

Structural Engineers

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Job number	Sheet	date
12046	01	28/02/25

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Practice

Drainage Area Design	Return Period 100 Years	+ 45%
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Location England and Wales

Ratio of 60 minute to 2 day rainfalls of 5 year return period (BRE digest 365-fig 1) $r = 0.35$

Impermeable area (sq.m.)	99
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Duration	M5 rainfalls	Growth factor Z2	Return Period rainfall	Inflow m3	Inflow l/s
5mins	7.10	1.86	13.22	1.90	6.33
10mins	10.10	1.93	19.45	2.79	4.65
15mins	12.30	1.96	24.08	3.46	3.84
30mins	15.70	2.00	31.37	4.50	2.50
1 hour	20.00	2.03	40.60	5.83	1.62
2 hour	24.40	2.01	49.04	7.04	0.98
4 hour	29.90	1.97	58.90	8.46	0.59
6 hour	33.80	1.94	65.50	9.40	0.44
10 hour	38.90	1.90	73.83	10.60	0.29
24 hour	49.60	1.81	89.78	12.89	0.15