

**Certificate No: CBA-312B**

**Issued: December 2017**

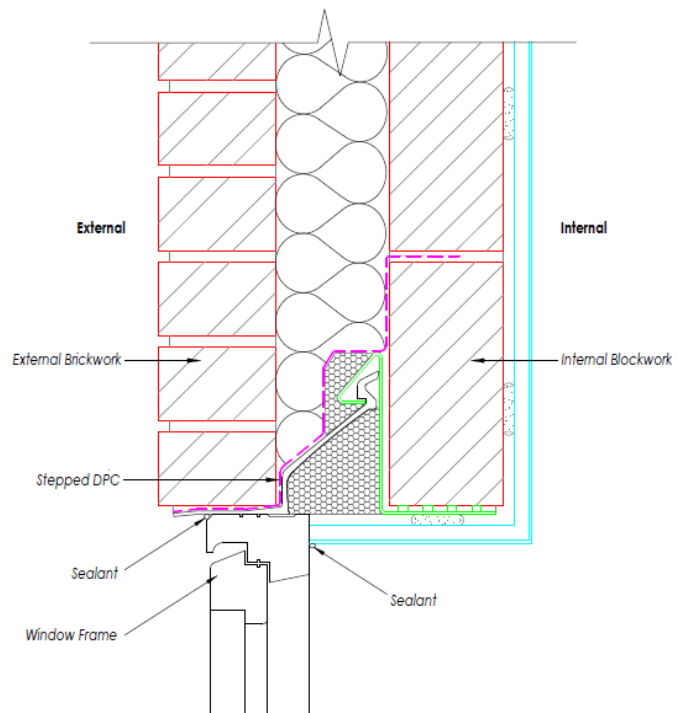
**Issued by Concrete Block Association**

**Insulated Steel  
Lintel**  
Table K.1 Ref E1  
Approved  $\psi$ -value  
= 0.50 W/mK

Inner leaf	100 mm Blockwork
Cavity	Full fill insulation, see table for options
Outer leaf	102 mm Brick $\lambda = 0.77$
Lintel	Keystone HiTherm Lintel (HTS 100 & 150)

**KEY Points**

Minimum Frame overlap of 30mm



Calculations based upon the HTS 100 & HTS 150 ONLY

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

Calculation prepared by: Barry Quinn, Keystone Lintels, 028 8676 2184  
For more information contact **0116 232 5165** (C.B.A)

**Calculated  $\psi$ -values and f-values for Keystone HTS 100 & HTS 150 lintel, and **cavity insulation** as highlighted**

	Inner leaf blockwork					
	Ultra lightweight		Lightweight		Dense	
<b>Cavity Insulation</b> ↓	$\psi$ -value W/mK	f-value	$\psi$ -value W/mK	f-value	$\psi$ -value W/mK	f-value
<b>100mm</b> $\lambda=0.037$	<b>0.030</b>	0.96	<b>0.028</b>	0.95	<b>0.027</b>	0.95
100mm $\lambda=0.032$	<b>0.030</b>	0.96	<b>0.028</b>	0.96	<b>0.028</b>	0.95
<b>150mm</b> $\lambda=0.037$	<b>0.050</b>	0.96	<b>0.049</b>	0.96	<b>0.049</b>	0.96
150mm $\lambda=0.032$	<b>0.050</b>	0.96	<b>0.049</b>	0.96	<b>0.049</b>	0.96

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  $\psi$ -value and f-value.*

### On-site Checklist

- Minimum frame overlap of 30mm



**Site manager/supervisor.....**

**Site name.....**

**Plot number.....**

**Date.....**