

Certificate No: CBA-E21-T-A2

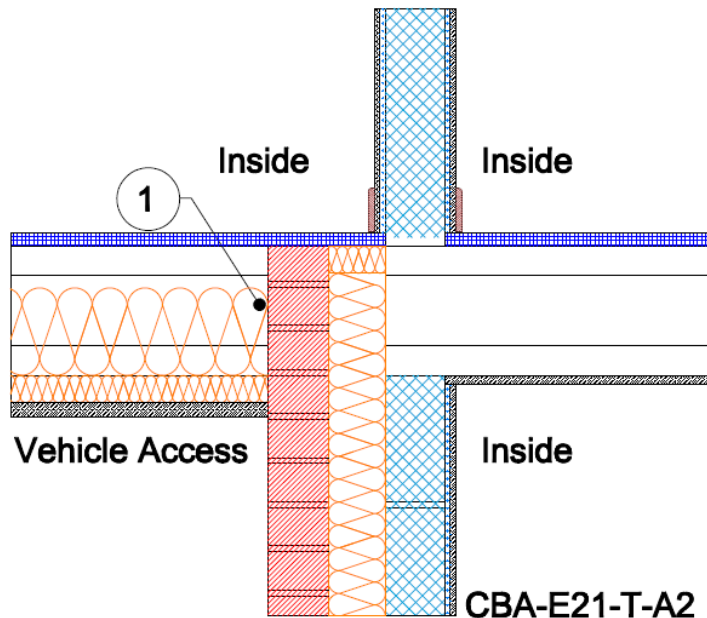
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Issued by Concrete Block Association

Exposed Floor (inverted) Table K.1 Ref E21 Approved ψ -value = 0.32 W/mK	Inner leaf	100 mm blockwork
	Cavity	Insulation
	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 ψ -values and f-values for exposed floor (inverted) and **cavity insulation** as highlighted

Cavity Insulation	Inner leaf blockwork					
	Ultra lightweight		Lightweight		Dense	
	ψ -value W/mK	f-value	ψ -value W/mK	f-value	ψ -value W/mK	f-value
100mm $\lambda=0.037$	0.150	0.822	0.151	0.823	0.151	0.823
100mm $\lambda=0.032$	0.149	0.821	0.149	0.821	0.150	0.822
150mm $\lambda=0.037$	0.140	0.819	0.140	0.819	0.140	0.819
150mm $\lambda=0.032$	0.139	0.818	0.139	0.818	0.139	0.818

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.....