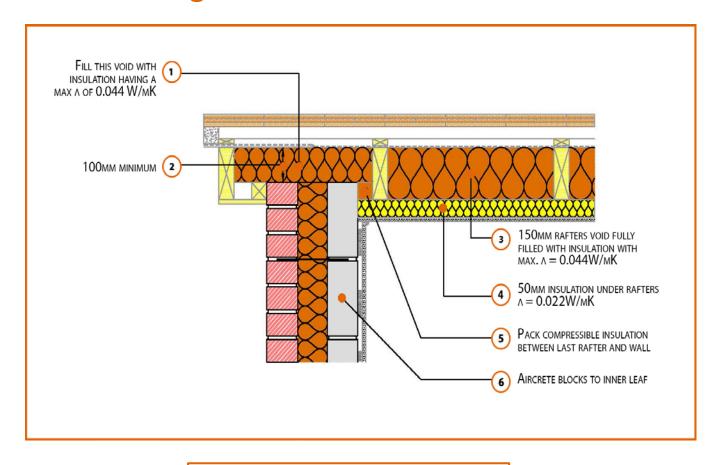
## LABC Registered Construction Details Masonry



## **Registration Number: E13MCFF6**



#### **Build Up**

**External Masonry Cavity Wall** 

Masonry Outer Leaf ( $\lambda = 0.77$ )

100mm Aircrete Block Inner Leaf ( $\lambda = 0.19 \text{ W/mK}$ )

**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 = 0.19 W/mK
<b>Cavity Insulation</b>	ψ-value W/mK
<b>100mm</b> λ=0.037	0.058
150mm λ=0.037	0.058
<b>100mm</b> λ=0.032	0.057
150mm λ=0.032	0.057

#### **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.







