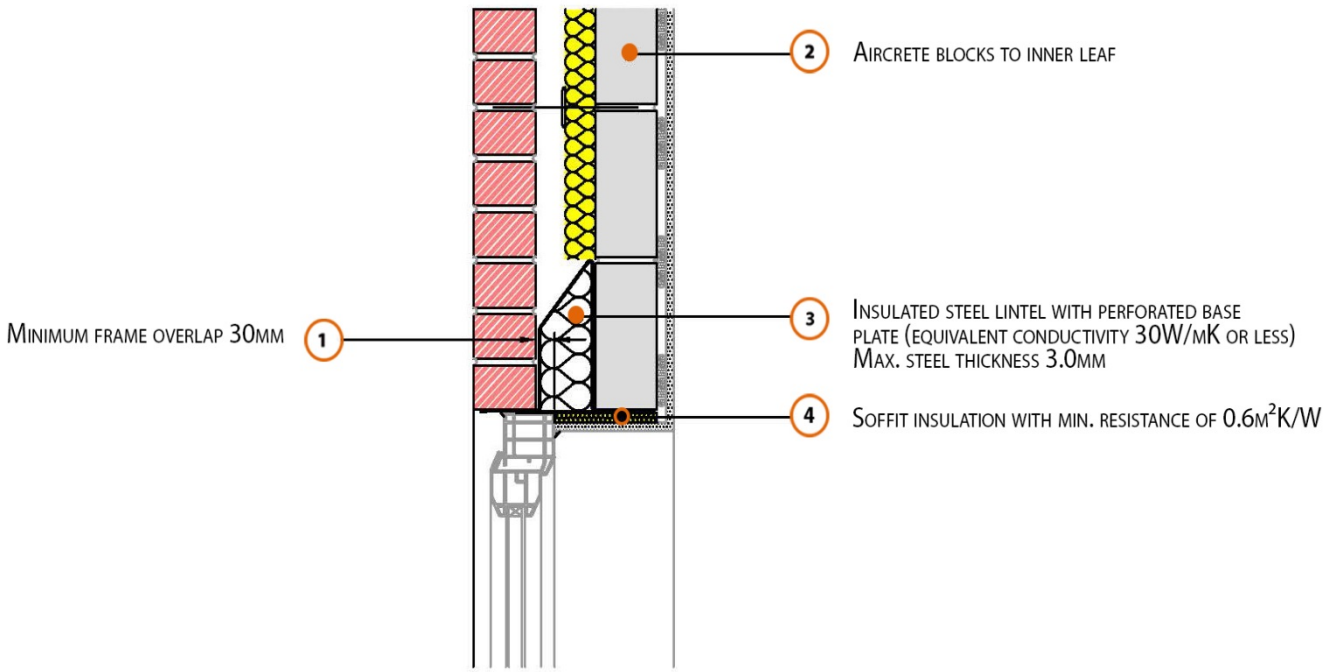
LABC Registered Construction Details
Masonry

Registration Number: E1MCPF5



Build Up

External Masonry Cavity Wall

Masonry Outer Leaf (λ = 0.77)

100mm Aircrete Block Inner Leaf (λ = 0.15 W/mK)

Partial Fill Insulation

3.0mm Steel Lintel with Perforated Baseplate

(Insulated Soffit)

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Calculated ψ-values

	Inner leaf blockwork
	Aircrete Block λ = 0.15 W/mK
Cavity Insulation	ψ-*value W/mK*
50mm λ=0.022	**0.361**
100mm λ=0.022	**0.382**

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