

Robert Clark Associates				Page 1																																																																																																																																																																																																									
Willow Cottage Herne Lane Rustington BN16 3EE		Ferringham Lane Area 4 Permeable paving design																																																																																																																																																																																																											
Date 7 April 2022 File Geocell calcs 100yr.SRCX		Designed by RTFC Checked by																																																																																																																																																																																																											
Micro Drainage		Source Control 2016.1																																																																																																																																																																																																											
<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 1399 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>5.022</td><td>0.122</td><td>0.0</td><td>0.7</td><td>O K</td></tr><tr><td>30 min Winter</td><td>5.064</td><td>0.164</td><td>0.0</td><td>0.9</td><td>O K</td></tr><tr><td>60 min Winter</td><td>5.109</td><td>0.209</td><td>0.0</td><td>1.2</td><td>O K</td></tr><tr><td>120 min Winter</td><td>5.156</td><td>0.256</td><td>0.0</td><td>1.5</td><td>O K</td></tr><tr><td>180 min Winter</td><td>5.182</td><td>0.282</td><td>0.0</td><td>1.6</td><td>O K</td></tr><tr><td>240 min Winter</td><td>5.198</td><td>0.298</td><td>0.0</td><td>1.7</td><td>O K</td></tr><tr><td>360 min Winter</td><td>5.220</td><td>0.320</td><td>0.0</td><td>1.8</td><td>O K</td></tr><tr><td>480 min 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Date 7 April 2022 File Geocell calcs 100yr.SRCX	Designed by RTFC Checked by	
Micro Drainage Source Control 2016.1		

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	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) 0.003

Time (mins)	Area
From: To:	(ha)
0 4	0.003

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Model Details

Storage is Online Cover Level (m) 5.800

Cellular Storage Structure

Invert Level (m) 4.900 Safety Factor 3.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.04936

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	6.0	6.0	0.500	0.0	10.0
0.400	6.0	10.0			

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