

Certificate No: CBA-313

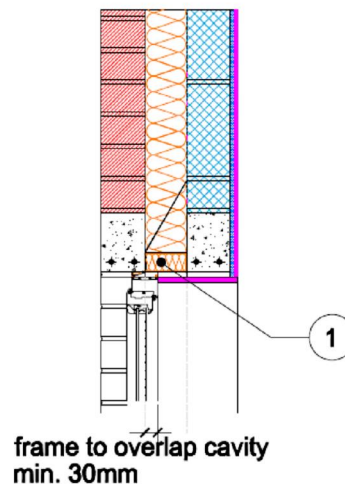
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Issued by Concrete Block Association

Independent concrete lintels Table K.1 Ref E2 Approved ψ -value = 0.30 W/mK	Inner leaf	100 mm Blockwork
	Cavity	Full fill insulation, see table for options
	Outer leaf	102 mm Brick = 0.77
	Lintel	Independent concrete lintels with soffit insulation

Key Points

- ① Close the cavity with insulation
 $\lambda \leq 0.026$
- ② Fill gaps around and between
lintels with tightly packed
insulation



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 different blockwork, and **cavity insulation as highlighted**

	Inner leaf blockwork					
	Ultra lightweight		Lightweight		Dense	
Cavity Insulation ↓	ψ -value W/mK	f-value	ψ -value W/mK	f-value	ψ -value W/mK	f-value
100mm =0.037	0.028	0.908	0.023	0.908	0.021	0.908
100mm =0.032	0.028	0.908	0.024	0.908	0.021	0.908
150mm =0.037	0.020	0.870	0.018	0.870	0.017	0.870
150mm =0.032	0.021	0.871	0.019	0.871	0.018	0.871

The f-value should be above 0.75 to minimise the risk of mould in dwellings.

NOTE: Because heat loss through windows and their frames is assessed separately, heat loss through the frame is not taken into account in the calculation of the ψ -value and f-value.

On-site Checklist

- Cavity closed with insulation with ψ 0.026
- All gaps around and between lintels filled with tightly packed insulation

Site manager/supervisor.....

Site name.....

Plot number.....

Date.....