

**Certificate No: CBA-E20-T-B3**

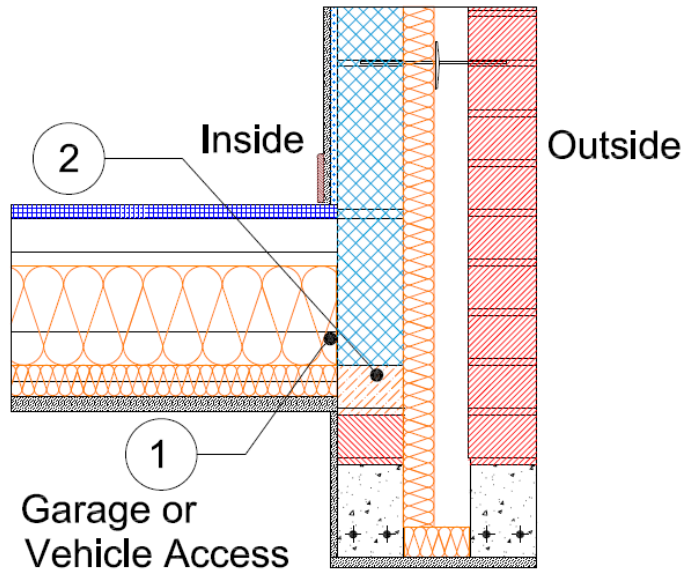
**Issued : January 2016**

**Issued by Concrete Block Association**

<b>Exposed Floor (normal)</b> Table K.1 Ref E20 Approved $\psi$ -value = 0.32 W/mK	Inner leaf	100 mm blockwork
	Cavity	Partial cavity fill with low-e facing and 50mm cavity
	Outer leaf	102 mm brick $\lambda = 0.77$
	Semi-exposed or exposed floor	Timber with 45mm wide joists on hangers with concrete lintel garage or vehicle access below. 150mm of insulation, $\lambda = 0.037$ between the joists and 25mm of insulation, $\lambda = 0.022$ below the joists

**Key Points**

1. Ensure the floor insulation is tightly butted to the wall
2. Install 65mm Perinsul load bearing insulation over the lintel (when specified)



**CBA-E20-T-B3**

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 exposed floor (normal) and **cavity insulation** as highlighted

**1.No insulation above the lintel**

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
50mm $\lambda=0.022$	0.097	0.839	0.150	0.825	0.228	0.820
100mm $\lambda=0.022$	0.105	0.847	0.161	0.834	0.244	0.828

**2. With insulation above the lintel**

Cavity Insulation	Inner leaf blockwork conductivity					
	Ultra lightweight		Lightweight		Dense	
	$\psi$ -value W/mK	f-value	$\psi$ -value W/mK	f-value	$\psi$ -value W/mK	f-value
50mm $\lambda=0.022$	0.069	0.868	0.082	0.877	0.094	0.890
100mm $\lambda=0.022$	0.072	0.880	0.085	0.890	0.096	0.904

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

## On-site Checklist

- 1. Floor insulation is tightly butted to the wall
- 2. 65mm Perinsul load bearing insulation installed over the lintel (when specified)

**Signed:**

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

**Site name**.....

**Plot number**.....

**Date**.....