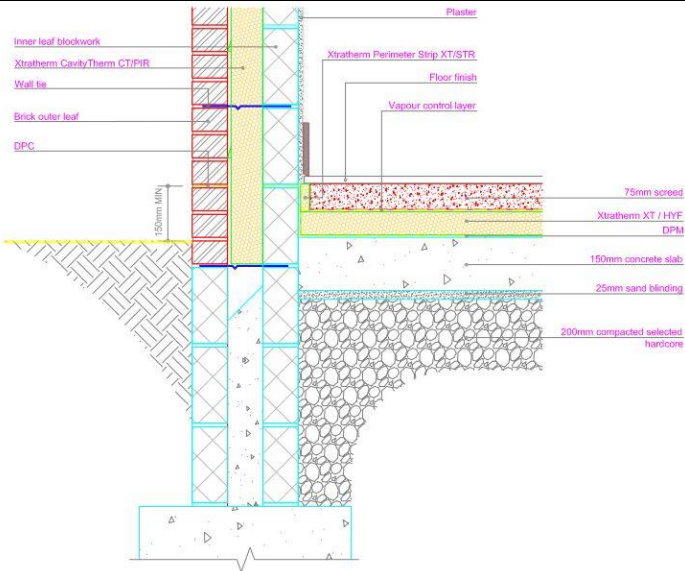
	Linear Thermal Transmittance (ψ-value) PSI Value Temperature Factor (f-value)	Technical Services from Xtratherm
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Certificate No: CBA-XT-CT-021	Issued : August 2014
Issued by Concrete Block Association	

Ground Floor, Insulation above slab – External wall Table K.1 Ref E5 Approved -value = 0.16 W/mK	Inner leaf	100 mm blockwork
	Cavity	Cavity Therm by Xtratherm, see tables for options
	Outer leaf	102 mm Brick = 0.77
	Floor Insulation	100mm . 150mm Xtratherm XT/HYF (Hyfloor)

Key Points <ol style="list-style-type: none"> The R value of the perimeter insulation should be a minimum of 0.80 m² k/W Ensure the floor insulation is tightly butted against the external wall Continue the cavity insulation a minimum 225mm below floor level 	
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Page 2 has **100mm & 150mm** Floor Insulation above the concrete slab

Page 3 has **the on-site checklist**

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

Calculation prepared by : Xtratherm UK Limited

Calculated ψ -values and f-values with Xtratherm **100mm** XT/HYF (Hyfloor - λ 0.022) floor insulation, 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 CT-PIR	0.038	0.834	0.064	0.817	0.158	0.777
125mm CT-PIR	0.036	0.844	0.064	0.830	0.154	0.783
150mm CT-PIR	0.035	0.853	0.064	0.839	0.154	0.800

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

Calculated ψ -values and f-values with Xtratherm **150mm** XT/HYF (Hyfloor - λ 0.022) floor insulation, 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 CT-PIR	0.049	0.835	0.073	0.818	0.161	0.778
125mm CT-PIR	0.047	0.846	0.072	0.832	0.160	0.785
150mm CT-PIR	0.046	0.854	0.072	0.841	0.160	0.802

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

	<p>Linear Thermal Transmittance (ψ-value) PSI Value</p> <p>Temperature Factor (f-value)</p>	<p>Technical Services from Xtratherm</p>
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On-site Checklist

- The R value of the perimeter insulation should be a minimum of 0.80m² k/W
- Floor insulation is tightly butted against the external wall
- Cavity insulation a minimum 225mm below floor level

Site manager/supervisor.....

Site name.....

Plot number.....

Date.....