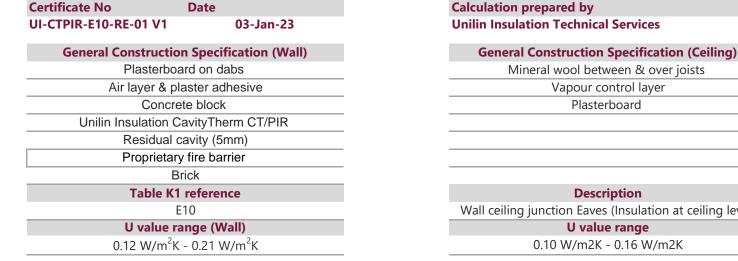


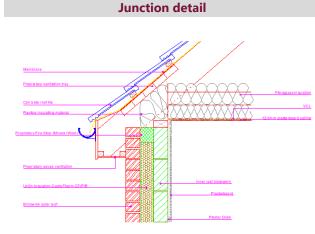
## AVITYTH

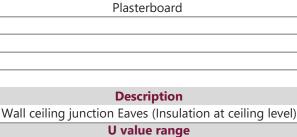
Linear Thermal Transmittance (4) & Temperature Factor (f)

**Technical competency**: The Psi value ( $\Psi$ ) 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

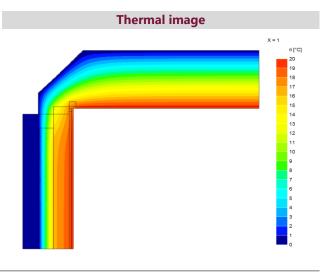








0.10 W/m2K - 0.16 W/m2K



## 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** 

## **Unilin Insulation UK Ltd**

Park Road	
Holmewood	<b>t.</b> 0371 2221055
Chesterfield	<b>f.</b> 0371 2221044
Derbyshire	e. info.ui@unilin.com
S42 5UY	www.unilininsulation.co.uk

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.



Ceiling



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



Mineral wool (0.040 W/m K) 300mm

CavityTherm	100mm		110mm		125mm		150mm	
	Ψ	f	Ψ	f	Ψ	f	Ψ	f
Inner block								
0.11	0.048	0.93	0.047	0.93	0.047	0.93	0.046	0.94
0.15	0.048	0.93	0.048	0.93	0.048	0.93	0.047	0.94
0.19	0.049	0.93	0.049	0.93	0.048	0.94	0.048	0.94
0.31	0.051	0.93	0.050	0.94	0.050	0.94	0.049	0.94
0.57	0.053	0.94	0.052	0.94	0.051	0.94	0.051	0.94
	0.054	0.94	0.054	0.94	0.053	0.94	0.052	0.94

Ceiling

Mineral wool (0.040 W/m K) 400mm

CavityTherm	100mm		110mm		125mm		150mm	
	Ψ	f	Ψ	f	Ψ	f	Ψ	f
Inner block								
0.11	0.052	0.93	0.051	0.93	0.051	0.93	0.051	0.94
0.15	0.053	0.93	0.052	0.93	0.052	0.94	0.051	0.94
0.19	0.053	0.93	0.053	0.93	0.052	0.94	0.052	0.94
0.31	0.055	0.94	0.054	0.94	0.054	0.94	0.053	0.94
0.57	0.057	0.94	0.056	0.94	0.055	0.94	0.055	0.94
1.13	0.059	0.94	0.058	0.94	0.057	0.94	0.056	0.94

Ceiling

Mineral wool (0.040 W/m K) 450mm

CavityTherm	100mm		110mm		125mm		150mm	
	Ψ	f	Ψ	f	Ψ	f	Ψ	f
Inner block								
0.11	0.054	0.93	0.054	0.93	0.053	0.93	0.053	0.94
0.15	0.055	0.93	0.055	0.93	0.054	0.94	0.054	0.94
0.19	0.056	0.93	0.055	0.93	0.055	0.94	0.054	0.94
0.31	0.057	0.94	0.057	0.94	0.056	0.94	0.056	0.94
0.57	0.059	0.94	0.058	0.94	0.058	0.94	0.057	0.94
	0.061	0.94	0.060	0.94	0.059	0.94	0.059	0.94

**Ψ** Thermal transmittance value (W/m K)

**f** Temperature factor

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S42 5UY	www.unilininsulation.co.uk
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