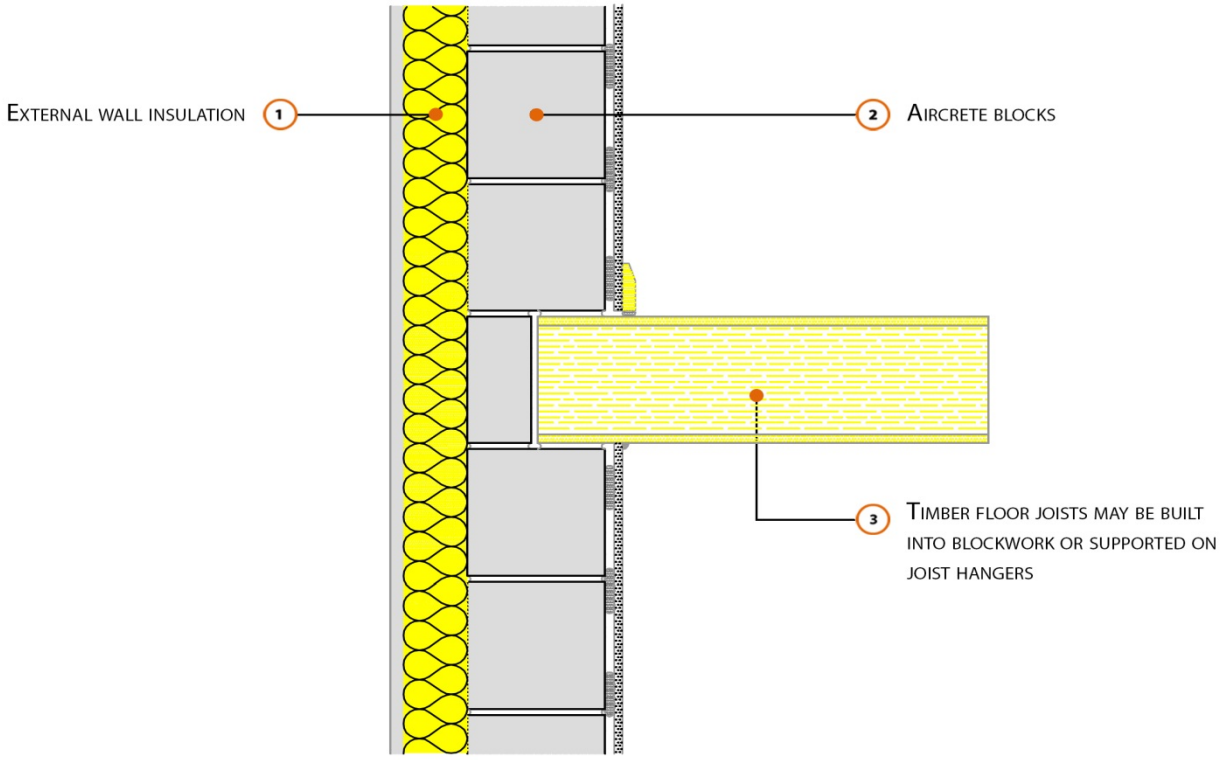
LABC Registered Construction Details Masonry

Registration Number: E6SMEW1



Build Up

Solid External Masonry Wall

215mm Aircrete Solid Wall (λ ≤ 0.11 W/mK)

Render & Insulation (λ = 0.022 W/mK)

Timber Floor Joists Between Floor built in or on hangers

Calculated ψ-values

	Inner leaf blockwork
	Aircrete Block λ ≤ 0.11 W/mK
Cavity Insulation	ψ-*value W/mK*
50mm λ=0.022	**0.012**
75mm λ=0.022	**0.007**
100mm λ=0.022	**0.006**

Points to Watch

- Ensure block face is kept clean of mortar snots and other debris during construction to permit tight fit of external wall insulation.
- 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.
- Seal all penetrations into block leaf with a flexible sealant or purpose made shoe, which should itself be sealed to the floor type when built into the wall rather than held on hangars.