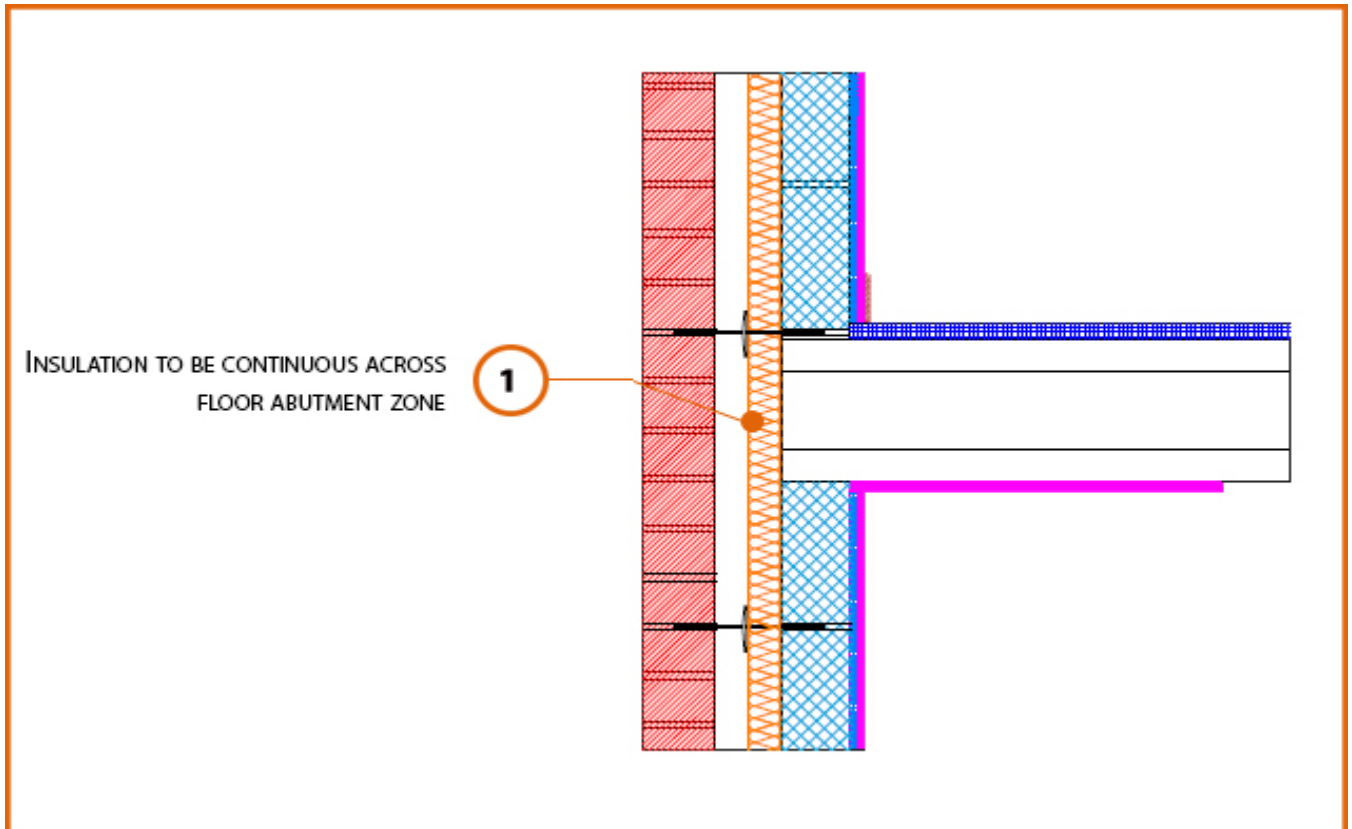


Registration Number: E6MCPF2



Build Up

External Masonry Cavity Wall

Masonry Outer Leaf ($\lambda = 0.77$)

Lightweight Concrete Block Inner Leaf $\lambda \leq 0.60$ W/mK

Partial Fill Insulation

Intermediate Timber Floor Within Dwelling

Timber Joist

Calculated ψ -values

	Inner leaf blockwork
	Lightweight Concrete Block $\lambda \leq 0.60$ W/mK
Cavity Insulation	ψ -value W/mK
50mm $\lambda=0.022$	0.001
100mm $\lambda=0.022$	0.000

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.