

UVALUE CALCULATION

Users Ref: BDL001/SFUF/XPS

Issued on: 13.March.2009

Prop Type Ref:

Property:

Carbon Index: 0.0

SAP Rating: 0

Fuel Bill: £0.00

CO2 Emissions: 0.00 t/year

Energy used: 0.0 GJ per annum

Surveyor: 4944-0001, GRAHAM VARLEY, Tel: 01772 690360, Fax: 01772 690842

Address: BLACKPOLE, LEWTH LANE, WOODPLUMPTON, PRESTON LANCs PR40TD

Client: BDL001, Boulder Developments Ltd, Norwell, Nottinghamshire, NG23 6JN, Tel: 01636 636 348, Fax: 01636 832 909

Software

SAP version: 0.00 Regs Region: England and Wales, Construction Type: New Build

Calculation method: BS EN ISO 6946, BS EN ISO 13370, BS 5250

Building Elements:

Building Element Floor 1 - 8.5m x 8.5m

Floor Type: Slab on ground

Area = 72.25 m², Perimeter = 34.00 m, Wall thickness = 300 mm, Soil: Clay

Horizontal edge insulation: none

Vertical edge insulation: none

Layer	Description	Thickness	λ	R	Fraction
External surface				0.040	
Layer1	Concrete, dense Main construction	150 mm	2.000	0.075	100.00 %
Layer2	XPS - Extruded polystyrene Main construction Corrections - Air Gap: Level 0, Fasteners: None or plastic	50 mm	0.027	1.852	100.00 %
Layer3	SFUF Superfoil Main construction Corrections - Air Gap: Level 0, Fasteners: None or plastic	6 mm	0.008	0.800	100.00 %
Layer4	Screed Main construction	65 mm	1.150	0.057	100.00 %
Internal surface				0.170	
Total resistance: Upper limit = 2.783 m ² K/W Lower limit = 2.783 m ² K/W Average = 2.783 m ² K/W U-value (unrounded) = 0.0000 W/m ² K					

Slab on Ground floor corrections:

Horizontal delta Psi = -0.0010 Vertical delta Psi = 0.0000 B' = 4.2500 Delta U = -0.00049

Total thickness: 271 mm

U-value: 0.22 W/m²K