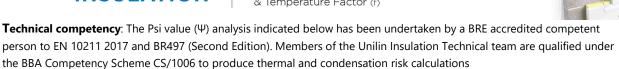


CAVITYTHERM

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





Certificate N	_	Data
L OFFITICATO IN	n	Date

UI-CTPIR-E13-RG-03 V2

24-Apr-23

General Construction Specification (Wall)

Plasterboard on dabs

Air layer & plaster adhesive

Concrete block

Unilin Insulation CavityTherm CT/PIR

Residual cavity (5mm)

Proprietary fire barrier

Brick

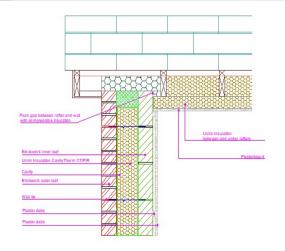
Table K1 reference

F13

U value range (Wall)

 $0.12 \text{ W/m}^2\text{K} - 0.21 \text{ W/m}^2\text{K}$

Junction detail



Calculation prepared by

Unilin Insulation Technical Services

General Construction Specification (Sloped roof)

Tile/Slate

Breathable membrane

Air layer between rafters

Unilin Insulation between rafters

Unilin Insulation below rafters

Vapour control layer

Plasterboard

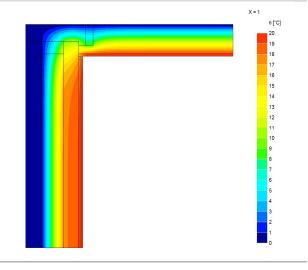
Description

Sloped roof and gable wall junction

U value range

0.13 W/m2K - 0.18 W/m2K

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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Disclaimer: The calculations have been completed in accordance with guidance documents as indicated above by Unilin Insulation. Any change to the materials specified would alter the results achieved and would invalidate the information contained herein. Specification and results should be verified before installation. To this extent the information and/or specification is to the best of our knowledge accurate, however Unilin Insulation specifically exclude any liability for errors, omissions or otherwise arising therefrom.



CAVITYTHERM

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

Sloped roof insulation Unilin Insulation between and under rafters 100mm/25mm

CavityTherm	100mm		110mm		125mm		150mm	
	Ψ	f	Ψ	f	Ψ	f	Ψ	f
Inner block								
0.11	0.068	0.91	0.069	0.91	0.069	0.91	0.070	0.91
0.15	0.071	0.90	0.071	0.90	0.072	0.91	0.073	0.91
0.19	0.073	0.90	0.073	0.91	0.074	0.91	0.075	0.91
0.31	0.077	0.90	0.078	0.91	0.078	0.91	0.079	0.91
0.57	0.082	0.91	0.082	0.91	0.082	0.91	0.083	0.92
1.13	0.087	0.91	0.087	0.92	0.087	0.92	0.087	0.92

Sloped roof insulation Unilin Insulation between and under rafters 125mm/25mm

CavityTherm	100mm		110mm		125mm		150mm	
	Ψ	f	Ψ	f	Ψ	f	Ψ	f
Inner block								
0.11	0.067	0.91	0.067	0.91	0.067	0.91	0.068	0.91
0.15	0.070	0.91	0.070	0.91	0.070	0.91	0.071	0.91
0.19	0.072	0.90	0.072	0.91	0.073	0.91	0.073	0.91
0.31	0.078	0.90	0.078	0.91	0.078	0.91	0.078	0.91
0.57	0.083	0.91	0.083	0.91	0.083	0.91	0.084	0.91
1.13	0.089	0.91	0.089	0.92	0.089	0.92	0.089	0.92

Sloped roof insulation Unilin Insulation between and under rafters 125mm/50mm

CavityTherm	100mm		110mm		125mm		150mm	
	Ψ	f	Ψ	f	Ψ	f	Ψ	f
Inner block								
0.11	0.060	0.91	0.060	0.91	0.060	0.92	0.060	0.92
0.15	0.063	0.91	0.063	0.91	0.063	0.91	0.064	0.92
0.19	0.066	0.91	0.066	0.91	0.066	0.91	0.066	0.91
0.31	0.072	0.91	0.072	0.91	0.072	0.91	0.072	0.91
0.57	0.079	0;91	0.079	0.91	0.079	0.91	0.079	0.92
1.13	0.087	0.91	0.087	0.91	0.086	0.92	0.086	0.92

Ψ Thermal transmittance value (W/m K)

f Temperature factor

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