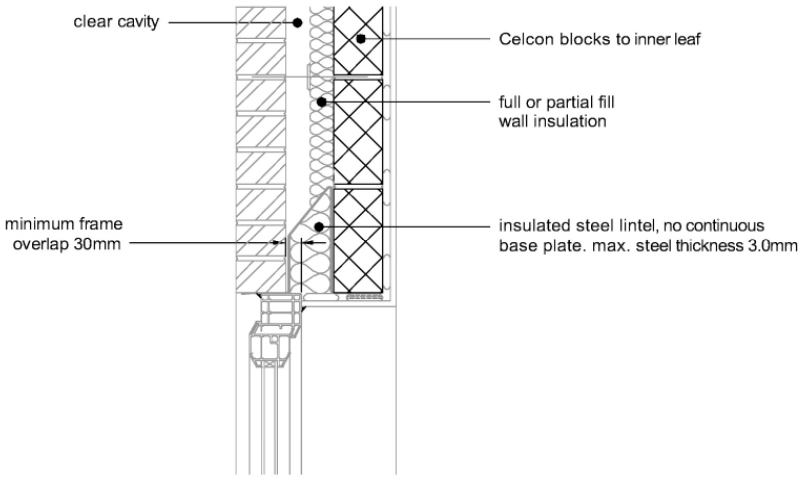
LN003 - Insulated open back lintel (max 3mm steel), 30mm frame overlap

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	0.293	0.286	0.274			
	75	0.294	0.287	0.275			
	100	0.299	0.293	0.282	0.291	0.285	0.276
	125				0.286	0.280	0.272
	150				0.289	0.284	0.276
EW1-- 100mm Celcon Standard	50	0.299	0.291	0.279			
	75	0.301	0.293	0.281			
	100	0.306	0.299	0.288	0.297	0.290	0.281
	125				0.292	0.286	0.277
	150				0.295	0.290	0.281
EW2-- 100mm Celcon High or Super Strength	50	0.303	0.295	0.282			
	75	0.305	0.298	0.285			
	100	0.310	0.303	0.292	0.301	0.294	0.284
	125				0.297	0.290	0.281
	150				0.299	0.294	0.285

Above Ψ-values have been based on H+H Standard Detail Drawings HH - PF - 22 for Part Fill and HH - FF - 22 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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