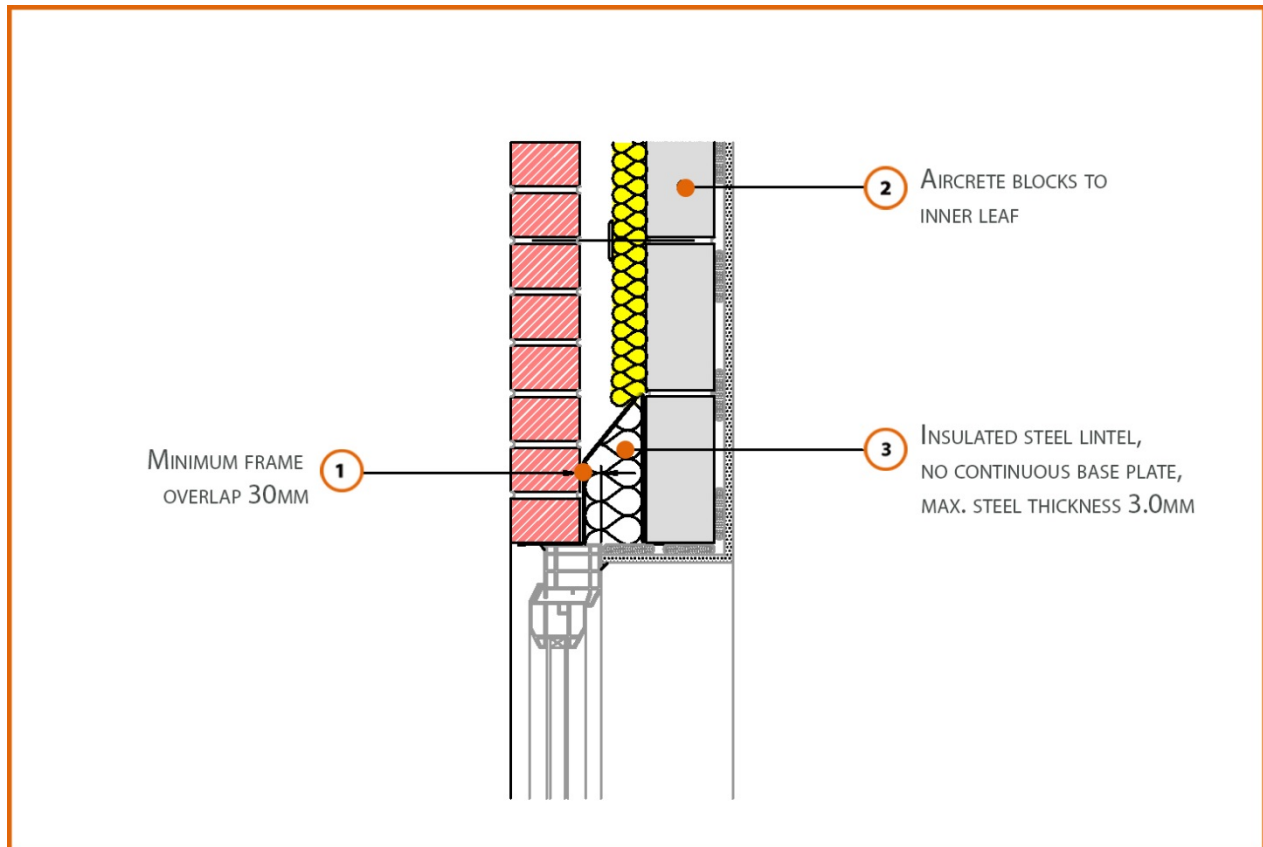


Registration Number: E2MCPF8



Build Up

External Masonry Cavity Wall

Masonry Outer Leaf ($\lambda = 0.77$)

100mm Aircrete Block Inner Leaf ($\lambda = 0.15 \text{ W/mK}$)

Partial Fill Insulation

Steel Lintel, Open Back

(No continuous base plate)

Calculated ψ -values

Cavity Insulation	Inner leaf blockwork
	Aircrete Block $\lambda = 0.15$ W/mK
	ψ -value W/mK
50mm $\lambda=0.022$	0.286
100mm $\lambda=0.022$	0.292

Points to Watch

- In certain situations, the lintel may also require fire resistance.
- A flexible sealant should be used between all interfaces of the internal air barrier and the window / door frame members.
- 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.
- Ensure that a 3mm thick lintel is available for the required opening width.
- 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 construction of soffit