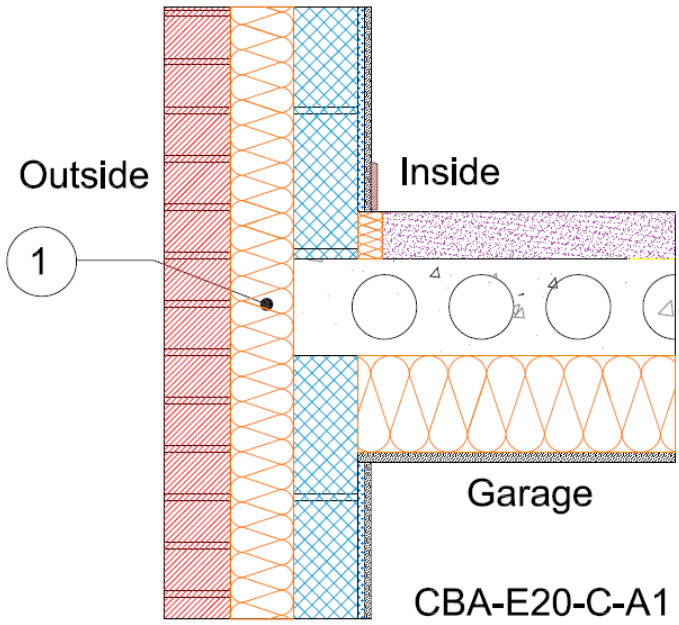
CONCRETE BLOCK ASSOCIATION	**Linear Thermal Transmittance (ψ-value)** **Temperature Factor (f-value)**	GCU Glasgow Caledonian University

Certificate No: CBA-E20-C-A1	**Issued : January 2016**
Issued by Concrete Block Association	

Exposed Floor (normal) Table K.1 Ref E20 Approved ψ-value = 0.32 W/mK	Inner leaf	100 mm blockwork
	Cavity	Full fill insulation
	Outer leaf	102 mm brick λ = 0.77
	Semi-exposed floor	Precast hollow core concrete floor over garage, with 150mm of insulation, λ = 0.037, below the hollow core deck

Key Point

1. Continue the wall insulation across the floor zone



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
For more information contact 0116 232 5165 (CBA).

Calculated ψ-values and f-values exposed floor (normal) 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*
100mm λ=0.037	0.159	0.896	0.220	0.879	0.317	0.856
100mm λ=0.032	0.152	0.900	0.215	0.882	0.314	0.860
150mm λ=0.037	0.143	0.906	0.208	0.888	0.311	0.865
150mm λ=0.032	0.138	0.909	0.204	0.891	0.310	0.867

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

On-site Checklist

1. Wall insulation continuous across the floor zone ☐

Signed:

Site manager/supervisor……..

Site name……..

Plot number……

Date……