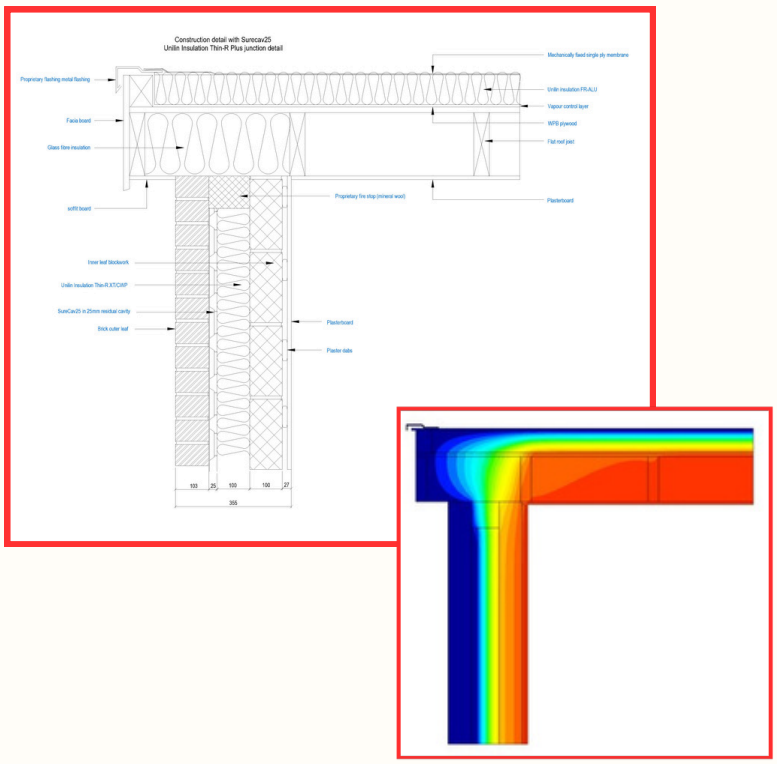
HOLBROOK LODGE, WINCANTON, SOMERSET, BA9 8BT

TEL:01963 34660

FOR MORE INFORMATION VISIT WWW.SURECAV.CO.UK

Flat roof detail with SureCav 25
Table K1 Ref:

E14



PSI VALUE COMPLIANCE NOTES

① Fully fill void between top of wall and underside of roof deck with a minimum R-value across the thickness of 5.00 m²K/W

② Ensure wall top is level and that wall insulation is taken up level with

③ Ensure partial fill insulation is secured firmly against inner leaf of cavity wall

④ Ensure full depth of over deck insulation extends to roof edge

GENERAL CONSTRUCTION SPECIFICATIONS WALL

Plaster on dabs

Air and plaster adhesive

Inner leaf block

Surecav cavity system

External Leaf

GENERAL CONSTRUCTION SPECIFICATIONS FLAT ROOF

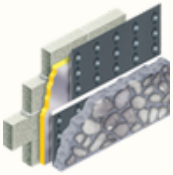
Waterproof membrane
100mm Insulation
vapour control layer
Plywood deck
Air layer between joists
Plasterboard

SURECAV CONSTRUCTION NOTES

SureCav is a BBA approved system, approved for use in all exposure zones and should be installed as per the BBA requirements and manufacturers guidance.

U VALUE

SureCav can achieve 0.18W/m2K for external wall



BBA CERTIFICATE CS/1002-1
U Value Competency Scheme

elmhurst energy APPROVED
Psi VALUE COMPETENCY SCHEME MEMBER

Calculated ψ (Psi) values for use in SAP Calculations

Internal leaf thermal conductivity (W/mK)

Insulation thermal conductivity (W/mK)	0.11	0.15	0.19	0.28	0.6	1.33
0.019	0.059	0.060	0.061	0.061	0.063	0.063
0.022	0.057	0.058	0.058	0.059	0.060	0.061

fRsi value 0.97-0.97 (values above 0.75 indicate low risk of condensation and mould)

SW Thermal Analysis
swthermalanalysis.co.uk
swthermalanalysis@gmail.com
Tel: 07403688901

Technical competencies		Signed
The Psi value analysis indicated above has been undertaken by SW Thermal Analysis, an Elmhurst Energy accredited competent person to BR497 (Second Edition). Note Any change to the materials specified would alter the result, therefore invalidating the psi value contained within this document.	Disclaimer These psi value calculations have been calculated on behalf of SureCav Ltd and performed in accordance with industry standards and best practices. However, compliance with local or national building regulations remains the responsibility of the client, designer, or assessor. The psi values provided are based on the specified materials, construction details, and assumed boundary conditions. While every effort has been made to ensure accuracy, SW Thermal Analysis do not accept liability for any errors or omissions that may arise from the use of this data.	Ref:SCMPF-E14-25-100