

Robert Clark Associates				Page 1																																																																																																																																																																																																									
Willow Cottage Herne Lane Rustington BN16 3EE		Ferringham Lane Area 2 Permeable paving design																																																																																																																																																																																																											
Date 7 April 2022 File Area 2 pp calcs.SRCX		Designed by RTFC Checked by																																																																																																																																																																																																											
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<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 66 minutes. <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Winter</td><td>5.677</td><td>0.047</td><td>0.6</td><td>2.3</td><td>O K</td></tr><tr><td>30 min Winter</td><td>5.692</td><td>0.062</td><td>0.6</td><td>3.2</td><td>O K</td></tr><tr><td>60 min Winter</td><td>5.703</td><td>0.073</td><td>0.6</td><td>3.8</td><td>O K</td></tr><tr><td>120 min Winter</td><td>5.708</td><td>0.078</td><td>0.6</td><td>4.1</td><td>O K</td></tr><tr><td>180 min Winter</td><td>5.707</td><td>0.077</td><td>0.6</td><td>4.0</td><td>O K</td></tr><tr><td>240 min Winter</td><td>5.704</td><td>0.074</td><td>0.6</td><td>3.8</td><td>O K</td></tr><tr><td>360 min Winter</td><td>5.695</td><td>0.065</td><td>0.6</td><td>3.3</td><td>O K</td></tr><tr><td>480 min 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Willow Cottage Herne Lane Rustington BN16 3EE	Ferringham Lane Area 2 Permeable paving design	
Date 7 April 2022 File Area 2 pp calcs.SRCX	Designed by RTFC Checked by	
Micro Drainage Source Control 2016.1		

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	10	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.750
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	No	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.025

Time (mins)	Area
From: To:	(ha)
0 4	0.025

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Model Details

Storage is Online Cover Level (m) 6.160

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.04936	Width (m)	9.0
Membrane Percolation (mm/hr)	1000	Length (m)	20.9
Max Percolation (l/s)	52.3	Slope (1:X)	1766.0
Safety Factor	4.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	5.630	Membrane Depth (m)	0

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