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

Technical Services from Unilin Insulation

UNILIN INSULATION

NSAI Agrément

Gary O'Sullivan
NSAI
Registration Number IAB/TM/14
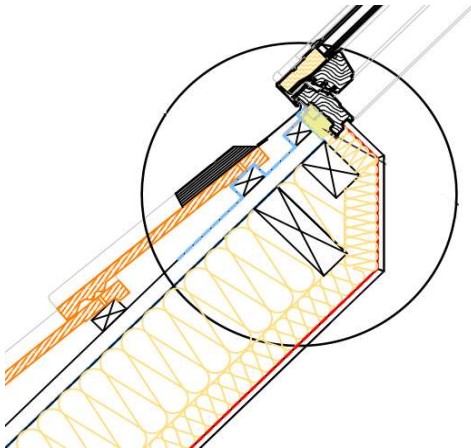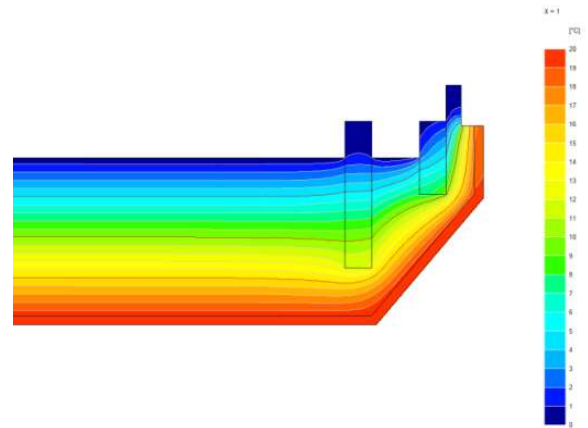NSAI Approved Thermal Modeller

Technical competency: The Psi value (Ψ) analysis indicated below has been undertaken by a NSAI accredited competent person to EN 10211 2017 and BR497 (Second Edition).

Certificate No	Date
UI-GEN-R2-Sill-01 V1	12-Apr-23

Certificate prepared by
Unilin Insulation Technical Services

General Construction Specification (Roof)
Tile/Slate
Breathable membrane
Air layer between rafters
Unilin Insulation between rafters
Unilin Insulation below rafters
Vapour control layer
Plasterboard

Table K1 reference
R2

U value range (Roof)
0.11 W/m^{2}K - 0.16 W/m^{2}K

Ψ (Linear Thermal Transmittance W/m/K)
0.060

Junction detail

General Construction Specification (Window)
Keylite window
Keylite Thermal Collar included in the model
20 x 40mm @ λ = 0.025 W/m.K

Description
Roof window

ƒ (Temperature Factor)
0.92

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 Ψ and ƒ 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

Unilin Insulation UK Ltd

Park Road
Holmewood
Chesterfield
Derbyshire
S42 5UY

t. 0371 2221055
f. 0371 2221044
e. info.ui@unilin.com
www.unilininsulation.co.uk

Disclaimer: The calculations have been completed in accordance with guidance documents as indicated above on Unilin Insulation's behalf. 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.