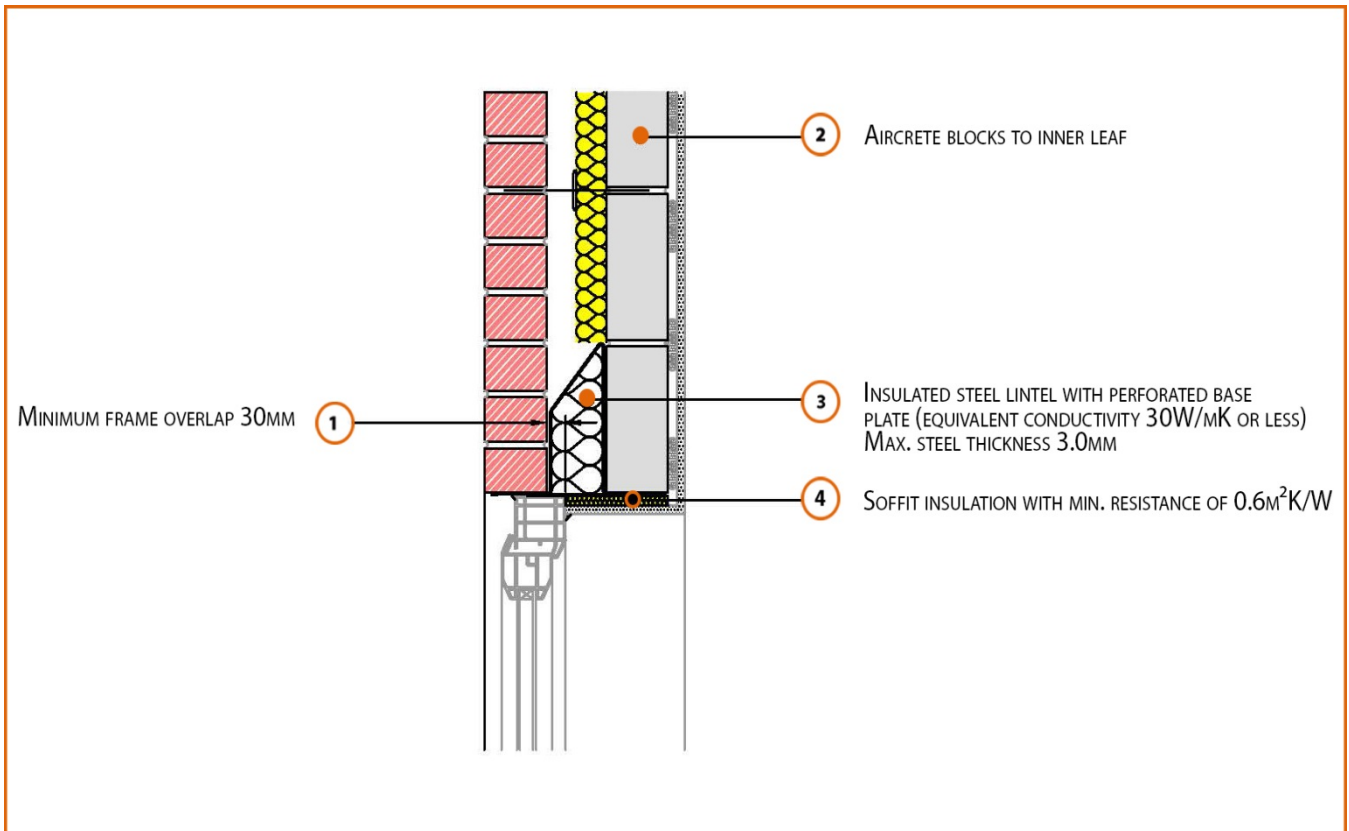


Registration Number: E1MCPF6



Build Up

External Masonry Cavity Wall

Masonry Outer Leaf ($\lambda = 0.77$)

100mm Aircrete Block Inner Leaf ($\lambda = 0.19$ W/mK)

Partial Fill Insulation

3.0mm Steel Lintel with Perforated Baseplate

(Insulated Soffit)

Calculated ψ -values

	Inner leaf blockwork
	Aircrete Block $\lambda = 0.19 \text{ W/mK}$
Cavity Insulation	ψ -value W/mK
50mm $\lambda=0.022$	0.371
100mm $\lambda=0.022$	0.392

Points to Watch

- In certain situations, the lintel may also require fire resistance
- Ensure that a 3mm thick lintel is available for the required opening width
- A flexible sealant should be used between all interfaces of the internal air barrier and the window / door frame members.
- Ensure cavities are kept clean of mortar snots and other debris during construction.
- Cavity barriers may require an additional vertical DPC and/or cavity tray.
- 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).
- The minimum thickness of the base plate to allow it to act as a fire barrier is 0.5mm. The maximum thickness to conform with thermal bridging is 3mm