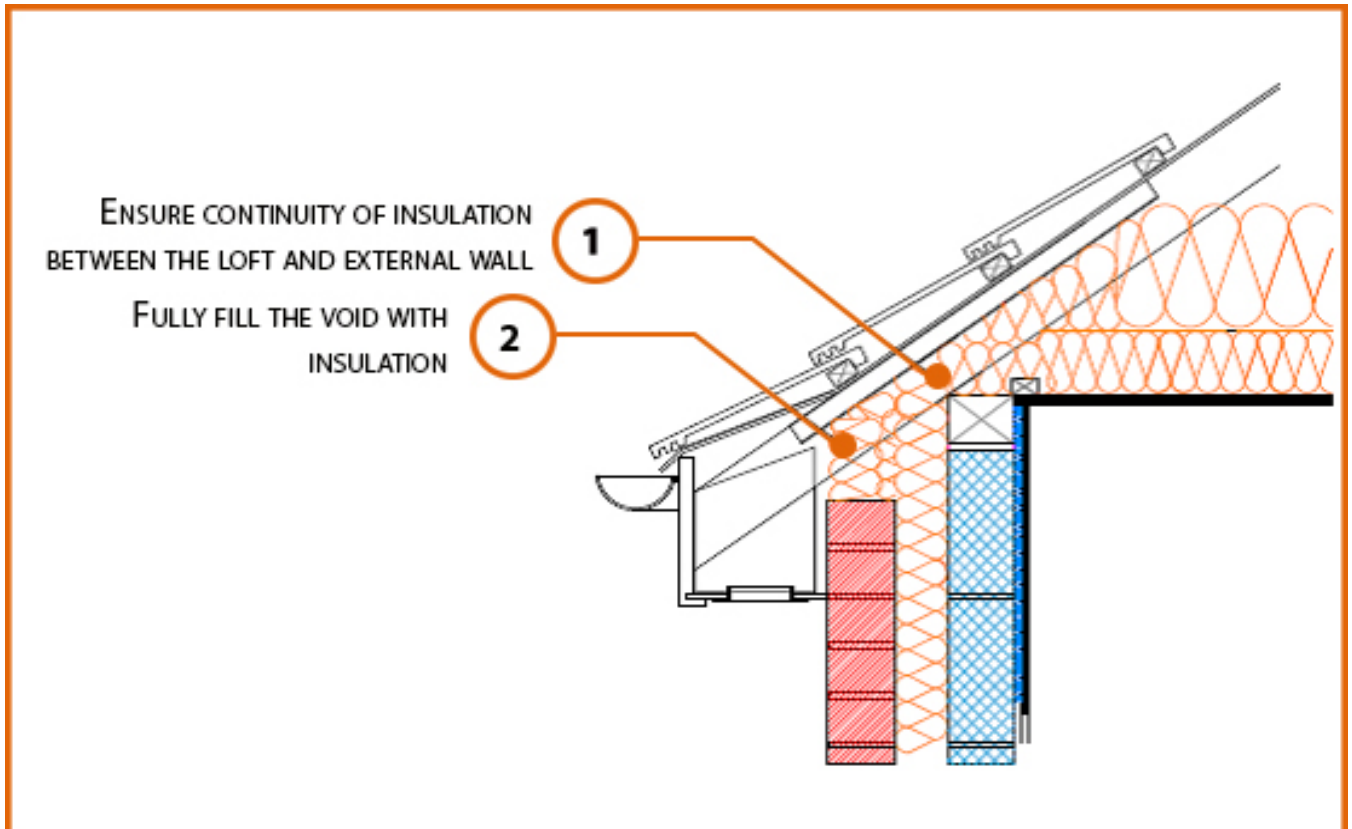


# LABC Registered Construction Details Masonry



Registration Number: E10MCFF2



## 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

400mm insulation (0.044W/mK) at Ceiling Level

Ventilated Loft



## Calculated $\psi$ -values

Cavity Insulation	Inner leaf blockwork
	Lightweight Concrete Block $\lambda \leq 0.60$ W/mK
	$\psi$ -value W/mK
100mm $\lambda=0.037$	0.106
100mm $\lambda=0.032$	0.113
150mm $\lambda=0.037$	0.117
150mm $\lambda=0.032$	0.122

## 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.
- Any vapour permeable roof underlay should be used in accordance with manufacturer's recommendations where it may be in contact with the insulation.
- The eaves insulation should not compromise the cross flow ventilation or free water drainage below timber battens.
- Fire resistance will also be required for room in roof situations.
- 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.