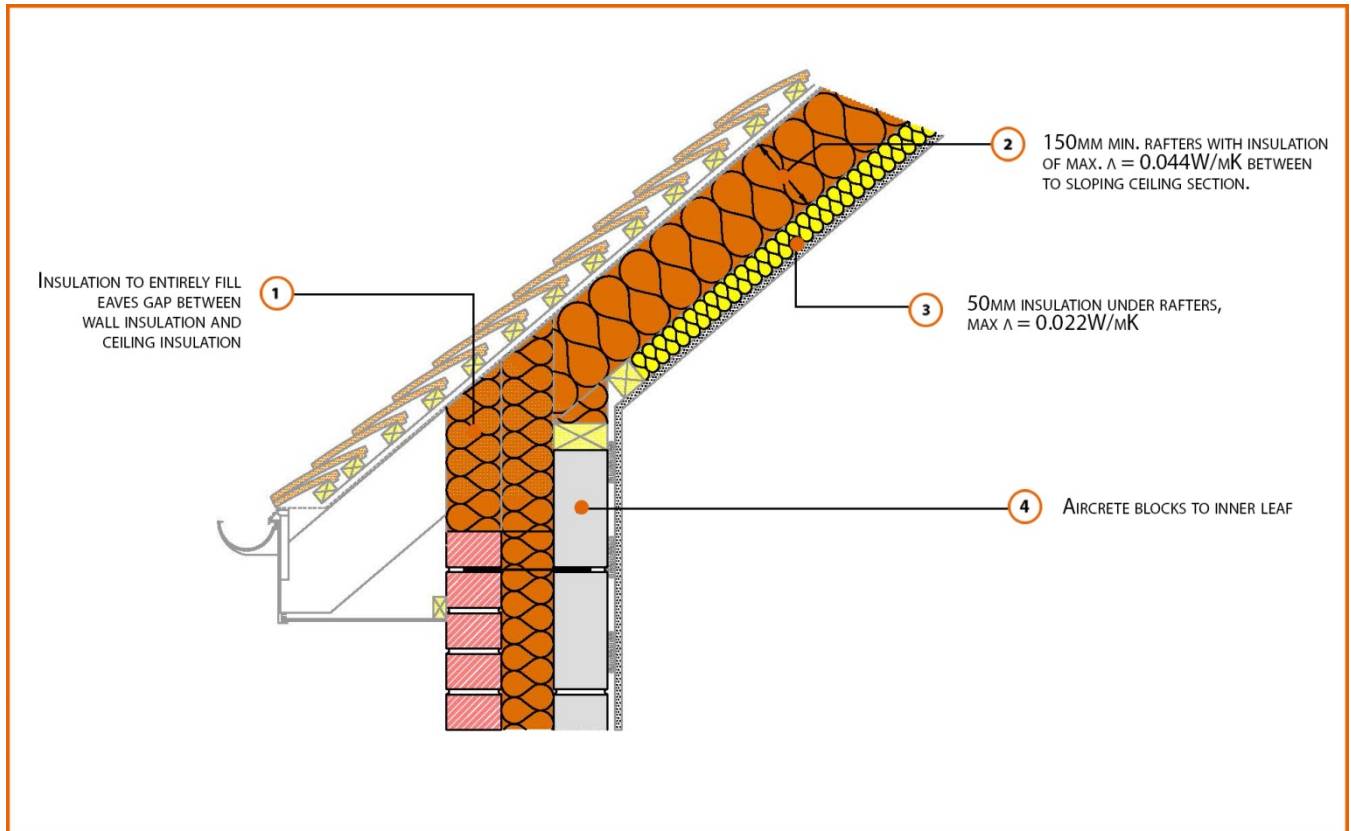


# LABC Registered Construction Details Masonry



Registration Number: E11MCFF5



## Build Up

External Masonry Cavity Wall

Masonry Outer Leaf ( $\lambda = 0.77$ )

100mm Aircrete Block Inner Leaf ( $\lambda = 0.15 \text{ W/mK}$ )

Full Fill Insulation

Pitched Roof Eaves

150mm insulation ( $0.044\text{W/mK}$ ) between rafters

50mm insulation ( $0.022\text{W/mK}$ ) beneath rafters

Unventilated Rafter Void



## Calculated $\psi$ -values

	Inner leaf blockwork
	Aircrete Block $\lambda = 0.15 \text{ W/mK}$
Cavity Insulation	$\psi$ -value $\text{W/mK}$
100mm $\lambda=0.037$	0.023
150mm $\lambda=0.037$	0.034
100mm $\lambda=0.032$	0.029
150mm $\lambda=0.032$	0.039

## Points to Watch

- Ensure cavities are kept clean of mortar snots and other debris during construction
- Ensure gap between wall plate and eaves ventilator is fully filled to maintain continuity of insulation through the 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.