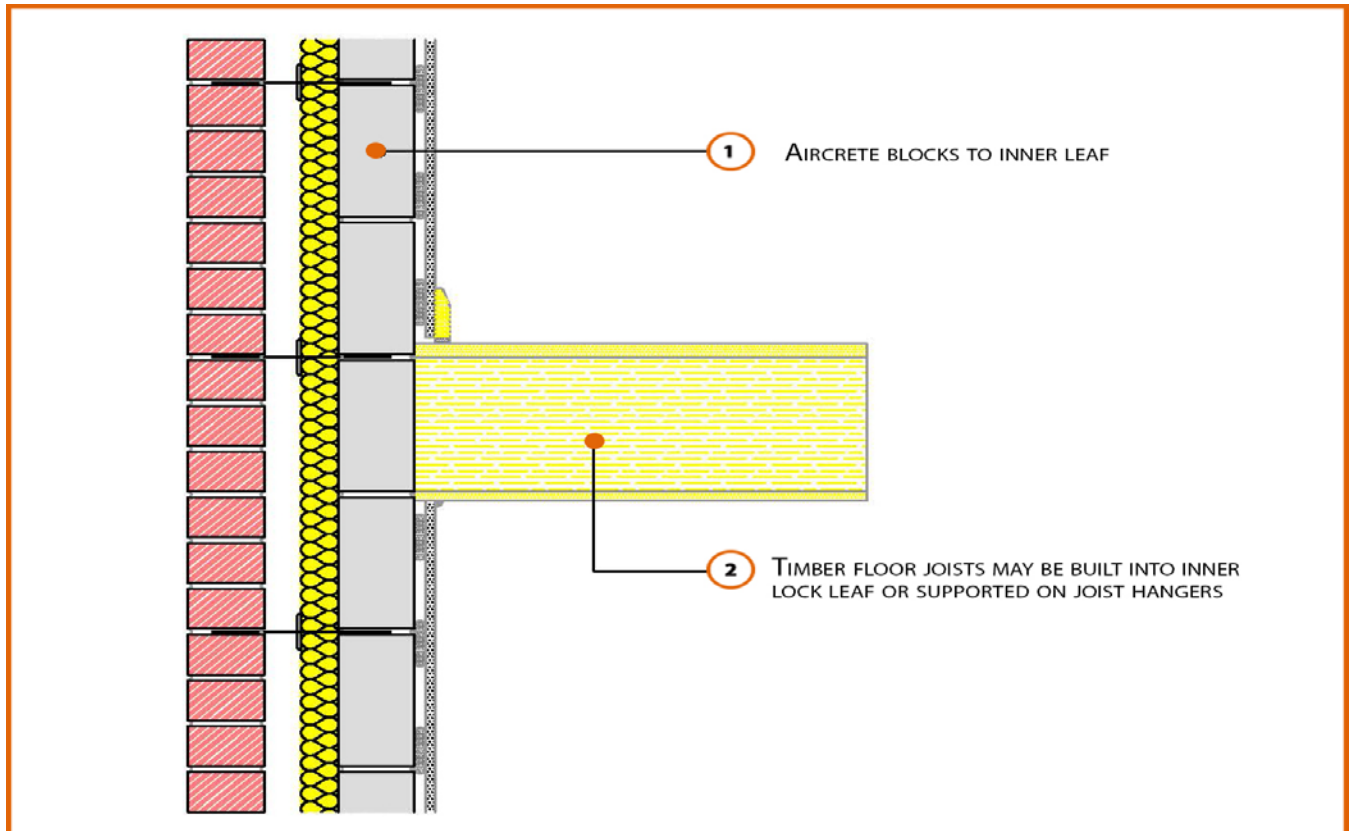


## Registration Number: E6MCPF5



### 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

Intermediate Timber Floor Within Dwelling

240mm Timber I Joist Built In

## Calculated $\psi$ -values

	Inner leaf blockwork
	Aircrete Block $\lambda = 0.15 \text{ W/mK}$
Cavity Insulation	$\psi$ -value $\text{W/mK}$
50mm $\lambda=0.022$	0.004
100mm $\lambda=0.022$	0.002

## Points to Watch

- Ensure cavities are kept clean of mortar snots and other debris during construction
- Seal between the wall air barrier and the floor above and below the connection with a flexible sealant.
- Seal all penetrations through the inner leaf with a flexible sealant or purpose made shoe, which should itself be sealed to the inner leaf.
- Joist hangers should be considered in preference to building timber joists into the inner leaf.
- Where engineered floor joists are used, careful attention should be paid to fixing filler pieces on both sides of the web between flanges.