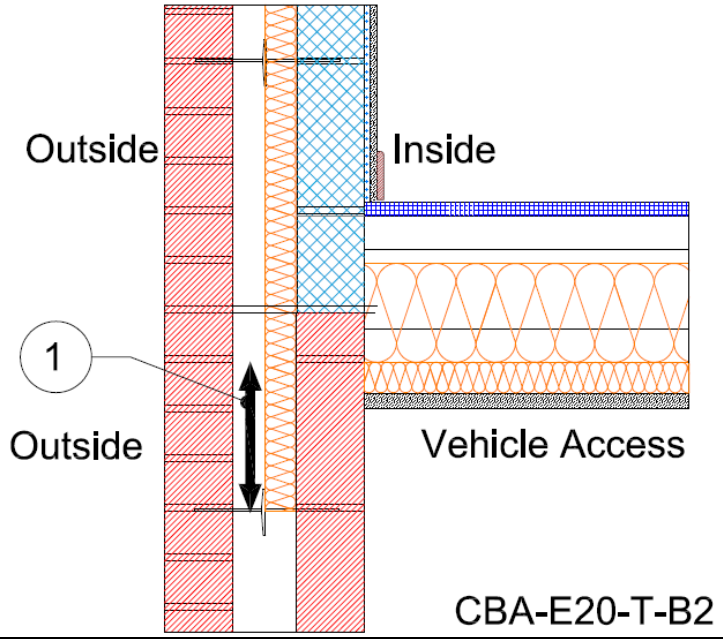
CONCRETE BLOCK ASSOCIATION	**Linear Thermal Transmittance (ψ-value)** **Temperature Factor (f-value)**	GCU Glasgow Caledonian University

Certificate No: CBA-E20-T-B2	**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	Partial cavity fill with low-e facing and 50mm cavity
	Outer leaf	102 mm brick λ = 0.77
	Exposed floor	Timber with 45mm wide joists on hangers with vehicle access below. 150mm of insulation, λ = 0.037 between the joists and 25mm of insulation, λ = 0.022 below the joists

Key Point

1. Continue the wall insulation at least 225 mm below the base of the floor



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*
50mm λ=0.022	0.100	0.837	0.142	0.830	0.189	0.837
100mm λ=0.022	0.107	0.844	0.150	0.840	0.200	0.848

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

On-site Checklist

1. Wall insulation continues at least 225 mm below the base of the floor ☐

Signed:

Site manager/supervisor……..

Site name……..

Plot number……

Date……