

The Stilwell Partnership				Page 1																																																																																																																																																																																																																			
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1440 min Winter	10.009	0.389		0.3 31.3	FLOOD																																																																																																																																																																																														
2160 min Winter	10.006	0.386		0.3 28.7	FLOOD																																																																																																																																																																																														
2880 min Winter	10.003	0.383		0.3 25.8	FLOOD																																																																																																																																																																																														
4320 min Winter	9.863	0.243		0.3 20.2	Flood Risk																																																																																																																																																																																														
5760 min Winter	9.807	0.187		0.3 15.2	Flood Risk																																																																																																																																																																																														
7200 min Winter	9.758	0.138		0.3 10.9	Flood Risk																																																																																																																																																																																														
8640 min Winter	9.719	0.099		0.3 7.3	Flood Risk																																																																																																																																																																																														
10080 min Winter	9.689	0.069		0.3 4.6	O K																																																																																																																																																																																														
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																
30 min Winter	90.705	0.0	41																																																																																																																																																																																																
60 min Winter	56.713	0.0	70																																																																																																																																																																																																
120 min Winter	34.246	4.4	128																																																																																																																																																																																																
180 min Winter	25.149	6.7	186																																																																																																																																																																																																
240 min Winter	20.078	8.1	244																																																																																																																																																																																																
360 min Winter	14.585	9.7	360																																																																																																																																																																																																
480 min Winter	11.622	10.6	476																																																																																																																																																																																																
600 min Winter	9.738	11.0	590																																																																																																																																																																																																
720 min Winter	8.424	11.1	702																																																																																																																																																																																																
960 min Winter	6.697	10.7	922																																																																																																																																																																																																
1440 min Winter	4.839	8.9	1204																																																																																																																																																																																																
2160 min Winter	3.490	6.2	1628																																																																																																																																																																																																
2880 min Winter	2.766	3.4	2080																																																																																																																																																																																																
4320 min Winter	1.989	0.0	2940																																																																																																																																																																																																
5760 min Winter	1.573	0.0	3744																																																																																																																																																																																																
7200 min Winter	1.311	0.0	4464																																																																																																																																																																																																
8640 min Winter	1.129	0.0	5104																																																																																																																																																																																																
10080 min Winter	0.994	0.0	5656																																																																																																																																																																																																
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The Stilwell Partnership		Page 3
Satelliet House 2 Nexus Park Ash Vale GU12 5QE	Kings Beach Hotel Porous Surfacing Roof Area Check	
Date 21/12/2018 10:18 File	Designed by A Johnson Checked by D Brooke	
Micro Drainage Source Control 2017.1.2		

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.400	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.052

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0 4	0.017	4 8	0.017	8 12	0.017

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The Stilwell Partnership		Page 4																								
Satelliet House 2 Nexus Park Ash Vale GU12 5QE	Kings Beach Hotel Porous Surfacing Roof Area Check																									
Date 21/12/2018 10:18 File	Designed by A Johnson Checked by D Brooke																									
Micro Drainage Source Control 2017.1.2																										
<u>Model Details</u> Storage is Online Cover Level (m) 10.000 <u>Porous Car Park Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00608</td> <td>Width (m)</td> <td>17.3</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>17.3</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>83.1</td> <td>Slope (1:X)</td> <td>500.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Invert Level (m)</td> <td>9.620</td> <td>Cap Volume Depth (m)</td> <td>0.250</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00608	Width (m)	17.3	Membrane Percolation (mm/hr)	1000	Length (m)	17.3	Max Percolation (l/s)	83.1	Slope (1:X)	500.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	9.620	Cap Volume Depth (m)	0.250
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