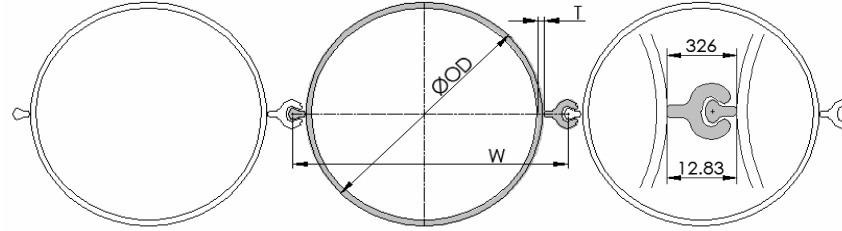




Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



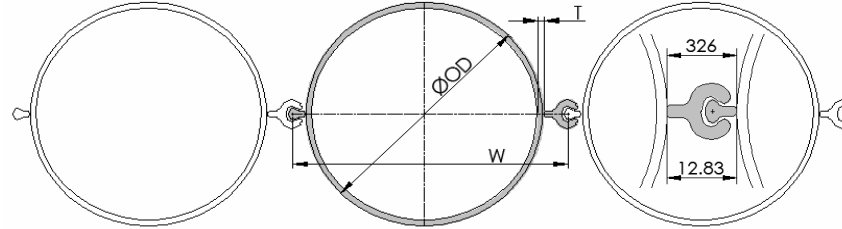
O-Pile 50 - 936
KEY: (50 = Section Modulus in cm³/m)
(936 = System Width in mm)

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SECTION	UNIT OF WALL						BENDING MOMENT/MEL								
	Diameter OD	Thickness (Wall) T	System Width* W	Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
in.	in.	in.	in ³ /ft	k/ft	in. ⁴ /ft	lbs/ft ²	lbs/ft ²	lbs/ft ²	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	
O-Pile 22-834	20	0.38	32.8	40.7	233.9	406.9	70.79	86.52	102.24	169.6	203.5	220.4	236.1	273	169.6
O-Pile 23-834	20	0.39	32.8	42.6	233.9	426	73.68	89.88	106.09	177.5	213	230.8	247.2	285.8	177.5
O-Pile 26-834	20	0.44	32.8	47	233.9	470.3	80.41	97.74	115.06	196	235.2	254.7	272.8	315.5	196
O-Pile 28-834	20	0.47	32.8	50.5	233.9	505.2	85.76	103.98	122.19	210.5	252.6	273.6	293.1	338.9	210.5
O-Pile 29-936	24	0.38	36.8	52.7	233.9	632.8	82.82	100.55	118.28	219.7	263.7	285.6	305.9	353.7	219.7
O-Pile 29-834	20	0.5	32.8	53.2	233.9	532.4	89.96	108.88	127.8	221.8	266.2	288.4	308.9	357.2	221.8
O-Pile 30-936	24	0.39	36.8	55.2	233.9	662.8	86.3	104.61	122.92	230.1	276.1	299.2	320.4	370.5	230.1
O-Pile 32-834	20	0.56	32.8	59.3	233.9	593.4	99.45	119.95	140.46	247.2	296.7	321.4	344.2	398	247.2
O-Pile 33-936	24	0.44	36.8	61	233.9	732.4	94.44	114.11	133.77	254.3	305.2	330.6	354.1	409.4	254.3
O-Pile 36-1037	28	0.38	40.8	65.2	233.9	912.5	94.85	114.58	134.32	271.6	325.9	353	378.1	437.2	271.6
O-Pile 36-834	20	0.62	32.8	65.3	233.9	653.1	108.88	130.95	153.03	272.1	326.5	353.8	378.9	438.1	272.1
O-Pile 36-936	24	0.47	36.8	65.6	233.9	787.5	100.91	121.65	142.4	273.4	328.1	355.5	380.7	440.2	273.4
O-Pile 37-1037	28	0.39	40.8	68.3	233.9	956.1	98.93	119.35	139.76	284.5	341.5	369.9	396.2	458.1	284.5
O-Pile 38-936	24	0.5	36.8	69.2	233.9	830.5	106	127.59	149.18	288.4	346.1	374.9	401.5	464.3	288.4
O-Pile 39-1088	30	0.38	42.8	71.5	233.9	1072.8	100.86	121.6	142.33	298	357.6	387.4	414.9	479.8	298
O-Pile 41-1088	30	0.39	42.8	74.9	233.9	1124.2	105.24	126.71	148.18	312.3	374.7	406	434.8	502.7	312.3
O-Pile 41-1037	28	0.44	40.8	75.5	233.9	1057.4	108.47	130.48	152.48	314.7	377.7	409.1	438.2	506.7	314.7
O-Pile 42-834	20	0.75	32.8	76.9	233.9	769	127.55	152.73	177.92	320.4	384.5	416.5	446.1	515.8	320.4
O-Pile 42-936	24	0.56	36.8	77.3	233.9	927	117.49	141	164.51	321.9	386.3	418.4	448.2	518.2	321.9
O-Pile 42-1139	32	0.38	44.8	77.9	233.9	1246.8	106.87	128.61	150.35	324.7	389.6	422.1	452.1	522.7	324.7
O-Pile 44-1037	28	0.47	40.8	81.3	233.9	1137.6	116.06	139.33	162.6	338.6	406.3	440.1	471.4	545.1	338.6
O-Pile 44-1139	32	0.39	44.8	81.7	233.9	1306.7	111.56	134.08	156.6	340.3	408.3	442.4	473.8	547.8	340.3
O-Pile 45-1088	30	0.44	42.8	82.9	233.9	1243.8	115.49	138.66	161.84	345.5	414.6	449.1	481.1	556.2	345.5
O-Pile 46-1190	34	0.38	46.8	84.4	233.9	1434.7	112.89	135.63	158.37	351.6	422	457.1	489.6	566.1	351.6



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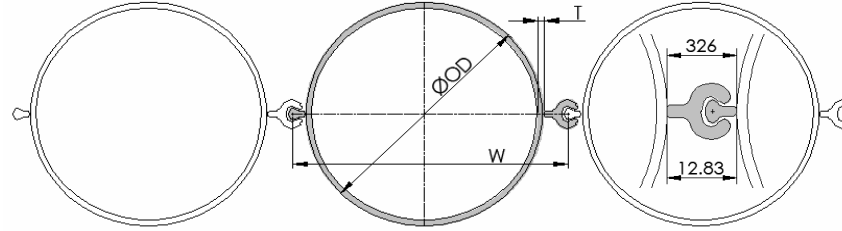
O-Pile 50 - 936
KEY: (50 = Section Modulus in cm³/m)
(936 = System Width in mm)

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SECTION	UNIT OF WALL						BENDING MOMENT/MEL								
	Diameter OD	Thickness (Wall) T	System Width* W	Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
in.	in.	in.	in ³ /ft	k/ft	in. ⁴ /ft	lbs/ft ²	lbs/ft ²	lbs/ft ²	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	
O-Pile 46-936	24	0.62	36.8	85.2	233.9	1022	128.93	154.34	179.75	354.8	425.8	461.3	494.1	571.3	354.8
O-Pile 47-1037	28	0.5	40.8	85.7	233.9	1200.4	122.04	146.3	170.57	357.3	428.7	464.4	497.4	575.2	357.3
O-Pile 48-1190	34	0.39	46.8	88.5	233.9	1503.7	117.87	141.44	165.02	368.6	442.3	479.1	513.2	593.3	368.6
O-Pile 48-885	22	0.75	34.8	88.6	233.9	974.8	139.58	166.76	193.95	369.2	443.1	480	514.1	594.4	369.2
O-Pile 48-1088	30	0.47	42.8	89.2	233.9	1338.4	123.64	148.17	172.71	371.8	446.1	483.3	517.7	598.5	371.8
O-Pile 49-1139	32	0.44	44.8	90.4	233.9	1446.1	122.5	146.85	171.19	376.6	451.9	489.6	524.4	606.3	376.6
O-Pile 49-1240	36	0.38	48.8	90.9	233.9	1636.3	118.9	142.65	166.39	378.8	454.5	492.4	527.4	609.8	378.8
O-Pile 50-936	24	0.69	36.8	92.9	233.9	1115.3	140.3	167.61	194.91	387.3	464.7	503.4	539.2	623.5	387.3
O-Pile 51-1088	30	0.5	42.8	94.2	233.9	1412.6	130.05	155.66	181.26	392.4	470.9	510.1	546.3	631.7	392.4
O-Pile 52-1240	36	0.39	48.8	95.3	233.9	1715.2	124.19	148.81	173.43	397	476.4	516.1	552.8	639.2	397
O-Pile 52-1037	28	0.56	40.8	95.8	233.9	1341.4	135.54	162.05	188.57	399.2	479.1	519	555.9	642.7	399.2
O-Pile 53-1139	32	0.47	44.8	97.3	233.9	1556.5	131.22	157.01	182.81	405.3	486.4	526.9	564.4	652.6	405.3
O-Pile 53-1291	38	0.38	50.8	97.5	233.9	1851.8	124.92	149.66	174.41	406.1	487.3	527.9	565.4	653.8	406.1
O-Pile 53-1190	34	0.44	46.8	97.9	233.9	1664.5	129.52	155.03	180.55	408	489.6	530.4	568	656.8	408
O-Pile 55-936	24	0.75	36.8	100.6	233.9	1207.2	151.6	180.8	209.99	419.2	503	544.9	583.6	674.8	419.2
O-Pile 55-1291	38	0.39	50.8	102.2	233.9	1941.2	130.5	156.18	181.85	425.7	510.8	553.4	592.7	685.4	425.7
O-Pile 56-1139	32	0.5	44.8	102.7	233.9	1643	138.07	165.01	191.95	427.9	513.4	556.2	595.7	688.8	427.9
O-Pile 56-1342	40	0.38	52.8	104.1	233.9	2081.1	130.93	156.68	182.43	433.6	520.3	563.6	603.7	698	433.6
O-Pile 57-1088	30	0.56	42.8	105.3	233.9	1579.2	144.56	172.58	200.59	438.7	526.4	570.3	610.8	706.2	438.7
O-Pile 57-1190	34	0.47	46.8	105.4	233.9	1791.9	138.79	165.85	192.91	439.2	527	570.9	611.5	707.1	439.2
O-Pile 57-1240	36	0.44	48.8	105.5	233.9	1899	136.54	163.22	189.9	439.6	527.5	571.5	612.1	707.7	439.6
O-Pile 57-1037	28	0.62	40.8	105.7	233.9	1480.4	148.97	177.73	206.48	440.6	528.7	572.8	613.5	709.3	440.6
O-Pile 59-936	24	0.81	36.8	108.1	233.9	1297.5	162.85	193.92	224.98	450.5	540.6	585.7	627.3	725.3	450.5
O-Pile 59-1342	40	0.39	52.8	109.1	233.9	2181.8	136.81	163.54	190.27	454.6	545.5	590.9	632.9	731.8	454.6
O-Pile 60-1393	42	0.38	54.8	110.7	233.9	2324.4	136.94	163.7	190.45	461.2	553.4	599.6	642.2	742.5	461.2
O-Pile 60-1190	34	0.5	46.8	111.3	233.9	1891.8	146.09	174.37	202.64	463.7	556.4	602.8	645.6	746.5	463.7
O-Pile 61-1291	38	0.44	50.8	113.1	233.9	2149.7	143.55	171.41	199.26	471.4	565.7	612.9	656.4	759	471.4
O-Pile 62-1240	36	0.47	48.8	113.6	233.9	2044.7	146.37	174.69	203.01	473.3	568	615.3	659	762	473.3



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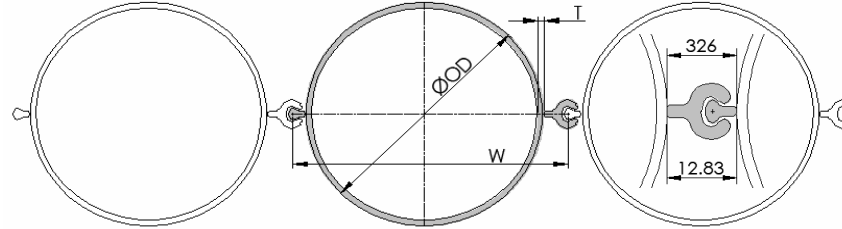
O-Pile 50 - 936
KEY: (50 = Section Modulus in cm³/m)
(936 = System Width in mm)

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SECTION	UNIT OF WALL						BENDING MOMENT/MEL								
	Diameter OD	Thickness (Wall) T	System Width* W	Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
in.	in.	in.	in ³ /ft	k/ft	in. ⁴ /ft	lbs/ft ²	lbs/ft ²	lbs/ft ²	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	
O-Pile 62-1139	32	0.56	44.8	114.8	233.9	1837.5	153.58	183.1	212.62	478.5	574.2	622.1	666.3	770.4	478.5
O-Pile 63-936	24	0.88	36.8	115.5	233.9	1386.3	174.03	206.96	239.89	481.4	577.6	625.8	670.2	774.9	481.4
O-Pile 63-1037	28	0.69	40.8	115.5	233.9	1617.5	162.35	193.33	224.32	481.4	577.7	625.8	670.3	775	481.4
O-Pile 63-1393	42	0.39	54.8	116.1	233.9	2437.1	143.13	170.91	198.69	483.5	580.3	628.6	673.3	778.5	483.5
O-Pile 63-1088	30	0.62	42.8	116.2	233.9	1743.6	159	189.42	219.85	484.3	581.2	629.6	674.4	779.8	484.3
O-Pile 64-1444	44	0.38	56.8	117.3	233.9	2581.6	142.96	170.71	198.46	488.9	586.7	635.6	680.8	787.2	488.9
O-Pile 65-948	24.5	0.88	37.3	119	233.9	1458.3	177.54	211.06	244.57	496	595.2	644.8	690.6	798.6	496
O-Pile 65-1240	36	0.5	48.8	119.9	233.9	2159	154.11	183.72	213.33	499.8	599.7	649.7	695.9	804.6	499.8
O-Pile 65-1342	40	0.44	52.8	120.8	233.9	2416.6	150.57	179.59	208.61	503.5	604.1	654.5	701	810.5	503.5
O-Pile 66-1291	38	0.47	50.8	121.8	233.9	2315	153.95	183.53	213.11	507.7	609.2	660	706.9	817.3	507.7
O-Pile 67-936	24	0.94	36.8	122.8	233.9	1473.6	185.15	219.93	254.72	511.7	614	665.2	712.4	823.8	511.7
O-Pile 67-1444	44	0.39	56.8	123	233.9	2706.9	149.44	178.27	207.11	512.7	615.2	666.5	713.8	825.4	512.7
O-Pile 67-1190	34	0.56	46.8	124.5	233.9	2116.5	162.6	193.62	224.65	518.8	622.5	674.4	722.3	835.1	518.8
O-Pile 68-1037	28	0.75	40.8	125.2	233.9	1752.7	175.66	208.86	242.07	521.6	626	678.1	726.3	839.8	521.6
O-Pile 69-1139	32	0.62	44.8	126.9	233.9	2029.7	169.02	201.12	233.21	528.6	634.3	687.1	736	851	528.6
O-Pile 69-1088	30	0.69	42.8	127.1	233.9	1906	173.37	206.19	239.02	529.4	635.3	688.3	737.2	852.4	529.4
O-Pile 70-1393	42	0.44	54.8	128.6	233.9	2699.7	157.59	187.78	217.97	535.7	642.8	696.4	745.8	862.4	535.7
O-Pile 70-1291	38	0.5	50.8	128.7	233.9	2444.7	162.13	193.08	224.02	536.1	643.3	696.9	746.5	863.1	536.1
O-Pile 70-936	24	1	36.8	130	233.9	1559.5	196.21	232.83	269.46	541.5	649.8	703.9	754	871.8	541.5
O-Pile 70-1342	40	0.47	52.8	130.1	233.9	2602.7	161.52	192.37	223.22	542.2	650.7	704.9	755	873	542.2
O-Pile 71-1545	48	0.38	60.8	130.8	233.9	3138	154.99	184.74	214.5	544.8	653.7	708.2	758.5	877.1	544.8
O-Pile 73-1240	36	0.56	48.8	134.2	233.9	2416.2	171.62	204.15	236.68	559.3	671.2	727.1	778.8	900.4	559.3
O-Pile 73-1037	28	0.81	40.8	134.7	233.9	1886	188.91	224.32	259.73	561.3	673.6	729.7	781.5	903.6	561.3
O-Pile 74-1444	44	0.44	56.8	136.3	233.9	2999.1	164.6	195.96	227.32	568	681.6	738.4	790.9	914.4	568
O-Pile 74-1545	48	0.39	60.8	137.1	233.9	3290.6	162.07	193.01	223.95	571.3	685.5	742.7	795.4	919.7	571.3
O-Pile 74-1342	40	0.5	52.8	137.4	233.9	2748.9	170.15	202.43	234.72	572.7	687.2	744.5	797.4	922	572.7
O-Pile 74-1596	50	0.38	62.8	137.5	233.9	3437.2	161	191.76	222.52	572.9	687.4	744.7	797.6	922.3	572.9
O-Pile 74-1190	34	0.62	46.8	137.6	233.9	2338.7	179.04	212.81	246.58	573.2	687.8	745.2	798.1	922.8	573.2



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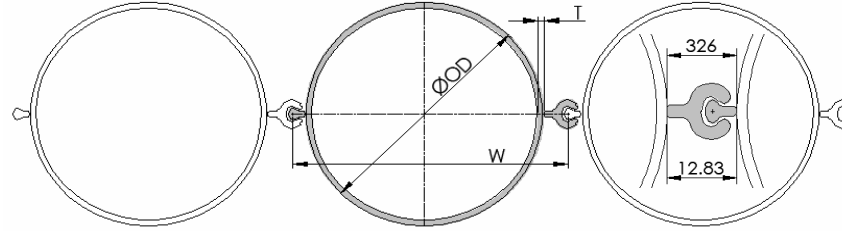
O-Pile 50 - 936
KEY: (50 = Section Modulus in cm³/m)
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SECTION	UNIT OF WALL						BENDING MOMENT/MEL								
	Diameter OD	Thickness (Wall) T	System Width* W	Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
in.	in.	in.	in ³ /ft	k/ft	in. ⁴ /ft	lbs/ft ²	lbs/ft ²	lbs/ft ²	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	
O-Pile 75-1088	30	0.75	42.8	137.7	233.9	2066.2	187.69	222.89	258.1	573.9	688.7	746.1	799.1	924	573.9
O-Pile 75-1393	42	0.47	54.8	138.5	233.9	2908	169.1	201.21	233.32	577	692.4	750.1	803.4	928.9	577
O-Pile 75-1139	32	0.69	44.8	138.7	233.9	2219.5	184.4	219.06	253.72	578	693.6	751.4	804.8	930.5	578
O-Pile 78-1291	38	0.56	50.8	144	233.9	2736.7	180.64	214.67	248.71	600.1	720.2	780.2	835.6	966.2	600.1
O-Pile 78-1037	28	0.88	40.8	144.1	233.9	2017.3	202.1	239.7	277.31	600.4	720.5	780.5	836	966.6	600.4
O-Pile 78-1596	50	0.39	62.8	144.2	233.9	3604.5	168.38	200.37	232.36	600.8	720.9	781	836.5	967.2	600.8
O-Pile 78-1647	52	0.38	64.8	144.2	233.9	3750.3	167.01	198.78	230.54	601	721.2	781.3	836.8	967.6	601
O-Pile 79-1393	42	0.5	54.8	146.3	233.9	3071.6	178.17	211.79	245.41	609.4	731.3	792.3	848.6	981.2	609.4
O-Pile 79-1444	44	0.47	56.8	146.9	233.9	3230.9	176.68	210.05	243.42	611.9	734.3	795.5	852	985.1	611.9
O-Pile 80-1088	30	0.81	42.8	148.3	233.9	2224.3	201.94	239.52	277.11	617.9	741.4	803.2	860.3	994.7	617.9
O-Pile 80-1240	36	0.62	48.8	148.4	233.9	2670.7	189.07	224.5	259.94	618.2	741.8	803.7	860.8	995.3	618.2
O-Pile 81-1139	32	0.75	44.8	150.4	233.9	2407.1	199.72	236.93	274.14	626.8	752.2	814.9	872.8	1009.2	626.8
O-Pile 81-1190	34	0.69	46.8	150.5	233.9	2558.3	195.42	231.92	268.42	627	752.4	815.1	873.1	1009.5	627
O-Pile 82-1698	54	0.38	66.8	151	233.9	4077.5	173.03	205.79	238.56	629.2	755.1	818	876.1	1013	629.2
O-Pile 82-1647	52	0.39	64.8	151.3	233.9	3933.1	174.7	207.74	240.78	630.3	756.4	819.4	877.6	1014.7	630.3
O-Pile 82-1545	48	0.44	60.8	151.9	233.9	3646.7	178.63	212.33	246.03	633.1	759.7	823	881.5	1019.2	633.1
O-Pile 83-1037	28	0.94	40.8	153.3	233.9	2146.9	215.22	255.02	294.81	639	766.7	830.6	889.7	1028.7	639
O-Pile 83-1342	40	0.56	52.8	153.9	233.9	3077.9	189.66	225.2	260.73	641.2	769.5	833.6	892.8	1032.3	641.2
O-Pile 84-1444	44	0.5	56.8	155.1	233.9	3412.9	186.18	221.14	256.1	646.4	775.7	840.3	900	1040.6	646.4
O-Pile 85-1748	56	0.38	68.8	157.8	233.9	4418.7	179.04	212.81	246.58	657.5	789.1	854.8	915.5	1058.6	657.5
O-Pile 86-1698	54	0.39	66.8	158.4	233.9	4276.4	181.01	215.11	249.2	659.9	791.9	857.9	918.9	1062.4	659.9
O-Pile 86-1088	30	0.88	42.8	158.7	233.9	2380.4	216.13	256.08	296.02	661.2	793.5	859.6	920.6	1064.5	661.2
O-Pile 86-1291	38	0.62	50.8	159.2	233.9	3025.7	199.09	236.2	273.3	663.5	796.2	862.6	923.9	1068.2	663.5
O-Pile 86-1596	50	0.44	62.8	159.8	233.9	3995	185.65	220.52	255.39	665.8	799	865.6	927.1	1071.9	665.8
O-Pile 88-1139	32	0.81	44.8	162	233.9	2592.3	214.97	254.72	294.48	675.1	810.1	877.6	940	1086.8	675.1
O-Pile 88-1240	36	0.69	48.8	162.4	233.9	2922.4	206.45	244.78	283.12	676.5	811.8	879.4	941.9	1089.1	676.5
O-Pile 88-1037	28	1	40.8	162.5	233.9	2274.6	228.28	270.25	312.23	677	812.3	880	942.6	1089.8	677
O-Pile 88-1190	34	0.75	46.8	163.3	233.9	2775.4	211.74	250.96	290.18	680.3	816.3	884.3	947.2	1095.2	680.3



Predictable, Quantifiable
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Soil Types



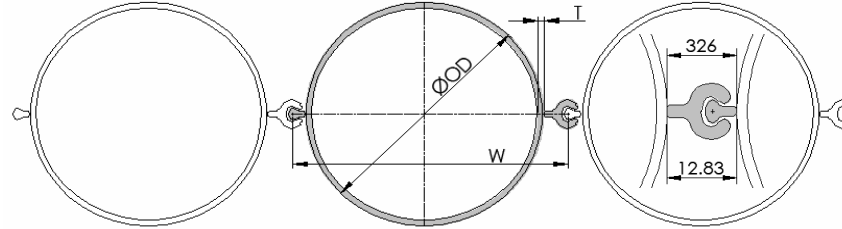
O-Pile 50 - 936
KEY: (50 = Section Modulus in cm³/m)
(936 = System Width in mm)

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SECTION	UNIT OF WALL						BENDING MOMENT/MEL								
	Diameter OD	Thickness (Wall) T	System Width* W	Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
in.	in.	in.	in ³ /ft	k/ft	in. ⁴ /ft	lbs/ft ²	lbs/ft ²	lbs/ft ²	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	
O-Pile 89-1545	48	0.47	60.8	163.7	233.9	3929.3	191.83	227.73	263.62	682.2	818.6	886.8	949.8	1098.2	682.2
O-Pile 89-1393	42	0.56	54.8	163.8	233.9	3440.1	198.68	235.72	272.76	682.6	819.1	887.3	950.4	1098.9	682.6
O-Pile 89-1748	56	0.39	68.8	165.5	233.9	4634.4	187.32	222.47	257.62	689.6	827.6	896.5	960.2	1110.3	689.6
O-Pile 91-1647	52	0.44	64.8	167.7	233.9	4359.6	192.67	228.71	264.74	698.7	838.4	908.2	972.8	1124.8	698.7
O-Pile 91-1088	30	0.94	42.8	169	233.9	2534.4	230.25	272.56	314.86	704	844.8	915.2	980.2	1133.4	704
O-Pile 92-1342	40	0.62	52.8	170.2	233.9	3403.9	209.11	247.89	286.67	709.1	851	921.9	987.4	1141.7	709.1
O-Pile 93-1850	60	0.38	72.8	171.4	233.9	5143.3	191.07	226.84	262.61	714.3	857.2	928.6	994.6	1150	714.3
O-Pile 93-1596	50	0.47	62.8	172.2	233.9	4305	199.41	236.57	273.73	717.5	861	932.7	999	1155.1	717.5
O-Pile 93-1545	48	0.5	60.8	173	233.9	4151.3	202.22	239.85	277.48	720.7	864.9	936.9	1003.5	1160.3	720.7
O-Pile 94-1139	32	0.88	44.8	173.5	233.9	2775.3	230.16	272.45	314.73	722.7	867.3	939.5	1006.3	1163.5	722.7
O-Pile 94-1444	44	0.56	56.8	173.8	233.9	3823.1	207.7	246.25	284.79	724.1	868.9	941.3	1008.2	1165.7	724.1
O-Pile 94-1291	38	0.69	50.8	174.3	233.9	3311.8	217.47	257.65	297.82	726.3	871.5	944.2	1011.2	1169.2	726.3
O-Pile 95-1698	54	0.44	66.8	175.6	233.9	4740.6	199.68	236.89	274.1	731.6	877.9	951	1018.6	1177.8	731.6
O-Pile 95-1190	34	0.81	46.8	175.9	233.9	2990.1	228	269.93	311.85	732.9	879.4	952.7	1020.4	1179.8	732.9
O-Pile 95-1240	36	0.75	48.8	176.2	233.9	3171.4	223.77	264.99	306.21	734.1	880.9	954.3	1022.2	1181.9	734.1
O-Pile 96-1901	62	0.38	74.8	178.3	233.9	5526.6	197.08	233.86	270.63	742.8	891.4	965.7	1034.3	1195.9	742.8
O-Pile 97-1088	30	1	42.8	179.1	233.9	2686.3	244.32	288.96	333.61	746.2	895.4	970.1	1039	1201.3	746.2
O-Pile 97-1850	60	0.39	72.8	179.8	233.9	5394.7	199.95	237.2	274.46	749.3	899.1	974	1043.2	1206.3	749.3
O-Pile 98-1647	52	0.47	64.8	180.7	233.9	4698.3	206.98	245.41	283.83	752.9	903.5	978.8	1048.3	1212.2	752.9
O-Pile 98-1393	42	0.62	54.8	181.2	233.9	3805.2	219.14	259.58	300.03	755	906	981.5	1051.2	1215.5	755
O-Pile 98-1596	50	0.5	62.8	181.9	233.9	4548.5	210.24	249.21	288.17	758.1	909.7	985.5	1055.5	1220.5	758.1
O-Pile 99-1748	56	0.44	68.8	183.5	233.9	5137.9	206.7	245.08	283.45	764.6	917.5	993.9	1064.6	1230.9	764.6
O-Pile 100-1139	32	0.94	44.8	184.7	233.9	2956	245.29	290.1	334.91	769.8	923.7	1000.7	1071.8	1239.3	769.8
O-Pile 101-1342	40	0.69	52.8	186.3	233.9	3726.7	228.5	270.51	312.52	776.4	931.7	1009.3	1081	1249.9	776.4
O-Pile 101-1901	62	0.39	74.8	187	233.9	5796.9	206.27	244.57	282.87	779.2	935	1012.9	1084.9	1254.4	779.2
O-Pile 102-1190	34	0.88	46.8	188.4	233.9	3202.2	244.19	288.82	333.44	784.9	941.8	1020.3	1092.8	1263.6	784.9
O-Pile 102-1291	38	0.75	50.8	189.2	233.9	3595	235.8	279.03	322.25	788.4	946	1024.9	1097.7	1269.2	788.4
O-Pile 102-1698	54	0.47	66.8	189.2	233.9	5109.2	214.56	254.24	293.93	788.5	946.1	1025	1097.8	1269.4	788.5



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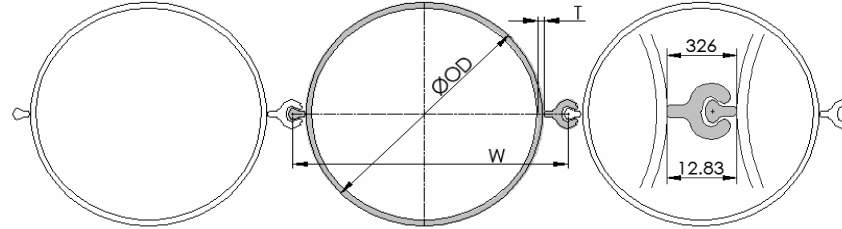
O-Pile 50 - 936
KEY: (50 = Section Modulus in cm³/m)
(936 = System Width in mm)

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SECTION	UNIT OF WALL						BENDING MOMENT/MEL								
	Diameter OD	Thickness (Wall) T	System Width* W	Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
in.	in.	in.	in ³ /ft	k/ft	in. ⁴ /ft	lbs/ft ²	lbs/ft ²	lbs/ft ²	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	
O-Pile 103-1240	36	0.81	48.8	189.9	233.9	3417.7	241.03	285.13	329.23	791.1	949.4	1028.5	1101.5	1273.7	791.1
O-Pile 103-1647	52	0.5	64.8	190.9	233.9	4964.4	218.26	258.56	298.86	795.6	954.7	1034.2	1107.7	1280.8	795.6
O-Pile 104-1202	34.5	0.88	47.3	192.1	233.9	3314	247.7	292.91	338.12	800.5	960.6	1040.6	1114.6	1288.7	800.5
O-Pile 104-1444	44	0.62	56.8	192.3	233.9	4229.8	229.16	271.28	313.4	801.1	961.3	1041.4	1115.4	1289.7	801.1
O-Pile 105-1545	48	0.56	60.8	193.8	233.9	4652	225.74	267.29	308.85	807.6	969.2	1049.9	1124.5	1300.2	807.6
O-Pile 106-1139	32	1	44.8	195.9	233.9	3134.5	260.36	307.67	354.99	816.3	979.5	1061.1	1136.5	1314.1	816.3
O-Pile 107-1748	56	0.47	68.8	197.8	233.9	5537.8	222.13	263.08	304.03	824.1	988.9	1071.3	1147.4	1326.7	824.1
O-Pile 107-1393	42	0.69	54.8	198.4	233.9	4167	239.53	283.37	327.22	826.8	992.1	1074.8	1151.2	1331.1	826.8
O-Pile 108-1850	60	0.44	72.8	199.4	233.9	5981.7	220.73	261.45	302.16	830.8	996.9	1080	1156.8	1337.5	830.8
O-Pile 108-1698	54	0.5	66.8	200	233.9	5399	226.28	267.92	309.56	833.2	999.8	1083.1	1160.1	1341.3	833.2
O-Pile 108-1190	34	0.94	46.8	200.7	233.9	3411.9	260.32	307.64	354.95	836.3	1003.5	1087.1	1164.4	1346.3	836.3
O-Pile 109-1342	40	0.75	52.8	202.3	233.9	4046.3	247.83	293.06	338.29	843	1011.6	1095.9	1173.7	1357.1	843
O-Pile 110-1240	36	0.88	48.8	203.4	233.9	3661.3	258.23	305.19	352.15	847.5	1017	1101.8	1180.1	1364.5	847.5
O-Pile 110-1596	50	0.56	62.8	203.9	233.9	5097.9	234.77	277.82	320.87	849.6	1019.6	1104.5	1183	1367.9	849.6
O-Pile 110-1291	38	0.81	50.8	204	233.9	3875.3	254.06	300.33	346.6	849.8	1019.8	1104.8	1183.3	1368.2	849.8
O-Pile 112-1901	62	0.44	74.8	207.4	233.9	6428.2	227.75	269.63	311.52	864	1036.8	1123.2	1203	1391	864
O-Pile 113-1748	56	0.5	68.8	209	233.9	5852.2	234.3	277.27	320.25	870.9	1045	1132.1	1212.6	1402	870.9
O-Pile 114-1444	44	0.69	56.8	210.6	233.9	4632.9	250.55	296.24	341.92	877.4	1052.9	1140.7	1221.7	1412.6	877.4
O-Pile 115-2155	72	0.38	84.8	212.6	233.9	7654.3	227.15	268.94	310.72	885.9	1063.1	1151.7	1233.5	1426.2	885.9
O-Pile 115-1190	34	1	46.8	212.9	233.9	3619.2	276.39	326.38	376.38	887.1	1064.5	1153.2	1235.1	1428.1	887.1
O-Pile 116-1647	52	0.56	64.8	214	233.9	5564.8	243.79	288.34	332.9	891.8	1070.2	1159.3	1241.7	1435.7	891.8
O-Pile 116-1545	48	0.62	60.8	214.5	233.9	5148.6	249.2	294.67	340.13	893.9	1072.6	1162	1244.6	1439	893.9
O-Pile 116-1850	60	0.47	72.8	214.9	233.9	6448.1	237.29	280.76	324.24	895.6	1074.7	1164.2	1247	1441.8	895.6
O-Pile 116-1393	42	0.75	54.8	215.5	233.9	4525.5	259.85	307.09	354.33	897.9	1077.5	1167.3	1250.2	1445.6	897.9
O-Pile 117-1240	36	0.94	48.8	216.8	233.9	3902.3	275.36	325.18	375	903.3	1084	1174.3	1257.7	1454.3	903.3
O-Pile 118-1342	40	0.81	52.8	218.1	233.9	4362.9	267.09	315.53	363.97	908.9	1090.7	1181.6	1265.6	1463.3	908.9
O-Pile 118-1291	38	0.88	50.8	218.6	233.9	4152.7	272.26	321.56	370.86	910.7	1092.8	1183.9	1268	1466.1	910.7
O-Pile 120-2155	72	0.39	84.8	223	233.9	8029.7	237.84	281.4	324.97	929.4	1115.2	1208.2	1294	1496.2	929.4



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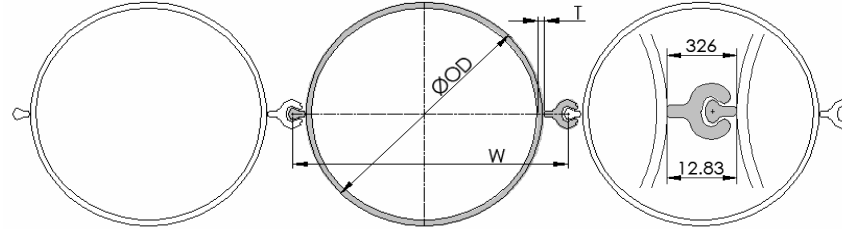
O-Pile 50 - 936
KEY: (50 = Section Modulus in cm³/m)
(936 = System Width in mm)

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SECTION	UNIT OF WALL						BENDING MOMENT/MEL								
	Diameter OD	Thickness (Wall) T	System Width* W	Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
in.	in.	in.	in ³ /ft	k/ft	in. ⁴ /ft	lbs/ft ²	lbs/ft ²	lbs/ft ²	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	
O-Pile 121-1901	62	0.47	74.8	223.5	233.9	6929.8	244.86	289.6	334.34	931.4	1117.7	1210.9	1296.9	1499.5	931.4
O-Pile 121-1698	54	0.56	66.8	224.2	233.9	6052.7	252.81	298.87	344.93	934.1	1120.9	1214.3	1300.5	1503.8	934.1
O-Pile 122-1596	50	0.62	62.8	225.7	233.9	5643	259.23	306.36	353.49	940.5	1128.6	1222.7	1309.5	1514.1	940.5
O-Pile 123-1850	60	0.5	72.8	227.2	233.9	6814.8	250.33	295.98	341.63	946.5	1135.8	1230.5	1317.9	1523.8	946.5
O-Pile 123-1444	44	0.75	56.8	228.7	233.9	5032.4	271.88	321.12	370.36	953.1	1143.7	1239	1327.1	1534.4	953.1
O-Pile 124-1240	36	1	48.8	230	233.9	4140.7	292.43	345.09	397.76	958.5	1150.2	1246	1334.6	1543.1	958.5
O-Pile 125-1393	42	0.81	54.8	232.4	233.9	4880.6	280.12	330.73	381.35	968.4	1162	1258.9	1348.3	1559	968.4
O-Pile 126-1291	38	0.94	50.8	233	233.9	4427.3	290.39	342.72	395.04	970.9	1165.1	1262.2	1351.8	1563.1	970.9
O-Pile 126-1342	40	0.88	52.8	233.8	233.9	4676.4	286.29	337.93	389.57	974.2	1169.1	1266.5	1356.5	1568.5	974.2
O-Pile 126-1748	56	0.56	68.8	234.3	233.9	6561.6	261.83	309.39	356.96	976.4	1171.7	1269.4	1359.5	1572	976.4
O-Pile 127-1545	48	0.69	60.8	235.1	233.9	5641.3	272.6	321.96	371.32	979.4	1175.3	1273.2	1363.7	1576.7	979.4
O-Pile 128-1901	62	0.5	74.8	236.3	233.9	7324.2	258.35	305.34	352.32	984.4	1181.3	1279.8	1370.7	1584.9	984.4
O-Pile 128-1647	52	0.62	64.8	237	233.9	6160.7	269.25	318.05	366.85	987.3	1184.8	1283.5	1374.7	1589.5	987.3
O-Pile 133-1444	44	0.81	56.8	246.7	233.9	5428.5	293.15	345.94	398.72	1028.1	1233.7	1336.6	1431.5	1655.2	1028.1
O-Pile 133-1291	38	1	50.8	247.3	233.9	4699	308.47	363.8	419.14	1030.5	1236.6	1339.6	1434.8	1659	1030.5
O-Pile 133-1596	50	0.69	62.8	247.4	233.9	6184	283.63	334.83	386.02	1030.7	1236.8	1339.9	1435.1	1659.3	1030.7
O-Pile 134-2155	72	0.44	84.8	247.4	233.9	8906.7	262.83	310.56	358.29	1030.9	1237	1340.1	1435.3	1659.6	1030.9
O-Pile 134-1698	54	0.62	66.8	248.2	233.9	6701.8	279.27	329.75	380.22	1034.2	1241.1	1344.5	1440	1665	1034.2
O-Pile 134-1393	42	0.88	54.8	249.2	233.9	5232.5	300.32	354.3	408.28	1038.2	1245.8	1349.6	1445.5	1671.4	1038.2
O-Pile 135-1342	40	0.94	52.8	249.3	233.9	4986.8	305.43	360.26	415.09	1038.9	1246.7	1350.6	1446.6	1672.6	1038.9
O-Pile 137-2460	84	0.38	96.8	254.1	233.9	10672.3	263.24	311.04	358.84	1058.8	1270.5	1376.4	1474.2	1704.5	1058.8
O-Pile 137-1850	60	0.56	72.8	254.8	233.9	7642.7	279.87	330.44	381.01	1061.5	1273.8	1379.9	1478	1708.9	1061.5
O-Pile 138-1545	48	0.75	60.8	255.4	233.9	6130.1	295.94	349.19	402.44	1064.2	1277.1	1383.5	1481.8	1713.4	1064.2
O-Pile 140-1748	56	0.62	68.8	259.5	233.9	7266.3	289.3	341.44	393.58	1081.3	1297.5	1405.7	1505.5	1740.8	1081.3
O-Pile 140-1647	52	0.69	64.8	259.7	233.9	6752.3	294.65	347.69	400.72	1082.1	1298.5	1406.7	1506.7	1742.1	1082.1
O-Pile 143-1444	44	0.88	56.8	264.6	233.9	5821	314.36	370.67	426.99	1102.5	1323	1433.2	1535	1774.9	1102.5
O-Pile 143-1342	40	1	52.8	264.7	233.9	5294.2	324.5	382.51	440.53	1103	1323.6	1433.8	1535.7	1775.7	1103
O-Pile 143-1901	62	0.56	74.8	265	233.9	8214.8	288.89	340.97	393.04	1104.1	1325	1435.4	1537.4	1777.6	1104.1



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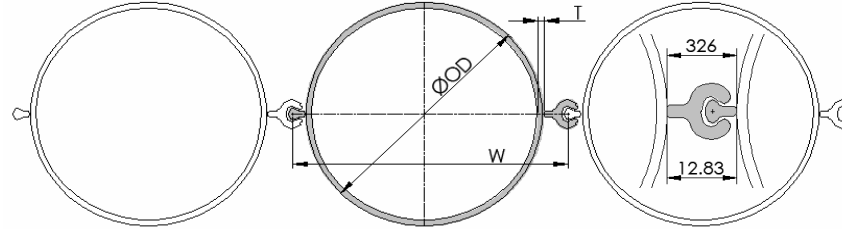
O-Pile 50 - 936
KEY: (50 = Section Modulus in cm³/m)
(936 = System Width in mm)

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SECTION	UNIT OF WALL						BENDING MOMENT/MEL								
	Diameter OD	Thickness (Wall) T	System Width* W	Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
in.	in.	in.	in ³ /ft	k/ft	in. ⁴ /ft	lbs/ft ²	lbs/ft ²	lbs/ft ²	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	
O-Pile 143-1393	42	0.94	54.8	265.8	233.9	5581.1	320.46	377.8	435.14	1107.4	1328.8	1439.6	1541.8	1782.8	1107.4
O-Pile 144-2460	84	0.39	96.8	266.6	233.9	11197	275.72	325.6	375.48	1110.8	1333	1444.1	1546.7	1788.3	1110.8
O-Pile 144-2155	72	0.47	84.8	266.8	233.9	9604.1	282.75	333.8	384.85	1111.6	1333.9	1445.1	1547.7	1789.6	1111.6
O-Pile 145-1596	50	0.75	62.8	268.8	233.9	6720.8	307.97	363.22	418.47	1120.1	1344.2	1456.2	1559.6	1803.3	1120.1
O-Pile 147-1698	54	0.69	66.8	272.1	233.9	7346.4	305.68	360.55	415.43	1133.7	1360.4	1473.8	1578.5	1825.2	1133.7
O-Pile 149-1545	48	0.81	60.8	275.6	233.9	6614.9	319.21	376.34	433.47	1148.4	1378.1	1492.9	1599	1848.9	1148.4
O-Pile 152-2155	72	0.5	84.8	282	233.9	10152.6	298.44	352.11	405.78	1175.1	1410.1	1527.6	1636.1	1891.8	1175.1
O-Pile 152-1850	60	0.62	72.8	282.2	233.9	8465.3	309.34	364.83	420.31	1175.7	1410.9	1528.5	1637	1892.8	1175.7
O-Pile 152-1393	42	1	54.8	282.2	233.9	5926.5	340.54	401.22	461.91	1175.9	1411.1	1528.7	1637.3	1893.1	1175.9
O-Pile 152-1444	44	0.94	56.8	282.3	233.9	6210.2	335.5	395.34	455.18	1176.2	1411.4	1529	1637.7	1893.5	1176.2
O-Pile 152-1647	52	0.75	64.8	282.3	233.9	7339.6	319.99	377.25	434.51	1176.2	1411.5	1529.1	1637.7	1893.6	1176.2
O-Pile 153-1748	56	0.69	68.8	284.5	233.9	7966	316.7	373.42	430.13	1185.4	1422.5	1541.1	1650.5	1908.4	1185.4
O-Pile 156-1596	50	0.81	62.8	290.1	233.9	7253.5	332.24	391.54	450.84	1208.9	1450.7	1571.6	1683.3	1946.3	1208.9
O-Pile 158-1901	62	0.62	74.8	293.5	233.9	9099.9	319.37	376.52	433.68	1223.1	1467.7	1590	1703	1969.1	1223.1
O-Pile 159-1545	48	0.88	60.8	295.7	233.9	7095.8	342.42	403.42	464.41	1231.9	1478.3	1601.5	1715.3	1983.3	1231.9
O-Pile 160-1698	54	0.75	66.8	295.8	233.9	7986.3	332.02	391.29	450.55	1232.5	1478.9	1602.2	1716	1984.1	1232.5
O-Pile 160-2460	84	0.44	96.8	295.8	233.9	12423.2	304.93	359.68	414.42	1232.5	1479	1602.2	1716	1984.2	1232.5
O-Pile 162-1444	44	1	56.8	299.8	233.9	6595.8	356.58	419.93	483.29	1249.2	1499	1624	1739.3	2011.1	1249.2
O-Pile 164-1647	52	0.81	64.8	304.7	233.9	7922.4	345.27	406.74	468.21	1269.6	1523.5	1650.5	1767.8	2044	1269.6
O-Pile 167-1748	56	0.75	68.8	309.3	233.9	8661.1	344.05	405.32	466.59	1288.9	1546.6	1675.5	1794.6	2075	1288.9
O-Pile 167-1850	60	0.69	72.8	309.4	233.9	9282.7	338.76	399.14	459.53	1289.3	1547.1	1676	1795.1	2075.6	1289.3
O-Pile 168-1596	50	0.88	62.8	311.3	233.9	7782.1	356.45	419.79	483.12	1297	1556.4	1686.1	1805.9	2088.1	1297
O-Pile 170-1545	48	0.94	60.8	315.5	233.9	7572.8	365.57	430.42	495.28	1314.7	1577.7	1709.1	1830.6	2116.6	1314.7
O-Pile 171-2155	72	0.56	84.8	316.4	233.9	11391.9	333.99	393.59	453.18	1318.5	1582.2	1714.1	1835.8	2122.7	1318.5
O-Pile 172-2460	84	0.47	96.8	319	233.9	13398.6	328.21	386.84	445.46	1329.2	1595.1	1728	1850.8	2140	1329.2
O-Pile 172-1698	54	0.81	66.8	319.3	233.9	8621.7	358.3	421.94	485.59	1330.5	1596.6	1729.7	1852.5	2142	1330.5
O-Pile 174-1901	62	0.69	74.8	321.9	233.9	9979.6	349.78	412.01	474.23	1341.3	1609.6	1743.7	1867.6	2159.5	1341.3
O-Pile 176-1647	52	0.88	64.8	327	233.9	8501	370.49	436.16	501.83	1362.3	1634.8	1771	1896.9	2193.2	1362.3



Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



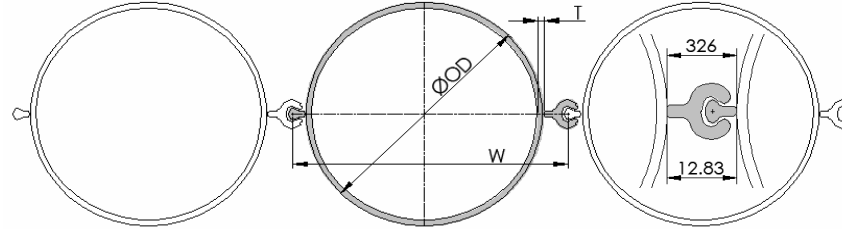
O-Pile 50 - 936
KEY: (50 = Section Modulus in cm³/m)
(936 = System Width in mm)

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SECTION	UNIT OF WALL						BENDING MOMENT/MEL								
	Diameter OD	Thickness (Wall) T	System Width* W	Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
in.	in.	in.	in ³ /ft	k/ft	in. ⁴ /ft	lbs/ft ²	lbs/ft ²	lbs/ft ²	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	
O-Pile 179-1596	50	0.94	62.8	332.3	233.9	8306.6	380.6	447.96	515.32	1384.4	1661.3	1799.8	1927.6	2228.8	1384.4
O-Pile 180-1748	56	0.81	68.8	334	233.9	9351.3	371.33	437.15	502.96	1391.6	1669.9	1809	1937.6	2240.3	1391.6
O-Pile 181-1545	48	1	60.8	335.2	233.9	8046	388.65	457.35	526.06	1396.9	1676.2	1815.9	1945	2248.9	1396.9
O-Pile 181-1850	60	0.75	72.8	336.5	233.9	10094.8	368.11	433.38	498.66	1402.1	1682.5	1822.7	1952.2	2257.2	1402.1
O-Pile 182-2460	84	0.5	96.8	337.3	233.9	14166.3	346.56	408.24	469.93	1405.4	1686.5	1827	1956.8	2262.6	1405.4
O-Pile 185-1698	54	0.88	66.8	342.7	233.9	9252.6	384.52	452.53	520.54	1427.9	1713.4	1856.2	1988.1	2298.7	1427.9
O-Pile 188-1647	52	0.94	64.8	349	233.9	9075.3	395.64	465.5	535.37	1454.4	1745.2	1890.7	2025	2341.4	1454.4
O-Pile 189-1901	62	0.75	74.8	350.1	233.9	10853.8	380.13	447.42	514.7	1458.8	1750.6	1896.5	2031.2	2348.6	1458.8
O-Pile 189-2155	72	0.62	84.8	350.7	233.9	12624.6	369.48	434.99	500.5	1461.2	1753.4	1899.5	2034.5	2352.4	1461.2
O-Pile 190-1596	50	1	62.8	353.1	233.9	8827	404.69	476.06	547.44	1471.2	1765.4	1912.5	2048.4	2368.5	1471.2
O-Pile 193-1748	56	0.88	68.8	358.5	233.9	10036.8	398.55	468.9	539.25	1493.6	1792.3	1941.6	2079.6	2404.5	1493.6
O-Pile 196-1850	60	0.81	72.8	363.4	233.9	10901.8	397.39	467.55	537.71	1514.1	1817	1968.4	2108.2	2437.6	1514.1
O-Pile 197-1698	54	0.94	66.8	365.9	233.9	9878.9	410.67	483.04	555.42	1524.5	1829.4	1981.9	2122.7	2454.4	1524.5
O-Pile 200-1647	52	1	64.8	371	233.9	9645.2	420.73	494.77	568.82	1545.7	1854.8	2009.4	2152.2	2488.5	1545.7
O-Pile 204-1901	62	0.81	74.8	378.2	233.9	11722.7	410.42	482.75	555.08	1575.6	1890.8	2048.3	2193.8	2536.6	1575.6
O-Pile 204-2460	84	0.56	96.8	378.6	233.9	15901.4	388.12	456.73	525.35	1577.5	1893	2050.8	2196.5	2539.7	1577.5
O-Pile 206-1748	56	0.94	68.8	382.8	233.9	10717.6	425.71	500.59	575.46	1594.9	1913.9	2073.4	2220.7	2567.6	1594.9
O-Pile 207-2155	72	0.69	84.8	384.7	233.9	13850.9	404.91	476.32	547.73	1603.1	1923.7	2084	2232.1	2580.9	1603.1
O-Pile 210-1698	54	1	66.8	388.9	233.9	10500.8	436.76	513.48	590.21	1620.5	1944.6	2106.6	2256.3	2608.9	1620.5
O-Pile 210-1850	60	0.88	72.8	390.1	233.9	11703.6	426.62	501.64	576.67	1625.5	1950.6	2113.2	2263.3	2616.9	1625.5
O-Pile 219-1901	62	0.88	74.8	406	233.9	12586.1	440.65	518.02	595.38	1691.7	2030	2199.2	2355.4	2723.5	1691.7
O-Pile 219-1748	56	1	68.8	406.9	233.9	11393.7	452.8	532.19	611.59	1695.5	2034.6	2204.1	2360.7	2729.6	1695.5
O-Pile 225-1850	60	0.94	72.8	416.7	233.9	12500.3	455.78	535.67	615.56	1736.1	2083.4	2257	2417.3	2795.1	1736.1
O-Pile 226-2155	72	0.75	84.8	418.6	233.9	15070.6	440.27	517.58	594.88	1744.3	2093.1	2267.6	2428.7	2808.2	1744.3
O-Pile 226-2460	84	0.62	96.8	419.7	233.9	17628.8	429.62	505.15	580.68	1748.9	2098.7	2273.6	2435.1	2815.6	1748.9
O-Pile 234-1901	62	0.94	74.8	433.7	233.9	13444.2	470.81	553.21	635.6	1807	2168.4	2349.1	2516	2909.2	1807
O-Pile 239-1850	60	1	72.8	443.1	233.9	13291.8	484.88	569.61	654.35	1846.1	2215.3	2399.9	2570.4	2972	1846.1
O-Pile 244-2155	72	0.81	84.8	452.3	233.9	16283.9	475.57	558.76	641.95	1884.7	2261.7	2450.1	2624.2	3034.2	1884.7



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							50%	75%	100%						
in.	in.	in.	in ³ /ft	k/ft	in. ⁴ /ft	lbs/ft ²	lbs/ft ²	lbs/ft ²	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	k-ft/ft	
O-Pile 248-2460	84	0.69	96.8	460.7	233.9	19348.3	471.06	553.5	635.94	1919.5	2303.4	2495.3	2672.6	3090.2	1919.5
O-Pile 248-1901	62	1	74.8	461.2	233.9	14297	500.91	588.33	675.74	1921.6	2306	2498.1	2675.6	3093.7	1921.6
O-Pile 262-2155	72	0.88	84.8	485.9	233.9	17490.8	510.81	599.87	688.93	2024.4	2429.3	2631.7	2818.7	3259.1	2024.4
O-Pile 270-2460	84	0.75	96.8	501.4	233.9	21060.1	512.44	601.77	691.11	2089.3	2507.1	2716.1	2909.1	3363.6	2089.3
O-Pile 280-2155	72	0.94	84.8	519.2	233.9	18691.1	545.99	640.91	735.83	2163.3	2596	2812.3	3012.1	3482.8	2163.3
O-Pile 292-2460	84	0.81	96.8	542	233.9	22764	553.75	649.97	746.19	2258.3	2710	2935.8	3144.4	3635.7	2258.3
O-Pile 297-2155	72	1	84.8	552.4	233.9	19885.2	581.1	681.88	782.65	2301.5	2761.8	2992	3204.6	3705.3	2301.5
O-Pile 314-2460	84	0.88	96.8	582.4	233.9	24460.3	595.01	698.1	801.19	2426.6	2911.9	3154.6	3378.7	3906.7	2426.6
O-Pile 335-2460	84	0.94	96.8	622.6	233.9	26148.8	636.2	746.15	856.11	2594.1	3113	3372.4	3612	4176.3	2594.1
O-Pile 357-2460	84	1	96.8	662.6	233.9	27829.7	677.32	794.14	910.95	2760.9	3313.1	3589.1	3844.1	4444.8	2760.9