Technical Services from Unilin Insulation

UNILIN INSULATION

CAVITYTHERM

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

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

BBA CERTIFICATE CS/1006 U Value Competency Scheme

Certificate No	Date
UI-CTPIR-E7-IF-02 V1	03-Jan-23

Calculation prepared by
Unilin Insulation Technical Services

General Construction Specification (Wall)
Plasterboard on dabs
Air layer & plaster adhesive
Concrete block
Unilin Insulation CavityTherm CT/PIR
Proprietary fire barrier
Residual cavity (5mm)
Brick

General Construction Specification (Floor)
Timber flooring
Air layer between timber joists
Plasterboard

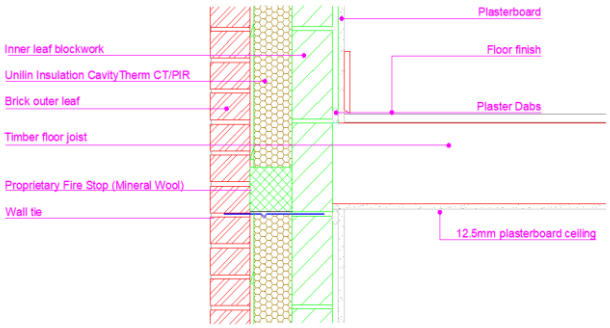
Table K1 reference
E7

Description
Intermediate floor with timber joists (between dwellings)

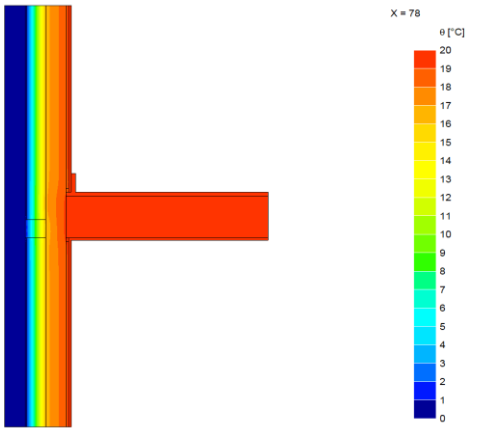
U value range (Wall)
0.12 W/m^{2}K - 0.21 W/m^{2}K

U value range
N/A

Junction detail



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

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

CavityTherm	100mm		110mm		125mm		150mm	
	Ψ	*f*	Ψ	*f*	Ψ	*f*	Ψ	*f*
Inner block								
0.11	0.028*	0.97	0.026*	0.98	0.023*	0.98	0.020*	0.98
0.15	0.028*	0.97	0.026*	0.97	0.024*	0.98	0.020*	0.98
0.19	0.029*	0.97	0.027*	0.97	0.024*	0.98	0.020*	0.98
0.31	0.030*	0.97	0.027*	0.97	0.024*	0.98	0.021*	0.98
0.57	0.031*	0.97	0.028*	0.97	0.025*	0.98	0.021*	0.98
1.13	0.031*	0.97	0.029*	0.97	0.026*	0.98	0.022*	0.98

Ψ Thermal transmittance value (W/m K)

f Temperature factor

*Psi (Ψ) applied to each dwelling

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