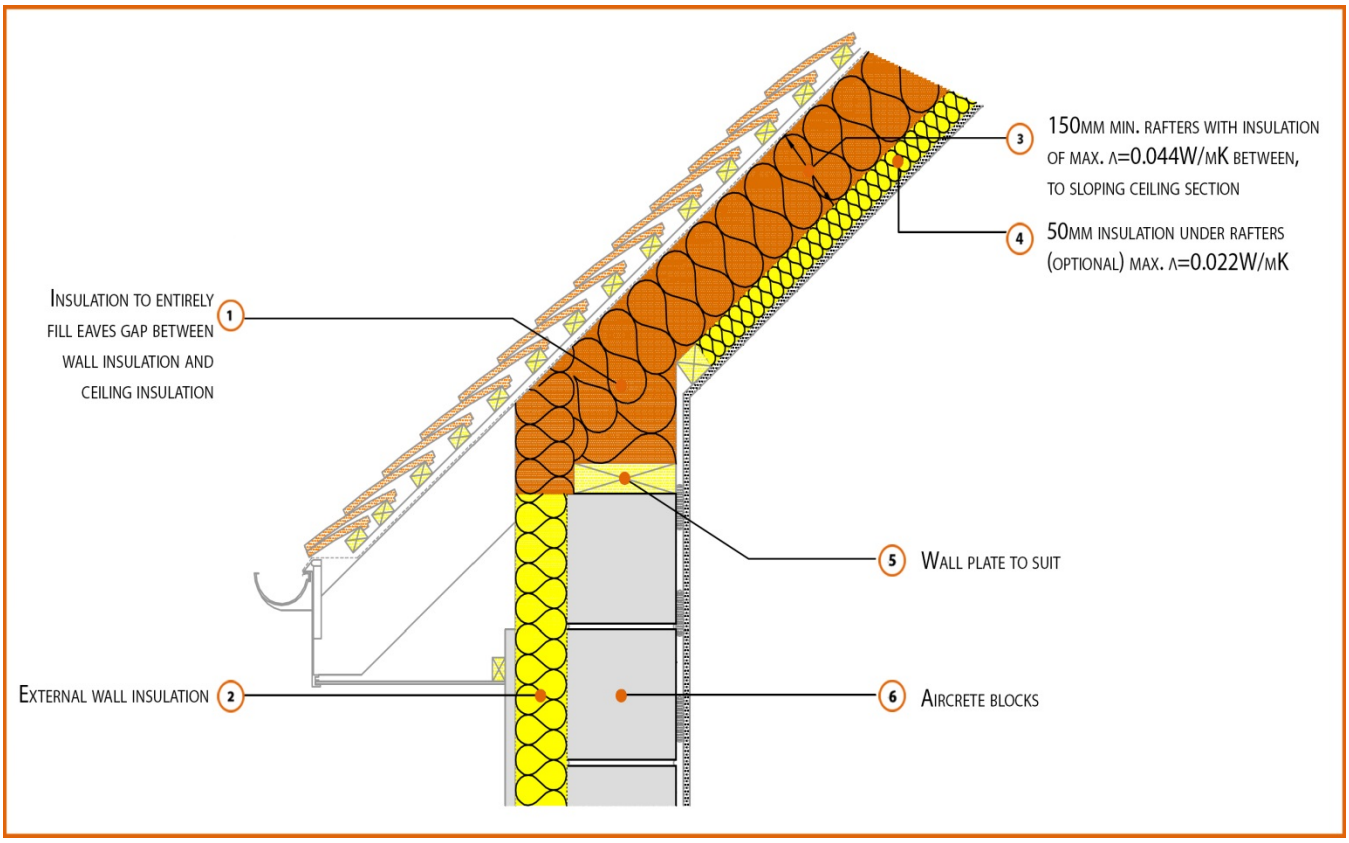
LABC Registered Construction Details
Masonry

Registration Number: E11SMEW1



Build Up

Solid External Masonry Wall

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

Render & Insulation (λ = 0.022 W/mK)

Pitched Roof Eaves

150mm insulation (0.044W/mK) between rafters

50mm insulation (0.022W/mK) beneath rafters

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Calculated ψ-values

	Inner leaf blockwork
	Aircrete Block λ ≤ 0.11 W/mK
Cavity Insulation	ψ-*value W/mK*
50mm λ=0.022	**0.037**
75mm λ=0.022	**0.042**
100mm λ=0.022	**0.046**

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.
- Ensure continuity between external wall insulation and roof insulation at junction.
- The eaves insulation should not compromise the cross flow ventilation or free water drainage below timber battens.
- Consider whether a vapour control plasterboard or separate vapour control barrier is required.
- Fire resistance will also be required for room in roof situations.
- Ensure eaves ventilation does not compromise free water drainage below the tiling battens.
- Fix ceiling plasterboard first and seal all gaps between ceiling and masonry then seal all penetrations through air barrier with flexible sealant.
- Read in conjunction with roof details E12 and E13.