CONCRETE BLOCK ASSOCIATION	**Linear Thermal Transmittance (ψ-value) PSI Value** **Temperature Factor (f-value)**	Technical Services from Xtratherm

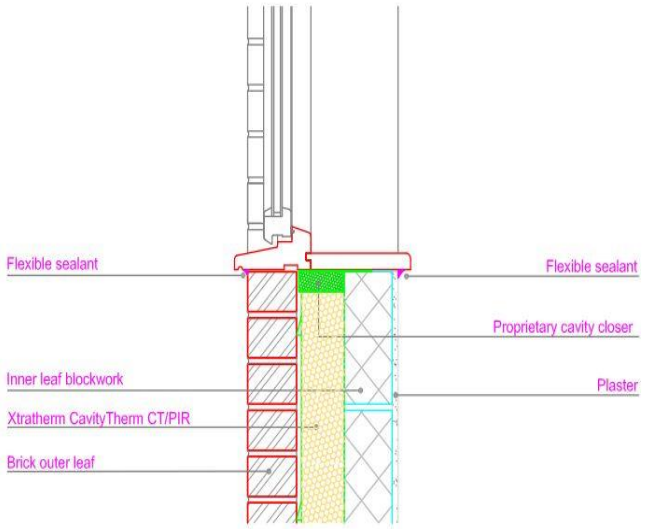
Certificate No: CBA-XT-CT-003	**Issued : August 2014**
Issued by Concrete Block Association	

Window sill Table K.1 Ref E3 Approved ɣ -value = 0.04 W/mK	Inner leaf	100 mm blockwork
	Cavity	CavityTherm by Xtratherm, see table for options
	Outer leaf	102 mm Brick ə= 0.77

Key Points

1. **Minimum frame overlap to be 30mm**

2. **Close the cavity with insulation with λ ≤ 0.026**



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

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Calculated ψ-values and f-values for window sill detail, 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	**0.032**	0.848	**0.032**	0.848	**0.032**	0.849
125mm CT-PIR	**0.034**	0.845	**0.034**	0.845	**0.034**	0.845
150mm CT-PIR	**0.037**	0.843	**0.036**	0.843	**0.036**	0.843

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

NOTE: *Because heat loss through windows and their frames is assessed separately, heat loss through the frame is not taken into account in the calculation of the ψ-value and f-value*.

On-site Checklist

- Frame overlap at least 30mm ☐
- Cavity closed with insulation with ə-Ò0.026 ☐

Site manager/supervisor……..

Site name……..

Plot number……

Date……