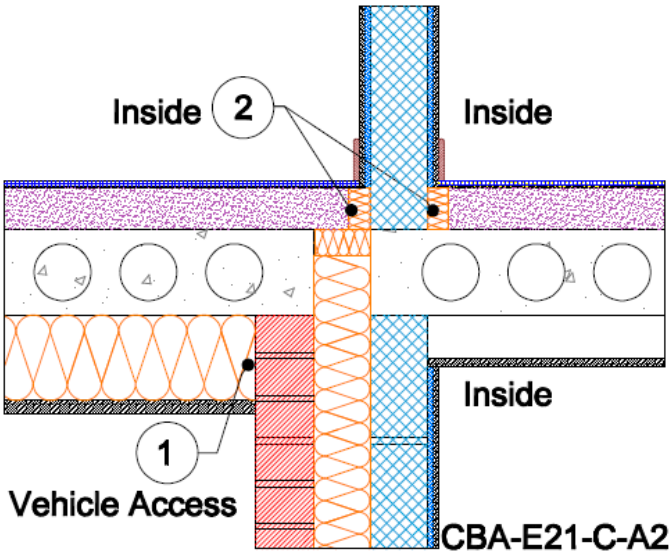
CONCRETE BLOCK ASSOCIATION	**Linear Thermal Transmittance (ψ-value)** **Temperature Factor (f-value)**	GCU Glasgow Caledonian University

Certificate No: CBA-E21-C-A2	**Issued : January 2016**
Issued by Concrete Block Association	

Exposed Floor (inverted) Table K.1 Ref E21 Approved ψ-value = 0.32 W/mK	Inner leaf	100 mm blockwork
	Cavity	Full fill insulation
	Outer leaf	102 mm brick λ = 0.77
	Exposed floor	Precast hollow core concrete floor with vehicle access below and 150mm of insulation, λ = 0.037 below the hollow core deck

Key Points

1. Ensure that the floor insulation is tightly butted to the wall
2. Install perimeter insulation with a resistance of at least 0.8 m^2K/W at the edges of the screed



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

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For more information contact 0116 232 5165 (CBA).

Calculated ψ-values and f-values for exposed floor (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*
100mm λ=0.037	0.166	0.921	0.165	0.921	0.165	0.921
100mm λ=0.032	0.168	0.920	0.167	0.921	0.167	0.921
150mm λ=0.037	0.163	0.922	0.162	0.922	0.163	0.922
150mm λ=0.032	0.164	0.922	0.163	0.922	0.164	0.922

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

On-site Checklist

1. Floor insulation is tightly butted to the wall ☐

2. Perimeter insulation with a resistance of at least 0.8 m^2K/W installed at the edges of the screed ☐

Signed:

Site manager/supervisor……..

Site name……..

Plot Number……

Date……