

Certificate No: CBA-E25-1038-B

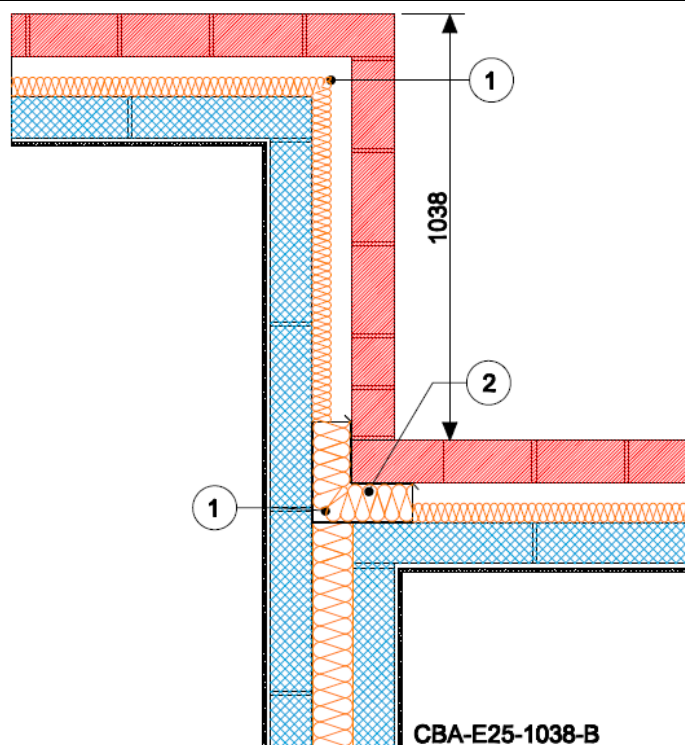
Issued : January 2016

Issued by Concrete Block Association

Staggered separating wall between dwellings Table K.1 Ref E25 Default ψ -value = 0.12 W/mK	Inner leaf	100 mm blockwork
	Cavity	Partial cavity fill with low-e facing and 50mm cavity
	Outer leaf	102 mm brick $\lambda = 0.77$
	Separating wall	Full fill mineral wall insulation

Key Points

1. Ensure that the cavity insulation is continuous throughout the junction
2. Install proprietary fire stop at junction



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 for staggered separating walls and **cavity insulation** as highlighted

***Half the value shown should be applied to each dwelling**

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

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 $\lambda=0.022$	0.142	0.910	0.150	0.910	0.154	0.914
100mm $\lambda=0.022$	0.091	0.942	0.095	0.943	0.104	0.946

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

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 $\lambda=0.022$	0.148	0.917	0.155	0.916	0.159	0.918
100mm $\lambda=0.022$	0.094	0.947	0.097	0.947	0.108	0.949

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

On-site Checklist

- 1. Cavity insulation is continuous throughout the junction
- 2. Proprietary fire stop installed at junction

Signed:

Site manager/supervisor.....

Site name.....

Plot Number.....

Date.....