HOLBROOK LODGE, WINCANTON, SOMERSET, BA9 8BT

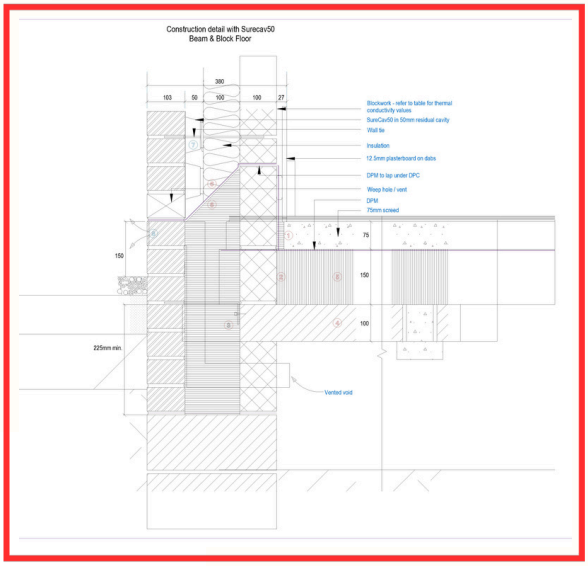
SURECAV

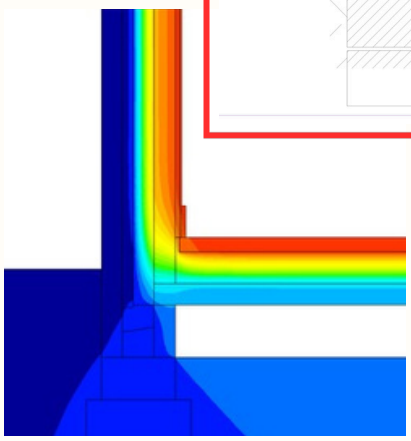
TEL:01963 34660

FOR MORE INFORMATION VISIT WWW.SURECAV.CO.UK

Ground floor (normal) Beam and Block detail with SureCav 50
Table K1 Ref:

E5





PSI VALUE COMPLIANCE NOTES

1. Minimum 20mm perimeter insulation with λ ≤ 0.022 W/mK
2. Ensure the floor insulation is tightly butted against the external wall.
3. Continue full fill rigid cavity insulation at least 225mm below the top of the beams. Insulation below DPC to provide thermal resistance equal to or better than main wall insulation.
4. 150mm Beam and Aircrete block infill
5. 150mm insulation (0.022 W/mK) above slab.
6. Ensure insulation is cut and fitted around the angle of the cavity tray. Insulation to be secured firmly against the inner leaf of the cavity wall.

GENERAL CONSTRUCTION SPECIFICATIONS WALL

Plaster on dabs
Air and plaster adhesive
Inner leaf block
Surecav cavity system
External Leaf

GENERAL CONSTRUCTION SPECIFICATIONS FLOOR

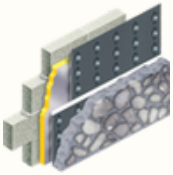
Screed
Insulation
Dense blocks between beams

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 RANGE

SureCav can achieve 0.18W/m2K



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	0.0366	0.044	0.507	0.064	0.0989	0.1485
0.022	0.0362	0.0435	0.0501	0.0628	0.0973	0.1464

fRsi value 0.84-0.9 (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-E5BB-50-100