

Certificate No: CBA-E20-C-A3

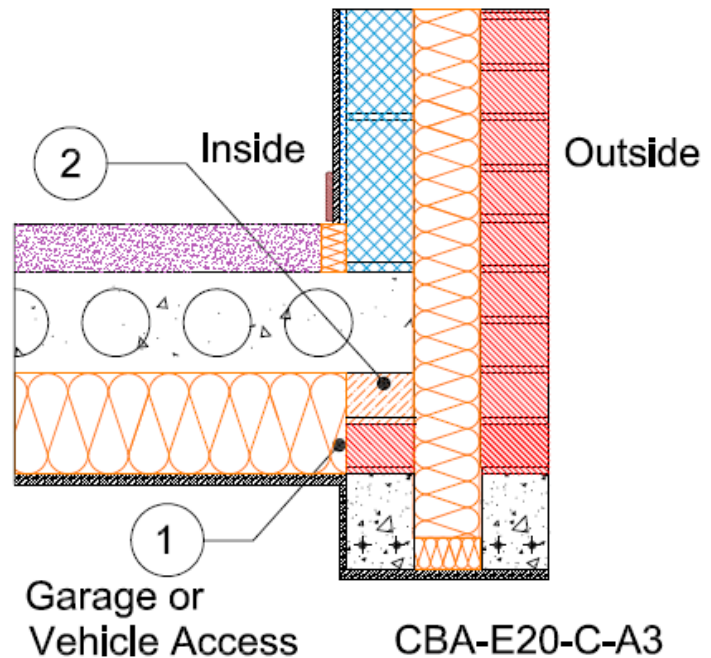
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Issued by Concrete Block Association

Exposed Floor (normal) Table K.1 Ref E20 Approved ψ -value = 0.32 W/mK	Inner leaf	100 mm blockwork
	Cavity	Full fill insulation
	Outer leaf	102 mm brick $\lambda = 0.77$
	Semi-exposed or exposed floor	Precast hollow core concrete floor with concrete lintel for garage or vehicle access, with 150mm of insulation, $\lambda = 0.037$ below the hollow core deck

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)



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 exposed floor (normal) and cavity insulation as highlighted

1. No insulation above the lintel

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 $\lambda=0.037$	0.178	0.874	0.232	0.857	0.293	0.849
100mm $\lambda=0.032$	0.173	0.877	0.229	0.862	0.290	0.853
150mm $\lambda=0.037$	0.169	0.882	0.225	0.867	0.288	0.857
150mm $\lambda=0.032$	0.165	0.884	0.223	0.869	0.287	0.860

2. With 65mm Perinsul load bearing insulation above the lintel

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 $\lambda=0.037$	0.108	0.900	0.109	0.903	0.113	0.907
100mm $\lambda=0.032$	0.101	0.904	0.103	0.907	0.106	0.911
150mm $\lambda=0.037$	0.095	0.909	0.097	0.912	0.099	0.917
150mm $\lambda=0.032$	0.090	0.913	0.092	0.915	0.095	0.920

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.....