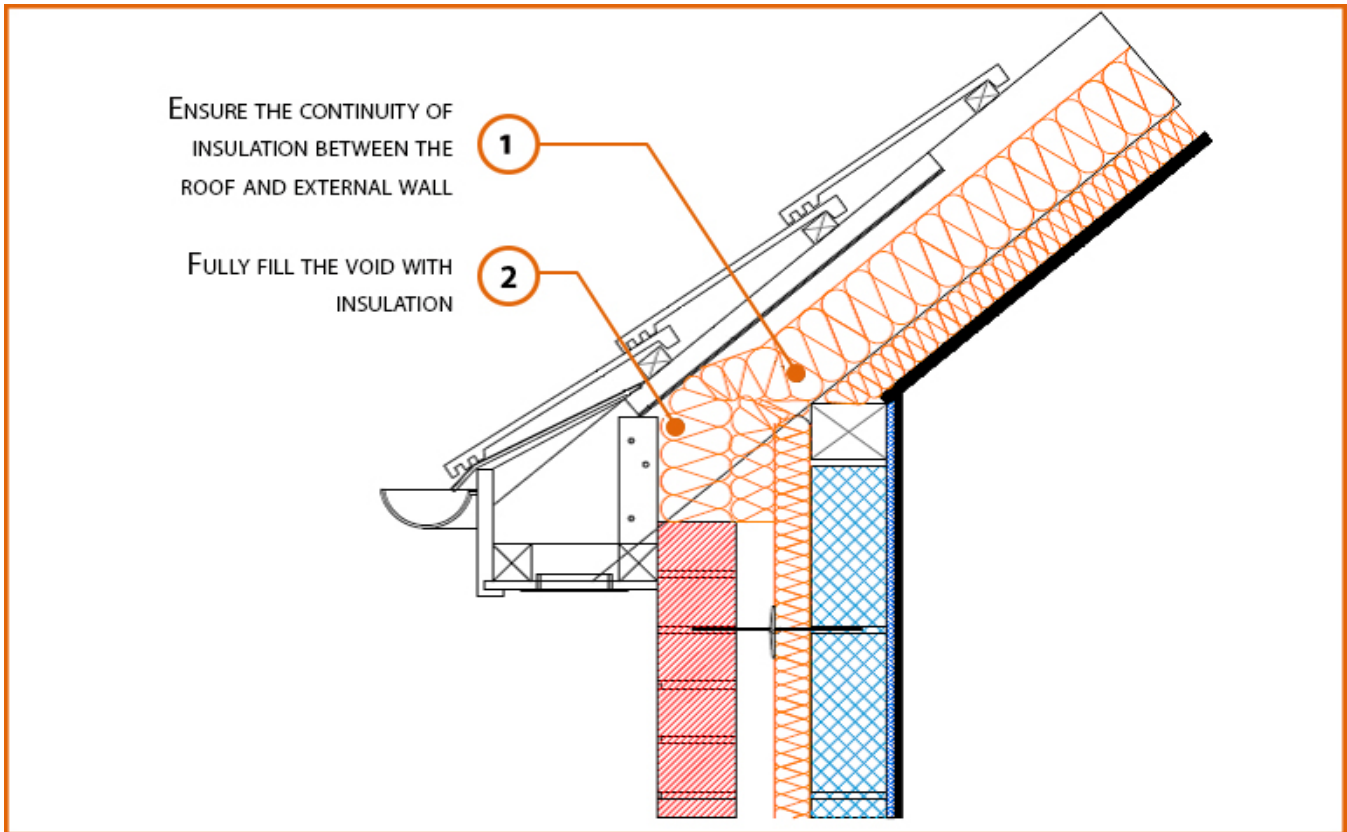


LABC Registered Construction Details Masonry



Registration Number: E11MCPF1



Build Up

External Masonry Cavity Wall

Masonry Outer Leaf ($\lambda = 0.77$)

Ultra Lightweight Concrete Block $\lambda \leq 0.28$ W/mK

Partial Fill Insulation

Pitched Roof Eaves

150mm insulation (0.022W/mK) between rafters

50mm insulation (0.022W/mK) beneath rafters



LABC Registered Construction Details

Masonry



Calculated ψ -values

	Inner leaf blockwork
	Ultra Lightweight Concrete Block $\lambda \leq 0.28$ W/mK
Cavity Insulation	ψ -value W/mK
50mm $\lambda=0.022$	-0.008
100mm $\lambda=0.022$	-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. For partial fill, compressible insulation should be tucked into the head of the cavity.
- 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.
- Cavity barriers may require an additional vertical DPC and/or cavity tray.
- Cavity must be closed at head of wall (insulation is often omitted here, or poorly fitted) Recommend calcium silicate or cement board closer so detail is not relying on compressed insulation
- Note that a cavity barrier should, wherever possible, be tightly fitted to a rigid construction and mechanically fixed in position. ADBV2 Para 9.14 identifies conditions where this may not be possible, for instance at a wall/roof junction with slates or tiles. In this case the junction should be fire-stopped.

