

Technical competency: The Psi value (Ψ) analysis indicated below has been undertaken by a BRE accredited competent person to EN 10211 2017 and BR497 (Second Edition). Members of the Unilin Insulation Technical team are qualified under the BBA Competency Scheme CS/1006 to produce thermal and condensation risk calculations

Certificate No	Date
UI-CWP-E2-WD-03 V2	30-Jun-23

General Construction Specification (Wall)

Plasterboard on dabs
Air layer & plaster adhesive
Concrete block
Unilin Insulation XT/CWP T&G
Residual cavity (50mm)
Brick
Keystone Hi-Therm lintel

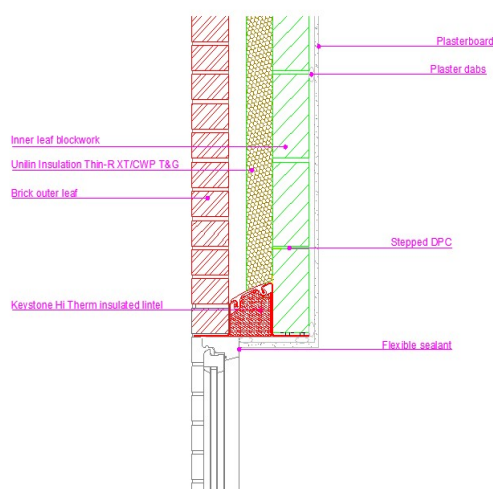
Table K1 reference

E2

U value range (Wall)

0.15 W/m²K - 0.21 W/m²K

Junction detail



Calculation prepared by Keystone Lintels Technical

General Construction Specification

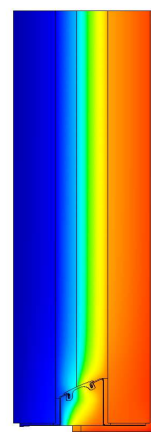
Description

Other lintels including steel lintels (Keystone Hi-Therm)

U value range

N/A

Thermal image



Notes

The U values indicated on this certificate are the actual U values for the proposed construction. The Psi values are calculated using the modelled U value in accordance with the guidelines set out in BR497 and ISO 10211. Contact Unilin Insulation Technical Support for further guidance

Ψ and f are only valid for the detail drawn and described above

Calculations have been carried out in accordance with the following standards and guidance documents were relevant

EN ISO 10211 2017	BR 497 (Second Edition)
EN ISO 13370 2017	BR 443 2019
EN ISO 6946 2017	BRE IP1/06

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Disclaimer: The calculations have been completed in accordance with guidance documents as indicated above by Keystone Lintels. Any change

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THIN-R PLUS

Linear Thermal Transmittance (ψ)
& Temperature Factor (f)

XT/CWP

XT/CWP T&G	75mm		100mm	
	ψ	f	ψ	f
Inner block				
0.11	0.050	0.95	0.050	0.96
0.15	0.049	0.95	0.049	0.96
0.19	0.048	0.95	0.049	0.96
0.31	0.046	0.96	0.048	0.96
0.57	0.045	0.96	0.047	0.96
1.13	0.045	0.96	0.047	0.96

- ψ Thermal transmittance value (W/m K)
- f Temperature factor

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