

Certificate No: CBA-E20-C-B3

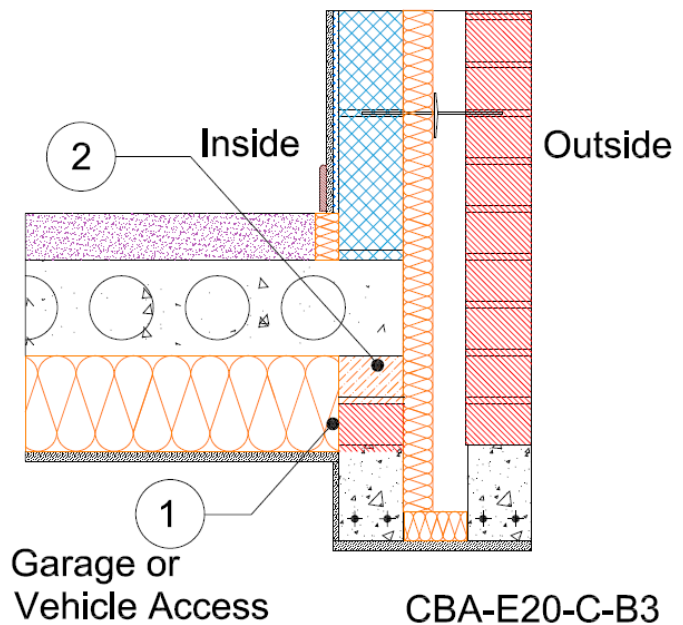
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Issued by Concrete Block Association

Exposed Floor (normal) Table K.1 Ref E20 Approved ψ -value = 0.32 W/mK	Inner leaf	100 mm blockwork
	Cavity	Partial cavity fill with low-e facing and 50mm cavity
	Outer leaf	102 mm brick $\lambda = 0.77$
	Semi-exposed or exposed floor	Precast hollow core concrete floor with concrete lintel 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

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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
50mm $\lambda=0.022$	0.172	0.874	0.231	0.859	0.291	0.850
100mm $\lambda=0.022$	0.162	0.886	0.221	0.870	0.285	0.861

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
50mm $\lambda=0.022$	0.105	0.901	0.107	0.904	0.110	0.908
100mm $\lambda=0.022$	0.086	0.915	0.088	0.917	0.090	0.922

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.....