

Saskatchewan

Table 1: Trench Sizing for Infiltrator Quick4 Chambers

DATE: 10/09/14

Perc Rate (min/in)	Loading Rate (GPD/Sq. ft.)	Number of Chambers in Aggregate-Free Trench Systems (See Notes Below)									
		300 GPD Design Flow 2 Bedrooms		337.5 GPD Design Flow 3 Bedrooms		450 GPD Design Flow 4 Bedrooms		562.5 GPD Design Flow 5 Bedrooms		112.5 GPD Design Flow Additional Bedrooms	
		Q4 EQ36 2.20 SF/LF	Q4 Std. & Q4 HC 3.30 SF/LF	Q4 EQ36 2.20 SF/LF	Q4 Std. & Q4 HC 3.30 SF/LF	Q4 EQ36 2.20 SF/LF	Q4 Std. & Q4 HC 3.30 SF/LF	Q4 EQ36 2.20 SF/LF	Q4 Std. & Q4 HC 3.30 SF/LF	Q4 EQ36 2.20 SF/LF	Q4 Std. & Q4 HC 3.30 SF/LF
5	0.75	46	31	52	35	69	46	86	57	18	12
6	0.69	50	33	56	38	75	50	93	62	19	13
7	0.64	54	36	60	40	80	54	100	67	20	14
8	0.59	58	39	66	44	87	58	109	73	22	15
9	0.56	61	41	69	46	92	61	115	77	23	16
10	0.53	65	43	73	49	97	65	121	81	25	17
11	0.51	67	45	76	51	101	67	126	84	26	17
12	0.49	70	47	79	53	105	70	131	87	27	18
13	0.47	73	49	82	55	109	73	137	91	28	19
14	0.45	76	51	86	57	114	76	143	95	29	19
15	0.43	80	53	90	60	119	80	149	100	30	20
16	0.42	82	55	92	61	122	82	153	102	31	21
17	0.41	84	56	94	63	125	84	156	104	32	21
18	0.4	86	57	96	64	128	86	160	107	32	22
19	0.39	88	59	99	66	132	88	164	110	33	22
20	0.38	90	60	101	68	135	90	169	113	34	23
21	0.37	93	62	104	70	139	93	173	116	35	24
22	0.36	95	64	107	72	143	95	178	119	36	24
23	0.35	98	65	110	74	147	98	183	122	37	25
24-25	0.34	101	67	113	76	151	101	189	126	38	26
26	0.33	104	69	117	78	155	104	194	130	39	26
27-28	0.32	107	72	120	80	160	107	200	134	40	27
29-30	0.31	110	74	124	83	165	110	207	138	42	28
31-32	0.3	114	76	128	86	171	114	214	143	43	29
33-34	0.29	118	79	133	89	177	118	221	147	45	30
35-37	0.28	122	82	137	92	183	122	229	153	46	31
38-40	0.27	127	85	143	95	190	127	237	158	48	32
41-43	0.26	132	88	148	99	197	132	246	164	50	33
44-47	0.25	137	91	154	103	205	137	256	171	52	35
48-51	0.24	143	95	160	107	214	143	267	178	54	36
52-55	0.23	149	99	167	112	223	149	278	186	56	38
56-61	0.22	155	104	175	117	233	155	291	194	59	39
62-67	0.21	163	109	183	122	244	163	305	203	61	41
68-74	0.2	171	114	192	128	256	171	320	214	64	43
75-82	0.19	180	120	202	135	270	180	337	225	68	45
83-92	0.18	190	127	214	143	285	190	356	237	72	48
93-103	0.17	201	134	226	151	301	201	377	251	76	51
104-117	0.16	214	143	240	160	320	214	400	267	80	54
118-120	0.15	228	152	256	171	341	228	427	285	86	57

1. Sizing based upon Saskatchewan Wastewater Disposal Guide 2009. Lateral trench bottom credited width is 1.1 x width of trench bottom for gravity systems.
2. Approval required by local authorities.
3. Chamber trench bottom widths: Q4 EQ36 = 24", Q4 Std. = 36", Q4 HC = 36"
4. Pressure systems: Lateral trench bottom credited width is 1.3 x width of trench bottom for pressure systems. Number of chambers required for pressure system = .846 x chambers required for gravity system.
5. Q4 EQ24 is also approved in SK, bottom width of 18" and a rating of 1.65 sf/lf, contact ISI for more details