

Certificate No: CBA- 202

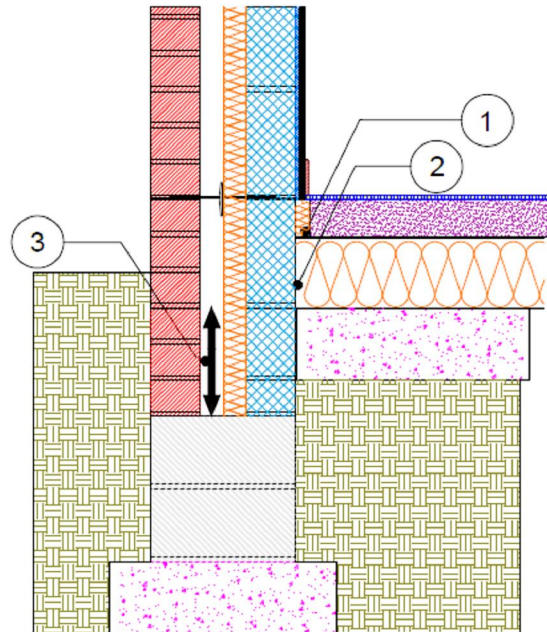
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Issued by Concrete Block Association

Ground Floor, Insulation above slab – External wall Table K.1 Ref E5 Approved -value = 0.16 W/mK	Inner leaf	100 mm blockwork
	Cavity	Partial Fill insulation, see table for options
	Outer leaf	102 mm Brick = 0.77
	Floor	100mm slab with 100 mm floor insulation = 0.022 Below a 75mm screed

Key Points

- ① The R-value of the perimeter insulation should be at least $0.8\text{m}^2\text{K/W}$
- ② Ensure the floor insulation is tightly butted against the external wall.
- ③ Continue the cavity insulation at least 225mm below the top of the concrete.



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 with 100mm floor insulation
 $\lambda=0.022$, 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
50mm =0.022	0.059	0.919	0.097	0.907	0.159	0.884
100mm =0.022	0.056	0.928	0.097	0.917	0.164	0.898

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

On-site Checklist

- Perimeter insulation with a resistance of at least 0.8 W/m²K installed
- Floor insulation is tightly butted against the external wall
- Cavity insulation continues at least 225mm below the top of the concrete

Site manager/supervisor.....

Site name.....

Plot number.....

Date.....