



Calculated by:  
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U-value calculation by BRE U-value Calculator version 2.04b - Printed on 21 Apr 2016 at 11:05

**Element type: Wall - Masonry - partial cavity fill**

Data error(s): ?? Incomplete data, layer 8 ??

**Block Block Partial Fill Cavity Wall Vertical Tiling**

4834 Luminar Developments  
 Devon House  
 Horsham Road  
 South Holmwood RH5 4NG

Layer	d (mm)	$\lambda$ layer	$\lambda$ bridge	Fraction	R layer	R bridge	Description
					0.130		Rsi
1	13	0.400			0.032		Gypsum plaster (1000 kg/m <sup>3</sup> )
2	100	1.130			0.088		Concrete block (dense)
3	100	0.022			4.545		Celotex CW4000 CavWallPartFill
25-100mm							
4	50	R-value			0.180		Cavity unventilated
5	100	1.130			0.088		Concrete block (dense) protected
6	19	0.130			0.146		Timber battens
7	19	0.130			0.146		Timber battens
8		1.000					Clay tiles
					<u>0.040</u>		Rse
	<u>401 mm</u>	(total wall thickness)			<u>5.397</u>		

Total resistance: Upper limit: 5.397 Lower limit: 5.397 Ratio: 1.000 Average: 5.397 m<sup>2</sup>K/W

U-value (uncorrected) 0.185

U-value corrections

Air gaps in layer 4  $\Delta U = 0.000$  (Level 0)

Wall ties in layer 4  $\Delta U = 0.000$  (2.50 per m<sup>2</sup>, 80.0 mm<sup>2</sup> cross-section,  $\lambda = 17.0$ )

Total  $\Delta U$  0.000

U-value (corrected) 0.185

**U-value (rounded) 0.19 W/m<sup>2</sup>K**