# 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

**E13 Gable (insulation at rafter level)**

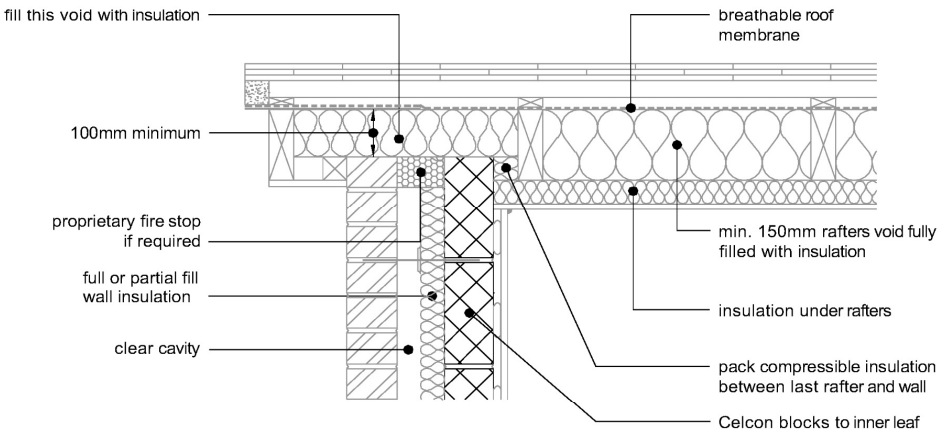
**RG022 - 150mm insulation (0.022W/mK) between + 50mm (0.022W/mK) beneath rafters**

| 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 | 0.058 | 0.059 | 0.059 | | | |
| | 75 | 0.057 | 0.058 | 0.059 | | | |
| | 100 | 0.057 | 0.058 | 0.059 | 0.059 | 0.059 | 0.060 |
| | 125 | | | | 0.059 | 0.059 | 0.060 |
| | 150 | | | | 0.059 | 0.060 | 0.060 |
| EW1-- 100mm Celcon Standard | 50 | 0.062 | 0.063 | 0.064 | | | |
| | 75 | 0.061 | 0.062 | 0.063 | | | |
| | 100 | 0.061 | 0.062 | 0.063 | 0.063 | 0.064 | 0.064 |
| | 125 | | | | 0.063 | 0.064 | 0.064 |
| | 150 | | | | 0.063 | 0.064 | 0.064 |
| EW2-- 100mm Celcon High or Super Strength | 50 | 0.065 | 0.065 | 0.066 | | | |
| | 75 | 0.064 | 0.065 | 0.066 | | | |
| | 100 | 0.064 | 0.064 | 0.065 | 0.066 | 0.066 | 0.067 |
| | 125 | | | | 0.066 | 0.066 | 0.067 |
| | 150 | | | | 0.066 | 0.066 | 0.067 |

Above Ψ-values have been based on H+H Standard Detail Drawings HH - PF - 11 for Part Fill and HH - FF - 11 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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