

STORM WATER - PROPOSED SITE RUN-OFFS

(Using guidance from BRE 365)

Job No.: 405000
Job Name: 5-7 Station Road

Total site Area		1895	m2
Surface	Area (m2)	Run-off coeff	Eff Area (m2)
Building Island tyres	330	1.00	330
Cycle store	76	1.00	76
Bin store	37	1.00	37
Soft landscaping	139	1.00	139
Hardstanding	410	1.00	410
New flats roof	447	1.00	447
Permeable paving	456	0.50	228
Sum	1895		

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1 in 100 year event + 40% climate change									
Eff Area		1667	m2						
100 year return period + climate change					Storm duration (Min.)	T	N	r	Climate allowance 40%
R5		0.03242	m		5	0.08 hrs	0.083333	0.1	0.023154
R10		0.04017	m		10	0.17 hrs	0.166667	0.1	0.028694
R15		0.04546	m		15	0.25 hrs	0.25	0.1	0.032473
R30		0.05603	m		30	0.50 hrs	0.5	0.1	0.040022
R60		0.06888	m		60	1.00 hrs	1	0.1	0.0492
R120		0.08450	m		120	2.00 hrs	2	0.1	0.060356
R240		0.10348	m		240	4.00 hrs	4	0.1	0.073917
R360		0.11643	m		360	6.00 hrs	6	0.1	0.083168
Run-off from site during 6 Hour event									
Volume of total run-off					Flow in Ltrs / second during event				
I360		194.097	m3		Flow	8.986	L/s		

1 in 1 year event									
Eff Area		1667	m2						
1 year return period + climate change					Storm duration (Min.)	T	N	r	Climate allowance 40%
R5		0.01416	m		5	0.08 hrs	0.083333	1	0.010892
R10		0.01792	m		10	0.17 hrs	0.166667	1	0.013788
R15		0.02049	m		15	0.25 hrs	0.25	1	0.015764
R30		0.02562	m		30	0.50 hrs	0.5	1	0.01971
R60		0.03186	m		60	1.00 hrs	1	1	0.024508
R120		0.03944	m		120	2.00 hrs	2	1	0.03034
R240		0.04866	m		240	4.00 hrs	4	1	0.037429
R360		0.05494	m		360	6.00 hrs	6	1	0.042265
Run-off from site during 6 Hour event									
Volume of total run-off					Flow in Ltrs / second during event				
I360		91.593	m3		Flow	4.240	L/s		