



Project: Site at The Trees, Orcop, Herefordshire for Rainwater Factors

Ref: Plot 3 first designed 27/07/2018

Designer: DS

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Catchment Details:

Buildings	100	m2 x 90 %
Dense surfacing		m2 x 100 %
Effective Area	90	m2

Storage Details:

Product	RainBloc	
Length	3 units =	3.6 m
Width	5 units =	3 m
Depth	1 unit =	0.42 m
Volume Ratio	95 %	

Rainfall Details - FSR Method:

Return Period	100 years
Climate Change Factor	10 %
r value	0.28
M5-60	19 mm

Outflow Details:

Infiltration rate	0.18 m/hr
Infiltration by BRE method	

Duration	Intensity		Required
	mm	mm/h	storage(m3)
30 min	28.7	63.2	2.596
45 min	34.2	50.2	3.013
60 min	38.4	42.3	3.304
2 hours	49.4	27.2	3.895
6 hours	68.7	12.6	3.811
24 hours	100.4	4.6	0.000

Results:

Outcome	Pass
Critical Storm Duration	3.25 hrs
Critical Rainfall Rate	19.5 mm/h
Hmax	0.397 m
Time to half empty	4.1 hrs
Volume Required	4.073

Tank Operation:

