

# UVALUE CALCULATION

Users Ref: BDL001/SWALL/SF40

Issued on: 16.December.2008

Prop Type Ref:

Property:

SAP Rating: 0

Fuel Bill: £0

CO2 Emissions: 0.00 t/year

Energy used: 0.0 GJ per annum

Ene1: 0

ZC: 0.00

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 Version: EES SAP 2005.015.build.0019, April 2008, BRE SAP Worksheet 9.70, 9.80, 9.81

Regs Type: SAP 2001, 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 Wall 1 - solid wall

Layer	Description	Thickness	$\lambda$	R	Fraction
<b>External surface</b>				0.040	
<b>Layer1</b>	<b>Stone</b>				
	Main construction	215 mm	2.300	0.093	100.00 %
<b>Layer2</b>	<b>Standard cavity</b>				
	Main construction	25 mm	0.139	0.180	100.00 %
	Corrections - Cavity Unventilated, Emissivity: Normal				
<b>Layer3</b>	<b>Timber studs / Cavity</b>				
	Main construction	50 mm	0.000	0.000	100.00 %
<b>Layer4</b>	<b>SF40 Super Foil</b>				
	Main construction	60 mm	0.017	3.564	100.00 %
	Corrections - Air Gap: Level 0, Fasteners: None or plastic				
<b>Layer5</b>	<b>Cavity</b>				
	Main construction	25 mm	0.000	0.000	100.00 %
<b>Layer6</b>	<b>12.5mm Gyproc Wallboard</b>				
	Main construction	13 mm	0.190	0.066	100.00 %
	Corrections - Air Gap: Level 0, Fasteners: None or plastic				
<b>Internal surface</b>				0.130	
<b>Total resistance:</b> Upper limit = 4.073 m <sup>2</sup> K/W Lower limit = 4.073 m <sup>2</sup> K/W Average = 4.073 m <sup>2</sup> K/W					
U-value (unrounded) = 0.2455 W/m <sup>2</sup> K					

Unheated space: None

**Total thickness: 388 mm**

**U-value: 0.25 W/m<sup>2</sup>K**