

**Certificate No: CBA-E21-T-B2**

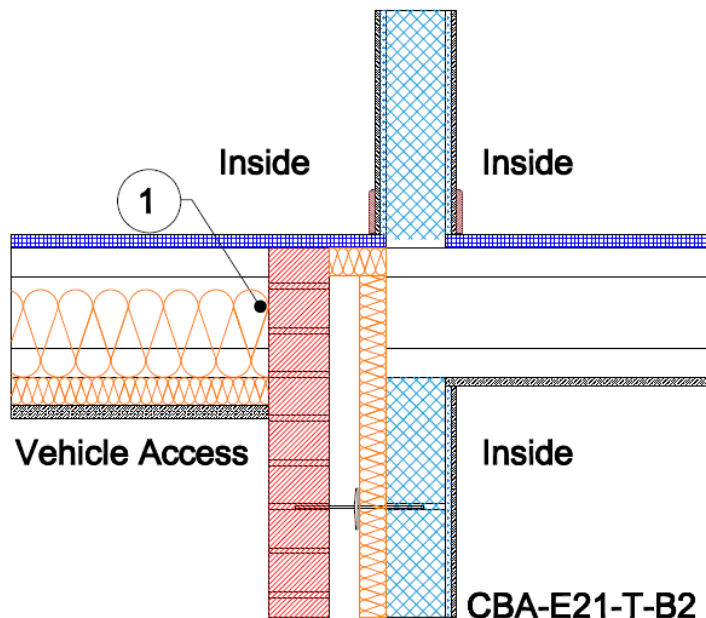
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**Issued by Concrete Block Association**

<b>Exposed Floor (inverted)</b> Table K.1 Ref E21 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 $\lambda = 0.77$
	Exposed floor	Timber with 45mm wide joists on hangers with vehicle access below and 150mm of insulation, $\lambda = 0.037$ between the joists and 25mm of insulation, $\lambda = 0.022$ below the joists

**Key Point**

1. Ensure that the floor 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 exposed floor (inverted) and **cavity insulation** as highlighted

<b>Cavity Insulation</b>	<b>Inner leaf blockwork</b>					
	<b>Ultra lightweight</b>		<b>Lightweight</b>		<b>Dense</b>	
	$\psi$ -value W/mK	f-value	$\psi$ -value W/mK	f-value	$\psi$ -value W/mK	f-value
50mm $\lambda=0.022$	0.154	0.820	0.155	0.821	0.155	0.821
100mm $\lambda=0.022$	0.143	0.816	0.143	0.816	0.144	0.816

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

**Signed:**

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

**Site name**.....

**Plot Number**.....

**Date**.....