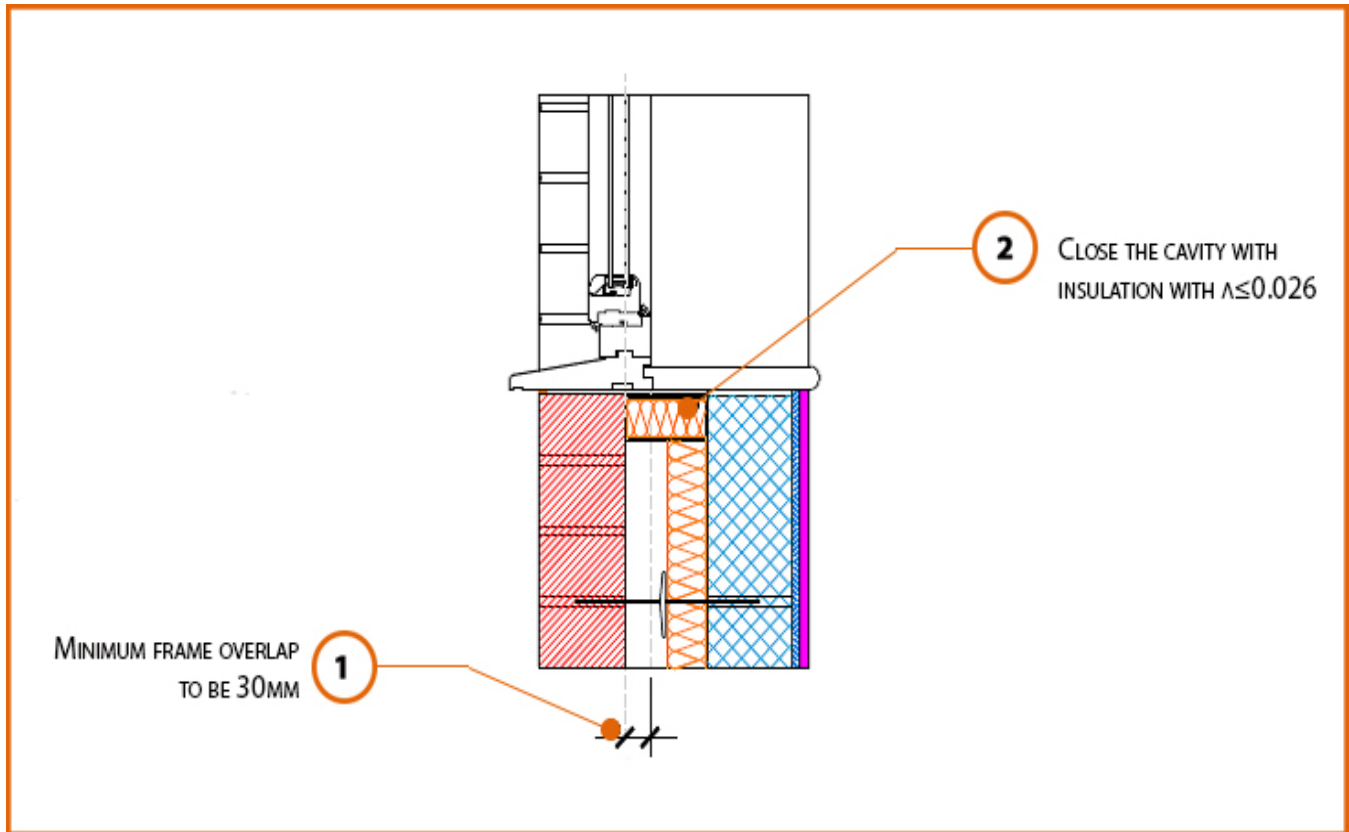


Registration Number: ECMCPF1



Build Up

External Masonry Cavity Wall

Masonry Outer Leaf ($\lambda = 0.77$)

Ultra Lightweight Concrete Block $\lambda \leq 0.28$ W/mK

Partial Fill Insulation

Window Sill

LABC Registered Construction Details

Masonry



Calculated ψ -values

| Cavity Insulation | Inner leaf blockwork |
|-----------------------|---|
| | Ultra Lightweight Concrete Block $\lambda \leq 0.28$ W/mK |
| | ψ -value W/mK |
| 50mm $\lambda=0.022$ | 0.019 |
| 100mm $\lambda=0.022$ | 0.027 |

Points to Watch

- Cavity barriers around openings may be formed by the window or door frame if the frame is steel (0.5mm thick) or timber (38mm thick).
- Ensure the cavity closer is in contact with the insulation within the cavity and the window / door frame.
- Ensure cavities are kept clean of mortar snots and other debris during construction
- A flexible sealant should be applied to the junction between the plaster/ plasterboard, sill board and window frame member
- Sealant should be added to the front and back of the sill board
- Ensure that the damp proof course is correctly positioned.
- Cavity barriers may require an additional vertical DPC and/or cavity tray.
- Fire rated cavity barrier / closer may be required depending on position and type of window and thickness of window board

