

**Certificate No: CBA-E24-2-C-A**

**Issued : January 2016**

**Issued by Concrete Block Association**

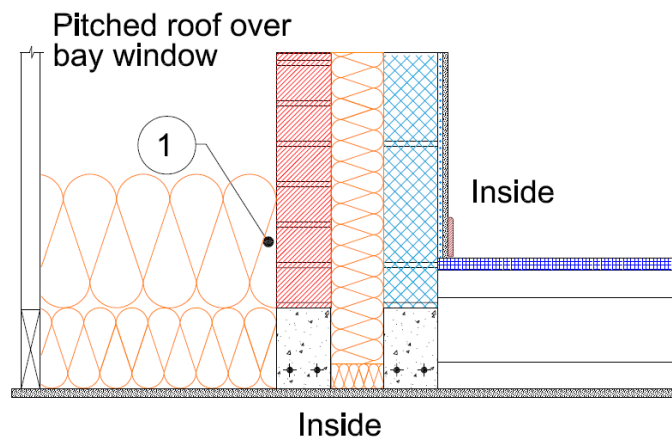
**Eaves (Insulation at ceiling level - inverted)**

Table K.1 Ref E24  
Default  $\psi$ -value =  
0.24 W/mK

Inner leaf	100 mm blockwork
Cavity	Full fill insulation
Outer leaf	102 mm brick $\lambda = 0.77$
Lintel	Concrete
Roof	Pitched roof over bay window 150 mm of insulation with $\lambda = 0.037$ between 45mm wide joists. 250mm over joists

**Key Point**

1. Ensure the roof insulation is tightly butted to the wall



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

Calculation prepared by : Chris Sanders B.Sc, M.Sc. GCU, Cowcaddens Rd, Glasgow G4 0BA  
For more information contact 0116 232 5165 (CBA).

Calculated  $\psi$ -values and f-values for eaves (insulation at ceiling level – inverted) and **cavity insulation** as highlighted

Cavity Insulation	Inner leaf blockwork					
	Ultra lightweight		Lightweight		Dense	
	$\psi$ -value W/mK	f-value	$\psi$ -value W/mK	f-value	$\psi$ -value W/mK	f-value
100mm $\lambda=0.037$	0.102	0.922	0.099	0.923	0.098	0.923
100mm $\lambda=0.032$	0.106	0.921	0.104	0.921	0.103	0.921
150mm $\lambda=0.037$	0.114	0.918	0.112	0.918	0.112	0.918
150mm $\lambda=0.032$	0.117	0.916	0.116	0.917	0.116	0.917

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

## On-site Checklist

1. Roof insulation is tightly butted to the wall

**Signed:**

**Site manager/supervisor**.....

**Site name**.....

**Plot Number**.....

**Date**.....