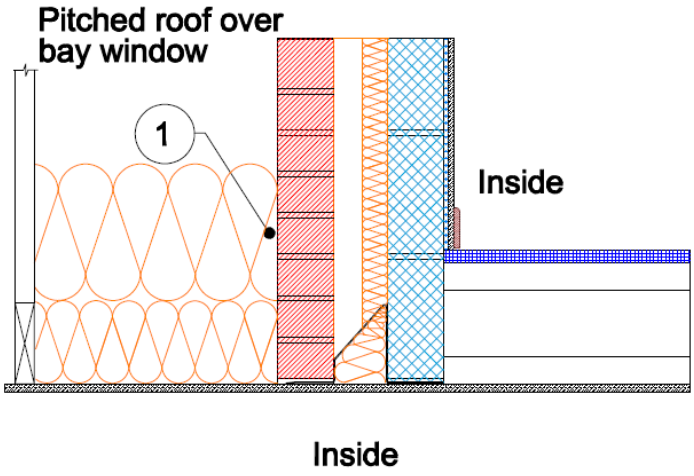
CONCRETE BLOCK ASSOCIATION	**Linear Thermal Transmittance (ψ-value)** **Temperature Factor (f-value)**	GCU Glasgow Caledonian University

Certificate No: CBA-E24-2-S-B	**Issued : January 2016**
Issued by Concrete Block Association	

Eaves (Insulation at ceiling level - inverted) Table K.1 Ref E24 Default ψ-value = 0.24 W/mK	Inner leaf	100 mm blockwork
	Cavity	Partial cavity fill with low-e facing and 50mm cavity
	Outer leaf	102 mm brick λ = 0.77
	Lintel	Folded steel with perforated base plate
	Roof	Pitched roof over bay window 150 mm of insulation with λ = 0.037 between 45mm wide joists. 250mm over joists

Key Point

1. Ensure the roof insulation is tightly butted to the wall



Calculations have been performed in accordance with:
BS EN ISO 10211:2007, BR497 and BS EN ISO 13370:2007

Calculation prepared by : Chris Sanders B.Sc, M.Sc. GCU, Cowcaddens Rd, Glasgow G4 0BA
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Calculated ψ-values and f-values for eaves (insulation at ceiling level – inverted) and cavity insulation as highlighted

	Inner leaf blockwork					
	Ultra lightweight		Lightweight		Dense	
Cavity Insulation	ψ-*value W/mK*	*f-value*	ψ-*value W/mK*	*f-value*	ψ-*value W/mK*	*f-value*
50mm λ=0.022	0.175	0.942	0.177	0.945	0.180	0.948
100mm λ=0.022	0.173	0.941	0.174	0.943	0.176	0.946

The f-value should be above 0.75 to minimise the risk of mould in dwellings.

On-site Checklist

1. Roof insulation is tightly butted to the wall ☐

Signed:

Site manager/supervisor……..

Site name……..

Plot Number……

Date……