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

E25 Staggered party wall between dwellings

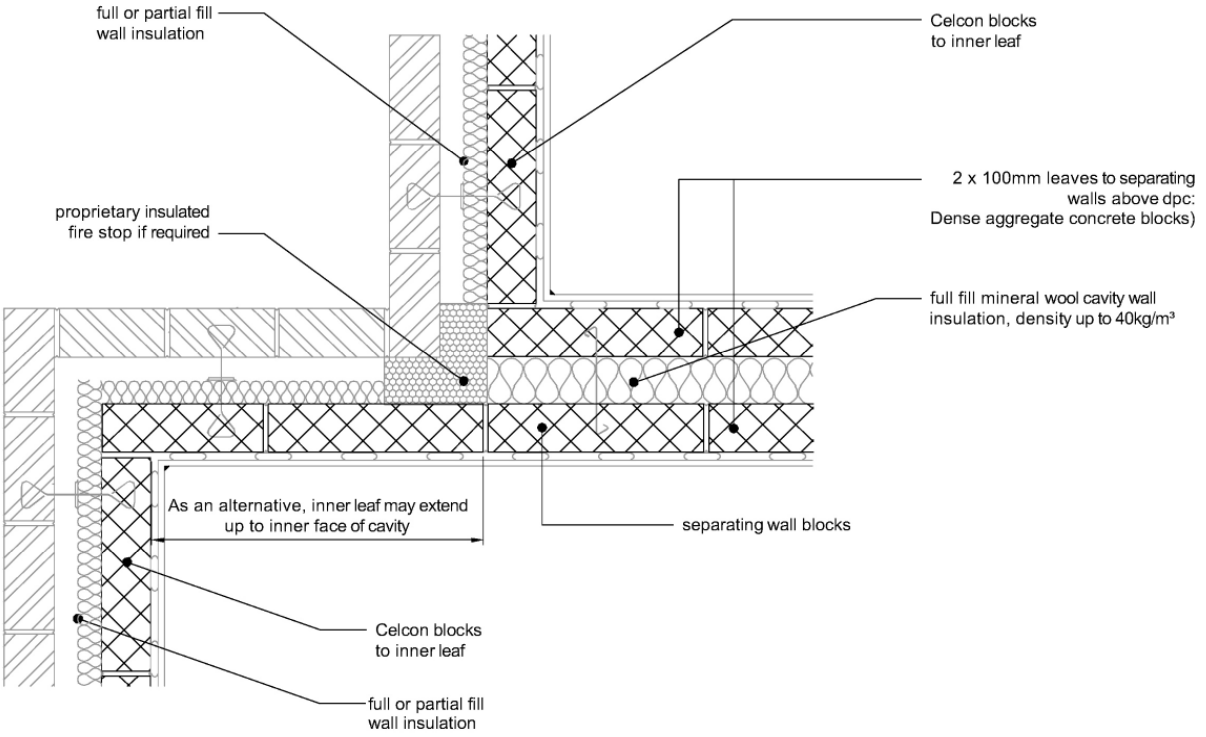
PW350s - 2 x 100mm Dense concrete block separating wall + 150mm fully insulated (0.044W/mK) cavity

Inner leaf	Insulation thickness (mm)	Calculated Ψ-value (applicable per dwelling) (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	0.059	0.059	0.058			
	75	0.048	0.047	0.047			
	100	0.039	0.039	0.039	0.056	0.056	0.056
	125				0.045	0.045	0.046
	150				0.037	0.038	0.038
EW1-- 100mm Celcon Standard	50	0.059	0.059	0.058			
	75	0.048	0.047	0.047			
	100	0.039	0.039	0.039	0.056	0.056	0.056
	125				0.045	0.045	0.046
	150				0.037	0.037	0.038
EW2-- 100mm Celcon High or Super Strength	50	0.059	0.059	0.058			
	75	0.047	0.047	0.047			
	100	0.039	0.039	0.039	0.056	0.056	0.056
	125				0.045	0.045	0.046
	150				0.037	0.037	0.038

Above Ψ-values have been based on H+H Standard Detail Drawings HH - PF - 24 for Part Fill and HH - FF - 24 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