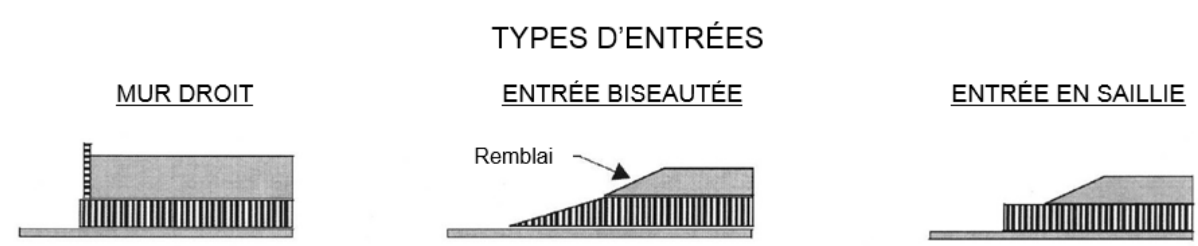
	Type of intake	Round conduit (0% ≤ slope ≤ 2%)												Round conduit with outlets (2% < slope ≤ 6%)			
		Burial 10%				Burial 20%				Burial 30%							
		Projection		Bevelled or straight		Projection		Bevelled or straight		Projection		Bevelled or straight		Projection		Bevelled or straight	
	Diameter of conduit (mm)	Flow classes (m³/sec)[b]															
Round conduits	450	0.00	0.13	0.00	0.15	–	–	–	–	–	–	–	–	–	–	–	–
	500	0.14	0.17	0.16	0.19	–	–	–	–	–	–	–	–	–	–	–	–
	600	0.18	0.27	0.20	0.30	–	–	–	–	0	0.19	0	0.22	–	–	–	–
	700	0.28	0.40	0.31	0.44	–	–	–	–	0.20	0.25	0.23	0.28	–	–	–	–
	750	0.41	0.47	0.45	0.52	0.00	0.32	0.00	0.35	0.26	0.32	0.29	0.35	–	–	–	–
	800	0.48	0.56	0.53	0.62	0.33	0.39	0.36	0.43	0.33	0.39	0.36	0.43	–	–	–	–
	900	0.57	0.75	0.63	0.83	0.40	0.56	0.44	0.62	0.40	0.53	0.44	0.60	–	–	–	–
	1,000	0.76	0.97	0.84	1.08	0.57	0.76	0.63	0.85	0.54	0.69	0.61	0.78	–	–	–	–
	1,125	0.98	1.30	1.09	1.44	0.77	1.08	0.86	1.20	0.70	0.93	0.79	1.04	–	–	–	–
	1,200	1.31	1.53	1.45	1.70	1.09	1.29	1.21	1.44	0.94	1.10	1.05	1.23	0	0.82	0	0.82
	1,400	1.54	2.25	1.71	2.49	1.30	1.93	1.45	2.15	1.11	1.61	1.24	1.80	0.83	1.51	0.83	1.51
	1,500	2.26	2.67	2.50	2.96	1.94	2.29	2.16	2.55	1.62	1.91	1.81	2.14	1.52	1.95	1.52	1.95
	1,600	2.68	3.14	2.97	3.48	2.30	2.69	2.56	3.00	1.92	2.25	2.15	2.52	1.96	2.46	1.96	2.46
	1,800	3.15	4.21	3.49	4.67	2.70	3.61	3.01	4.02	2.26	3.15	2.53	3.52	2.47	3.68	2.47	3.68
	2,000	4.22	5.48	4.68	6.08	3.62	4.70	4.03	5.24	3.16	4.31	3.53	4.81	3.69	5.21	3.69	5.21
	2,200	5.49	6.96	6.09	7.71	4.71	5.97	5.25	6.64	4.32	5.70	4.82	6.35	5.22	6.88	5.22	7.07
	2,400	6.97	8.65	7.72	9.59	5.98	7.42	6.65	8.26	5.71	7.32	6.36	8.15	6.89	8.72	7.08	9.28
	2,700	8.66	11.61	9.60	12.87	7.43	10.20	8.27	11.35	7.33	10.20	8.16	11.35	8.73	12.04	9.29	12.83
	3,000	11.62	15.12	12.88	16.76	10.21	13.69	11.36	15.21	10.21	13.69	11.36	15.21	12.05	15.92	12.84	16.98
	3,300	15.13	19.17	16.77	21.26	13.70	17.77	15.22	19.74	13.70	17.77	15.22	19.74	15.93	20.44	16.99	21.85
	3,600	19.18	23.83	21.27	26.43	17.78	22.51	19.75	25.00	17.78	22.51	19.75	25.00	20.45	25.58	21.86	27.45
Structural plates	3,670	23.84	25.01	26.44	27.74	22.52	23.72	25.01	26.35	22.52	23.72	25.01	26.35	25.59	26.88	27.46	28.95
	3,990	25.02	30.82	27.75	34.18	23.73	29.71	26.36	32.98	23.73	29.71	26.36	32.98	26.89	33.33	28.96	35.92
	4,300	30.83	37.16	34.19	41.22	29.72	36.30	32.99	40.29	29.72	36.30	32.99	40.29	33.34	40.39	35.93	43.57
	4,610	37.17	44.25	41.23	49.03	36.31	43.72	40.30	48.45	36.31	43.72	40.30	48.45	40.40	48.24	43.58	52.07
	4,920	44.26	52.05	49.04	57.72	43.73	51.93	48.46	57.59	43.73	51.93	48.46	57.59	48.25	57.00	52.08	61.51
	5,230	52.06	61.01	57.72	67.64	51.94	61.01	57.60	67.64	51.94	61.01	57.60	67.64	57.01	66.62	61.52	71.83
	5,540	61.02	70.97	67.65	78.53	61.02	70.97	67.65	78.53	61.02	70.97	67.65	78.53	66.63	77.10	71.84	83.08
	5,850	70.98	81.89	78.54	90.52	70.98	81.89	78.54	90.52	70.98	81.89	78.54	90.52	77.11	88.62	83.09	95.43
	6,160	81.90	93.72	90.53	103.46	81.90	93.72	90.53	103.46	81.90	93.72	90.53	103.46	88.63	101.05	95.44	108.74
	6,470	93.73	106.51	103.47	117.45	93.73	106.51	103.47	117.45	93.73	106.51	103.47	117.45	101.06	114.46	108.75	123.12
	6,780	106.52	120.33	117.46	132.54	106.52	120.33	117.46	132.54	106.52	120.33	117.46	132.54	114.47	128.92	123.13	138.60

a: calibrated so that the height of the water in the conduit is always less than or equal to 85% of the clearance after burial of the conduit;

b: the numbers correspond to the flow interval (class) in which a conduit, having a given size and characteristics, discharges optimally up to the maximum capacity of the class.

Source: Plamondon, André P. Février 2013. *Capacité d'écoulement des conduits circulaires enfouis et munis de déversoirs – Application au milieu forestier.* 88 p. Unpublished report.



Types of intakes
Straight wall Bevelled wall Fill Projection wall