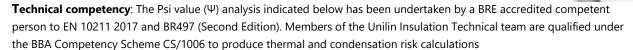




Linear Thermal Transmittance  $(\psi)$  & Temperature Factor (f)



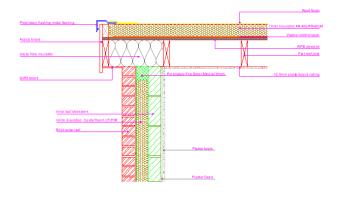


Certificate No	Date		
UI-CTPIR-E14-RF-02 V1		03-Jan-23	

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						
E14						
U value range (Wall)						

#### Junction detail

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

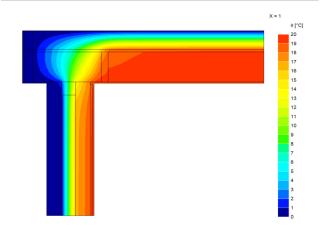


### Calculation prepared by Unilin Insulation Technical Services

<b>General Construction Specification (Sloped roof)</b>
Waterproofing membrane
Unilin Insulation FR-MG or FR-BGM
Vapour control layer
Plywood deck
Air layer between joists
Plasterboard

# Description Flat roof and wall junction U value range 0.14 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

 $\Psi$  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)

#### Flat roof insulation

Unilin Insulation FR-MG/FR-BGM 120mm

CavityTherm	100mm		110mm		125mm		150mm	
	Ψ	f	Ψ	f	Ψ	f	Ψ	f
Inner block								
0.11	0.046	0.95	0.046	0.95	0.044	0.96	0.043	0.96
0.15	0.047	0.95	0.046	0.95	0.045	0.96	0.043	0.96
0.19	0.048	0.95	0.047	0.95	0.046	0.96	0.044	0.96
0.31	0.049	0.95	0.048	0.95	0.047	0.96	0.045	0.96
0.57	0.051	0.95	0.050	0.95	0.048	0.96	0.046	0.96
1.13	0.052	0.95	0.051	0.95	0.049	0.96	0.047	0.96

Flat roof insulation Unilin Insulation FR-MG/FR-BGM 140mm

CavityTherm	100mm		110mm		125mm		150mm	
	Ψ	f	Ψ	f	Ψ	f	Ψ	f
Inner block								
0.11	0.047	0.95	0.046	0.96	0.045	0.96	0.043	0.96
0.15	0.047	0.95	0.047	0.95	0.045	0.96	0.044	0.96
0.19	0.048	0.95	0.047	0.95	0.046	0.96	0.044	0.96
0.31	0.050	0.95	0.049	0.95	0.047	0.96	0.045	0.96
0.57	0.051	0.95	0.050	0.95	0.048	0.96	0.046	0.96
1.13	0.052	0.95	0.051	0.96	0.049	0.96	0.047	0.96

#### Flat roof insulation Unilin Insulation FR-MG/FR-BGM 160mm

CavityTherm	100mm		110mm		125mm		150mm	
	Ψ	f	Ψ	f	Ψ	f	Ψ	f
Inner block								
0.11	0.047	0.95	0.046	0.96	0.045	0.96	0.043	0.96
0.15	0.048	0.95	0.047	0.96	0.046	0.96	0.044	0.96
0.19	0.048	0.95	0.047	0.96	0.046	0.96	0.044	0.96
0.31	0.050	0.95	0.049	0.95	0.047	0.96	0.045	0.96
0.57	0.051	0.95	0.050	0.95	0.048	0.96	0.046	0.96
1.13	0.052	0.95	0.051	0.96	0.049	0.96	0.047	0.96

Ψ Thermal transmittance value (W/m K)

f Temperature factor

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