

TITLE Housing Development, Tyrrels Land, Portlaoise	Job Reference 23KK001 Drawing No. C-015	Revision No. P1 Status Stage 1	Calculations by TD Checked by NP	Date 26.02.24.
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Site - Catchment 2	Area (m ²)	Area (hectares)	Percentage Drained
Total Site Area	4500	0.4500	--
Roof Area	840	0.0840	80%
Road Area	440	0.0440	80%
Road Parking Area	0	0.0000	80%
In-Curtlidge Parking Area	325	0.0325	40%
Open Area	2895	0.2895	0%

Site Rev C 09/11/23

Allowable Outflow2Litres/second

Rainfall Intensity Records for
Tyrrels Land, Portlaoise

Duration	Rainfall	Intensity	Rainfall	Proposed Runoff		Total Runoff	Allowable Outflow	Storage Req'd
(min)	(mm)	(mm/hr)	(m ³ /ha)	(m ³)		(m ³)	(m ³)	(m ³)
15	20.2	80.80	202	23		23	1	23
30	24.9	49.80	249	29		29	2	27
60	30.7	30.70	307	35		35	3	32
120	37.8	18.90	378	44		44	6	37
240	46.5	11.63	465	54		54	13	41
360	52.5	8.75	525	61		61	19	41
720	64.7	5.39	647	75		75	39	36
1440	79.7	3.32	797	92		92	78	14
2880	89.6	1.87	896	103		103	156	-52

Met Eireann 14/04/23

Maximum Storage
Volume Required53m³(Including a 30% Provision for Climate Change)