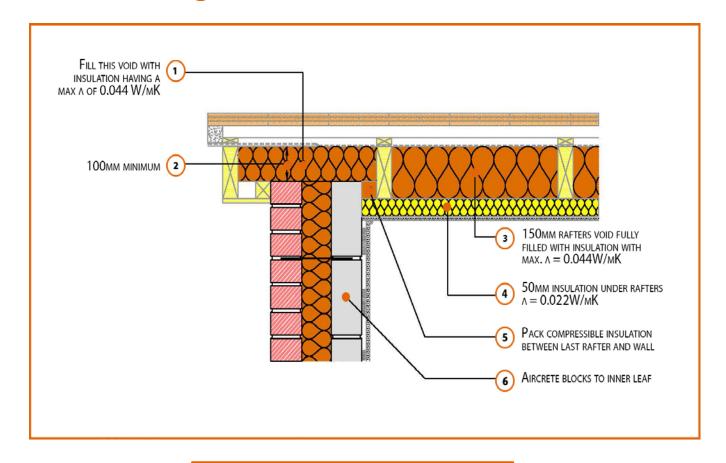
LABC Registered Construction Details Masonry



Registration Number: E13MCFF4



Build Up

External Masonry Cavity Wall

Masonry Outer Leaf ($\lambda = 0.77$)

100mm Aircrete Block Inner Leaf ($\lambda = 0.11 \text{ W/mK}$)

Full Fill Insulation

Pitched Roof Gable

150mm insulation (0.044W/mK) between rafters

50mm insulation (0.022W/mK) beneath rafters

Unventilated Rafter Void









LABC Registered Construction Details Masonry



Calculated ψ-values

	Inner leaf blockwork
	Aircrete Block λ = 0.11 W/mK
Cavity Insulation	ψ-value W/mK
100mm λ=0.037	0.047
150mm λ=0.037	0.047
100mm λ=0.032	0.046
150mm λ=0.032	0.047

Points to Watch

- Ensure cavities are kept clean of mortar snots and other debris during construction
- Any vapour permeable roof underlay should be used in accordance with manufacturer's recommendations where it may be in contact with the insulation.
- Consider whether a vapour control plasterboard or separate vapour control barrier is required.
- Fix ceiling plasterboard first and seal all gaps between ceiling and masonry then seal all penetrations through air barrier with flexible sealant.
- Ensure that the insulation between the rafters is tightly cut and packed and in contact with the under rafter insulation.







