

Certificate No: CBA-P8-T-B1

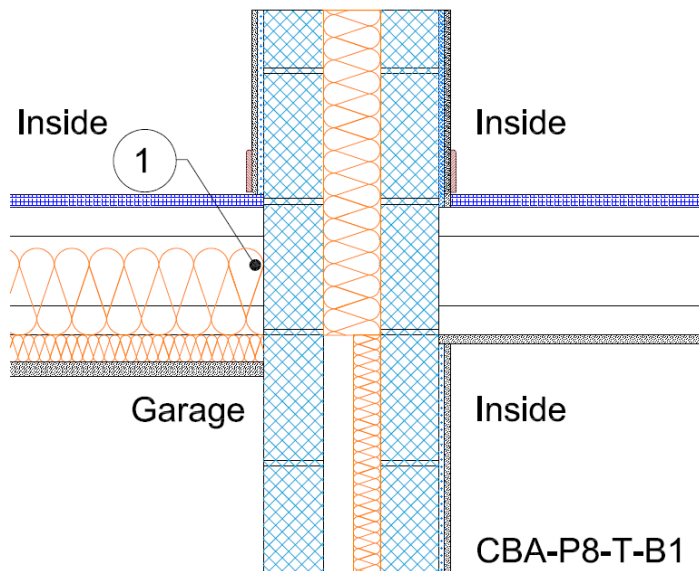
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Issued by Concrete Block Association

Exposed floor (Inverted) Table K.1 Ref P8 Default ψ -value = 0.24 W/mK	Inner leaf	100 mm blockwork
	Cavity	Partial cavity fill with low-e facing and 50mm cavity
	Outer leaf	100 mm blockwork
	Semi-exposed floor	Timber with 45mm wide joists on hangers over garage with 150mm of insulation, $\lambda = 0.037$ between the joists and 25mm of insulation, $\lambda = 0.022$ below the joists

Key Point

1. Ensure 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

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Calculated ψ -values and f-values for exposed floor (inverted) and **cavity insulation** as highlighted

*The ψ -value applied to each dwelling around the junction should be allocated as follows:

- 2 dwellings – 2/3 of tabulated value to dwelling occupying 2 segments around junction and 1/3 of tabulated value to dwelling occupying 1 segment around junction
- 3 dwellings – 1/3 of tabulated value to each dwelling

1. With lightweight blocks in the separating wall $\lambda = 0.6$ W/mK

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 $\lambda=0.022$	0.144	0.894	0.170	0.880	0.191	0.869
100mm $\lambda=0.022$	0.144	0.889	0.167	0.875	0.185	0.865

2. With dense blocks in the separating wall $\lambda = 1.33$ W/mK

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 $\lambda=0.022$	0.180	0.890	0.251	0.869	0.294	0.850
100mm $\lambda=0.022$	0.203	0.886	0.249	0.864	0.289	0.846

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.....