

Client: CFA CIVILS Limited
 Project: 29 Maresfield Gardens, Camden, NW3 5SD
 Location: London
 Catchment: Rear roof + blue roof

Catchment Details:

Buildings	58 m ²	x 95 %
Dense surfacing	46 m ²	x 95 %
Effective Area	98.8 m ²	

Storage Details:

Length	46 m
Width	1 m
Depth	0.15 m
Porosity	95 %
Area Increase	0 %

Rainfall Details - FSR Method:

Return Period	100 years
Climate Change Factor	40 %
r value	0.44
M5-60	20.7 mm

Summer Storm Profile

Duration	Intensity		Required storage(m ³)
	mm	mm/h	
5 min	21.0	251.8	2.011
10 min	30.9	185.5	2.889
15 min	37.1	148.3	3.380
30 min	47.9	95.7	4.068
45 min	54.2	72.3	4.307
60 min	58.7	58.7	4.416
2 hours	69.7	34.8	4.493
6 hours	86.8	14.5	3.742
24 hours	112.1	4.7	1.889

Outflow Details:

Infiltration rate	0 m/hr
Attenuation Control	Orifice Plate
Control Diameter	33 mm
Discharge rate	0.7 l/s

Result:

Outcome	Pass
Critical Storm Duration	1.68 hrs
Hmax	0.103 m
Required Volume	4.506 m ³
Time to half empty	53.6 min