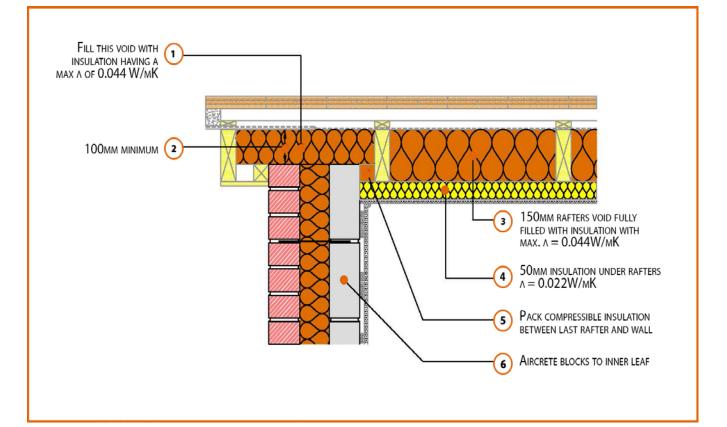
# LABC Registered Construction Details Masonry



# **Registration Number: E13MCFF5**



#### **Build Up**

External Masonry Cavity Wall

Masonry Outer Leaf ( $\lambda$  = 0.77)

100mm Aircrete Block Inner Leaf ( $\lambda$  = 0.15 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









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# **Calculated ψ-values**

	Inner leaf blockwork
	Aircrete Block $\lambda$ = 0.15 W/mK
<b>Cavity Insulation</b>	ψ-value W/mK
<b>100mm</b> λ=0.037	0.053
150mm λ=0.037	0.053
<b>100mm</b> λ=0.032	0.052
150mm λ=0.032	0.052

# **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.

