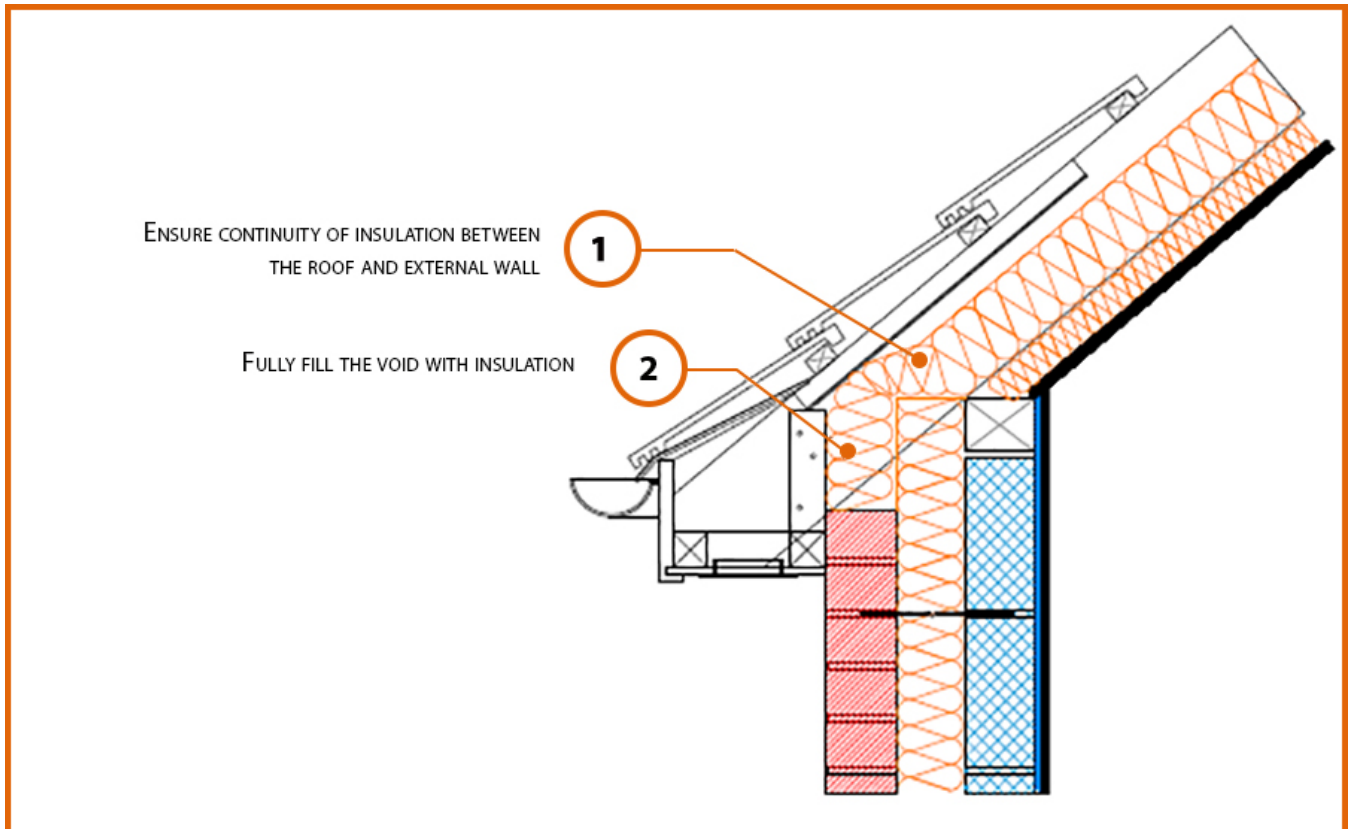


# LABC Registered Construction Details

## Masonry



Registration Number: E11MCFF3



### Build Up

External Masonry Cavity Wall

Masonry Outer Leaf ( $\lambda = 0.77$ )

Dense Concrete Block  $\lambda \leq 1.33$  W/mK

Full Fill Insulation

Pitched Roof Eaves

150mm insulation (0.022W/mK) between rafters

50mm insulation (0.022W/mK) beneath rafters



## Calculated $\psi$ -values

Cavity Insulation	Inner leaf blockwork
	Dense Concrete Block $\lambda \leq 1.33$ W/mK
	$\psi$ -value W/mK
100mm $\lambda=0.037$	-0.006
100mm $\lambda=0.032$	-0.002
150mm $\lambda=0.037$	0.005
150mm $\lambda=0.032$	0.008

## 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.