

Certificate No: CBA-XT-CT-015

Issued : March 2014

Issued by Concrete Block Association

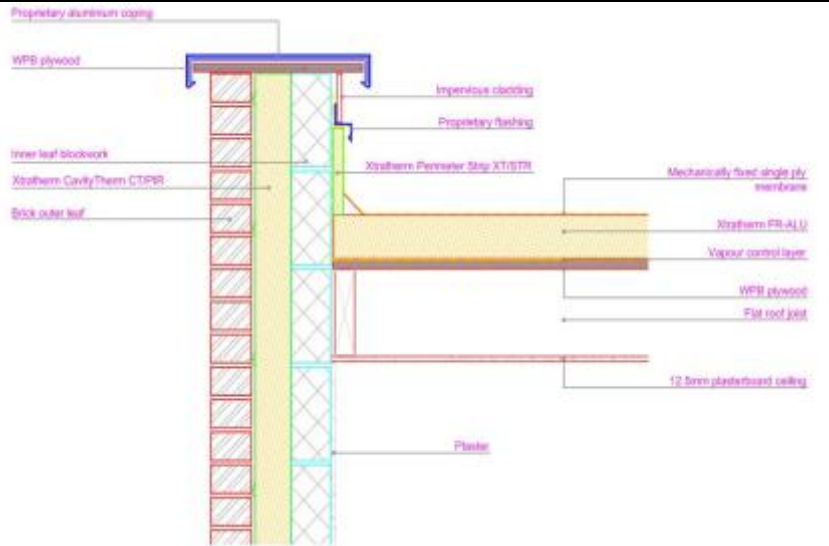
Flat roof with Parapet

Table K.1 Ref E15

Inner leaf	100 mm blockwork
Cavity	Cavity Therm by Xtratherm, thickness as in tables
Outer leaf	102 mm Brick $\lambda = 0.77$
Ceiling Insulation	110mm – 140mm PIR insulation U value range 0.15 W/m ² K to 0.18 W/m ² K

Key Points

1. Ensure minimum overlap of 225mm of the cavity insulation and flat roof insulation
2. Upstand insulation should have a minimum R-value of 0.75 m² K/W
3. A minimum distance of 300mm should be maintained between the top of the upstand insulation and the bottom of the roof insulation



Calculations have been performed in accordance with:
 BS EN ISO 10211:2007, BR497 and BS EN ISO 13370:2007

Calculation prepared by : Xtratherm UK Limited

Calculated ψ -values and f-values for flat roof with parapet / wall junction, **cavity insulation as highlighted**

	Inner leaf blockwork					
	Ultra lightweight		Lightweight		Dense	
Cavity Insulation ↓	Ψ -value W/mk	f-value	Ψ -value W/mk	f-value	Ψ -value W/mk	f-value
100mm CT-PIR	0.101	0.937	0.127	0.926	0.224	0.891
125mm CT-PIR	0.093	0.943	0.120	0.932	0.221	0.896
150mm CT-PIR	0.084	0.946	0.111	0.935	0.219	0.900

The f-value should be above 0.75 to minimise the risk of mould in dwellings.

On-site Checklist

- Minimum overlap of 225mm of the cavity insulation and ceiling insulation
- Upstand insulation has a minimum R-value of 0.75 m² K/W
- Minimum distance of 300mm maintained between the top of the upstand insulation and the bottom of the roof insulation

Site manager/supervisor.....

Site name.....

Plot number.....

Date.....