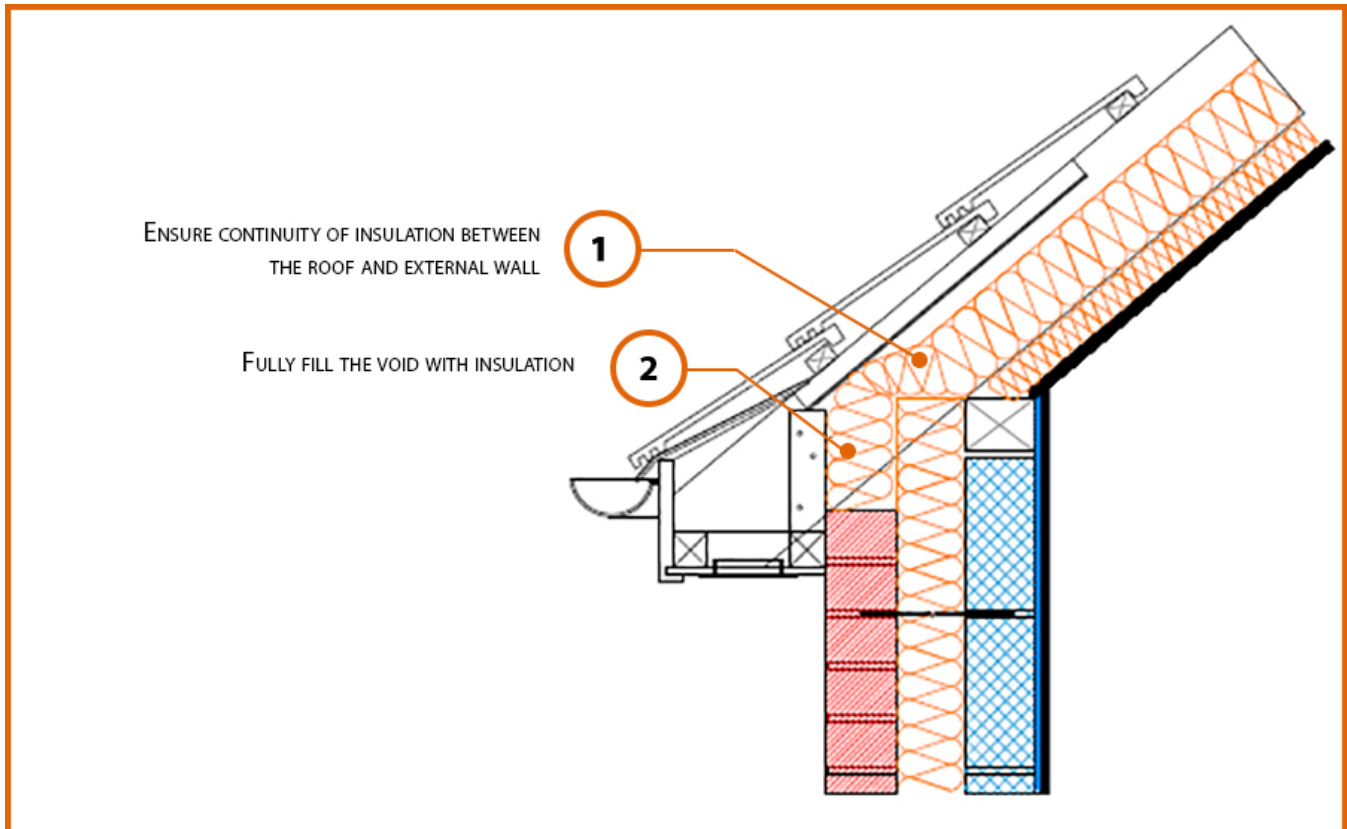


LABC Registered Construction Details Masonry



Registration Number: E11MCFF2



Build Up

External Masonry Cavity Wall

Masonry Outer Leaf ($\lambda = 0.77$)

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

Full Fill Insulation

Pitched Roof Eaves

150mm insulation (0.022W/mK) between rafters

50mm insulation (0.022W/mK) beneath rafters



Calculated ψ -values

	Inner leaf blockwork
	Lightweight Concrete Block $\lambda \leq 0.60 \text{ W/mK}$
Cavity Insulation	ψ -value W/mK
100mm $\lambda=0.037$	-0.007
100mm $\lambda=0.032$	-0.002
150mm $\lambda=0.037$	0.004
150mm $\lambda=0.032$	0.007

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.