## SAP 2012 Overheating Assessment

Calculated by Stroma FSAP 2012 program, produced and printed on 24 September 2021

## Property Details: 13049 - 2 Reduction of Heat Entering

Dwelling type: Located in: Region: Cross ventilation possible: Number of storeys: Front of dwelling faces: Overshading: Overhangs: Thermal mass parameter: Night ventilation: Blinds, curtains, shutters: Ventilation rate during hot weather (ach): Overheating Details:				Flat England Thames valley Yes 1 North More than average None Indicative Value Medium False Dark-coloured curtain or roller blind 0.8 (Windows slightly open (50 mm))				
Summer ventilation heat loss coefficient:				80.41				(P1)
Transmission heat loss coefficient: Summer heat loss coefficient:				99.9 180.35				(P2)
Overhangs:								
Orientation:	Ratio:		Z_overhangs:					
South (Rear Windows)	0		1					
East (E Windows)	0		1					
North (Front Windows)	0		1					
Solar shading:								
Orientation:	Z blind	ls:	Solar access:	Over	hangs:	Z summer:		
South (Rear Windows)	0.85		0.9	1		0.76		(P8)
East (E Windows) North (Front Windows)	0.85 0.85		0.9 0.9	1		0.76 0.76		(P8) (P8)
	0.00		0.7	1		0.70		( )
Solar gains:								
Solar gains:								
Orientation		Area	Flux	<b>g_</b>	FF	Shading	Gains	
<b>Orientation</b> South (Rear Windows)		13.51	112.21	0.63	0.7	0.76	460.27	
<b>Orientation</b> South (Rear Windows) East (E Windows)	0.9 x	13.51 6.85	112.21 117.51	0.63 0.63	0.7 0.7	0.76 0.76	460.27 244.4	
<b>Orientation</b> South (Rear Windows)	0.9 x	13.51	112.21	0.63	0.7	0.76	460.27 244.4 121.03	(P3/P4)
<b>Orientation</b> South (Rear Windows) East (E Windows) North (Front Windows)	0.9 x	13.51 6.85	112.21 117.51	0.63 0.63	0.7 0.7	0.76 0.76 0.76	460.27 244.4	(P3/P4)
<b>Orientation</b> South (Rear Windows) East (E Windows)	0.9 x	13.51 6.85	112.21 117.51	0.63 0.63	0.7 0.7	0.76 0.76 0.76	460.27 244.4 121.03	(P3/P4)
Orientation South (Rear Windows) East (E Windows) North (Front Windows) Internal gains Internal gains Total summer gains Summer gain/loss ratio Mean summer external	0.9 x 0.9 x tempera	13.51 6.85 4.91	112.21 117.51 81.19	0.63 0.63 0.63 <b>Ju</b> 544 14 7.8 16	0.7 0.7 0.7 9.57 17.06 6	0.76 0.76 0.76 <b>Total</b> <b>July</b> 526.84 1352.54 7.5 17.9	460.27 244.4 121.03 825.7 <b>Augus</b> 537.04 1304.58 7.23 17.8	t
Orientation South (Rear Windows) East (E Windows) North (Front Windows) Internal gains Internal gains Total summer gains Summer gain/loss ratio Mean summer external Thermal mass temperat	0.9 x 0.9 x tempera	13.51 6.85 4.91	112.21 117.51 81.19	0.63 0.63 0.63 <b>Ju</b> 549 14 7.8 16 0.2	0.7 0.7 0.7 0.7	0.76 0.76 0.76 <b>Total</b> <b>July</b> 526.84 1352.54 7.5 17.9 0.25	460.27 244.4 121.03 825.7 <b>Augus</b> 537.04 1304.58 7.23 17.8 0.25	t ∃ (P5) (P6)
Orientation South (Rear Windows) East (E Windows) North (Front Windows) Internal gains Internal gains Total summer gains Summer gain/loss ratio Mean summer external	0.9 x 0.9 x tempera ture incre	13.51 6.85 4.91	112.21 117.51 81.19 hames valley)	0.63 0.63 0.63 <b>Ju</b> 544 14 7.8 16	0.7 0.7 0.7 0.7 <b>ne</b> 9.57 17.06 6 5 11	0.76 0.76 0.76 <b>Total</b> <b>July</b> 526.84 1352.54 7.5 17.9	460.27 244.4 121.03 825.7 <b>Augus</b> 537.04 1304.58 7.23 17.8	t 3 <b>(P5)</b>