

O-Pile®

Predictable, Quantifiable Retaining Wall Systems for All Soil Types

Please see the corresponding US patents:
US8088469, US8323765

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O-Pile®

Overview

O-Pile® is a leader in predictable, quantifiable retaining wall systems that can be driven in all soil conditions. O-Pile® systems are a stronger, more efficient, durable, faster and cost-effective alternative to heavy Z-sheet pile, combined sheet pile utilizing pipes or beams, slurry, secant, continuous concrete walls and other conventional concrete constructions.

O-Pile® Attributes

1. Bending Moment Capacity (BMC) –

O-Pile® systems typically have a higher strength to weight ratio when compared to Z, U or combined sheet pile walls as they can be made using high strength coiled steel that exceeds the capabilities of hot rolled sheet pile, allowing for a much larger Bending Moment Capacity. For example O-Pile® is available in X80 to provide 80,000 yield strength, where by hot rolling sheet piling is limited to less than 65,000 and typically uses steel with a yield strength of 36,000 or 50,000. The selection of the steel grade has a marked impact on the structural resistance of the pile wall. Selecting a stronger steel grade such as X70 or X80 often allows using piles of smaller diameter or wall thickness.

2. Strong Efficient Connection –

WOM/WOF connectors have an interlock strength of 19.5 kips/inch (3418 kN/m); Figure 1 on the right clearly shows the high pull-out resistance of this connection which is over 4 times stronger than Larssen interlocking hot rolled sheet pile made in Luxembourg or China.

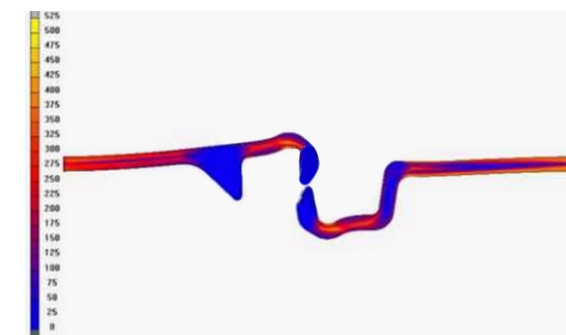
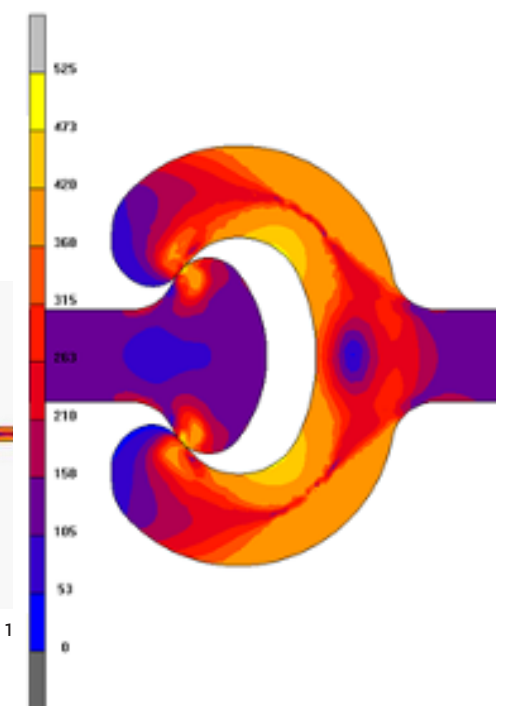
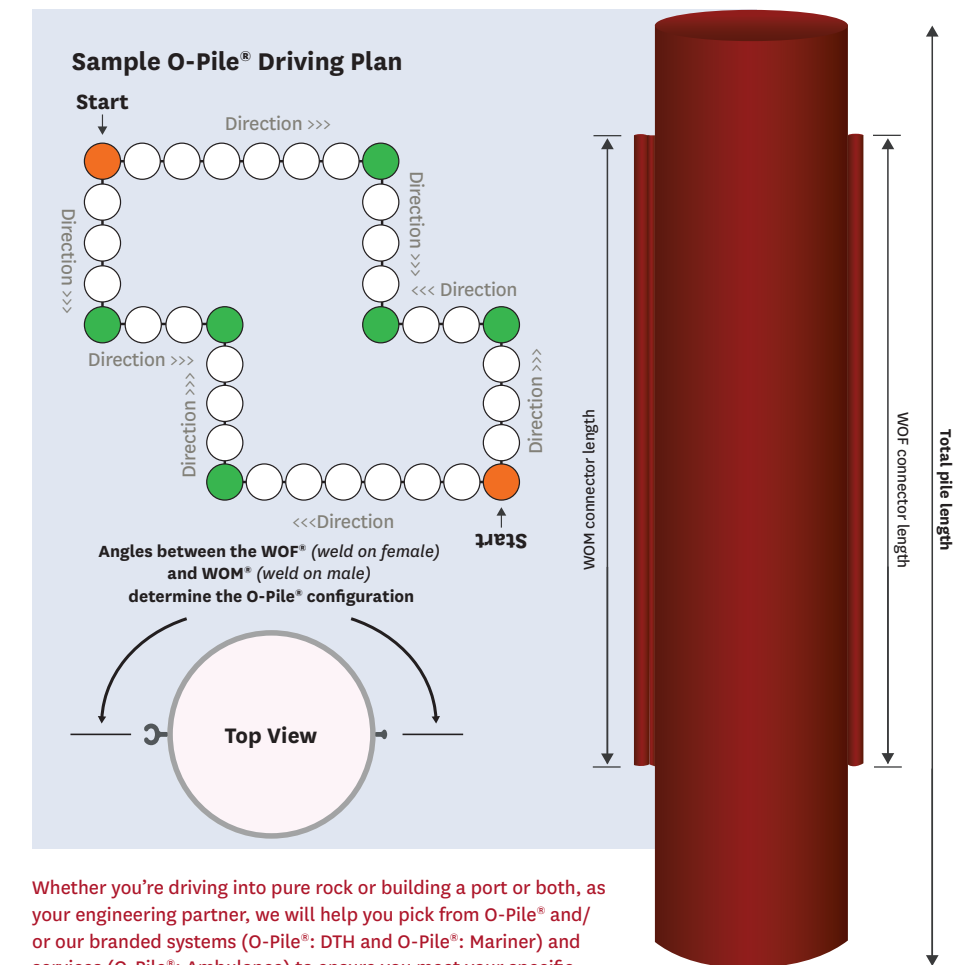


FIGURE 1

“Greater interlock strength improves integrity during driving and allows forces to be redistributed laterally along the wall.”

USACE: 2.1 Metal Sheet Piling UFGS -31 41 16 Page 13

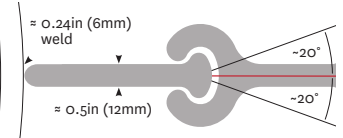
Whether you're driving into pure rock or building a port or both, as your engineering partner, we will help you pick from O-Pile® and/or our branded systems (O-Pile®: DTH and O-Pile®: Mariner) and services (O-Pile®: Ambulance) to ensure you meet your specific project needs.



A WOM/WOF® has a high pull out capacity of 19.5 kips/inch (3418 kN/m) compared to a Larssen 4.57 kips/inch (801 kN/m).

3. Superior Geometry for Durability – Each WOF/WOM connection provides 20 degrees of rotation to ease placement. O-Pile® has a distinct advantage over combined, Z and U sheet piles: O-Pile® saves costs with easier application of corrosion protection compared to other geometries, and by having a minimized exposed surface (See figure 2).

Furthermore, the interior of the pipe can be sealed off (capped or filled) from oxygen infiltration in order to avoid inside corrosion. Also, concrete can be poured inside the O- Pile® itself, thus further increasing strength while also preventing oxidization or corrosion on the interior surface, so O-Piles® have only the exterior face exposed to corrosion. This is in contrast to a beam king pile, which has all of its surface faces exposed to corrosive elements. O-Pile used in corrosive soil and/or water need only have corrosion allowance factored for the exterior surface of the pile.

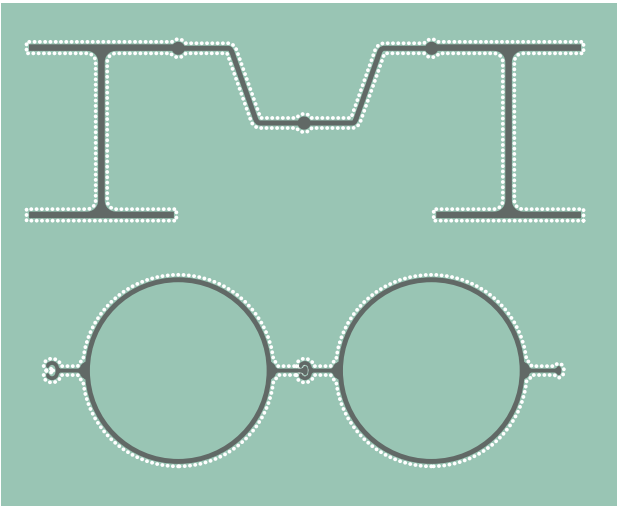


4. Positional Flexibility – Each WOF/WOM connection provides 20 degrees of rotation to ease placement.

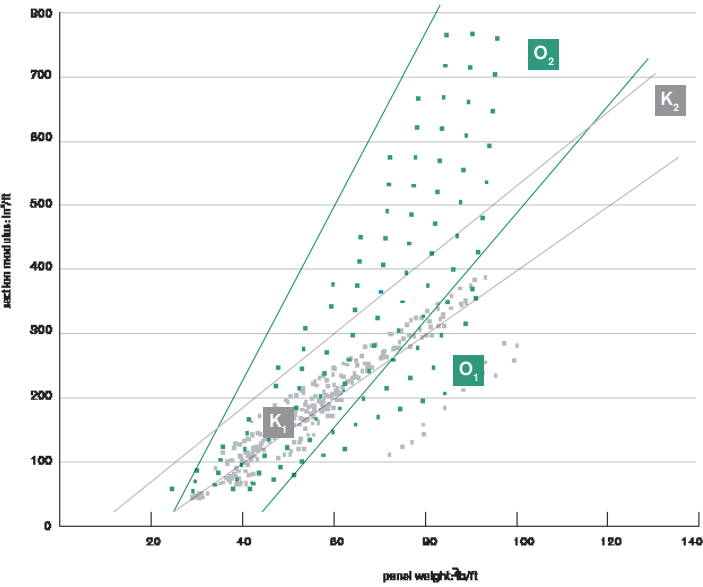
5. Unmatched Strength – O-Pile systems offer unmatched efficiency particularly where high capacity structures are involved. O-Pile systems achieve strength by increasing pipe diameter, which spreads weight gained over an increased width. This minimizes weight gain per sqft (sqm) and radically improves efficiency. This is in stark comparison to how a beam-based combi-wall system develops strength.

To illustrate this efficiency, below is a comparison of strength to weight for an O-Pile system and a King pile system.

	System	System Measurements	Strength Increase	Weight Increase
O ₁	O-Pile	762 x 25.4mm; 11,116 cm³/m; 207 ins²/ft; 410 kg/m²; 84 lbs/ft		
O ₂	O-Pile	2,134 x 25.4mm; 37,826 cm³/m; 703² ins²/ft; 464 kg/m²; 95 lbs/ft	X 3.4	X 1.13
K ₁	King pile beam system (1080mm beam with a 77mm sheet pile)	8,753 cm³/m; 163 ins³/ft; 205 kg/m²; 42 lbs/ft		
K ₂	King pile beam system (1080mm beam to beam)	29,330 cm³/m; 546 ins³/ft; 656 kg/m²; 134 lbs/ft²	X 3.3	X 3.2



Dotted white lines = exposed surface



6. Load-Bearing Capacity – The surcharge and lateral load-bearing capacity of pipe sheet pile is significantly higher than standard U- or Z-type sheet piles or combined wall systems of similar weight, because of its natural geometry.

7. Superior Durability – O-Pile systems have a distinct advantage over Z,U and combined sheet piles by having a minimized exposed surface. O-Pile only have a corrosion allowance factored for the exterior surface of the pile, unlike the other systems.

8. O-Pile: Mariner = Double Pipe thickness – allows you to “dial-in” thickness to meet your specific structural load and durability needs to ensure overall safety. Thickness can be increased specifically at the splash- and low-water zones for increased durability (See Figure on the right). Additional costly measures, such as coatings, special steel grades or cathodic protection, become unnecessary. This gives the most efficient use of steel and the most cost-effective solution for durability.

O-Pile® Mariner’s double pipe thickness targets design life and the use of sacrificial thickness, exactly where you need it–the “Zone of High Attack.” With a 100’ pipe, the thickness of the upper 10’ of pipe (denoted by arrows) beats the corrosion allowance, while the bottom 90’ of the pipe is dialed-in to meet load bearing needs (See Figure 3).

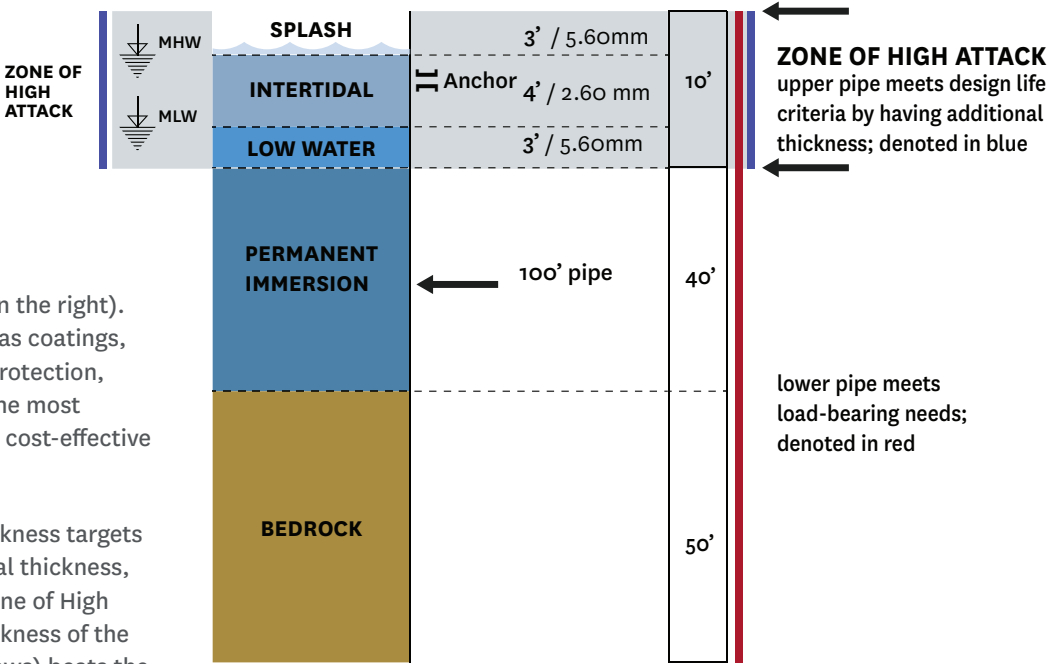
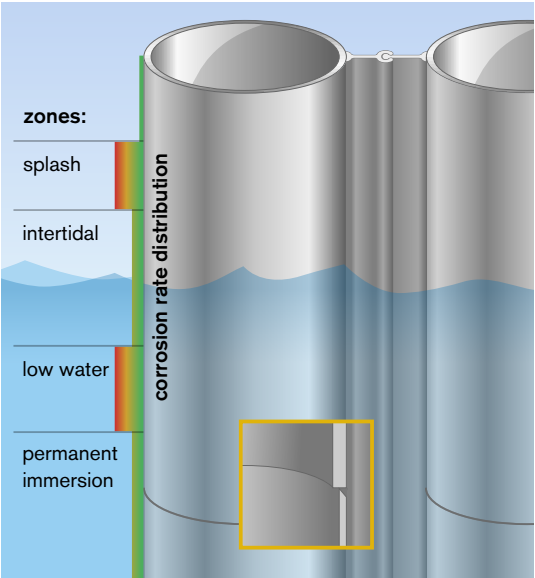


FIGURE 3



Yellow call out box shows how thickness can be “dialed in” to meet safety needs (e.g. structural load and durability).

9. Increased Savings – The increased Bending moment capabilities of O-Pile® allow the user to construct a stronger wall using much less steel, and hence at a much lower cost. O-Pile® works with our customers to ensure we meet your specific project needs. We don’t just sell you a product, we enter into a partnership that starts at the design stage and extends through implementation. Simply put, we deliver the most technically advanced and highly economical system available. Since we locally source pipes, we can always help you find the correct pile size in a broad range of steel grades, which allows you to implement a retaining wall or foundation structure with the best overall economy for all soil conditions and loading situations. O-Pile® offers a truly unmatched proven solution.

10. Ease of Installation – An O-Pile is much less challenging due to one single fact: O-Piles are supported throughout their installation, whereas combined sheet pile systems are not. Installation using WOF/WOM connections are simplified by the use of a template and panel installation method. The installation of the O-Pile section is similar to driving Z sheet pile pairs in a basic two frame template. At no stage is there a pipe pile entirely unsupported throughout its length as it is driven to grade. Each pipe is supported by adjacent pipes with a small lead ahead of the rest, ensuring accurate wall alignment.

11. O-Pile: via WADIT System = Watertight wall – WADIT, the globally proven sheet pile interlock sealant, comes pre-applied in the WOF interlock chamber before delivery to the job site. A purpose-built and globally proven sheet piling interlock sealant system, WADIT (short for WASSERDICHT, German for waterproof) is an environmentally friendly sealant that was developed to deliver robust water-stopping protection. WADIT is available for use anywhere with any type of sheet pile, including but not limited to O-Pile® and Z-Pile. The WADIT system can be utilized before driving sheet pile, in the middle interlock of already paired sheet pile and after the sheet pile has already been installed.

12. O-PILE: DTH (Down the Hole) Drilling – O-Pile®: DTH utilizes state-of-the-art DTH drilling techniques that allows its systems to be driven into any ground or rock strata at levels of productivity not achieved before. DTH drilling has been used in these challenging environments: post glacial soils of Norway, boulders of Sweden, granite of Finland, deep bed rock of Hong Kong, through heavy structure in Macau, etc. The O-Pile®: DTH Pile is installed with the centric drilling method using ring bits of a larger diameter than standard bits. The ring bit drills a hole larger than the pile to accommodate the WOF/ WOM connectors. Diameter from 16” (323mm) to 36” (914.4mm), ranging from a wide range of diameter pipe can be installed using O-Pile®: DTH. See O-Pile®: DTH Grid on page XX.

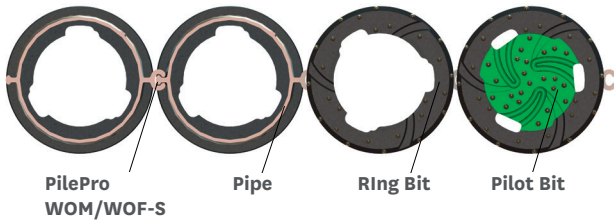
Predictable, quantifiable installation is possible even with difficult driving conditions, such as bed rock or job sites with heavy debris. Compared to driving a conventional combined sheet piles with beams or pipes, the installation using an O-Pile®: DTH system is much less challenging due to one single fact: O-Pile® systems are supported throughout their installation, whereas King pile combi-wall systems with pipes and beams are not.



Installation using flexible strong WOM/WOF connections are simplified by the use of a template and panel installation method.

The installation of O-Pile®: DTH Piles is similar to driving sheet pile pairs in a basic two frame template. At no stage is there a pipe pile entirely unsupported throughout its length as it is driven to grade. Each pipe is supported by adjacent pipes with a small lead ahead of the rest, ensuring accurate wall alignment. (See Figure 4.)

FIGURE 4
DTH-O-Pile
The Only SSP System that Can Be Driven Through Solid Rock.



When to use O-Pile®: DTH (Down the Hole)

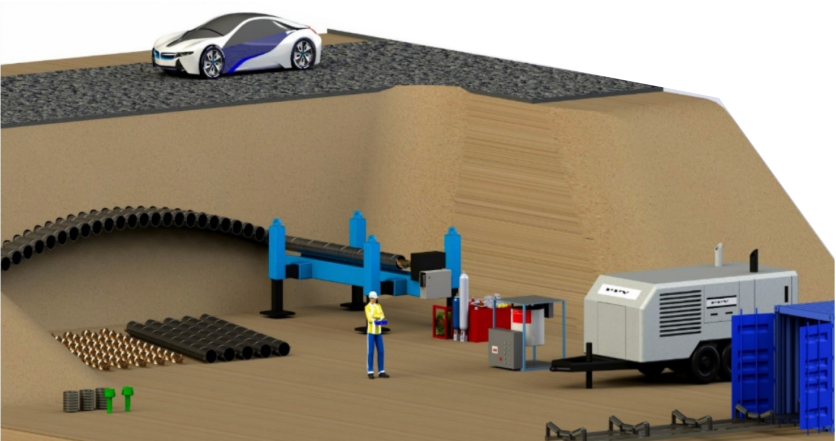
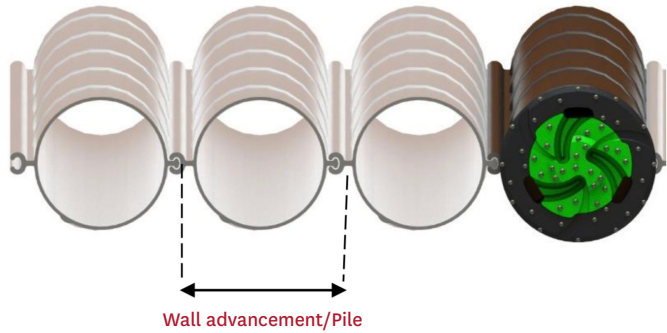
Environments and Uses. O-Pile®: DTH systems can be driven into environments where the rock strata exceeds 120 megapascals or other difficult environments at levels of productivity not achieved before by using the state-of-the-art Down-the-Hole (DTH) drilling technique.

Development of new Down The Hole (DTH) techniques, especially the introduction of new air control bits, is making DTH drilling safer and more environmentally friendly than ever before. Using DTH in urban areas and in sensitive ground is now possible; plus, there is no danger of overdrilling or air escaping, which could otherwise cause settlements to existing structures.

O-Pile® is an economical and reliable solution that suits all ground conditions. The product is on hand and ready to ship to most US destinations within two weeks to most destinations in North America.



O-Pile® template in marine environment.



Example of tunnel using O-Pile®:DTH using horizontal drilling. While vertical walls are assembled with standard DTH piling rigs, horizontal applications require special HZ rigs that can handle long element lengths as the space allows.

Frequently Asked Questions for O-Pile®

Can you install on O-Pile system in solid rock?

Yes, using the O-Pile “DTH Down the Hole” system. Click here for presentaiton.

What is an O-Pile system?

An O-shaped sheet pile is a pipe section with attached connector sections so that one section can be driven into the next to form a continuous steel wall with the same load bearing element.

The connector sections are connected together through an interlocking system. Eurocode 3 BS EN 1993-1995: 2007 Section 1.8.12 defines interlock as: The portion of a steel sheet pile or other sheeting that connects adjacent elements by means of a thumb and finger or similar configuration to make a continuous wall.



Picture illustrates the superior template and panel installation method that O-Pile systems utilize.

According to BS EN 10248-2 (European version of ASTM), “Interlocks shall have adequate free play, so that the piles can be fitted into each other and they must engage in such a manner that the in service forces can be transmitted.” For non-flat sheet piling such as the interlock connecting system in contiguous o-sheet piling, BS EN 10248-2 also allows for a 4 mm minimum engagement distance in the interlocks in order to effectively transfer forces.

It is important to note that hot rolled sheet piling has this minimum engagement distance of 4 mm while cold formed does not necessarily. This is why cold formed does not always transfer shear forces as effectively as hot rolled sheet piling.

US Army Corps of Engineers Unified Facilities Guide Specifications Document UFGS-31 41 16 page 13 notes: “interlock connections between hot rolled sheets provide much greater strength than cold formed connections. Greater interlock strength improves integrity during driving and allows forces to be redistributed laterally along the wall at changes in wall alignment...”

Why use an O-Pile sheet pile system?

Because we can take readily available pipes and begin a project to meet/exceed virtually any steel sheet piling requirements and begin delivery a ready to install system in days versus months.

How are z sheet pile and the O-Pile system similar?

They are both contiguous walls and hence much easier to install than a combined sheet pile wall.

Can you build an O-Pile wall with grade 80 or higher steel?

Yes, unlike hot rolled or cold rolled sheet pile systems that are limited to aboout grade 65 and most often produced with grade 50 steel, Pipes can be produced in higher grade of steel there-by giving the user is much higher bending moment per pound of steel.

What is bending moment important?

The best method for comparing SSP is via bending moment capacity, which incorporates the strength of the section due to its geometry (section modulus) and takes into account the steel grade: Bending moment capacity = elastic section modulus [m3/m] × minimum yield strength [kN/m2] (without safety factor) The BMC of a sheet pile section with a section modulus of 4019 cm3/m in a Steel Grade of S 355 is: 1427 (kNm/m) = 4.019 (m3/m) x 355 (N/mm2) The BMC of a sheet pile section with a section modulus of 2290 cm3/m in a Steel Grade of X70 is: 1111 (kNm/m) = 2.290 (m3/m) x 485 (N/mm2) Decades ago, when there was predominantly only one steel grade, engineers used section modulus as the main design criteria. But now that many steel grades are available and production technology has evolved, we will likely see more and more higher grade steel options in the future. A higher grade of steel results in a stronger wall for less weight; thus, the best measure of strength to compare SSP systems is bending moment capacity, which incorporates section modulus and steel grade into one number independent of

lifespan or safety factor. Incidentally, moment of inertia has no relationship to bending moment and is not typically a stand-alone criteria. Certain steel companies have pushed for moment of inertia to be placed as part of a primary specification and have, as a result, confused the term with the vital bending moment.

Where has the O-Pile system been used?

US, Canada, Japan, Russia, Ukraine, Norway, Finland, Sweden, Philippines and many other places.

Has the US Navy build an O-Pile system?

Yes.

When should I consider using an O-Pile system?

- a) When you need a sheet pile section that is stronger than a Z 40 level under normal soil conditions.
- b) When you need to install a wall into rock or boulders and you can not install a z sheet pile, please see the full details of how this is done by clicking here: www.o-pile.com/s/dth



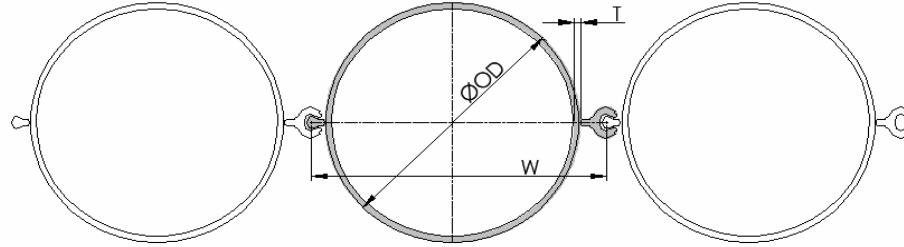
- C) When you have heavy loads where by filling the O-Pile with sand or cement increase the untily of the sheet pile system.
- D) For temporary applications, as you can reuse the O-Pile system easily.
- E) When you would like a sea wall to last a long time and be cost effective. You can make an O-Pile thicking in the zone of high attack the top section of the pile and also eliminate the need to coat the steel.





Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

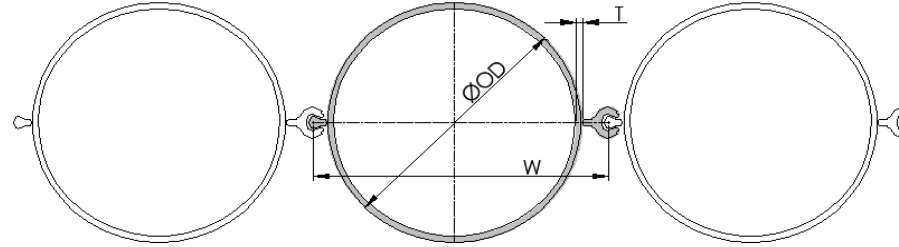
O-Pile® systems are available for immediate shipment, these are examples from an endless variety of possible O-Pile®, please configure your own system on O-Pile.com.

SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 19-388	323.8	9.52	387.8	1851.3	3413	29977.6	62.56	75.38	88.21	638.2	765.9	829.7	888.6	1027.5	638.2
O-Pile 22-834	508	9.52	834	2187.8	3413	55570.9	105.35	128.75	152.15	754.2	905.1	980.5	1050.2	1214.2	754.2
O-Pile 23-834	508	10	834	2290.5	3413	58177.8	109.64	133.76	157.87	789.6	947.5	1026.5	1099.4	1271.2	789.6
O-Pile 25-470	406.4	9.52	470.4	2447.6	3413	49735.8	77.1	92.35	107.6	843.8	1012.5	1096.9	1174.9	1358.4	843.8
O-Pile 26-834	508	11.11	834	2528.5	3413	64223.9	119.66	145.45	171.23	871.7	1046	1133.2	1213.7	1403.3	871.7
O-Pile 26-470	406.4	10	470.4	2560.6	3413	52031.9	80.5	96.32	112.13	882.7	1059.3	1147.6	1229.1	1421.1	882.7
O-Pile 27-688	508	9.52	688	2652.1	3413	67363.6	99.37	119.79	140.2	914.3	1097.1	1188.6	1273	1471.9	914.3
O-Pile 28-834	508	12	834	2716.1	3413	68988.1	127.62	154.73	181.85	936.3	1123.6	1217.2	1303.7	1507.4	936.3
O-Pile 28-688	508	10	688	2776.5	3413	70523.6	103.67	124.79	145.92	957.2	1148.6	1244.3	1332.7	1541	957.2
O-Pile 29-521	457.2	9.52	521.2	2817.9	3413	64417.7	86.05	102.79	119.53	971.4	1165.7	1262.9	1352.6	1563.9	971.4
O-Pile 29-470	406.4	11.11	470.4	2822	3413	57343.8	88.43	105.57	122.7	972.9	1167.4	1264.7	1354.6	1566.2	972.9
O-Pile 29-936	609.6	9.52	935.6	2835	3413	86409.4	123.25	149.63	176.02	977.3	1172.8	1270.5	1360.8	1573.4	977.3
O-Pile 29-834	508	12.7	834	2862.6	3413	72709	133.88	162.03	190.19	986.8	1184.2	1282.9	1374	1588.7	986.8
O-Pile 30-521	457.2	10	521.2	2949.2	3413	67418.3	89.9	107.28	124.66	1016.7	1220	1321.7	1415.6	1636.8	1016.7
O-Pile 30-936	609.6	10	935.6	2969.3	3413	90505.6	128.43	155.68	182.93	1023.6	1228.4	1330.7	1425.3	1648	1023.6
O-Pile 31-608	508	9.52	608	3001.1	3413	76227.2	96.1	114.88	133.65	1034.6	1241.5	1345	1440.5	1665.6	1034.6
O-Pile 31-470	406.4	12	470.4	3027.4	3413	61515.8	94.72	112.91	131.09	1043.6	1252.4	1356.7	1453.1	1680.2	1043.6
O-Pile 31-688	508	11.11	688	3065.1	3413	77852.9	113.68	136.48	159.28	1056.6	1268	1373.6	1471.2	1701.1	1056.6
O-Pile 32-608	508	10	608	3141.9	3413	79803	100.39	119.88	139.37	1083.1	1299.7	1408	1508.1	1743.7	1083.1
O-Pile 32-470	406.4	12.7	470.4	3187.3	3413	64765.6	99.67	118.67	137.68	1098.8	1318.5	1428.4	1529.9	1768.9	1098.8
O-Pile 32-572	508	9.52	572	3189.9	3413	81024.7	95	113.23	131.46	1099.7	1319.6	1429.6	1531.2	1770.4	1099.7
O-Pile 32-834	508	14.29	834	3190.1	3413	81028.2	148	178.51	209.02	1099.7	1319.7	1429.7	1531.2	1770.5	1099.7
O-Pile 33-521	457.2	11.11	521.2	3253.3	3413	74369.8	98.87	117.75	136.62	1121.5	1345.8	1458	1561.6	1805.6	1121.5
O-Pile 33-936	609.6	11.11	935.6	3281.6	3413	100022.2	140.54	169.81	199.08	1131.3	1357.5	1470.7	1575.2	1821.3	1131.3



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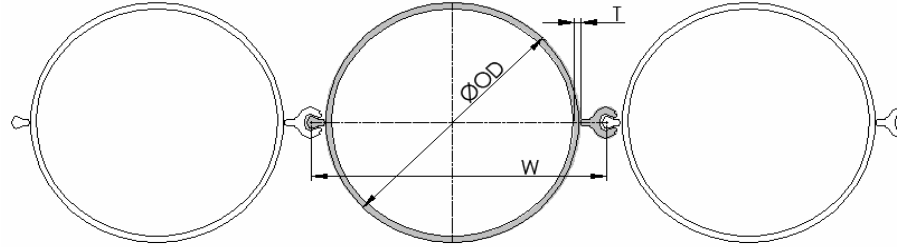
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				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 33-688	508	12	688	3292.4	3413	83628	121.64	145.77	169.9	1135	1362	1475.5	1580.4	1827.3	1135
O-Pile 34-572	508	10	572	3339.6	3413	84825.6	99.3	118.24	137.18	1151.3	1381.5	1496.7	1603	1853.5	1151.3
O-Pile 34-790	609.6	9.52	789.6	3359.1	3413	102386.8	117.27	140.67	164.07	1158	1389.6	1505.4	1612.4	1864.3	1158
O-Pile 35-608	508	11.11	608	3468.4	3413	88096.7	110.41	131.57	152.73	1195.7	1434.8	1554.4	1664.8	1924.9	1195.7
O-Pile 35-688	508	12.7	688	3470	3413	88138.5	127.9	153.07	178.24	1196.2	1435.5	1555.1	1665.6	1925.9	1196.2
O-Pile 35-521	457.2	12	521.2	3492.5	3413	79839.5	106	126.06	146.12	1204	1444.8	1565.2	1676.4	1938.4	1204
O-Pile 36-1037	711.2	9.52	1037.2	3504.2	3413	124609.5	141.15	170.52	199.88	1208	1449.6	1570.4	1682	1944.8	1208
O-Pile 36-834	508	15.88	834	3511.2	3413	89183.7	162.03	194.88	227.73	1210.4	1452.5	1573.6	1685.4	1948.7	1210.4
O-Pile 36-790	609.6	10	789.6	3518.4	3413	107240.4	122.46	146.72	170.98	1212.9	1455.5	1576.8	1688.8	1952.7	1212.9
O-Pile 36-936	609.6	12	935.6	3528.1	3413	107537.4	150.17	181.04	211.91	1216.3	1459.5	1581.2	1693.5	1958.1	1216.3
O-Pile 36-470	406.4	14.29	470.4	3543.5	3413	72004.1	110.81	131.67	152.53	1221.6	1465.9	1588.1	1700.9	1966.6	1221.6
O-Pile 37-1037	711.2	10	1037.2	3671.5	3413	130560.2	147.22	177.61	207.99	1265.7	1518.9	1645.4	1762.3	2037.7	1265.7
O-Pile 37-521	457.2	12.7	521.2	3679.2	3413	84106.4	111.6	132.59	153.59	1268.4	1522	1648.9	1766	2042	1268.4
O-Pile 37-572	508	11.11	572	3686.7	3413	93641.2	109.31	129.93	150.54	1270.9	1525.1	1652.2	1769.6	2046.1	1270.9
O-Pile 38-936	609.6	12.7	935.6	3721	3413	113416	157.74	189.88	222.01	1282.8	1539.3	1667.6	1786.1	2065.2	1282.8
O-Pile 38-608	508	12	608	3725.7	3413	94631.7	118.37	140.86	163.35	1284.4	1541.2	1669.7	1788.3	2067.7	1284.4
O-Pile 38-710	609.6	9.52	709.6	3737.9	3413	113929.8	114	135.76	157.52	1288.6	1546.3	1675.2	1794.2	2074.5	1288.6
O-Pile 39-1088	762	9.52	1088	3845.2	3413	146501.8	150.1	180.96	211.82	1325.6	1590.7	1723.3	1845.7	2134.1	1325.6
O-Pile 39-688	508	14.29	688	3867.1	3413	98223.1	142.03	169.55	197.07	1333.1	1599.7	1733.1	1856.2	2146.2	1333.1
O-Pile 39-790	609.6	11.11	789.6	3888.3	3413	118516.7	134.57	160.85	187.13	1340.5	1608.5	1742.6	1866.4	2158	1340.5
O-Pile 39-470	406.4	15.88	470.4	3890.9	3413	79062.4	121.85	144.56	167.26	1341.3	1609.6	1743.7	1867.6	2159.4	1341.3
O-Pile 40-710	609.6	10	709.6	3915	3413	119330.6	119.18	141.81	164.43	1349.7	1619.6	1754.6	1879.2	2172.9	1349.7
O-Pile 40-608	508	12.7	608	3926.6	3413	99735.7	124.63	148.16	171.69	1353.6	1624.4	1759.7	1884.8	2179.3	1353.6
O-Pile 40-674	609.6	9.52	673.6	3937.6	3413	120018.7	112.9	134.12	155.33	1357.4	1628.9	1764.7	1890.1	2185.4	1357.4
O-Pile 40-572	508	12	572	3960.1	3413	100587.6	117.27	139.21	161.16	1365.2	1638.3	1774.8	1900.9	2197.9	1365.2
O-Pile 41-1088	762	10	1088	4029.4	3413	153518.4	156.62	188.57	220.51	1389.1	1666.9	1805.8	1934.1	2236.3	1389.1
O-Pile 41-1037	711.2	11.11	1037.2	4060.8	3413	144403.2	161.42	194.17	226.92	1399.9	1679.9	1819.9	1949.2	2253.8	1399.9
O-Pile 41-891	711.2	9.52	891.2	4078.3	3413	145023.6	135.17	161.55	187.93	1405.9	1687.1	1827.7	1957.6	2263.4	1405.9

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Data Sheet

Predictable, Quantifiable Retaining Wall Systems for All Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

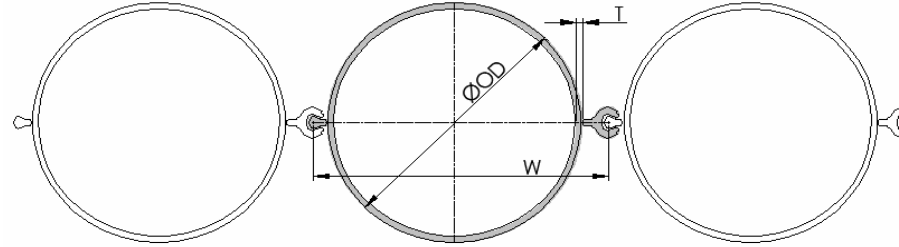
O-Pile® systems are available for immediate shipment, these are examples from an endless variety of possible O-Pile®, please configure your own system on O-Pile.com.

SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 41-521	457.2	14.29	521.2	4095.8	3413	93630.5	124.23	147.33	170.43	1412	1694.4	1835.6	1966	2273.2	1412
O-Pile 42-674	609.6	10	673.6	4124.3	3413	125708.1	118.09	140.16	162.24	1421.8	1706.2	1848.3	1979.7	2289	1421.8
O-Pile 42-834	508	19.05	834	4134.3	3413	105012.5	189.81	227.29	264.77	1425.3	1710.3	1852.8	1984.5	2294.6	1425.3
O-Pile 42-936	609.6	14.29	935.6	4153.3	3413	126593.6	174.85	209.83	244.82	1431.8	1718.2	1861.4	1993.6	2305.1	1431.8
O-Pile 42-572	508	12.7	572	4173.7	3413	106012.7	123.53	146.51	169.5	1438.8	1726.6	1870.5	2003.4	2316.4	1438.8
O-Pile 42-790	609.6	12	789.6	4180.5	3413	127421.5	144.19	172.08	199.96	1441.2	1729.4	1873.5	2006.6	2320.2	1441.2
O-Pile 42-1139	812.8	9.52	1138.8	4189.6	3413	170266.9	159.05	191.4	223.75	1444.3	1733.2	1877.6	2011	2325.2	1444.3
O-Pile 43-688	508	15.88	688	4256.3	3413	108109.3	156.06	185.92	215.78	1467.3	1760.8	1907.5	2043	2362.2	1467.3
O-Pile 43-891	711.2	10	891.2	4273	3413	151949.1	141.25	168.64	196.04	1473.1	1767.7	1915	2051.1	2371.5	1473.1
O-Pile 44-710	609.6	11.11	709.6	4326.7	3413	131878.2	131.29	155.93	180.58	1491.6	1789.9	1939.1	2076.8	2401.3	1491.6
O-Pile 44-1037	711.2	12	1037.2	4368.7	3413	155350	172.72	207.35	241.98	1506	1807.3	1957.9	2097	2424.6	1506
O-Pile 44-608	508	14.29	608	4375.9	3413	111147.2	138.75	164.64	190.52	1508.5	1810.2	1961.1	2100.4	2428.6	1508.5
O-Pile 44-1139	812.8	10	1138.8	4390.8	3413	178444	166.02	199.53	233.04	1513.7	1816.4	1967.8	2107.6	2436.9	1513.7
O-Pile 45-790	609.6	12.7	789.6	4409	3413	134387	151.77	180.91	210.06	1520	1823.9	1975.9	2116.3	2447	1520
O-Pile 45-942	762	9.52	942	4441.2	3413	169208.1	144.12	171.99	199.87	1531	1837.2	1990.3	2131.8	2464.8	1531
O-Pile 45-1088	762	11.11	1088	4458	3413	169849.3	171.87	206.35	240.84	1536.8	1844.2	1997.9	2139.8	2474.2	1536.8
O-Pile 45-811	711.2	9.52	811.2	4480.5	3413	159325.7	131.9	156.64	181.38	1544.6	1853.5	2008	2150.6	2486.7	1544.6
O-Pile 46-521	457.2	15.88	521.2	4503.3	3413	102945.3	136.77	161.96	187.15	1552.5	1862.9	2018.2	2161.6	2499.3	1552.5
O-Pile 46-1190	863.6	9.52	1189.6	4537.2	3413	195914.6	168	201.84	235.68	1564.1	1877	2033.4	2177.8	2518.1	1564.1
O-Pile 46-674	609.6	11.11	673.6	4558	3413	138926.4	130.2	154.29	178.39	1571.3	1885.6	2042.7	2187.8	2529.7	1571.3
O-Pile 46-936	609.6	15.88	935.6	4578.6	3413	139556.4	191.86	229.68	267.5	1578.4	1894.1	2052	2197.7	2541.1	1578.4
O-Pile 47-1037	711.2	12.7	1037.2	4609.8	3413	163924	181.61	217.72	253.83	1589.2	1907	2065.9	2212.7	2558.4	1589.2
O-Pile 47-572	508	14.29	572	4651.3	3413	118142.5	137.66	162.99	188.33	1603.5	1924.2	2084.5	2232.6	2581.5	1603.5
O-Pile 47-710	609.6	12	709.6	4651.8	3413	141786.9	140.92	167.17	193.41	1603.7	1924.4	2084.7	2232.9	2581.8	1603.7
O-Pile 47-942	762	10	942	4653.9	3413	177312.1	150.65	179.61	208.56	1604.4	1925.2	2085.7	2233.9	2582.9	1604.4
O-Pile 47-775	711.2	9.52	775.2	4688.5	3413	166724.7	130.8	155	179.19	1616.3	1939.6	2101.2	2250.5	2602.1	1616.3
O-Pile 47-811	711.2	10	811.2	4694.4	3413	166934.2	137.97	163.73	189.49	1618.4	1942	2103.9	2253.3	2605.4	1618.4
O-Pile 48-891	711.2	11.11	891.2	4726.1	3413	168059.9	155.45	185.21	214.97	1629.3	1955.1	2118	2268.5	2623	1629.3



Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

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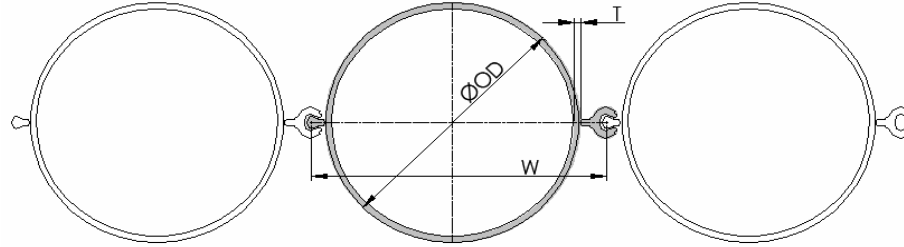
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 48-1190	863.6	10	1189.6	4755.5	3413	205343.8	175.41	210.49	245.57	1639.4	1967.3	2131.2	2282.7	2639.3	1639.4
O-Pile 48-885	558.8	19.05	884.8	4764.3	3413	133115.4	207.71	248.17	288.64	1642.4	1970.9	2135.2	2286.9	2644.2	1642.4
O-Pile 48-1088	762	12	1088	4797.1	3413	182771.1	184	220.5	257.01	1653.8	1984.5	2149.9	2302.6	2662.4	1653.8
O-Pile 49-993	812.8	9.52	992.8	4805.8	3413	195306.2	153.07	182.44	211.8	1656.7	1988.1	2153.7	2306.8	2667.2	1656.7
O-Pile 49-608	508	15.88	608	4816.3	3413	122334.2	152.78	181	209.23	1660.4	1992.4	2158.5	2311.8	2673.1	1660.4
O-Pile 49-862	762	9.52	862	4853.3	3413	184911.8	140.85	167.08	193.32	1673.1	2007.7	2175.1	2329.6	2693.6	1673.1
O-Pile 49-1139	812.8	11.11	1138.8	4859.2	3413	197479.8	182.31	218.54	254.76	1675.2	2010.2	2177.7	2332.4	2696.9	1675.2
O-Pile 49-1240	914.4	9.52	1240.4	4887.3	3413	223448.1	176.95	212.28	247.62	1684.8	2021.8	2190.3	2345.9	2712.5	1684.8
O-Pile 50-674	609.6	12	673.6	4900.4	3413	149364.6	139.82	165.52	191.22	1689.4	2027.2	2196.2	2352.2	2719.7	1689.4
O-Pile 50-710	609.6	12.7	709.6	4906.1	3413	149537.8	148.49	176	203.51	1691.3	2029.6	2198.7	2354.9	2722.9	1691.3
O-Pile 50-775	711.2	10	775.2	4912.4	3413	174686.5	136.88	162.09	187.3	1693.5	2032.2	2201.6	2358	2726.4	1693.5
O-Pile 50-790	609.6	14.29	789.6	4921.3	3413	150001.3	168.87	200.87	232.87	1696.6	2035.9	2205.5	2362.2	2731.3	1696.6
O-Pile 50-936	609.6	17.46	935.6	4997	3413	152307.6	208.78	249.42	290.06	1722.6	2067.2	2239.4	2398.5	2773.3	1722.6
O-Pile 51-688	508	19.05	688	5011.7	3413	127297.1	183.84	218.33	252.82	1727.7	2073.3	2246	2405.6	2781.5	1727.7
O-Pile 51-993	812.8	10	992.8	5036.6	3413	204685.7	160.04	190.57	221.09	1736.3	2083.5	2257.2	2417.5	2795.3	1736.3
O-Pile 51-1088	762	12.7	1088	5062.9	3413	192897.1	193.54	231.64	269.74	1745.4	2094.5	2269	2430.2	2809.9	1745.4
O-Pile 51-826	762	9.52	826	5064.9	3413	192970.9	139.75	165.44	191.13	1746	2095.3	2269.9	2431.1	2811	1746
O-Pile 51-891	711.2	12	891.2	5084.4	3413	180800	166.74	198.39	230.03	1752.8	2103.3	2278.6	2440.5	2821.8	1752.8
O-Pile 51-862	762	10	862	5085.8	3413	193768	147.37	174.69	202.01	1753.3	2103.9	2279.2	2441.2	2822.6	1753.3
O-Pile 52-572	508	15.88	572	5119.4	3413	130033.6	151.69	179.36	207.04	1764.9	2117.8	2294.3	2457.3	2841.3	1764.9
O-Pile 52-1240	914.4	10	1240.4	5123	3413	234224.4	184.81	221.45	258.1	1766.1	2119.3	2295.9	2459	2843.3	1766.1
O-Pile 52-942	762	11.11	942	5148.9	3413	196174.1	165.89	197.39	228.89	1775	2130	2307.5	2471.5	2857.7	1775
O-Pile 52-1037	711.2	14.29	1037.2	5151.2	3413	183176.8	201.7	241.16	280.62	1775.8	2131	2308.6	2472.6	2858.9	1775.8
O-Pile 52-674	609.6	12.7	673.6	5168.3	3413	157529.7	147.4	174.36	201.32	1781.7	2138	2316.2	2480.8	2868.4	1781.7
O-Pile 52-1044	863.6	9.52	1043.6	5171.9	3413	223323.1	162.02	192.88	223.73	1783	2139.5	2317.8	2482.5	2870.4	1783
O-Pile 52-811	711.2	11.11	811.2	5192.2	3413	184633.9	152.17	180.3	208.42	1789.9	2147.9	2326.9	2492.2	2881.7	1789.9
O-Pile 53-913	812.8	9.52	912.8	5227	3413	212423.3	149.8	177.52	205.25	1801.9	2162.3	2342.5	2508.9	2901	1801.9
O-Pile 53-1139	812.8	12	1138.8	5230.1	3413	212550.9	195.27	233.66	272.05	1803	2163.6	2343.9	2510.4	2902.7	1803

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O-Pile 52 - 1044

KEY: (52 = Section Modulus)

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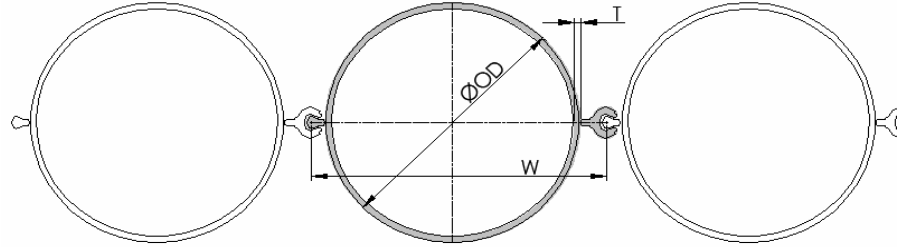
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 53-1291	965.2	9.52	1291.2	5239.8	3413	252874.8	185.9	222.72	259.55	1806.4	2167.6	2348.3	2515.1	2908.1	1806.4
O-Pile 53-1190	863.6	11.11	1189.6	5264.1	3413	227305	192.75	230.72	268.69	1814.7	2177.7	2359.2	2526.8	2921.6	1814.7
O-Pile 54-826	762	10	826	5307.4	3413	202213.1	146.28	173.05	199.82	1829.7	2195.6	2378.6	2547.6	2945.6	1829.7
O-Pile 54-891	711.2	12.7	891.2	5365	3413	190778.7	175.63	208.76	241.88	1849.5	2219.4	2404.4	2575.2	2977.6	1849.5
O-Pile 55-936	609.6	19.05	935.6	5408.4	3413	164849.3	225.61	269.06	312.5	1864.5	2237.4	2423.8	2596.1	3001.7	1864.5
O-Pile 55-1044	863.6	10	1043.6	5420.8	3413	234071.5	169.44	201.53	233.62	1868.8	2242.5	2429.4	2602	3008.6	1868.8
O-Pile 55-790	609.6	15.88	789.6	5425.2	3413	165360.9	185.89	220.72	255.55	1870.3	2244.3	2431.4	2604.1	3011	1870.3
O-Pile 55-775	711.2	11.11	775.2	5433.3	3413	193208.2	151.08	178.65	206.23	1873.1	2247.7	2435	2608	3015.5	1873.1
O-Pile 55-877	812.8	9.52	876.8	5441.6	3413	221145.1	148.7	175.88	203.06	1875.9	2251.1	2438.7	2611.9	3020.1	1875.9
O-Pile 55-710	609.6	14.29	709.6	5476.1	3413	166912.3	165.6	195.96	226.32	1887.8	2265.4	2454.2	2628.5	3039.3	1887.8
O-Pile 55-913	812.8	10	912.8	5478	3413	222624.9	156.77	185.65	214.54	1888.5	2266.2	2455	2629.4	3040.3	1888.5
O-Pile 55-1291	965.2	10	1291.2	5493	3413	265092.2	194.21	232.42	270.63	1893.6	2272.4	2461.7	2636.6	3048.6	1893.6
O-Pile 56-1139	812.8	12.7	1138.8	5520.8	3413	224366.9	205.47	245.56	285.65	1903.2	2283.9	2474.2	2650	3064.1	1903.2
O-Pile 56-1094	914.4	9.52	1094.4	5539.3	3413	253257.5	170.97	203.32	235.67	1909.6	2291.5	2482.5	2658.9	3074.3	1909.6
O-Pile 56-942	762	12	942	5540.6	3413	211098.7	178.02	211.54	245.06	1910.1	2292.1	2483.1	2659.5	3075.1	1910.1
O-Pile 56-993	812.8	11.11	992.8	5573.8	3413	226521	176.33	209.57	242.81	1921.5	2305.8	2498	2675.4	3093.5	1921.5
O-Pile 56-811	711.2	12	811.2	5585.8	3413	198630.4	163.47	193.47	223.48	1925.6	2310.8	2503.3	2681.2	3100.1	1925.6
O-Pile 56-1342	1016	9.52	1342	5594.4	3413	284197.5	194.85	233.16	271.48	1928.6	2314.3	2507.2	2685.3	3104.9	1928.6
O-Pile 57-964	863.6	9.52	963.6	5601.3	3413	241863.8	158.75	187.97	217.18	1931	2317.2	2510.3	2688.6	3108.7	1931
O-Pile 57-862	762	11.11	862	5626.8	3413	214380.5	162.62	192.48	222.34	1939.8	2327.7	2521.7	2700.9	3122.9	1939.8
O-Pile 57-1088	762	14.29	1088	5660.1	3413	215649.8	215.12	256.82	298.52	1951.3	2341.5	2536.6	2716.8	3141.4	1951.3
O-Pile 57-1190	863.6	12	1189.6	5667	3413	244699.9	206.55	246.81	287.08	1953.6	2344.3	2539.7	2720.1	3145.2	1953.6
O-Pile 57-608	508	19.05	608	5671.1	3413	144046.7	180.56	213.42	246.27	1955.1	2346.1	2541.6	2722.1	3147.5	1955.1
O-Pile 57-1240	914.4	11.11	1240.4	5672.2	3413	259330.9	203.19	242.9	282.61	1955.4	2346.5	2542	2722.6	3148	1955.4
O-Pile 57-1037	711.2	15.88	1037.2	5685.1	3413	202162.6	221.7	264.49	307.28	1959.9	2351.8	2547.8	2728.9	3155.2	1959.9
O-Pile 58-877	812.8	10	876.8	5702.9	3413	231765.5	155.67	184.01	212.35	1966	2359.2	2555.8	2737.4	3165.1	1966
O-Pile 58-739	558.8	19.05	738.8	5705.8	3413	159421.4	201.74	239.21	276.69	1967	2360.4	2557.1	2738.8	3166.7	1967
O-Pile 58-674	609.6	14.29	673.6	5768.8	3413	175832.8	164.5	194.32	224.13	1988.7	2386.5	2585.3	2769	3201.7	1988.7

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Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

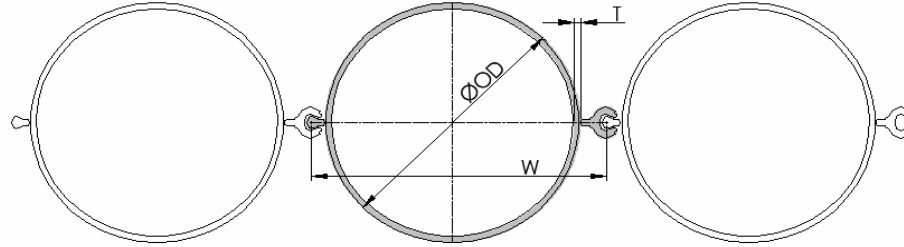
O-Pile® systems are available for immediate shipment, these are examples from an endless variety of possible O-Pile®, please configure your own system on O-Pile.com.

SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 59-1094	914.4	10	1094.4	5806.5	3413	265471.5	178.83	212.49	246.15	2001.7	2402	2602.2	2787.1	3222.6	2001.7
O-Pile 59-936	609.6	20.64	935.6	5813.1	3413	177183.6	242.35	288.58	334.81	2004	2404.8	2605.2	2790.3	3226.3	2004
O-Pile 59-928	863.6	9.52	927.6	5818.7	3413	251250.5	157.65	186.32	214.99	2005.9	2407.1	2607.7	2793	3229.4	2005.9
O-Pile 59-775	711.2	12	775.2	5845.2	3413	207854.7	162.37	191.83	221.29	2015.1	2418.1	2619.6	2805.7	3244.1	2015.1
O-Pile 59-942	762	12.7	942	5847.6	3413	222794.1	187.57	222.68	257.79	2015.9	2419.1	2620.7	2806.9	3245.4	2015.9
O-Pile 59-1342	1016	10	1342	5865.2	3413	297950.8	203.6	243.38	283.15	2021.9	2426.3	2628.5	2815.3	3255.2	2021.9
O-Pile 59-964	863.6	10	963.6	5870.9	3413	253504.6	166.16	196.62	227.07	2023.9	2428.7	2631.1	2818	3258.3	2023.9
O-Pile 59-826	762	11.11	826	5872	3413	223724	161.52	190.84	220.15	2024.3	2429.2	2631.6	2818.6	3259	2024.3
O-Pile 59-811	711.2	12.7	811.2	5894.1	3413	209593.2	172.36	203.84	235.33	2031.9	2438.3	2641.5	2829.2	3271.2	2031.9
O-Pile 60-1145	965.2	9.52	1145.2	5907.9	3413	285113.5	179.92	213.76	247.6	2036.7	2444	2647.7	2835.8	3278.9	2036.7
O-Pile 60-790	609.6	17.46	789.6	5920.9	3413	180469.9	202.81	240.46	278.11	2041.2	2449.4	2653.5	2842	3286.1	2041.2
O-Pile 60-1393	1066.8	9.52	1392.8	5950.9	3413	317421	203.8	243.61	283.41	2051.5	2461.8	2666.9	2856.4	3302.7	2051.5
O-Pile 60-1014	914.4	9.52	1014.4	5976.2	3413	273230.5	167.7	198.41	229.12	2060.2	2472.3	2678.3	2868.6	3316.8	2060.2
O-Pile 60-1190	863.6	12.7	1189.6	5982.9	3413	258342.3	217.41	259.48	301.56	2062.5	2475	2681.3	2871.8	3320.5	2062.5
O-Pile 60-891	711.2	14.29	891.2	5995.1	3413	213185.6	195.72	232.2	268.67	2066.7	2480.1	2686.8	2877.6	3327.3	2066.7
O-Pile 60-993	812.8	12	992.8	5999.2	3413	243808.4	189.3	224.7	260.1	2068.2	2481.8	2688.6	2879.6	3329.6	2068.2
O-Pile 61-1044	863.6	11.11	1043.6	6000.6	3413	259105	186.77	221.75	256.74	2068.6	2482.3	2689.2	2880.3	3330.3	2068.6
O-Pile 61-572	508	19.05	572	6028.1	3413	153112.6	179.47	211.77	244.08	2078.1	2493.7	2701.5	2893.5	3345.6	2078.1
O-Pile 61-710	609.6	15.88	709.6	6036.9	3413	184003.7	182.61	215.81	249	2081.1	2497.4	2705.5	2897.7	3350.5	2081.1
O-Pile 61-862	762	12	862	6054.9	3413	230690.3	174.75	206.63	238.51	2087.3	2504.8	2713.5	2906.3	3360.4	2087.3
O-Pile 61-913	812.8	11.11	912.8	6062.3	3413	246373.8	173.06	204.66	236.26	2089.9	2507.9	2716.9	2909.9	3364.6	2089.9
O-Pile 61-1291	965.2	11.11	1291.2	6083	3413	293563.4	213.63	255.08	296.53	2097	2516.4	2726.1	2919.8	3376	2097
O-Pile 61-928	863.6	10	927.6	6098.7	3413	263343	165.07	194.97	224.88	2102.5	2523	2733.2	2927.4	3384.8	2102.5
O-Pile 62-1240	914.4	12	1240.4	6107.3	3413	279224.4	217.82	259.97	302.11	2105.4	2526.5	2737	2931.5	3389.5	2105.4
O-Pile 62-775	711.2	12.7	775.2	6167.8	3413	219326.6	171.26	202.2	233.14	2126.3	2551.5	2764.2	2960.5	3423.1	2126.3
O-Pile 62-1139	812.8	14.29	1138.8	6174.5	3413	250929.9	228.55	272.48	316.42	2128.6	2554.3	2767.1	2963.7	3426.8	2128.6
O-Pile 62-1145	965.2	10	1145.2	6193.3	3413	298888.4	188.23	223.45	258.68	2135.1	2562.1	2775.6	2972.8	3437.3	2135.1
O-Pile 62-978	914.4	9.52	978.4	6196.1	3413	283283.9	166.6	196.76	226.93	2136	2563.2	2776.8	2974.1	3438.8	2136



Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

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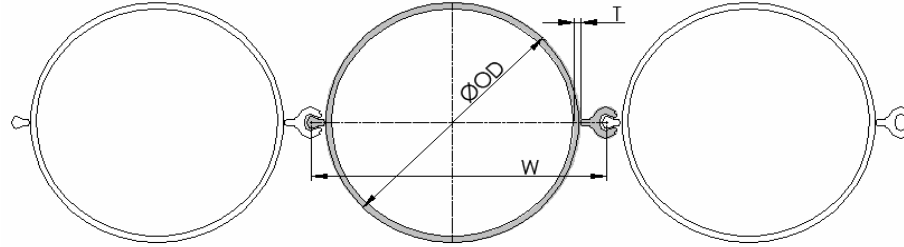
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 63-936	609.6	22.22	935.6	6211	3413	189312.7	258.99	307.99	357	2141.2	2569.4	2783.5	2981.3	3447.1	2141.2
O-Pile 63-1037	711.2	17.46	1037.2	6211.6	3413	220884.1	241.6	287.71	333.82	2141.4	2569.6	2783.8	2981.6	3447.4	2141.4
O-Pile 63-1393	1066.8	10	1392.8	6239.3	3413	332803.7	213	254.34	295.68	2150.9	2581.1	2796.2	2994.9	3462.8	2150.9
O-Pile 63-1088	762	15.88	1088	6249.6	3413	238109.4	236.61	281.89	327.17	2154.5	2585.4	2800.8	2999.8	3468.5	2154.5
O-Pile 63-1014	914.4	10	1014.4	6264.4	3413	286407.7	175.56	207.58	239.6	2159.6	2591.5	2807.4	3006.9	3476.7	2159.6
O-Pile 63-1196	1016	9.52	1196	6277.4	3413	318890.5	188.87	224.2	259.53	2164	2596.9	2813.3	3013.1	3483.9	2164
O-Pile 64-1444	1117.6	9.52	1443.6	6309	3413	352547.1	212.75	254.05	295.35	2175	2609.9	2827.4	3028.3	3501.5	2175
O-Pile 64-877	812.8	11.11	876.8	6311.3	3413	256489.5	171.96	203.02	234.07	2175.7	2610.9	2828.4	3029.4	3502.7	2175.7
O-Pile 64-826	762	12	826	6318.8	3413	240744.6	173.65	204.99	236.32	2178.3	2614	2831.8	3033	3506.9	2178.3
O-Pile 64-993	812.8	12.7	992.8	6332.7	3413	257362	199.5	236.6	273.7	2183.1	2619.8	2838.1	3039.7	3514.7	2183.1
O-Pile 64-1065	965.2	9.52	1065.2	6351.6	3413	306526.5	176.65	208.85	241.05	2189.6	2627.5	2846.5	3048.8	3525.1	2189.6
O-Pile 64-674	609.6	15.88	673.6	6359.5	3413	193837.6	181.52	214.17	246.81	2192.4	2630.8	2850.1	3052.6	3529.5	2192.4
O-Pile 64-862	762	12.7	862	6390.3	3413	243471	184.29	217.77	251.24	2203	2643.6	2863.9	3067.4	3546.6	2203
O-Pile 64-659	558.8	19.05	658.8	6398.7	3413	178780.4	198.46	234.3	270.14	2205.9	2647.1	2867.6	3071.4	3551.3	2205.9
O-Pile 65-948	622.3	22.22	948.3	6400.3	3413	199144.3	264.21	314.08	363.96	2206.4	2647.7	2868.3	3072.1	3552.1	2206.4
O-Pile 65-790	609.6	19.05	789.6	6408.5	3413	195330.5	219.64	260.09	300.55	2209.2	2651.1	2872	3076.1	3556.7	2209.2
O-Pile 65-1094	914.4	11.11	1094.4	6428.9	3413	293927.3	197.22	233.94	270.66	2216.3	2659.5	2881.1	3085.9	3568	2216.3
O-Pile 65-1240	914.4	12.7	1240.4	6448.6	3413	294831.5	229.34	273.41	317.47	2223.1	2667.7	2890	3095.3	3579	2223.1
O-Pile 65-1044	863.6	12	1043.6	6459.8	3413	278933.5	200.57	237.85	275.13	2226.9	2672.3	2895	3100.7	3585.2	2226.9
O-Pile 65-978	914.4	10	978.4	6494.9	3413	296946	174.46	205.94	237.41	2239	2686.8	2910.7	3117.5	3604.7	2239
O-Pile 65-1342	1016	11.11	1342	6496.2	3413	330008.2	224.07	267.26	310.45	2239.5	2687.4	2911.3	3118.2	3605.4	2239.5
O-Pile 65-964	863.6	11.11	963.6	6498.8	3413	280616.4	183.5	216.84	250.19	2240.4	2688.4	2912.5	3119.4	3606.8	2240.4
O-Pile 66-913	812.8	12	912.8	6525	3413	265176.4	186.02	219.78	253.55	2249.4	2699.3	2924.2	3132	3621.4	2249.4
O-Pile 66-942	762	14.29	942	6537.4	3413	249073.2	209.15	247.86	286.57	2253.7	2704.4	2929.8	3137.9	3628.2	2253.7
O-Pile 66-1291	965.2	12	1291.2	6550.6	3413	316132.3	229.1	273.12	317.15	2258.2	2709.9	2935.7	3144.3	3635.6	2258.2
O-Pile 66-1029	965.2	9.52	1029.2	6573.7	3413	317248.3	175.55	207.21	238.86	2266.2	2719.5	2946.1	3155.4	3648.4	2266.2
O-Pile 66-1196	1016	10	1196	6581.2	3413	334322.7	197.63	234.42	271.2	2268.8	2722.5	2949.4	3159	3652.5	2268.8
O-Pile 66-811	711.2	14.29	811.2	6586.3	3413	234209.8	192.45	227.28	262.12	2270.6	2724.7	2951.7	3161.4	3655.4	2270.6

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Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

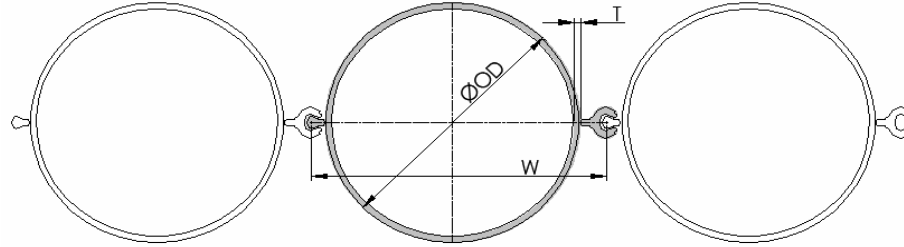
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SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 66-710	609.6	17.46	709.6	6588.4	3413	200816	199.53	235.55	271.56	2271.3	2725.5	2952.7	3162.5	3656.6	2271.3
O-Pile 67-936	609.6	23.81	935.6	6602.3	3413	201238.8	275.53	327.3	379.06	2276.1	2731.3	2958.9	3169.1	3664.3	2276.1
O-Pile 67-1444	1117.6	10	1443.6	6615.2	3413	369655.7	222.39	265.3	308.21	2280.5	2736.6	2964.6	3175.3	3671.4	2280.5
O-Pile 67-891	711.2	15.88	891.2	6616.5	3413	235281.6	215.72	255.53	295.33	2280.9	2737.1	2965.2	3175.9	3672.1	2280.9
O-Pile 67-1247	1066.8	9.52	1246.8	6647.7	3413	354591	197.82	234.64	271.46	2291.7	2750.1	2979.2	3190.9	3689.5	2291.7
O-Pile 67-1065	965.2	10	1065.2	6658.4	3413	321335.9	184.96	218.54	252.13	2295.4	2754.5	2984	3196	3695.4	2295.4
O-Pile 67-826	762	12.7	826	6668.8	3413	254082.3	183.2	216.12	249.05	2299	2758.8	2988.7	3201	3701.2	2299
O-Pile 67-1190	863.6	14.29	1189.6	6693.6	3413	289028.2	241.97	288.14	334.32	2307.5	2769	2999.8	3212.9	3714.9	2307.5
O-Pile 68-1116	1016	9.52	1116	6727.4	3413	341750	185.6	219.29	252.98	2319.2	2783	3014.9	3229.1	3733.7	2319.2
O-Pile 68-1037	711.2	19.05	1037.2	6730.7	3413	239343.4	261.41	310.82	360.23	2320.3	2784.4	3016.4	3230.7	3735.5	2320.3
O-Pile 68-928	863.6	11.11	927.6	6751	3413	291507.1	182.4	215.2	248	2327.3	2792.8	3025.5	3240.5	3746.8	2327.3
O-Pile 68-623	558.8	19.05	622.8	6768.6	3413	189114.5	197.37	232.66	267.95	2333.4	2800.1	3033.4	3248.9	3756.6	2333.4
O-Pile 68-877	812.8	12	876.8	6792.9	3413	276064.1	184.93	218.14	251.36	2341.8	2810.1	3044.3	3260.6	3770.1	2341.8
O-Pile 69-1044	863.6	12.7	1043.6	6819.9	3413	294484.5	211.43	250.52	289.61	2351.1	2821.3	3056.4	3273.6	3785.1	2351.1
O-Pile 69-1139	812.8	15.88	1138.8	6820.2	3413	277173.3	251.53	299.29	347.06	2351.2	2821.4	3056.5	3273.7	3785.2	2351.2
O-Pile 69-1088	762	17.46	1088	6831.4	3413	260277.6	258.01	306.85	355.7	2355.1	2826.1	3061.6	3279.1	3791.4	2355.1
O-Pile 69-1145	965.2	11.11	1145.2	6858.5	3413	330989.3	207.66	246.12	284.58	2364.4	2837.2	3073.7	3292.1	3806.4	2364.4
O-Pile 69-913	812.8	12.7	912.8	6887.7	3413	279917.8	196.22	231.69	267.15	2374.5	2849.4	3086.8	3306.1	3822.7	2374.5
O-Pile 69-790	609.6	20.64	789.6	6888	3413	209945.5	236.37	279.62	322.86	2374.5	2849.5	3086.9	3306.2	3822.8	2374.5
O-Pile 69-1029	965.2	10	1029.2	6891.3	3413	332575.8	183.86	216.9	249.94	2375.7	2850.8	3088.4	3307.8	3824.7	2375.7
O-Pile 69-775	711.2	14.29	775.2	6892.2	3413	245086.4	191.35	225.64	259.93	2376	2851.2	3088.8	3308.3	3825.2	2376
O-Pile 70-1393	1066.8	11.11	1392.8	6911.7	3413	368669.6	234.51	279.44	324.37	2382.7	2859.3	3097.5	3317.6	3836	2382.7
O-Pile 70-1291	965.2	12.7	1291.2	6917.6	3413	333842.9	241.27	287.33	333.38	2384.8	2861.7	3100.2	3320.4	3839.3	2384.8
O-Pile 70-1094	914.4	12	1094.4	6922	3413	316474.8	211.85	251.01	290.16	2386.3	2863.5	3102.2	3322.6	3841.7	2386.3
O-Pile 70-1014	914.4	11.11	1014.4	6935.9	3413	317107.6	193.94	229.02	264.11	2391.1	2869.3	3108.4	3329.2	3849.4	2391.1
O-Pile 70-674	609.6	17.46	673.6	6940.6	3413	211548.4	198.44	233.91	269.37	2392.7	2871.2	3110.5	3331.5	3852	2392.7
O-Pile 70-1080	1016	9.52	1080	6951.6	3413	353141.7	184.5	217.65	250.79	2396.5	2875.8	3115.4	3336.8	3858.1	2396.5
O-Pile 70-1247	1066.8	10	1246.8	6969.9	3413	371774.9	207.02	245.38	283.73	2402.8	2883.3	3123.6	3345.6	3868.3	2402.8



Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

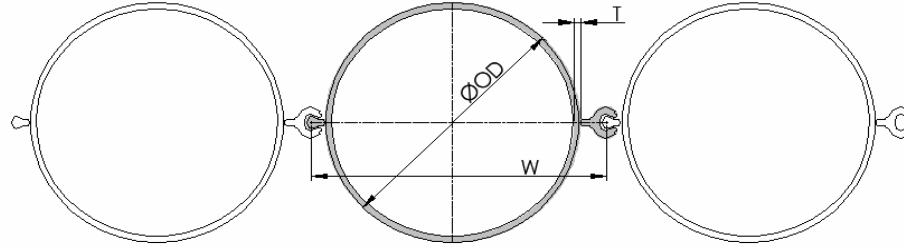
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SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 70-936	609.6	25.4	935.6	6987	3413	212964.9	291.99	346.5	401	2408.7	2890.4	3131.3	3353.8	3877.8	2408.7
O-Pile 70-964	863.6	12	963.6	6996.1	3413	302091.1	197.3	232.94	268.58	2411.8	2894.2	3135.4	3358.1	3882.8	2411.8
O-Pile 70-1342	1016	12	1342	6996.6	3413	355428.5	240.37	286.28	332.18	2412	2894.4	3135.6	3358.4	3883.1	2412
O-Pile 71-1298	1117.6	9.52	1297.6	7018.9	3413	392214.1	206.77	245.08	283.4	2419.7	2903.6	3145.6	3369.1	3895.5	2419.7
O-Pile 71-1545	1219.2	9.52	1545.2	7029.6	3413	428521.9	230.65	274.93	319.21	2423.4	2908	3150.4	3374.2	3901.4	2423.4
O-Pile 71-1116	1016	10	1116	7052.9	3413	358288.5	194.35	229.5	264.65	2431.4	2917.7	3160.8	3385.4	3914.4	2431.4
O-Pile 71-993	812.8	14.29	992.8	7082.5	3413	287831.4	222.57	263.52	304.47	2441.6	2929.9	3174.1	3399.6	3930.8	2441.6
O-Pile 72-1167	1066.8	9.52	1166.8	7103.5	3413	378903	194.55	229.73	264.91	2448.9	2938.6	3183.5	3409.7	3942.5	2448.9
O-Pile 72-710	609.6	19.05	709.6	7131	3413	217352	216.36	255.18	294	2458.3	2950	3195.8	3422.9	3957.7	2458.3
O-Pile 72-862	762	14.29	862	7144.1	3413	272189.1	205.87	242.95	280.02	2462.8	2955.4	3201.7	3429.2	3965	2462.8
O-Pile 72-877	812.8	12.7	876.8	7170.5	3413	291410.8	195.13	230.05	264.96	2472	2966.3	3213.5	3441.9	3979.7	2472
O-Pile 72-978	914.4	11.11	978.4	7191.1	3413	328775.6	192.85	227.38	261.92	2479	2974.8	3222.7	3451.7	3991	2479
O-Pile 73-1240	914.4	14.29	1240.4	7216.9	3413	329954.9	255.4	303.81	352.22	2487.9	2985.5	3234.3	3464.1	4005.4	2487.9
O-Pile 73-942	762	15.88	942	7218.2	3413	275013.8	230.64	272.93	315.22	2488.4	2986.1	3234.9	3464.7	4006.1	2488.4
O-Pile 73-891	711.2	17.46	891.2	7229.2	3413	257070.2	235.62	278.75	321.87	2492.2	2990.6	3239.8	3470	4012.2	2492.2
O-Pile 73-1037	711.2	20.64	1037.2	7242.5	3413	257543.4	281.13	333.83	386.52	2496.8	2996.1	3245.8	3476.4	4019.6	2496.8
O-Pile 73-928	863.6	12	927.6	7267.6	3413	313815.2	196.2	231.3	266.39	2505.4	3006.5	3257	3488.5	4033.5	2505.4
O-Pile 73-811	711.2	15.88	811.2	7269	3413	258485	212.45	250.61	288.78	2505.9	3007.1	3257.7	3489.1	4034.3	2505.9
O-Pile 73-1080	1016	10	1080	7288	3413	370231.5	193.26	227.86	262.46	2512.5	3014.9	3266.2	3498.3	4044.9	2512.5
O-Pile 73-1196	1016	11.11	1196	7289.2	3413	370293.5	218.1	258.3	298.5	2512.9	3015.4	3266.7	3498.8	4045.5	2512.9
O-Pile 74-1094	914.4	12.7	1094.4	7308.9	3413	334163.9	223.37	264.44	305.52	2519.7	3023.6	3275.6	3508.3	4056.5	2519.7
O-Pile 74-1444	1117.6	11.11	1443.6	7329.1	3413	409551.1	244.96	291.62	338.29	2526.6	3031.9	3284.6	3518	4067.7	2526.6
O-Pile 74-1131	1066.8	9.52	1130.8	7329.7	3413	390965.7	193.45	228.09	262.72	2526.8	3032.2	3284.9	3518.3	4068	2526.8
O-Pile 74-1298	1117.6	10	1297.6	7359.5	3413	411247.7	216.42	256.34	296.26	2537.1	3044.5	3298.2	3532.5	4084.5	2537.1
O-Pile 74-790	609.6	22.22	789.6	7359.5	3413	224317.4	253.01	299.03	345.05	2537.1	3044.5	3298.2	3532.6	4084.5	2537.1
O-Pile 74-1545	1219.2	10	1545.2	7371.5	3413	449365.1	241.19	287.23	333.27	2541.2	3049.5	3303.6	3538.3	4091.2	2541.2
O-Pile 74-1065	965.2	11.11	1065.2	7373.6	3413	355847.7	204.38	241.21	278.03	2541.9	3050.3	3304.5	3539.3	4092.3	2541.9
O-Pile 74-1145	965.2	12	1145.2	7385.7	3413	356435.6	223.12	264.16	305.2	2546.1	3055.4	3310	3545.2	4099.1	2546.1



Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

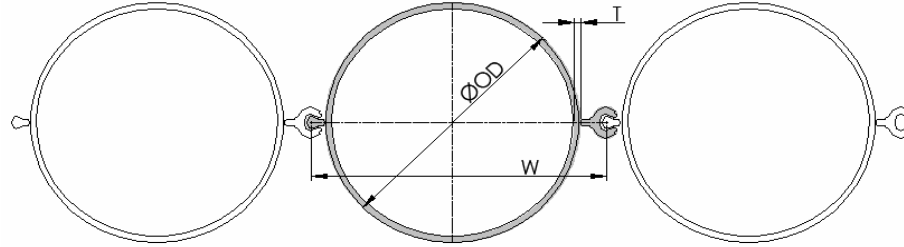
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SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 74-964	863.6	12.7	963.6	7386.1	3413	318933.2	208.16	245.61	283.06	2546.3	3055.5	3310.2	3545.3	4099.3	2546.3
O-Pile 74-1342	1016	12.7	1342	7389.4	3413	375381.5	253.21	301.25	349.29	2547.4	3056.9	3311.6	3546.9	4101.1	2547.4
O-Pile 74-1596	1270	9.52	1596	7391.7	3413	469374.7	239.59	285.37	331.15	2548.2	3057.8	3312.7	3548	4102.4	2548.2
O-Pile 74-1190	863.6	15.88	1189.6	7396.2	3413	319367	266.44	316.69	366.95	2549.7	3059.7	3314.7	3550.2	4104.9	2549.7
O-Pile 75-1088	762	19.05	1088	7405.7	3413	282156.2	279.31	331.7	384.1	2553	3063.6	3318.9	3554.7	4110.2	2553
O-Pile 75-1393	1066.8	12	1392.8	7445	3413	397117.3	251.65	299.43	347.22	2566.6	3079.9	3336.6	3573.6	4132	2566.6
O-Pile 75-1167	1066.8	10	1166.8	7447.8	3413	397265.2	203.75	240.46	277.18	2567.5	3081	3337.8	3574.9	4133.5	2567.5
O-Pile 75-826	762	14.29	826	7455.4	3413	284052.1	204.78	241.3	277.83	2570.2	3084.2	3341.2	3578.6	4137.8	2570.2
O-Pile 75-1139	812.8	17.46	1138.8	7458.1	3413	303098	274.41	325.99	377.57	2571.1	3085.3	3342.4	3579.9	4139.3	2571.1
O-Pile 75-1014	914.4	12	1014.4	7467.9	3413	341433.4	208.57	246.09	283.61	2574.5	3089.4	3346.8	3584.6	4144.7	2574.5
O-Pile 75-1218	1117.6	9.52	1217.6	7480	3413	417983.7	203.5	240.17	276.85	2578.6	3094.4	3352.2	3590.4	4151.4	2578.6
O-Pile 76-674	609.6	19.05	673.6	7512.1	3413	228968.2	215.27	253.54	291.81	2589.7	3107.6	3366.6	3605.8	4169.2	2589.7
O-Pile 76-802	622.3	22.22	802.3	7565	3413	235383.9	258.23	305.12	352.01	2607.9	3129.5	3390.3	3631.2	4198.6	2607.9
O-Pile 77-775	711.2	15.88	775.2	7606.5	3413	270488.9	211.35	248.97	286.59	2622.3	3146.7	3408.9	3651.1	4221.6	2622.3
O-Pile 77-1044	863.6	14.29	1043.6	7630	3413	329463.4	236	279.18	322.37	2630.4	3156.4	3419.5	3662.4	4234.6	2630.4
O-Pile 77-1029	965.2	11.11	1029.2	7631.5	3413	368294.8	203.29	239.56	275.84	2630.9	3157	3420.1	3663.1	4235.5	2630.9
O-Pile 77-710	609.6	20.64	709.6	7664.5	3413	233614.7	233.1	274.7	316.31	2642.3	3170.7	3434.9	3679	4253.8	2642.3
O-Pile 77-928	863.6	12.7	927.6	7672.8	3413	331310.9	207.06	243.97	280.87	2645.1	3174.1	3438.6	3682.9	4258.4	2645.1
O-Pile 77-1131	1066.8	10	1130.8	7684.9	3413	409912.5	202.65	238.82	274.99	2649.3	3179.1	3444.1	3688.8	4265.1	2649.3
O-Pile 78-913	812.8	14.29	912.8	7703.2	3413	313057.6	219.3	258.61	297.92	2655.6	3186.7	3452.3	3697.5	4275.3	2655.6
O-Pile 78-1182	1117.6	9.52	1181.6	7707.9	3413	430718.5	202.4	238.53	274.66	2657.2	3188.7	3454.4	3699.8	4277.9	2657.2
O-Pile 78-1247	1066.8	11.11	1246.8	7721	3413	411840.7	228.54	270.48	312.42	2661.7	3194.1	3460.3	3706.1	4285.2	2661.7
O-Pile 78-978	914.4	12	978.4	7742.7	3413	353996.3	207.48	244.45	281.42	2669.2	3203	3470	3716.5	4297.2	2669.2
O-Pile 78-1291	965.2	14.29	1291.2	7743.8	3413	373716.7	268.82	319.47	370.12	2669.6	3203.5	3470.5	3717	4297.8	2669.6
O-Pile 78-1037	711.2	22.22	1037.2	7747.1	3413	275486.9	300.75	356.72	412.69	2670.7	3204.9	3471.9	3718.6	4299.6	2670.7
O-Pile 78-1596	1270	10	1596	7751.6	3413	492227.4	250.58	298.19	345.79	2672.3	3206.7	3474	3720.8	4302.1	2672.3
O-Pile 78-1647	1320.8	9.52	1646.8	7755	3413	512139.3	248.54	295.81	343.08	2673.4	3208.1	3475.5	3722.4	4304	2673.4
O-Pile 78-1399	1219.2	9.52	1399.2	7763.1	3413	473236.1	224.67	265.97	307.26	2676.2	3211.5	3479.1	3726.3	4308.5	2676.2



Data Sheet

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Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

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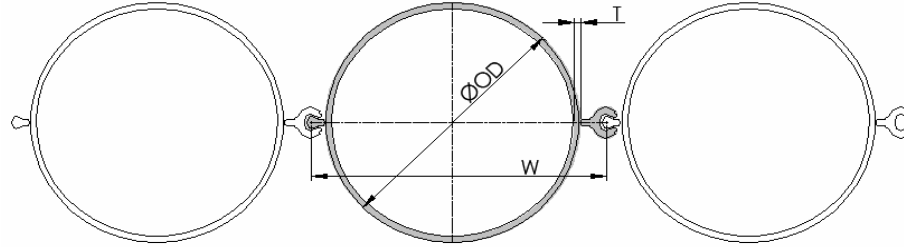
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 78-1145	965.2	12.7	1145.2	7799.5	3413	376404.1	235.3	278.37	321.43	2688.8	3226.5	3495.4	3743.8	4328.7	2688.8
O-Pile 79-1116	1016	11.11	1116	7811.8	3413	396837.8	214.82	253.39	291.95	2693	3231.6	3500.9	3749.6	4335.5	2693
O-Pile 79-790	609.6	23.81	789.6	7823.1	3413	238448.6	269.56	318.34	367.11	2696.9	3236.3	3506	3755.1	4341.8	2696.9
O-Pile 79-993	812.8	15.88	992.8	7823.2	3413	317934.1	245.55	290.33	335.11	2696.9	3236.3	3506	3755.1	4341.9	2696.9
O-Pile 79-891	711.2	19.05	891.2	7833.3	3413	278553.6	255.43	301.86	348.28	2700.5	3240.5	3510.6	3760	4347.5	2700.5
O-Pile 79-1218	1117.6	10	1217.6	7843	3413	438267.9	213.14	251.43	289.71	2703.8	3244.5	3514.9	3764.6	4352.9	2703.8
O-Pile 79-1196	1016	12	1196	7850.7	3413	398816.9	234.4	277.31	320.23	2706.4	3247.7	3518.4	3768.3	4357.2	2706.4
O-Pile 79-1393	1066.8	12.7	1392.8	7863.8	3413	419452.9	265.14	315.17	365.21	2710.9	3253.1	3524.2	3774.6	4364.4	2710.9
O-Pile 79-1014	914.4	12.7	1014.4	7885.3	3413	360517.5	220.09	259.53	298.97	2718.4	3262	3533.9	3785	4376.4	2718.4
O-Pile 79-862	762	15.88	862	7888.1	3413	300537.1	227.36	268.02	308.67	2719.3	3263.2	3535.1	3786.3	4377.9	2719.3
O-Pile 79-942	762	17.46	942	7890.2	3413	300617.8	252.03	297.89	343.75	2720.1	3264.1	3536.1	3787.3	4379.1	2720.1
O-Pile 79-1444	1117.6	12	1443.6	7895.6	3413	441203.9	262.92	312.59	362.25	2721.9	3266.3	3538.5	3789.9	4382	2721.9
O-Pile 80-1065	965.2	12	1065.2	7940.4	3413	383205	219.85	259.25	298.65	2737.4	3284.8	3558.6	3811.4	4406.9	2737.4
O-Pile 80-811	711.2	17.46	811.2	7942.1	3413	282422.3	232.35	273.83	315.32	2738	3285.5	3559.3	3812.2	4407.9	2738
O-Pile 80-1088	762	20.64	1088	7972.4	3413	303750	300.52	356.45	412.38	2748.4	3298.1	3572.9	3826.8	4424.7	2748.4
O-Pile 80-1240	914.4	15.88	1240.4	7976.9	3413	364701.7	281.36	334.1	386.83	2749.9	3299.9	3574.9	3828.9	4427.2	2749.9
O-Pile 81-877	812.8	14.29	876.8	8019.5	3413	325911.3	218.2	256.96	295.73	2764.6	3317.5	3594	3849.3	4450.8	2764.6
O-Pile 81-1080	1016	11.11	1080	8072.2	3413	410065.7	213.73	251.74	289.76	2782.8	3339.3	3617.6	3874.6	4480	2782.8
O-Pile 81-674	609.6	20.64	673.6	8074.1	3413	246100.1	232	273.06	314.12	2783.5	3340.2	3618.5	3875.6	4481.2	2783.5
O-Pile 81-1182	1117.6	10	1181.6	8082	3413	451620.7	212.05	249.78	287.52	2786.2	3343.4	3622	3879.3	4485.5	2786.2
O-Pile 81-1139	812.8	19.05	1138.8	8088.3	3413	328706.5	297.21	352.59	407.97	2788.3	3346	3624.8	3882.4	4489	2788.3
O-Pile 81-1190	863.6	17.46	1189.6	8090.8	3413	349360.3	290.82	345.14	399.45	2789.2	3347	3626	3883.6	4490.4	2789.2
O-Pile 82-1698	1371.6	9.52	1697.6	8119.3	3413	556818.4	257.49	306.25	355.01	2799	3358.8	3638.7	3897.2	4506.2	2799
O-Pile 82-1647	1320.8	10	1646.8	8132.9	3413	537098	259.98	309.15	358.32	2803.7	3364.5	3644.8	3903.8	4513.8	2803.7
O-Pile 82-1450	1270	9.52	1450	8136	3413	516635.9	233.62	276.41	319.2	2804.8	3365.7	3646.2	3905.3	4515.5	2804.8
O-Pile 82-1399	1219.2	10	1399.2	8140.7	3413	496254.3	235.21	278.26	321.32	2806.4	3367.7	3648.3	3907.5	4518.1	2806.4
O-Pile 82-1298	1117.6	11.11	1297.6	8153.8	3413	455631.9	238.98	282.66	326.34	2810.9	3373.1	3654.2	3913.8	4525.3	2810.9
O-Pile 82-1545	1219.2	11.11	1545.2	8169.1	3413	497988	265.84	315.99	366.14	2816.2	3379.4	3661.1	3921.2	4533.8	2816.2

The O-Pile® system is exclusively supplied by Sheet Pile LLC | www.o-pile.com | Toll free: (866) 666-7453 | + 1 (512) 243-1228 | info@o-pile.com



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Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

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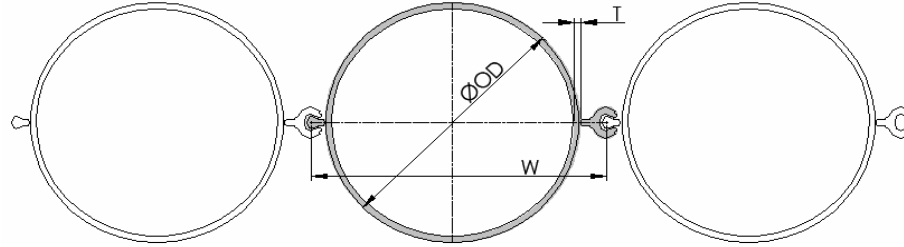
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				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 82-978	914.4	12.7	978.4	8175.5	3413	373782.7	219	257.89	296.78	2818.4	3382.1	3663.9	3924.2	4537.4	2818.4
O-Pile 82-1094	914.4	14.29	1094.4	8179.6	3413	373973	249.42	294.84	340.27	2819.8	3383.8	3665.8	3926.2	4539.7	2819.8
O-Pile 82-710	609.6	22.22	709.6	8189.2	3413	249606.8	249.74	294.12	338.5	2823.1	3387.7	3670.1	3930.8	4545	2823.1
O-Pile 83-1029	965.2	12	1029.2	8218.2	3413	396609	218.75	257.6	296.46	2833.1	3399.7	3683	3944.7	4561.1	2833.1
O-Pile 83-826	762	15.88	826	8231.9	3413	313635.6	226.27	266.37	306.48	2837.9	3405.4	3689.2	3951.3	4568.7	2837.9
O-Pile 83-1319	1219.2	9.52	1319.2	8233.8	3413	501934.5	221.4	261.05	300.71	2838.5	3406.2	3690.1	3952.2	4569.8	2838.5
O-Pile 83-1037	711.2	23.81	1037.2	8244.5	3413	293175.9	320.28	379.51	438.73	2842.2	3410.6	3694.9	3957.4	4575.7	2842.2
O-Pile 83-1167	1066.8	11.11	1166.8	8250.4	3413	440078	225.26	265.57	305.87	2844.2	3413.1	3697.5	3960.2	4579	2844.2
O-Pile 83-964	863.6	14.29	963.6	8263.5	3413	356816.1	232.72	274.27	315.82	2848.7	3418.5	3703.3	3966.5	4586.2	2848.7
O-Pile 83-1342	1016	14.29	1342	8274	3413	420321.2	282.25	335.13	388.01	2852.4	3422.8	3708.1	3971.5	4592.1	2852.4
O-Pile 83-790	609.6	25.4	789.6	8279	3413	252343	286.01	337.53	389.05	2854.1	3424.9	3710.3	3973.9	4594.8	2854.1
O-Pile 83-1196	1016	12.7	1196	8291.5	3413	421205.7	247.23	292.29	337.34	2858.4	3430	3715.9	3979.9	4601.8	2858.4
O-Pile 84-775	711.2	17.46	775.2	8311	3413	295537.9	231.25	272.19	313.13	2865.1	3438.1	3724.6	3989.3	4612.6	2865.1
O-Pile 84-1247	1066.8	12	1246.8	8316.8	3413	443619.7	245.67	290.47	335.27	2867.1	3440.5	3727.3	3992.1	4615.8	2867.1
O-Pile 84-1444	1117.6	12.7	1443.6	8340.4	3413	466061.2	277.07	329.09	381.12	2875.3	3450.3	3737.8	4003.4	4628.9	2875.3
O-Pile 84-1065	965.2	12.7	1065.2	8385.3	3413	404673.3	232.02	273.45	314.88	2890.7	3468.9	3757.9	4024.9	4653.8	2890.7
O-Pile 85-722	622.3	22.22	722.3	8402.8	3413	261454.4	254.96	300.21	345.46	2896.8	3476.1	3765.8	4033.4	4663.6	2896.8
O-Pile 85-1116	1016	12	1116	8413.5	3413	427405.9	231.12	272.4	313.68	2900.5	3480.5	3770.6	4038.5	4669.5	2900.5
O-Pile 85-891	711.2	20.64	891.2	8429	3413	299735.2	275.15	324.86	374.57	2905.8	3487	3777.5	4045.9	4678.1	2905.8
O-Pile 85-1044	863.6	15.88	1043.6	8430.9	3413	364046.6	260.47	307.73	355	2906.5	3487.7	3778.4	4046.8	4679.2	2906.5
O-Pile 85-1283	1219.2	9.52	1283.2	8464.8	3413	516016.2	220.3	259.41	298.52	2918.1	3501.8	3793.6	4063.1	4698	2918.1
O-Pile 85-1748	1422.4	9.52	1748.4	8484.5	3413	603414.6	266.44	316.69	366.95	2924.9	3509.9	3802.4	4072.5	4708.9	2924.9
O-Pile 86-913	812.8	15.88	912.8	8508.8	3413	345798.6	242.28	285.42	328.56	2933.3	3520	3813.3	4084.2	4722.4	2933.3
O-Pile 86-1501	1320.8	9.52	1500.8	8509.4	3413	561961	242.57	286.85	331.13	2933.5	3520.2	3813.6	4084.5	4722.7	2933.5
O-Pile 86-1131	1066.8	11.11	1130.8	8513.1	3413	454088.3	224.17	263.93	303.68	2934.8	3521.7	3815.2	4086.3	4724.8	2934.8
O-Pile 86-1698	1371.6	10	1697.6	8515.3	3413	583978	269.37	320.11	370.85	2935.5	3522.6	3816.2	4087.3	4726	2935.5
O-Pile 86-1088	762	22.22	1088	8531.8	3413	325059.7	321.63	381.08	440.53	2941.2	3529.5	3823.6	4095.2	4735.1	2941.2
O-Pile 86-1450	1270	10	1450	8532.1	3413	541789.7	244.61	289.23	333.84	2941.3	3529.6	3823.7	4095.4	4735.3	2941.3

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Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

O-Pile® systems are available for immediate shipment, these are examples from an endless variety of possible O-Pile®, please configure your own system on O-Pile.com.

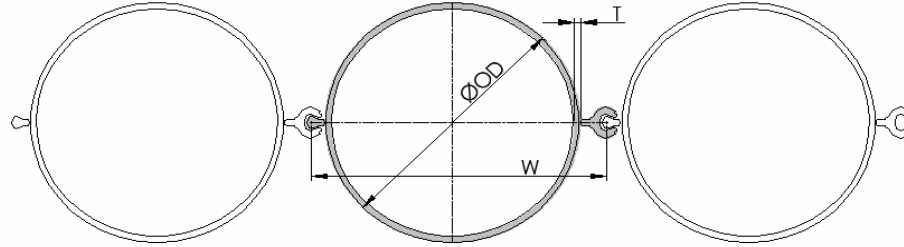
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 86-942	762	19.05	942	8553.5	3413	325887.5	273.33	322.74	372.15	2948.7	3538.4	3833.3	4105.7	4747.2	2948.7
O-Pile 86-993	812.8	17.46	992.8	8554.9	3413	347671.2	268.44	317.03	365.62	2949.2	3539	3834	4106.4	4748	2949.2
O-Pile 86-1291	965.2	15.88	1291.2	8561.7	3413	413187	296.28	351.5	406.72	2951.5	3541.8	3837	4109.6	4751.7	2951.5
O-Pile 86-928	863.6	14.29	927.6	8584.2	3413	370664.1	231.63	272.63	313.63	2959.3	3551.1	3847.1	4120.4	4764.2	2959.3
O-Pile 86-1596	1270	11.11	1596	8591.3	3413	545548.2	276.28	328.17	380.06	2961.8	3554.1	3850.3	4123.8	4768.2	2961.8
O-Pile 87-811	711.2	19.05	811.2	8605.9	3413	306024.4	252.16	296.95	341.73	2966.8	3560.1	3856.8	4130.8	4776.3	2966.8
O-Pile 87-1370	1270	9.52	1370	8611.1	3413	546804.4	230.34	271.5	312.65	2968.6	3562.3	3859.1	4133.3	4779.2	2968.6
O-Pile 87-862	762	17.46	862	8622.5	3413	328517.4	248.76	292.98	337.2	2972.5	3567	3864.3	4138.8	4785.5	2972.5
O-Pile 87-674	609.6	22.22	673.6	8626.9	3413	262946.9	248.64	292.48	336.31	2974	3568.8	3866.2	4140.9	4787.9	2974
O-Pile 87-1319	1219.2	10	1319.2	8634.3	3413	526348.5	231.94	273.35	314.77	2976.6	3571.9	3869.6	4144.5	4792.1	2976.6
O-Pile 87-1029	965.2	12.7	1029.2	8678.6	3413	418828.2	230.93	271.81	312.69	2991.8	3590.2	3889.4	4165.7	4816.6	2991.8
O-Pile 87-1218	1117.6	11.11	1217.6	8689.5	3413	485568.3	235.71	277.75	319.79	2995.6	3594.7	3894.3	4171	4822.7	2995.6
O-Pile 87-1080	1016	12	1080	8694	3413	441652.8	230.03	270.76	311.49	2997.1	3596.6	3896.3	4173.1	4825.1	2997.1
O-Pile 88-710	609.6	23.81	709.6	8705.1	3413	265331.2	266.28	313.42	360.56	3001	3601.2	3901.3	4178.4	4831.3	3001
O-Pile 88-1139	812.8	20.64	1138.8	8710.7	3413	354003.3	319.91	379.07	438.23	3002.9	3603.5	3903.8	4181.1	4834.4	3002.9
O-Pile 88-1240	914.4	17.46	1240.4	8728.7	3413	399076.1	307.23	364.28	421.33	3009.1	3610.9	3911.8	4189.8	4844.4	3009.1
O-Pile 88-1145	965.2	14.29	1145.2	8731.1	3413	421361.3	262.85	310.51	358.17	3009.9	3611.9	3912.9	4190.9	4845.7	3009.9
O-Pile 88-1037	711.2	25.4	1037.2	8734.9	3413	310612.2	339.72	402.18	464.65	3011.2	3613.5	3914.6	4192.7	4847.9	3011.2
O-Pile 88-1190	863.6	19.05	1189.6	8777.5	3413	379010.6	315.11	373.47	431.83	3025.9	3631.1	3933.7	4213.2	4871.5	3025.9
O-Pile 88-1298	1117.6	12	1297.6	8783.9	3413	490846.2	256.95	303.62	350.3	3028.2	3633.8	3936.6	4216.3	4875.1	3028.2
O-Pile 88-1247	1066.8	12.7	1246.8	8784.6	3413	468570.7	259.16	306.21	353.26	3028.4	3634.1	3936.9	4216.6	4875.5	3028.4
O-Pile 89-1545	1219.2	12	1545.2	8802.2	3413	536583	285.47	338.89	392.32	3034.5	3641.3	3944.8	4225.1	4885.2	3034.5
O-Pile 89-1393	1066.8	14.29	1392.8	8807.2	3413	469774.6	295.67	350.79	405.91	3036.2	3643.4	3947	4227.4	4888	3036.2
O-Pile 89-1014	914.4	14.29	1014.4	8824.7	3413	403466.1	246.15	289.93	333.72	3042.2	3650.7	3954.9	4235.9	4897.7	3042.2
O-Pile 89-1334	1270	9.52	1334	8843.5	3413	561560.7	229.25	269.85	310.46	3048.7	3658.4	3963.3	4244.9	4908.1	3048.7
O-Pile 89-686	622.3	22.22	686.3	8843.6	3413	275169.1	253.86	298.57	343.27	3048.7	3658.5	3963.3	4244.9	4908.2	3048.7
O-Pile 89-877	812.8	15.88	876.8	8858.2	3413	359996.6	241.18	283.78	326.37	3053.8	3664.5	3969.9	4251.9	4916.3	3053.8
O-Pile 89-1283	1219.2	10	1283.2	8876.6	3413	541115.2	230.84	271.71	312.58	3060.1	3672.1	3978.1	4260.7	4926.5	3060.1

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Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

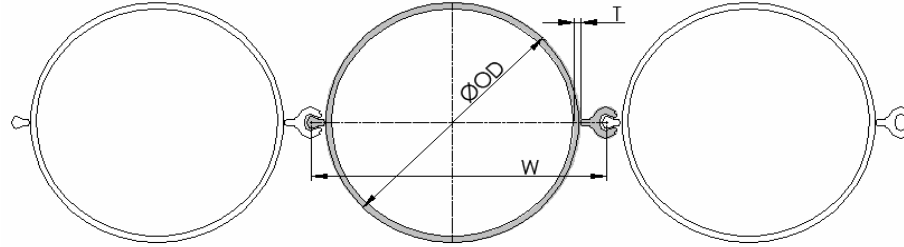
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SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 89-1552	1371.6	9.52	1551.6	8883.2	3413	609213.1	251.52	297.29	343.06	3062.4	3674.9	3981.1	4264	4930.2	3062.4
O-Pile 89-1116	1016	12.7	1116	8885.8	3413	451399.6	243.96	287.38	330.79	3063.3	3675.9	3982.3	4265.2	4931.6	3063.3
O-Pile 89-1167	1066.8	12	1166.8	8887.1	3413	474035.8	242.4	285.56	328.72	3063.7	3676.4	3982.8	4265.8	4932.3	3063.7
O-Pile 89-1748	1422.4	10	1748.4	8898.6	3413	632870.1	278.77	331.07	383.38	3067.7	3681.2	3988	4271.3	4938.7	3067.7
O-Pile 90-1501	1320.8	10	1500.8	8924.1	3413	589347.7	254	300.19	346.37	3076.5	3691.8	3999.4	4283.6	4952.9	3076.5
O-Pile 90-1182	1117.6	11.11	1181.6	8954.2	3413	500362.2	234.61	276.11	317.6	3086.9	3704.2	4012.9	4298	4969.6	3086.9
O-Pile 90-1421	1320.8	9.52	1420.8	8988.5	3413	593602.9	239.29	281.94	324.58	3098.7	3718.4	4028.3	4314.5	4988.6	3098.7
O-Pile 90-826	762	17.46	826	8998.3	3413	342835.4	247.66	291.33	335.01	3102.1	3722.5	4032.7	4319.2	4994.1	3102.1
O-Pile 91-775	711.2	19.05	775.2	9005.5	3413	320236.1	251.06	295.3	339.54	3104.5	3725.4	4035.9	4322.6	4998.1	3104.5
O-Pile 91-1647	1320.8	11.11	1646.8	9014.8	3413	595340.1	286.72	340.35	393.98	3107.8	3729.3	4040.1	4327.1	5003.2	3107.8
O-Pile 91-891	711.2	22.22	891.2	9016.3	3413	320618.3	294.78	347.76	400.74	3108.2	3729.9	4040.7	4327.8	5004	3108.2
O-Pile 91-1399	1219.2	11.11	1399.2	9021.5	3413	549950.7	259.86	307.03	354.19	3110.1	3732.1	4043.1	4330.3	5006.9	3110.1
O-Pile 91-1370	1270	10	1370	9030.3	3413	573427	241.33	284.31	327.29	3113.1	3735.7	4047	4334.6	5011.8	3113.1
O-Pile 91-1094	914.4	15.88	1094.4	9041	3413	413355.3	275.39	325.13	374.88	3116.8	3740.1	4051.8	4339.7	5017.8	3116.8
O-Pile 91-1088	762	23.81	1088	9083.7	3413	346089.2	342.66	405.61	468.56	3131.5	3757.8	4070.9	4360.2	5041.5	3131.5
O-Pile 92-964	863.6	15.88	963.6	9130.9	3413	394270.4	257.19	302.82	348.45	3147.8	3777.3	4092.1	4382.8	5067.6	3147.8
O-Pile 92-978	914.4	14.29	978.4	9149.4	3413	418311.5	245.05	288.29	331.53	3154.2	3785	4100.4	4391.7	5077.9	3154.2
O-Pile 92-1342	1016	15.88	1342	9150.2	3413	464829.4	311.19	368.9	426.61	3154.4	3785.3	4100.7	4392.1	5078.4	3154.4
O-Pile 92-1131	1066.8	12	1130.8	9170	3413	489127.2	241.3	283.91	326.53	3161.2	3793.5	4109.6	4401.6	5089.3	3161.2
O-Pile 92-674	609.6	23.81	673.6	9170.3	3413	279511.6	265.19	311.78	358.37	3161.4	3793.6	4109.8	4401.8	5089.5	3161.4
O-Pile 92-1080	1016	12.7	1080	9182	3413	466446.3	242.86	285.73	328.6	3165.4	3798.5	4115	4407.4	5096	3165.4
O-Pile 93-942	762	20.64	942	9208.1	3413	350828	294.54	347.49	400.43	3174.4	3809.2	4126.7	4419.9	5110.5	3174.4
O-Pile 93-710	609.6	25.4	709.6	9212.3	3413	280792	282.74	332.62	382.5	3175.8	3811	4128.6	4421.9	5112.8	3175.8
O-Pile 93-1850	1524	9.52	1850	9217.3	3413	702356.8	284.34	337.58	390.81	3177.5	3813.1	4130.8	4424.3	5115.6	3177.5
O-Pile 93-1385	1320.8	9.52	1384.8	9222.2	3413	609034.5	238.2	280.29	322.39	3179.2	3815.1	4133	4426.7	5118.3	3179.2
O-Pile 93-1044	863.6	17.46	1043.6	9222.7	3413	398235.9	284.85	336.17	387.5	3179.4	3815.3	4133.2	4426.9	5118.6	3179.4
O-Pile 93-1602	1422.4	9.52	1602.4	9257.5	3413	658393.7	260.47	307.73	355	3191.4	3829.7	4148.8	4443.6	5137.9	3191.4
O-Pile 93-1596	1270	12	1596	9258	3413	587881.6	296.75	352.05	407.35	3191.6	3829.9	4149	4443.8	5138.2	3191.6



Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

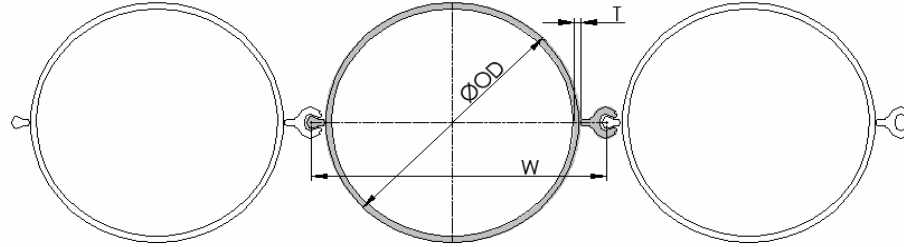
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SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 93-811	711.2	20.64	811.2	9260.3	3413	329294.9	271.88	319.95	368.02	3192.4	3830.8	4150.1	4444.9	5139.4	3192.4
O-Pile 93-1334	1270	10	1334	9274	3413	588901.8	240.24	282.67	325.1	3197.1	3836.5	4156.2	4451.5	5147.1	3197.1
O-Pile 93-993	812.8	19.05	992.8	9277.7	3413	377045.7	291.23	343.62	396.02	3198.4	3838	4157.9	4453.3	5149.1	3198.4
O-Pile 93-1298	1117.6	12.7	1297.6	9278.8	3413	518500.3	271.1	320.13	369.17	3198.8	3838.5	4158.4	4453.8	5149.7	3198.8
O-Pile 93-1196	1016	14.29	1196	9284.1	3413	471631.3	276.27	326.17	376.06	3200.6	3840.7	4160.7	4456.4	5152.7	3200.6
O-Pile 93-1545	1219.2	12.7	1545.2	9299.6	3413	566903.3	300.94	356.94	412.94	3205.9	3847.1	4167.7	4463.8	5161.3	3205.9
O-Pile 94-913	812.8	17.46	912.8	9304.7	3413	378142	265.16	312.12	359.07	3207.7	3849.2	4170	4466.2	5164.1	3207.7
O-Pile 94-1552	1371.6	10	1551.6	9316.5	3413	638928.2	263.4	311.15	358.9	3211.8	3854.1	4175.3	4471.9	5170.7	3211.8
O-Pile 94-1139	812.8	22.22	1138.8	9325.5	3413	378989.3	342.52	405.45	468.38	3214.9	3857.8	4179.3	4476.3	5175.7	3214.9
O-Pile 94-1444	1117.6	14.29	1443.6	9342.9	3413	522080.9	309.1	366.45	423.81	3220.9	3865	4187.1	4484.6	5185.3	3220.9
O-Pile 94-862	762	19.05	862	9347.3	3413	356132.3	270.06	317.83	365.6	3222.4	3866.8	4189.1	4486.7	5187.8	3222.4
O-Pile 94-1218	1117.6	12	1217.6	9361.1	3413	523096.3	253.67	298.71	343.75	3227.1	3872.5	4195.2	4493.3	5195.4	3227.1
O-Pile 94-1472	1371.6	9.52	1471.6	9366.2	3413	642331.5	248.24	292.38	336.51	3228.9	3874.6	4197.5	4495.8	5198.2	3228.9
O-Pile 94-1291	965.2	17.46	1291.2	9371.2	3413	452256	323.64	383.42	443.2	3230.6	3876.7	4199.8	4498.2	5201	3230.6
O-Pile 94-1065	965.2	14.29	1065.2	9386.8	3413	453006.9	259.57	305.59	351.62	3236	3883.2	4206.8	4505.7	5209.7	3236
O-Pile 94-1167	1066.8	12.7	1166.8	9386.9	3413	500697.6	255.89	301.3	346.71	3236	3883.2	4206.8	4505.7	5209.7	3236
O-Pile 95-1421	1320.8	10	1420.8	9426.6	3413	622531.7	250.73	295.28	339.82	3249.7	3899.6	4224.6	4524.8	5231.8	3249.7
O-Pile 95-1698	1371.6	11.11	1697.6	9439.6	3413	647366.9	297.16	352.53	407.9	3254.2	3905	4230.4	4531	5239	3254.2
O-Pile 95-1190	863.6	20.64	1189.6	9456.2	3413	408320.4	339.3	401.69	464.09	3259.9	3911.9	4237.9	4539	5248.2	3259.9
O-Pile 95-1450	1270	11.11	1450	9456.4	3413	600479.3	270.3	319.21	368.11	3260	3912	4238	4539.1	5248.3	3260
O-Pile 95-1240	914.4	19.05	1240.4	9472.4	3413	433079.7	333.01	394.35	455.7	3265.5	3918.6	4245.2	4546.8	5257.2	3265.5
O-Pile 95-928	863.6	15.88	927.6	9485.2	3413	409572	256.1	301.18	346.26	3269.9	3923.9	4250.9	4552.9	5264.3	3269.9
O-Pile 96-1319	1219.2	11.11	1319.2	9568.6	3413	583301.2	256.59	302.11	347.64	3298.7	3958.4	4288.2	4592.9	5310.6	3298.7
O-Pile 96-1901	1574.8	9.52	1900.8	9584.8	3413	754703.3	293.29	348.02	402.74	3304.2	3965.1	4295.5	4600.7	5319.5	3304.2
O-Pile 96-891	711.2	23.81	891.2	9595.2	3413	341205.1	314.31	370.54	426.78	3307.8	3969.4	4300.2	4605.7	5325.3	3307.8
O-Pile 97-1436	1371.6	9.52	1435.6	9601	3413	658439	247.15	290.74	334.32	3309.8	3971.8	4302.8	4608.5	5328.6	3309.8
O-Pile 97-1088	762	25.4	1088	9628.3	3413	366839.2	363.59	430.03	496.47	3319.2	3983.1	4315	4621.6	5343.7	3319.2
O-Pile 97-1182	1117.6	12	1181.6	9646.3	3413	539033.5	252.58	297.07	341.56	3325.4	3990.5	4323.1	4630.2	5353.7	3325.4



Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

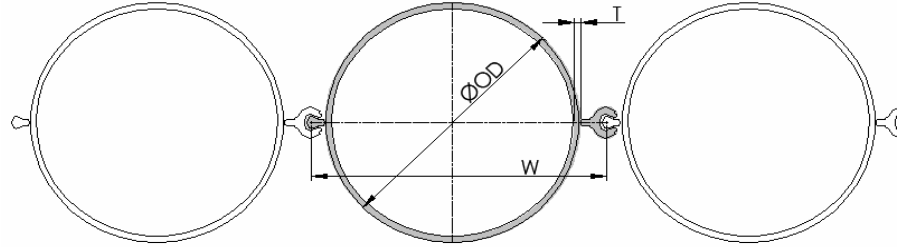
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SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 97-1145	965.2	15.88	1145.2	9653.2	3413	465863.6	290.3	342.54	394.77	3327.8	3993.4	4326.2	4633.5	5357.5	3327.8
O-Pile 97-1850	1524	10	1850	9667.9	3413	736691.9	297.56	353	408.44	3332.9	3999.5	4332.7	4640.6	5365.7	3332.9
O-Pile 97-1385	1320.8	10	1384.8	9671.6	3413	638715.3	249.63	293.63	337.63	3334.2	4001	4334.4	4642.4	5367.8	3334.2
O-Pile 97-1131	1066.8	12.7	1130.8	9685.7	3413	516637.8	254.79	299.65	344.52	3339	4006.8	4340.8	4649.2	5375.6	3339
O-Pile 97-877	812.8	17.46	876.8	9686.7	3413	393667.9	264.07	310.48	356.88	3339.4	4007.2	4341.2	4649.6	5376.1	3339.4
O-Pile 97-775	711.2	20.64	775.2	9690.3	3413	344587.2	270.78	318.31	365.83	3340.6	4008.7	4342.8	4651.3	5378.1	3340.6
O-Pile 98-674	609.6	25.4	673.6	9704.7	3413	295798.7	281.64	330.98	380.31	3345.6	4014.7	4349.2	4658.2	5386.1	3345.6
O-Pile 98-1602	1422.4	10	1602.4	9709.4	3413	690533	272.79	322.11	371.43	3347.2	4016.6	4351.4	4660.5	5388.7	3347.2
O-Pile 98-1029	965.2	14.29	1029.2	9715.1	3413	468852.5	258.48	303.95	349.43	3349.2	4019	4353.9	4663.3	5391.9	3349.2
O-Pile 98-1647	1320.8	12	1646.8	9715.2	3413	641589.7	308.02	365.2	422.38	3349.2	4019	4353.9	4663.3	5391.9	3349.2
O-Pile 98-1399	1219.2	12	1399.2	9720.7	3413	592572.9	279.5	329.93	380.37	3351.1	4021.3	4356.4	4665.9	5395	3351.1
O-Pile 98-1393	1066.8	15.88	1392.8	9742	3413	519636	326.11	386.3	446.5	3358.4	4030.1	4365.9	4676.1	5406.8	3358.4
O-Pile 98-1522	1422.4	9.52	1522.4	9744	3413	692991.3	257.19	302.82	348.45	3359.1	4030.9	4366.8	4677.1	5407.9	3359.1
O-Pile 98-1014	914.4	15.88	1014.4	9754	3413	445954.3	272.11	320.22	368.33	3362.6	4035.1	4371.4	4681.9	5413.5	3362.6
O-Pile 98-826	762	19.05	826	9754.7	3413	371653.8	268.96	316.19	363.41	3362.8	4035.4	4371.7	4682.3	5413.9	3362.8
O-Pile 98-1596	1270	12.7	1596	9781.8	3413	621143.5	312.87	370.86	428.85	3372.2	4046.6	4383.8	4695.3	5428.9	3372.2
O-Pile 99-1472	1371.6	10	1471.6	9823	3413	673662	260.12	306.24	352.35	3386.4	4063.6	4402.3	4715	5451.8	3386.4
O-Pile 99-1283	1219.2	11.11	1283.2	9837	3413	599665.7	255.49	300.47	345.45	3391.2	4069.4	4408.6	4721.8	5459.6	3391.2
O-Pile 99-1247	1066.8	14.29	1246.8	9838.5	3413	524785	289.7	341.83	393.96	3391.7	4070	4409.2	4722.5	5460.4	3391.7
O-Pile 99-942	762	22.22	942	9854.1	3413	375440.6	315.66	372.12	428.58	3397.1	4076.5	4416.2	4730	5469	3397.1
O-Pile 99-1748	1422.4	11.11	1748.4	9865.4	3413	701624.3	307.6	364.71	421.82	3401	4081.2	4421.2	4735.4	5475.3	3401
O-Pile 99-1218	1117.6	12.7	1217.6	9888.5	3413	552567.3	267.82	315.22	362.62	3408.9	4090.7	4431.6	4746.5	5488.1	3408.9
O-Pile 99-1501	1320.8	11.11	1500.8	9891.8	3413	653255.6	280.75	331.39	382.03	3410.1	4092.1	4433.1	4748.1	5490	3410.1
O-Pile 99-1094	914.4	17.46	1094.4	9893.2	3413	452315.4	301.26	355.32	409.38	3410.5	4092.7	4433.7	4748.7	5490.7	3410.5
O-Pile 100-811	711.2	22.22	811.2	9905.4	3413	352237.4	291.5	342.84	394.19	3414.8	4097.7	4439.2	4754.6	5497.5	3414.8
O-Pile 100-1139	812.8	23.81	1138.8	9932.8	3413	403667	365.03	431.71	498.39	3424.2	4109	4451.5	4767.7	5512.7	3424.2
O-Pile 100-1116	1016	14.29	1116	9949.6	3413	505440	273	321.26	369.51	3430	4116	4459	4775.8	5522	3430
O-Pile 100-1486	1422.4	9.52	1486.4	9980	3413	709775.3	256.1	301.18	346.26	3440.5	4128.6	4472.6	4790.4	5538.9	3440.5



Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

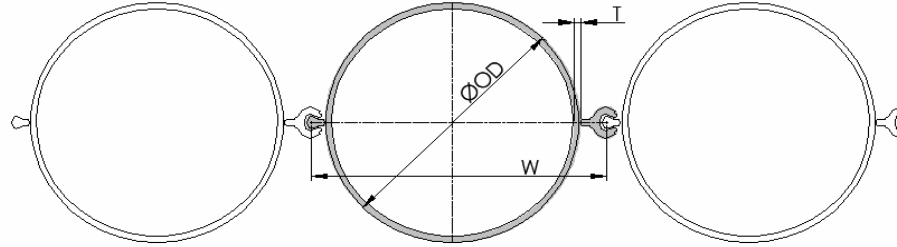
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SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 100-964	863.6	17.46	963.6	9988.4	3413	431298.3	281.57	331.26	380.95	3443.4	4132	4476.4	4794.4	5543.6	3443.4
O-Pile 100-993	812.8	20.64	992.8	9991.7	3413	406062.7	313.93	370.11	426.28	3444.5	4133.4	4477.9	4796	5545.4	3444.5
O-Pile 101-1044	863.6	19.05	1043.6	10005.4	3413	432034.3	309.13	364.51	419.88	3449.3	4139.1	4484	4802.6	5553	3449.3
O-Pile 101-1704	1524	9.52	1704	10007	3413	762535.2	278.37	328.61	378.86	3449.8	4139.8	4484.7	4803.4	5553.9	3449.8
O-Pile 101-1370	1270	11.11	1370	10008.6	3413	635543.8	267.03	314.29	361.56	3450.3	4140.4	4485.4	4804.1	5554.8	3450.3
O-Pile 101-1342	1016	17.46	1342	10017.9	3413	508908.3	340.05	402.56	465.08	3453.5	4144.2	4489.6	4808.6	5559.9	3453.5
O-Pile 101-1901	1574.8	10	1900.8	10053.6	3413	791619.3	306.96	363.96	420.96	3465.9	4159	4505.6	4825.7	5579.7	3465.9
O-Pile 101-862	762	20.64	862	10062.7	3413	383387.5	291.27	342.57	393.88	3469	4162.8	4509.7	4830.1	5584.8	3469
O-Pile 101-1436	1371.6	10	1435.6	10069.3	3413	690555.2	259.03	304.59	350.16	3471.3	4165.5	4512.7	4833.3	5588.5	3471.3
O-Pile 101-913	812.8	19.05	912.8	10090.8	3413	410090.9	287.96	338.71	389.47	3478.7	4174.4	4522.3	4843.6	5600.4	3478.7
O-Pile 102-978	914.4	15.88	978.4	10112.9	3413	462363	271.02	318.58	366.14	3486.3	4183.6	4532.2	4854.2	5612.7	3486.3
O-Pile 102-1190	863.6	22.22	1189.6	10127.2	3413	437293.2	363.4	429.81	496.22	3491.2	4189.5	4538.6	4861.1	5620.6	3491.2
O-Pile 102-891	711.2	25.4	891.2	10165.9	3413	361498	333.74	393.22	452.7	3504.6	4205.5	4555.9	4879.6	5642.1	3504.6
O-Pile 102-1291	965.2	19.05	1291.2	10172.6	3413	490927.8	350.91	415.23	479.56	3506.9	4208.2	4558.9	4882.8	5645.8	3506.9
O-Pile 102-1698	1371.6	12	1697.6	10173.6	3413	697708.5	319.3	378.36	437.42	3507.2	4208.7	4559.4	4883.3	5646.4	3507.2
O-Pile 102-1182	1117.6	12.7	1181.6	10189.7	3413	569402.5	266.73	313.58	360.43	3512.8	4215.3	4566.6	4891.1	5655.3	3512.8
O-Pile 102-1450	1270	12	1450	10190.2	3413	647075.2	290.77	343.09	395.4	3512.9	4215.5	4566.8	4891.3	5655.5	3512.9
O-Pile 103-1240	914.4	20.64	1240.4	10208.1	3413	466716.4	358.69	424.32	489.94	3519.1	4223	4574.9	4899.9	5665.5	3519.1
O-Pile 103-1522	1422.4	10	1522.4	10219.6	3413	726819.5	269.52	317.2	364.88	3523.1	4227.7	4580	4905.4	5671.9	3523.1
O-Pile 103-1647	1320.8	12.7	1646.8	10265.5	3413	677933	324.8	384.78	444.76	3538.9	4246.7	4600.6	4927.4	5697.3	3538.9
O-Pile 103-1196	1016	15.88	1196	10267.2	3413	521572.7	305.22	359.94	414.66	3539.5	4247.4	4601.3	4928.2	5698.3	3539.5
O-Pile 103-1399	1219.2	12.7	1399.2	10270	3413	626057	294.96	347.97	400.99	3540.4	4248.5	4602.6	4929.6	5699.8	3540.4
O-Pile 103-1334	1270	11.11	1334	10278.7	3413	652694.9	265.93	312.65	359.37	3543.4	4252.1	4606.5	4933.8	5704.7	3543.4
O-Pile 103-1080	1016	14.29	1080	10281.3	3413	522288	271.9	319.61	367.32	3544.3	4253.2	4607.6	4935	5706.1	3544.3
O-Pile 104-1319	1219.2	12	1319.2	10310.2	3413	628508.2	276.22	325.02	373.82	3554.3	4265.2	4620.6	4948.9	5722.1	3554.3
O-Pile 104-1552	1371.6	11.11	1551.6	10327.8	3413	708281.8	291.19	343.57	395.95	3560.4	4272.5	4628.5	4957.4	5731.9	3560.4
O-Pile 104-1202	876.3	22.22	1202.3	10328.8	3413	452554.4	368.62	435.9	503.18	3560.7	4272.9	4628.9	4957.8	5732.5	3560.7
O-Pile 104-1444	1117.6	15.88	1443.6	10336.7	3413	577612.2	341.03	403.71	466.39	3563.4	4276.1	4632.5	4961.6	5736.8	3563.4



Data Sheet

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Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

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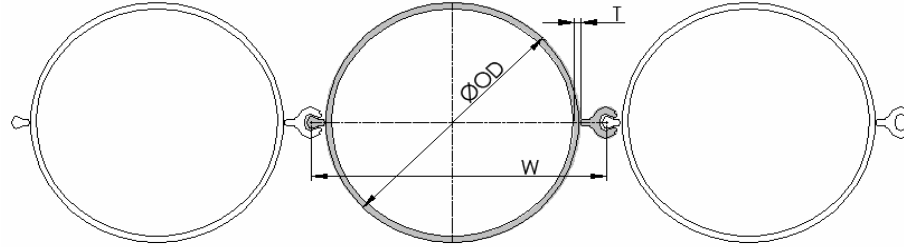
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 104-775	711.2	22.22	775.2	10365.4	3413	368595.2	290.41	341.2	392	3573.4	4288	4645.4	4975.4	5752.8	3573.4
O-Pile 104-928	863.6	17.46	927.6	10376	3413	448036.9	280.48	329.62	378.76	3577	4292.4	4650.1	4980.5	5758.7	3577
O-Pile 104-1065	965.2	15.88	1065.2	10378.2	3413	500851.5	287.03	337.62	388.22	3577.8	4293.3	4651.1	4981.5	5759.9	3577.8
O-Pile 104-1755	1574.8	9.52	1754.8	10382.2	3413	817494.9	287.32	339.06	390.79	3579.1	4295	4652.9	4983.5	5762.1	3579.1
O-Pile 104-1298	1117.6	14.29	1297.6	10394.1	3413	580823.1	303.12	357.49	411.86	3583.2	4299.9	4658.2	4989.2	5768.7	3583.2
O-Pile 105-1545	1219.2	14.29	1545.2	10421.1	3413	635271.2	335.94	397.78	459.61	3592.6	4311.1	4670.3	5002.1	5783.7	3592.6
O-Pile 105-1421	1320.8	11.11	1420.8	10448.8	3413	690038	277.47	326.48	375.48	3602.1	4322.5	4682.7	5015.4	5799.1	3602.1
O-Pile 105-1486	1422.4	10	1486.4	10467.1	3413	744422.8	268.42	315.56	362.69	3608.4	4330.1	4690.9	5024.2	5809.3	3608.4
O-Pile 105-942	762	23.81	942	10491.6	3413	399729.3	336.68	396.65	456.61	3616.8	4340.2	4701.9	5036	5822.8	3616.8
O-Pile 105-1704	1524	10	1704	10496.2	3413	799812.2	291.59	344.04	396.49	3618.4	4342.1	4704	5038.2	5825.4	3618.4
O-Pile 105-1624	1524	9.52	1624	10500	3413	800098.5	275.09	323.7	372.31	3619.7	4343.7	4705.7	5040	5827.5	3619.7
O-Pile 106-826	762	20.64	826	10501.2	3413	400096.9	290.17	340.93	391.69	3620.2	4344.2	4706.2	5040.6	5828.2	3620.2
O-Pile 106-877	812.8	19.05	876.8	10505.1	3413	426928.6	286.86	337.07	387.28	3621.5	4345.8	4708	5042.5	5830.3	3621.5
O-Pile 106-1167	1066.8	14.29	1166.8	10513.1	3413	560766.2	286.42	336.92	387.41	3624.2	4349.1	4711.5	5046.3	5834.7	3624.2
O-Pile 106-1139	812.8	25.4	1138.8	10532.5	3413	428040	387.45	457.87	528.29	3630.9	4357.1	4720.2	5055.6	5845.5	3630.9
O-Pile 106-811	711.2	23.81	811.2	10541.5	3413	374854.5	311.03	365.63	420.23	3634	4360.8	4724.3	5059.9	5850.5	3634
O-Pile 106-1145	965.2	17.46	1145.2	10566	3413	509913.6	317.66	374.46	431.25	3642.5	4371	4735.2	5071.7	5864.1	3642.5
O-Pile 106-1283	1219.2	12	1283.2	10599.4	3413	646140.9	275.13	323.38	371.63	3654	4384.8	4750.2	5087.7	5882.7	3654
O-Pile 107-1748	1422.4	12	1748.4	10633.3	3413	756240	330.57	391.51	452.45	3665.7	4398.8	4765.4	5104	5901.5	3665.7
O-Pile 107-1501	1320.8	12	1500.8	10660.3	3413	704004.5	302.05	356.24	410.43	3675	4410	4777.5	5116.9	5916.5	3675
O-Pile 107-1393	1066.8	17.46	1392.8	10668.2	3413	569040.8	356.45	421.71	486.96	3677.7	4413.3	4781	5120.7	5920.8	3677.7
O-Pile 107-1014	914.4	17.46	1014.4	10673.4	3413	487987	297.98	350.4	402.83	3679.5	4415.4	4783.4	5123.2	5923.7	3679.5
O-Pile 107-993	812.8	22.22	992.8	10696.9	3413	434723	336.54	396.48	456.43	3687.6	4425.2	4793.9	5134.5	5936.8	3687.6
O-Pile 108-1850	1524	11.11	1850	10719.9	3413	816854.1	328.49	389.08	449.67	3695.5	4434.6	4804.2	5145.5	5949.5	3695.5
O-Pile 108-1385	1320.8	11.11	1384.8	10720.4	3413	707976.6	276.38	324.83	373.29	3695.7	4434.9	4804.5	5145.8	5949.8	3695.7
O-Pile 108-1094	914.4	19.05	1094.4	10736.1	3413	490855.3	327.03	385.39	443.75	3701.1	4441.4	4811.5	5153.3	5958.5	3701.1
O-Pile 108-1588	1524	9.52	1588	10738	3413	818236.8	274	322.06	370.12	3701.8	4442.2	4812.3	5154.2	5959.6	3701.8
O-Pile 108-1029	965.2	15.88	1029.2	10741.2	3413	518370.6	285.93	335.98	386.03	3702.9	4443.5	4813.8	5155.8	5961.4	3702.9

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Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

O-Pile® systems are available for immediate shipment, these are examples from an endless variety of possible O-Pile®, please configure your own system on O-Pile.com.

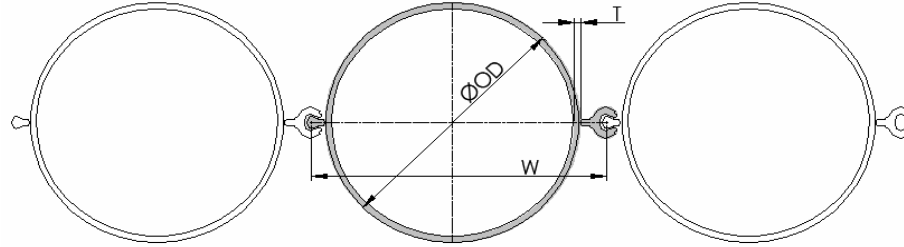
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 108-1698	1371.6	12.7	1697.6	10750.6	3413	737276.2	336.74	398.7	460.67	3706.1	4447.4	4818	5160.3	5966.6	3706.1
O-Pile 108-1602	1422.4	11.11	1602.4	10764.2	3413	765551.7	301.63	355.75	409.87	3710.8	4453	4824.1	5166.8	5974.1	3710.8
O-Pile 108-1450	1270	12.7	1450	10766.7	3413	683686.2	306.9	361.9	416.9	3711.7	4454	4825.2	5168	5975.5	3711.7
O-Pile 108-862	762	22.22	862	10768.6	3413	410284.2	312.38	367.21	422.03	3712.4	4454.8	4826.1	5168.9	5976.6	3712.4
O-Pile 108-1044	863.6	20.64	1043.6	10779.2	3413	465444.6	333.33	392.73	452.14	3716	4459.2	4830.8	5174	5982.4	3716
O-Pile 108-1370	1270	12	1370	10785.2	3413	684860.6	287.5	338.17	388.85	3718.1	4461.7	4833.5	5176.9	5985.8	3718.1
O-Pile 108-1190	863.6	23.81	1189.6	10790.4	3413	465930.6	387.41	457.82	528.23	3719.9	4463.8	4835.8	5179.4	5988.7	3719.9
O-Pile 109-964	863.6	19.05	963.6	10836.1	3413	467902.7	305.86	359.59	413.33	3735.6	4482.7	4856.3	5201.3	6014	3735.6
O-Pile 109-1131	1066.8	14.29	1130.8	10847.7	3413	578618.7	285.33	335.27	385.22	3739.6	4487.5	4861.5	5206.9	6020.5	3739.6
O-Pile 109-913	812.8	20.64	912.8	10867.4	3413	441651	310.66	365.2	419.73	3746.4	4495.7	4870.3	5216.3	6031.4	3746.4
O-Pile 109-1342	1016	19.05	1342	10877.2	3413	552561.8	368.81	436.12	503.43	3749.8	4499.7	4874.7	5221.1	6036.8	3749.8
O-Pile 109-1675	1574.8	9.52	1674.8	10878.1	3413	856544.1	284.04	334.14	384.24	3750.1	4500.1	4875.1	5221.5	6037.4	3750.1
O-Pile 109-1247	1066.8	15.88	1246.8	10882.7	3413	580485.2	320.13	377.34	434.55	3751.7	4502	4877.2	5223.7	6039.9	3751.7
O-Pile 109-1472	1371.6	11.11	1471.6	10889.3	3413	746785.8	287.91	338.66	389.4	3753.9	4504.7	4880.1	5226.8	6043.5	3753.9
O-Pile 109-1755	1574.8	10	1754.8	10890	3413	857482.3	300.98	355	409.01	3754.2	4505	4880.5	5227.2	6044	3754.2
O-Pile 109-1319	1219.2	12.7	1319.2	10892.8	3413	664022.9	291.69	343.06	394.44	3755.1	4506.2	4881.7	5228.5	6045.5	3755.1
O-Pile 110-1240	914.4	22.22	1240.4	10935.9	3413	499987.9	384.28	454.17	524.06	3770	4524	4901	5249.2	6069.4	3770
O-Pile 110-1596	1270	14.29	1596	10963.1	3413	696159.1	349.37	413.44	477.51	3779.4	4535.3	4913.2	5262.3	6084.5	3779.4
O-Pile 110-1291	965.2	20.64	1291.2	10965.7	3413	529203.8	378.08	446.94	515.8	3780.3	4536.3	4914.4	5263.5	6086	3780.3
O-Pile 111-1116	1016	15.88	1116	11003.2	3413	558961.5	301.94	355.03	408.11	3793.2	4551.8	4931.2	5281.5	6106.8	3793.2
O-Pile 111-1624	1524	10	1624	11013.3	3413	839211.8	288.31	339.12	389.94	3796.7	4556	4935.7	5286.4	6112.4	3796.7
O-Pile 111-775	711.2	23.81	775.2	11031	3413	392262.6	309.94	363.99	418.04	3802.8	4563.4	4943.6	5294.9	6122.2	3802.8
O-Pile 111-978	914.4	17.46	978.4	11066.1	3413	505942.4	296.89	348.76	400.64	3814.9	4577.9	4959.4	5311.7	6141.7	3814.9
O-Pile 111-1334	1270	12	1334	11076.3	3413	703342.6	286.4	336.53	386.66	3818.4	4582.1	4963.9	5316.6	6147.3	3818.4
O-Pile 111-1218	1117.6	14.29	1217.6	11077	3413	618984.9	299.85	352.58	405.31	3818.7	4582.4	4964.3	5317	6147.8	3818.7
O-Pile 112-1639	1574.8	9.52	1638.8	11117.1	3413	875360	282.95	332.5	382.05	3832.5	4599	4982.2	5336.2	6170	3832.5
O-Pile 112-942	762	25.4	942	11120.6	3413	423695.3	357.61	421.06	484.52	3833.7	4600.4	4983.8	5337.9	6171.9	3833.7
O-Pile 112-1552	1371.6	12	1551.6	11130.9	3413	763360.4	313.32	369.4	425.47	3837.3	4604.7	4988.4	5342.9	6177.7	3837.3

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Data Sheet

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Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

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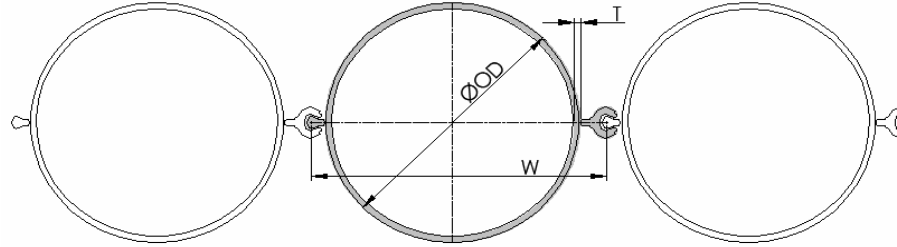
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 112-1901	1574.8	11.11	1900.8	11148.4	3413	877825.1	338.93	401.26	463.59	3843.3	4611.9	4996.3	5351.2	6187.4	3843.3
O-Pile 112-1436	1371.6	11.11	1435.6	11162.3	3413	765512.7	286.82	337.02	387.21	3848.1	4617.7	5002.5	5357.9	6195.1	3848.1
O-Pile 112-811	711.2	25.4	811.2	11168.4	3413	397148.7	330.47	388.31	446.15	3850.2	4620.2	5005.2	5360.8	6198.5	3850.2
O-Pile 112-1283	1219.2	12.7	1283.2	11198.4	3413	682652	290.59	341.42	392.25	3860.5	4632.6	5018.6	5375.2	6215.1	3860.5
O-Pile 113-1748	1422.4	12.7	1748.4	11236.9	3413	799170.7	348.67	412.62	476.58	3873.8	4648.6	5035.9	5393.7	6236.5	3873.8
O-Pile 113-826	762	22.22	826	11237.9	3413	428165.9	311.29	365.57	419.84	3874.1	4649	5036.4	5394.2	6237.1	3874.1
O-Pile 113-1196	1016	17.46	1196	11240.8	3413	571032.6	334.07	393.6	453.13	3875.1	4650.2	5037.7	5395.6	6238.6	3875.1
O-Pile 113-928	863.6	19.05	927.6	11256.6	3413	486061.9	304.76	357.95	411.14	3880.6	4656.7	5044.8	5403.2	6247.4	3880.6
O-Pile 113-1421	1320.8	12	1420.8	11260.5	3413	743644.4	298.77	351.33	403.88	3881.9	4658.3	5046.5	5405	6249.6	3881.9
O-Pile 113-1588	1524	10	1588	11262.9	3413	858236.8	287.22	337.48	387.75	3882.8	4659.3	5047.6	5406.2	6250.9	3882.8
O-Pile 113-1501	1320.8	12.7	1500.8	11264.1	3413	743883.3	318.83	375.82	432.81	3883.2	4659.8	5048.1	5406.8	6251.6	3883.2
O-Pile 114-877	812.8	20.64	876.8	11313.6	3413	459784.4	309.56	363.55	417.54	3900.2	4680.3	5070.3	5430.5	6279	3900.2
O-Pile 114-1444	1117.6	17.46	1443.6	11321.7	3413	632659.3	372.86	440.85	508.84	3903	4683.6	5073.9	5434.4	6283.6	3903
O-Pile 114-1522	1422.4	11.11	1522.4	11329.9	3413	805780.3	298.35	350.84	403.32	3905.8	4687	5077.6	5438.3	6288.1	3905.8
O-Pile 114-1065	965.2	17.46	1065.2	11359.5	3413	548209.7	314.39	369.55	424.7	3916.1	4699.3	5090.9	5452.6	6304.5	3916.1
O-Pile 114-1080	1016	15.88	1080	11370	3413	577593.5	300.85	353.38	405.92	3919.7	4703.6	5095.5	5457.6	6310.3	3919.7
O-Pile 114-993	812.8	23.81	992.8	11393.5	3413	463029.8	359.06	422.75	486.44	3927.8	4713.3	5106.1	5468.9	6323.4	3927.8
O-Pile 114-1370	1270	12.7	1370	11395.4	3413	723609.5	303.62	356.98	410.35	3928.4	4714.1	5107	5469.8	6324.5	3928.4
O-Pile 115-1675	1574.8	10	1674.8	11410.2	3413	898441.6	297.71	350.09	402.46	3933.5	4720.2	5113.6	5476.9	6332.7	3933.5
O-Pile 115-1182	1117.6	14.29	1181.6	11414.5	3413	637843.6	298.75	350.94	403.12	3935	4722	5115.5	5479	6335.1	3935
O-Pile 115-2155	1828.8	9.52	2154.8	11431.1	3413	1045261.7	338.04	400.23	462.41	3940.7	4728.9	5123	5486.9	6344.3	3940.7
O-Pile 115-1190	863.6	25.4	1189.6	11445.9	3413	494235.9	411.32	485.71	560.11	3945.9	4735	5129.6	5494.1	6352.5	3945.9
O-Pile 115-862	762	23.81	862	11465.3	3413	436827.1	333.41	391.73	450.06	3952.5	4743	5138.3	5503.3	6363.2	3952.5
O-Pile 115-1145	965.2	19.05	1145.2	11469.4	3413	553515.5	344.93	406.27	467.61	3954	4744.7	5140.1	5505.3	6365.5	3954
O-Pile 115-1298	1117.6	15.88	1297.6	11499.7	3413	642602.5	335.05	394.74	454.44	3964.4	4757.2	5153.7	5519.8	6382.3	3964.4
O-Pile 116-1647	1320.8	14.29	1646.8	11507	3413	759922.3	362.79	429.1	495.41	3966.9	4760.3	5157	5523.4	6386.4	3966.9
O-Pile 116-1399	1219.2	14.29	1399.2	11508.5	3413	701558.7	329.97	388.82	447.66	3967.4	4760.9	5157.6	5524.1	6387.2	3967.4
O-Pile 116-1545	1219.2	15.88	1545.2	11533.7	3413	703093.5	370.86	438.51	506.16	3976.1	4771.3	5168.9	5536.2	6401.2	3976.1

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O-Pile 52 - 1044

KEY: (52 = Section Modulus)

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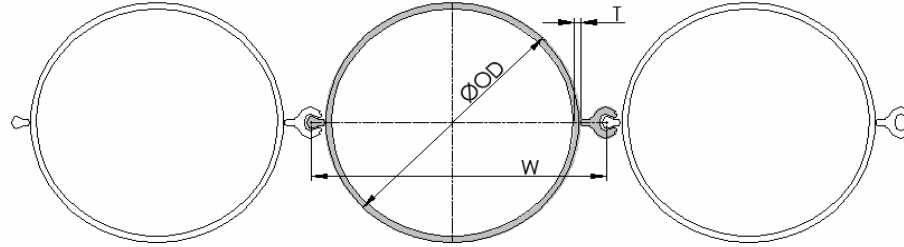
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 116-1044	863.6	22.22	1043.6	11544	3413	498470.7	357.42	420.85	484.27	3979.7	4775.6	5173.6	5541.1	6406.9	3979.7
O-Pile 116-1385	1320.8	12	1384.8	11553.2	3413	762976.6	297.68	349.69	401.69	3982.8	4779.4	5177.7	5545.6	6412.1	3982.8
O-Pile 116-1850	1524	12	1850	11555.7	3413	880545.9	353.12	417.82	482.52	3983.7	4780.4	5178.8	5546.7	6413.4	3983.7
O-Pile 116-1094	914.4	20.64	1094.4	11570	3413	528979.3	352.72	415.35	477.99	3988.6	4786.3	5185.2	5553.6	6421.3	3988.6
O-Pile 116-1014	914.4	19.05	1014.4	11582.8	3413	529566.2	323.76	380.48	437.2	3993	4791.6	5190.9	5559.8	6428.5	3993
O-Pile 116-1393	1066.8	19.05	1392.8	11585.9	3413	617991.8	386.71	457	527.29	3994.1	4792.9	5192.3	5561.2	6430.2	3994.1
O-Pile 117-1602	1422.4	12	1602.4	11602.1	3413	825143.5	324.6	382.55	440.5	3999.7	4799.6	5199.6	5569	6439.2	3999.7
O-Pile 117-1486	1422.4	11.11	1486.4	11604.3	3413	825296	297.26	349.2	401.13	4000.4	4800.5	5200.6	5570.1	6440.4	4000.4
O-Pile 117-1167	1066.8	15.88	1166.8	11628.9	3413	620285.4	316.86	372.43	428	4008.9	4810.7	5211.6	5581.9	6454	4008.9
O-Pile 117-913	812.8	22.22	912.8	11634.4	3413	472823.2	333.27	391.57	449.88	4010.8	4813	5214.1	5584.5	6457.1	4010.8
O-Pile 117-1704	1524	11.11	1704	11638.4	3413	886842.7	322.51	380.11	437.72	4012.2	4814.6	5215.8	5586.4	6459.3	4012.2
O-Pile 117-1240	914.4	23.81	1240.4	11655.7	3413	532896.6	409.78	483.92	558.06	4018.1	4821.8	5223.6	5594.7	6468.9	4018.1
O-Pile 117-1639	1574.8	10	1638.8	11660.9	3413	918177.9	296.61	348.44	400.27	4019.9	4823.9	5225.9	5597.2	6471.8	4019.9
O-Pile 117-964	863.6	20.64	963.6	11674.1	3413	504086.8	330.05	387.82	445.59	4024.5	4829.4	5231.8	5603.6	6479.1	4024.5
O-Pile 117-775	711.2	25.4	775.2	11687.1	3413	415592.1	329.37	386.67	443.96	4029	4834.8	5237.7	5609.8	6486.3	4029
O-Pile 118-1334	1270	12.7	1334	11702.9	3413	743137.2	302.53	355.34	408.16	4034.5	4841.3	5244.8	5617.4	6495.1	4034.5
O-Pile 118-1342	1016	20.64	1342	11728.2	3413	595792.1	397.47	469.56	541.65	4043.2	4851.8	5256.1	5629.5	6509.1	4043.2
O-Pile 118-1472	1371.6	12	1471.6	11736.1	3413	804858.7	310.05	364.48	418.92	4045.9	4855	5259.6	5633.3	6513.5	4045.9
O-Pile 118-1291	965.2	22.22	1291.2	11750.7	3413	567087.2	405.16	478.54	551.91	4050.9	4861.1	5266.2	5640.3	6521.6	4050.9
O-Pile 118-1056	876.3	22.22	1056.3	11756.4	3413	515105.7	362.65	426.94	491.23	4052.9	4863.4	5268.7	5643.1	6524.8	4052.9
O-Pile 118-1029	965.2	17.46	1029.2	11756.8	3413	567385.3	313.29	367.9	422.51	4053	4863.6	5268.9	5643.3	6525	4053
O-Pile 118-1552	1371.6	12.7	1551.6	11762.2	3413	806651.2	330.76	389.74	448.72	4054.9	4865.8	5271.3	5645.9	6528	4054.9
O-Pile 119-1421	1320.8	12.7	1420.8	11898.4	3413	785768.6	315.55	370.91	426.26	4101.8	4922.2	5332.4	5711.2	6603.6	4101.8
O-Pile 120-1247	1066.8	17.46	1246.8	11917.4	3413	635675.3	350.48	412.74	475.01	4108.4	4930.1	5340.9	5720.4	6614.2	4108.4
O-Pile 120-826	762	23.81	826	11965	3413	455865.6	332.31	390.09	447.87	4124.8	4949.7	5362.2	5743.2	6640.6	4124.8
O-Pile 120-2155	1828.8	10	2154.8	11991.8	3413	1096528.7	353.94	418.77	483.6	4134	4960.8	5374.2	5756.1	6655.4	4134
O-Pile 120-1131	1066.8	15.88	1130.8	11999.1	3413	640032.7	315.76	370.79	425.81	4136.6	4963.9	5377.5	5759.6	6659.5	4136.6
O-Pile 121-978	914.4	19.05	978.4	12009	3413	549051.5	322.66	378.83	435.01	4140	4967.9	5381.9	5764.3	6665	4140

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Data Sheet

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Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

O-Pile® systems are available for immediate shipment, these are examples from an endless variety of possible O-Pile®, please configure your own system on O-Pile.com.

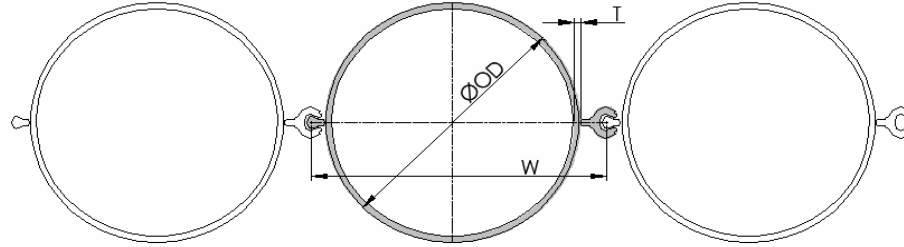
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 121-1901	1574.8	12	1900.8	12018.4	3413	946327.9	364.4	430.98	497.55	4143.2	4971.8	5386.1	5768.8	6670.2	4143.2
O-Pile 121-1436	1371.6	12	1435.6	12030.4	3413	825041.8	308.95	362.84	416.73	4147.3	4976.8	5391.5	5774.6	6676.8	4147.3
O-Pile 121-1116	1016	17.46	1116	12046.6	3413	611966.8	330.8	388.69	446.58	4152.9	4983.5	5398.8	5782.4	6685.9	4152.9
O-Pile 121-1698	1371.6	14.29	1697.6	12052.3	3413	826549.2	376.22	444.76	513.31	4154.9	4985.9	5401.4	5785.1	6689	4154.9
O-Pile 121-1450	1270	14.29	1450	12067	3413	766255.2	343.39	404.48	465.56	4160	4991.9	5407.9	5792.2	6697.2	4160
O-Pile 121-1755	1574.8	11.11	1754.8	12076	3413	950860.5	332.95	392.3	451.64	4163	4995.6	5411.9	5796.5	6702.2	4163
O-Pile 121-993	812.8	25.4	992.8	12081.4	3413	490987.1	381.48	448.91	516.34	4164.9	4997.9	5414.4	5799.1	6705.2	4164.9
O-Pile 122-877	812.8	22.22	876.8	12112.1	3413	492236.5	332.17	389.93	447.69	4175.5	5010.6	5428.2	5813.8	6722.2	4175.5
O-Pile 122-928	863.6	20.64	927.6	12127.1	3413	523650.3	328.96	386.18	443.4	4180.7	5016.8	5434.9	5821	6730.6	4180.7
O-Pile 122-1596	1270	15.88	1596	12135.6	3413	770607.8	385.77	455.91	526.05	4183.6	5020.3	5438.7	5825.1	6735.2	4183.6
O-Pile 122-862	762	25.4	862	12152.7	3413	463017.4	354.34	416.15	477.97	4189.5	5027.4	5446.3	5833.3	6744.7	4189.5
O-Pile 123-1196	1016	19.05	1196	12205	3413	620015.1	362.83	427.16	491.48	4207.5	5049	5469.8	5858.4	6773.8	4207.5
O-Pile 123-1319	1219.2	14.29	1319.2	12206.4	3413	744103.2	326.69	383.9	441.11	4208	5049.6	5470.4	5859.1	6774.6	4208
O-Pile 123-1385	1320.8	12.7	1384.8	12207.7	3413	806195.8	314.46	369.26	424.07	4208.5	5050.1	5471	5859.7	6775.3	4208.5
O-Pile 123-1624	1524	11.11	1624	12211.7	3413	930529.6	319.24	375.2	431.17	4209.8	5051.8	5472.8	5861.6	6777.5	4209.8
O-Pile 123-1522	1422.4	12	1522.4	12211.8	3413	868503.7	321.32	377.64	433.95	4209.9	5051.8	5472.8	5861.7	6777.6	4209.9
O-Pile 123-1850	1524	12.7	1850	12213	3413	930627	372.54	440.47	508.4	4210.3	5052.3	5473.3	5862.2	6778.2	4210.3
O-Pile 123-1218	1117.6	15.88	1217.6	12255.3	3413	684823.4	331.78	389.83	447.89	4224.9	5069.8	5492.3	5882.5	6801.7	4224.9
O-Pile 123-1602	1422.4	12.7	1602.4	12260.8	3413	871985.8	342.69	403.66	464.63	4226.8	5072.1	5494.8	5885.2	6804.7	4226.8
O-Pile 123-2009	1828.8	9.52	2008.8	12261.9	3413	1121231.6	332.07	391.26	450.46	4227.2	5072.6	5495.3	5885.7	6805.4	4227.2
O-Pile 123-1444	1117.6	19.05	1443.6	12298.2	3413	687223.6	404.61	477.88	551.16	4239.7	5087.6	5511.6	5903.1	6825.5	4239.7
O-Pile 124-1044	863.6	23.81	1043.6	12300	3413	531114.4	381.43	448.85	516.28	4240.3	5088.3	5512.4	5904	6826.5	4240.3
O-Pile 124-1065	965.2	19.05	1065.2	12330.8	3413	595086.4	341.66	401.36	461.06	4250.9	5101.1	5526.2	5918.8	6843.6	4250.9
O-Pile 124-1145	965.2	20.64	1145.2	12363.7	3413	596671.3	372.11	437.98	503.85	4262.2	5114.7	5540.9	5934.6	6861.8	4262.2
O-Pile 124-1240	914.4	25.4	1240.4	12367.6	3413	565446.6	435.18	513.56	591.93	4263.6	5116.3	5542.7	5936.4	6864	4263.6
O-Pile 124-913	812.8	23.81	912.8	12392	3413	503610.9	355.78	417.84	479.89	4272	5126.4	5553.6	5948.2	6877.6	4272
O-Pile 124-1094	914.4	22.22	1094.4	12394.8	3413	566689.5	378.31	445.21	512.11	4273	5127.5	5554.8	5949.5	6879.1	4273
O-Pile 125-1472	1371.6	12.7	1471.6	12401.6	3413	850502.9	327.49	384.83	442.17	4275.3	5130.4	5557.9	5952.8	6882.9	4275.3

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O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

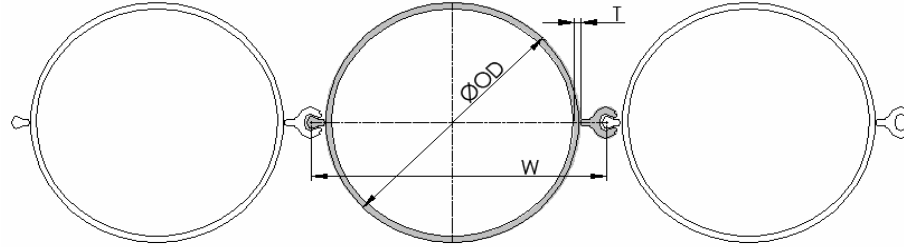
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SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 125-1080	1016	17.46	1080	12448.1	3413	632365.7	329.7	387.05	444.39	4291.3	5149.6	5578.7	5975.1	6908.7	4291.3
O-Pile 125-1014	914.4	20.64	1014.4	12482.4	3413	570697	349.44	410.44	471.44	4303.2	5163.8	5594.1	5991.6	6927.8	4303.2
O-Pile 125-1588	1524	11.11	1588	12488.5	3413	951624.7	318.14	373.56	428.98	4305.3	5166.3	5596.8	5994.5	6931.1	4305.3
O-Pile 125-1393	1066.8	20.64	1392.8	12495.1	3413	666491.2	416.86	492.19	567.51	4307.6	5169.1	5599.8	5997.7	6934.8	4307.6
O-Pile 126-964	863.6	22.22	963.6	12502.4	3413	539854.7	354.15	415.93	477.72	4310.1	5172.1	5603.1	6001.2	6938.8	4310.1
O-Pile 126-1486	1422.4	12	1486.4	12507.6	3413	889538.5	320.23	375.99	431.76	4311.8	5174.2	5605.4	6003.6	6941.7	4311.8
O-Pile 126-1291	965.2	23.81	1291.2	12527.6	3413	604581	432.15	510.02	587.89	4318.7	5182.5	5614.3	6013.2	6952.8	4318.7
O-Pile 126-1704	1524	12	1704	12545.8	3413	955991.8	347.15	408.86	470.57	4325	5190	5622.5	6022	6962.9	4325
O-Pile 126-1283	1219.2	14.29	1283.2	12548.9	3413	764979	325.6	382.26	438.92	4326.1	5191.3	5623.9	6023.5	6964.6	4326.1
O-Pile 126-1342	1016	22.22	1342	12570.9	3413	638602.1	426.05	502.9	579.75	4333.7	5200.4	5633.8	6034	6976.9	4333.7
O-Pile 126-1298	1117.6	17.46	1297.6	12595.6	3413	703843.2	366.89	431.89	496.89	4342.2	5210.6	5644.8	6045.9	6990.6	4342.2
O-Pile 126-1748	1422.4	14.29	1748.4	12599.1	3413	896047.8	389.64	460.43	531.21	4343.4	5212.1	5646.4	6047.6	6992.5	4343.4
O-Pile 127-1501	1320.8	14.29	1500.8	12626.4	3413	833848.6	356.82	420.14	483.46	4352.8	5223.4	5658.6	6060.7	7007.7	4352.8
O-Pile 127-1182	1117.6	15.88	1181.6	12628.6	3413	705688.1	330.68	388.19	445.7	4353.6	5224.3	5659.6	6061.7	7008.9	4353.6
O-Pile 127-1545	1219.2	17.46	1545.2	12637.3	3413	770372.8	405.68	479.13	552.59	4356.6	5227.9	5663.5	6065.9	7013.7	4356.6
O-Pile 127-1675	1574.8	11.11	1674.8	12652.8	3413	996280.2	329.68	387.38	445.09	4361.9	5234.3	5670.5	6073.3	7022.3	4361.9
O-Pile 127-826	762	25.4	826	12682.3	3413	483197.3	353.24	414.51	475.78	4372.1	5246.5	5683.7	6087.5	7038.7	4372.1
O-Pile 128-1901	1574.8	12.7	1900.8	12702.4	3413	1000189.4	384.47	454.39	524.31	4379	5254.8	5692.7	6097.2	7049.8	4379
O-Pile 128-1436	1371.6	12.7	1435.6	12712.6	3413	871830.6	326.39	383.19	439.98	4382.5	5259	5697.3	6102.1	7055.5	4382.5
O-Pile 128-976	876.3	22.22	976.3	12719.7	3413	557314.6	359.37	422.03	484.68	4385	5262	5700.5	6105.5	7059.4	4385
O-Pile 128-1167	1066.8	17.46	1166.8	12734.5	3413	679259.5	347.2	407.83	468.46	4390.1	5268.1	5707.1	6112.6	7067.7	4390.1
O-Pile 128-1399	1219.2	15.88	1399.2	12737.2	3413	776458	364.88	429.55	494.21	4391	5269.2	5708.3	6113.8	7069.1	4391
O-Pile 128-1647	1320.8	15.88	1646.8	12739.3	3413	841304.3	400.69	473.31	545.94	4391.7	5270.1	5709.2	6114.9	7070.3	4391.7
O-Pile 128-1029	965.2	19.05	1029.2	12762.2	3413	615901.7	340.56	399.72	458.87	4399.6	5279.5	5719.5	6125.8	7083	4399.6
O-Pile 128-1929	1828.8	9.52	1928.8	12770.5	3413	1167736.4	328.79	386.35	443.91	4402.5	5283	5723.2	6129.8	7087.6	4402.5
O-Pile 128-1370	1270	14.29	1370	12771.7	3413	811000	340.12	399.57	459.01	4402.9	5283.4	5723.7	6130.4	7088.3	4402.9
O-Pile 129-2009	1828.8	10	2008.8	12863.3	3413	1176224.6	347.96	409.81	471.65	4434.5	5321.4	5764.8	6174.4	7139.2	4434.5
O-Pile 130-877	812.8	23.81	876.8	12900.8	3413	524288.3	354.69	416.2	477.7	4447.4	5336.9	5781.6	6192.4	7159.9	4447.4



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O-Pile 52 - 1044

KEY: (52 = Section Modulus)

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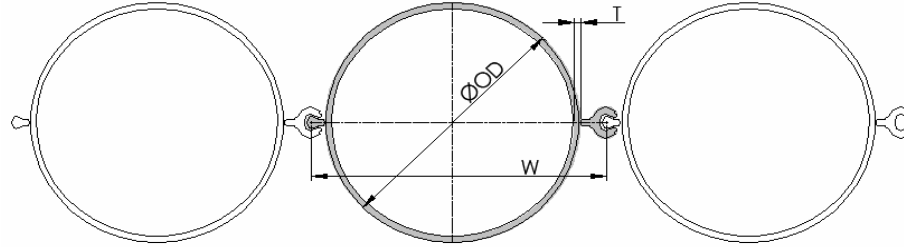
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 130-1522	1422.4	12.7	1522.4	12905.1	3413	917807.4	339.42	398.75	458.08	4448.9	5338.6	5783.5	6194.4	7162.3	4448.9
O-Pile 130-1639	1574.8	11.11	1638.8	12930.7	3413	1018165.7	328.58	385.74	442.9	4457.7	5349.2	5795	6206.8	7176.6	4457.7
O-Pile 130-978	914.4	20.64	978.4	12941.7	3413	591695.6	348.35	408.8	469.25	4461.5	5353.8	5800	6212	7182.7	4461.5
O-Pile 130-1247	1066.8	19.05	1246.8	12942.6	3413	690358.5	380.73	448.04	515.34	4461.8	5354.2	5800.3	6212.5	7183.1	4461.8
O-Pile 130-928	863.6	22.22	927.6	12987.6	3413	560806.4	353.05	414.29	475.53	4477.3	5372.8	5820.5	6234.1	7208.1	4477.3
O-Pile 131-1893	1828.8	9.52	1892.8	13013.4	3413	1189946.1	327.7	384.71	441.72	4486.2	5383.5	5832.1	6246.4	7222.4	4486.2
O-Pile 131-1755	1574.8	12	1754.8	13018.3	3413	1025062.7	358.42	422.01	485.6	4487.9	5385.5	5834.3	6248.8	7225.2	4487.9
O-Pile 131-1044	863.6	25.4	1043.6	13047.2	3413	563379.6	405.34	476.75	548.16	4497.9	5397.4	5847.2	6262.7	7241.2	4497.9
O-Pile 131-1116	1016	19.05	1116	13079.9	3413	664460.6	359.56	422.24	484.93	4509.1	5411	5861.9	6278.4	7259.4	4509.1
O-Pile 132-1334	1270	14.29	1334	13116.3	3413	832886.1	339.02	397.92	456.82	4521.7	5426	5878.2	6295.8	7279.6	4521.7
O-Pile 132-1131	1066.8	17.46	1130.8	13139.9	3413	700884.3	346.11	406.19	466.27	4529.8	5435.8	5888.8	6307.2	7292.7	4529.8
O-Pile 132-913	812.8	25.4	912.8	13140.2	3413	534018.4	378.2	444	509.79	4529.9	5435.9	5888.9	6307.3	7292.8	4529.9
O-Pile 132-1196	1016	20.64	1196	13159.9	3413	668522.6	391.5	460.6	529.7	4536.7	5444.1	5897.7	6316.7	7303.7	4536.7
O-Pile 132-1624	1524	12	1624	13163.8	3413	1003085	343.87	403.95	464.02	4538.1	5445.7	5899.5	6318.6	7305.9	4538.1
O-Pile 132-1552	1371.6	14.29	1551.6	13186.4	3413	904324.6	370.24	435.8	501.36	4545.9	5455	5909.6	6329.5	7318.5	4545.9
O-Pile 133-940	876.3	22.22	940.3	13206.7	3413	578651.7	358.28	420.38	482.49	4552.9	5463.4	5918.7	6339.2	7329.7	4552.9
O-Pile 133-1094	914.4	23.81	1094.4	13210.6	3413	603988.5	403.8	474.96	546.11	4554.2	5465	5920.4	6341.1	7331.9	4554.2
O-Pile 133-1486	1422.4	12.7	1486.4	13217.6	3413	940036.3	338.32	397.11	455.89	4556.6	5467.9	5923.6	6344.5	7335.8	4556.6
O-Pile 133-1145	965.2	22.22	1145.2	13248.7	3413	639384.4	399.19	469.57	539.96	4567.3	5480.8	5937.5	6359.4	7353.1	4567.3
O-Pile 133-1704	1524	12.7	1704	13259.4	3413	1010363.8	366.56	431.51	496.45	4571	5485.2	5942.3	6364.5	7358.9	4571
O-Pile 133-1444	1117.6	20.64	1443.6	13266	3413	741306.5	436.26	514.81	593.36	4573.3	5488	5945.3	6367.7	7362.7	4573.3
O-Pile 133-1065	965.2	20.64	1065.2	13292.2	3413	641483.3	368.83	433.06	497.3	4582.3	5498.8	5957	6380.3	7377.2	4582.3
O-Pile 133-1291	965.2	25.4	1291.2	13296.5	3413	641687.6	459.05	541.4	623.75	4583.8	5500.5	5958.9	6382.3	7379.5	4583.8
O-Pile 133-1596	1270	17.46	1596	13298.9	3413	844479.9	422.09	498.28	574.47	4584.6	5501.6	5960	6383.5	7380.9	4584.6
O-Pile 134-2155	1828.8	11.11	2154.8	13301.6	3413	1216293.9	391.13	462.17	533.2	4585.6	5502.7	5961.2	6384.7	7382.4	4585.6
O-Pile 134-964	863.6	23.81	963.6	13321.2	3413	575208.6	378.16	443.94	509.73	4592.3	5510.8	5970	6394.2	7393.3	4592.3
O-Pile 134-1421	1320.8	14.29	1420.8	13337.4	3413	880799.5	353.54	415.23	476.91	4597.9	5517.5	5977.3	6401.9	7402.2	4597.9
O-Pile 134-1698	1371.6	15.88	1697.6	13344.9	3413	915192	415.61	490.72	565.83	4600.5	5520.6	5980.6	6405.5	7406.4	4600.5

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Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

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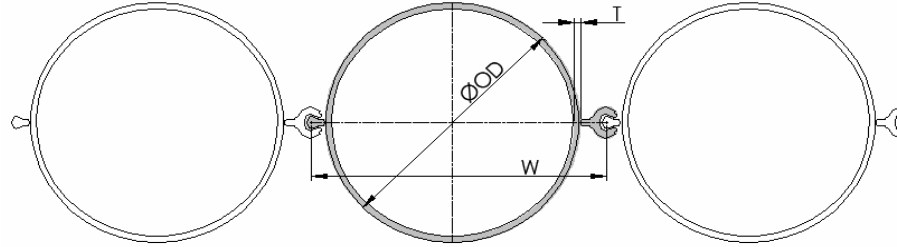
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 134-1450	1270	15.88	1450	13357.5	3413	848200	379.8	446.95	514.1	4604.8	5525.8	5986.3	6411.6	7413.4	4604.8
O-Pile 134-1014	914.4	22.22	1014.4	13372.3	3413	611381.1	375.03	440.3	505.56	4609.9	5531.9	5992.9	6418.7	7421.6	4609.9
O-Pile 134-1393	1066.8	22.22	1392.8	13396	3413	714542.6	446.93	527.26	607.59	4618.1	5541.7	6003.5	6430.1	7434.8	4618.1
O-Pile 134-1929	1828.8	10	1928.8	13396.9	3413	1225010.4	344.69	404.9	465.1	4618.4	5542.1	6003.9	6430.5	7435.3	4618.4
O-Pile 135-1342	1016	23.81	1342	13405.4	3413	680994.8	454.53	536.13	617.72	4621.4	5545.6	6007.8	6434.6	7440	4621.4
O-Pile 135-1218	1117.6	17.46	1217.6	13423.2	3413	750087.9	363.61	426.97	490.34	4627.5	5553	6015.7	6443.1	7449.9	4627.5
O-Pile 135-1588	1524	12	1588	13462.3	3413	1025824.9	342.78	402.3	461.83	4641	5569.1	6033.2	6461.9	7471.6	4641
O-Pile 136-1319	1219.2	15.88	1319.2	13509.6	3413	823544.6	361.61	424.64	487.66	4657.3	5588.7	6054.4	6484.6	7497.8	4657.3
O-Pile 136-1080	1016	19.05	1080	13515.9	3413	686609.3	358.46	420.6	482.74	4659.5	5591.3	6057.3	6487.6	7501.3	4659.5
O-Pile 137-1675	1574.8	12	1674.8	13640.2	3413	1074026.7	355.15	417.1	479.05	4702.3	5642.7	6113	6547.3	7570.3	4702.3
O-Pile 137-1893	1828.8	10	1892.8	13651.7	3413	1248309.4	343.59	403.25	462.91	4706.3	5647.5	6118.1	6552.8	7576.7	4706.3
O-Pile 137-2460	2133.6	9.52	2459.6	13661.4	3413	1457399.6	391.74	462.87	534.01	4709.6	5651.5	6122.5	6557.5	7582.1	4709.6
O-Pile 137-877	812.8	25.4	876.8	13679.7	3413	555944.3	377.11	442.35	507.6	4715.9	5659.1	6130.7	6566.3	7592.3	4715.9
O-Pile 137-1298	1117.6	19.05	1297.6	13681.9	3413	764546.9	398.63	468.92	539.21	4716.7	5660	6131.7	6567.3	7593.5	4716.7
O-Pile 137-1385	1320.8	14.29	1384.8	13684.1	3413	903697.3	352.45	413.58	474.72	4717.4	5660.9	6132.6	6568.4	7594.7	4717.4
O-Pile 137-1850	1524	14.29	1850	13696.5	3413	1043675.7	416.49	491.75	567.01	4721.7	5666	6138.2	6574.3	7601.6	4721.7
O-Pile 138-1545	1219.2	19.05	1545.2	13732.2	3413	837114.9	440.4	519.65	598.89	4734	5680.8	6154.2	6591.5	7621.4	4734
O-Pile 138-1602	1422.4	14.29	1602.4	13747	3413	977689.7	383.67	451.46	519.26	4739.1	5686.9	6160.9	6598.6	7629.6	4739.1
O-Pile 138-1029	965.2	20.64	1029.2	13757.2	3413	663921.5	367.74	431.42	495.11	4742.6	5691.1	6165.4	6603.4	7635.2	4742.6
O-Pile 138-1755	1574.8	12.7	1754.8	13759.3	3413	1083405.5	378.49	445.43	512.36	4743.3	5692	6166.3	6604.5	7636.4	4743.3
O-Pile 139-1167	1066.8	19.05	1166.8	13830	3413	737692	377.46	443.13	508.79	4767.7	5721.3	6198	6638.4	7675.6	4767.7
O-Pile 139-1182	1117.6	17.46	1181.6	13832.2	3413	772940.9	362.52	425.33	488.15	4768.5	5722.2	6199	6639.4	7676.8	4768.5
O-Pile 139-928	863.6	23.81	927.6	13838.2	3413	597532.3	377.06	442.3	507.54	4770.5	5724.6	6201.7	6642.3	7680.2	4770.5
O-Pile 139-978	914.4	22.22	978.4	13864.3	3413	633876.7	373.94	438.65	503.37	4779.6	5735.5	6213.4	6654.9	7694.7	4779.6
O-Pile 139-1283	1219.2	15.88	1283.2	13888.6	3413	846649	360.51	422.99	485.47	4787.9	5745.5	6224.3	6666.5	7708.2	4787.9
O-Pile 140-1472	1371.6	14.29	1471.6	13903.3	3413	953486	366.97	430.89	494.81	4793	5751.6	6230.9	6673.6	7716.3	4793
O-Pile 140-1624	1524	12.7	1624	13912.5	3413	1060135.5	363.29	426.59	489.9	4796.2	5755.4	6235	6678	7721.5	4796.2
O-Pile 140-1639	1574.8	12	1638.8	13939.8	3413	1097620.2	354.05	415.46	476.86	4805.6	5766.7	6247.2	6691.1	7736.6	4805.6

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O-Pile 52 - 1044

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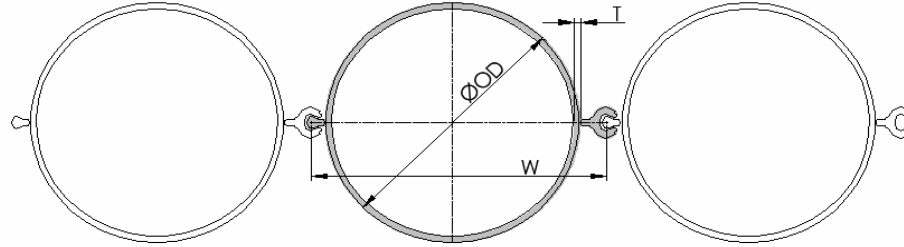
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 140-1748	1422.4	15.88	1748.4	13952.1	3413	992272.9	430.52	508.12	585.72	4809.8	5771.8	6252.8	6697	7743.4	4809.8
O-Pile 140-1399	1219.2	17.46	1399.2	13956	3413	850757.6	399.7	470.17	540.64	4811.2	5773.4	6254.5	6698.9	7745.6	4811.2
O-Pile 140-1247	1066.8	20.64	1246.8	13958.3	3413	744537.2	410.89	483.22	555.56	4812	5774.4	6255.6	6700	7746.9	4812
O-Pile 140-1647	1320.8	17.46	1646.8	13962.6	3413	922091.3	438.49	517.42	596.34	4813.4	5776.1	6257.5	6702.1	7749.3	4813.4
O-Pile 140-1501	1320.8	15.88	1500.8	13978.6	3413	923147.7	394.71	464.35	533.99	4819	5782.7	6264.6	6709.7	7758.1	4819
O-Pile 141-1094	914.4	25.4	1094.4	14017.5	3413	640880.8	429.21	504.6	579.98	4832.4	5798.8	6282.1	6728.4	7779.7	4832.4
O-Pile 142-1116	1016	20.64	1116	14103.3	3413	716445.3	388.22	455.69	523.15	4861.9	5834.3	6320.5	6769.6	7827.3	4861.9
O-Pile 142-1196	1016	22.22	1196	14105.5	3413	716558.5	420.07	493.94	567.8	4862.7	5835.2	6321.5	6770.6	7828.5	4862.7
O-Pile 142-1145	965.2	23.81	1145.2	14124.7	3413	681658.2	426.18	501.06	575.94	4869.3	5843.2	6330.1	6779.9	7839.2	4869.3
O-Pile 142-964	863.6	25.4	963.6	14130.4	3413	610152.6	402.07	471.84	541.61	4871.3	5845.6	6332.7	6782.6	7842.4	4871.3
O-Pile 142-1370	1270	15.88	1370	14137.5	3413	897729.9	376.52	442.04	507.55	4873.7	5848.5	6335.8	6786	7846.3	4873.7
O-Pile 143-1444	1117.6	22.22	1443.6	14225.4	3413	794915.5	467.81	551.62	635.44	4904	5884.8	6375.2	6828.2	7895.1	4904
O-Pile 143-1588	1524	12.7	1588	14227.9	3413	1084168.8	362.19	424.95	487.71	4904.9	5885.9	6376.4	6829.4	7896.5	4904.9
O-Pile 143-1342	1016	25.4	1342	14231.7	3413	722971.7	482.92	569.24	655.57	4906.2	5887.5	6378.1	6831.2	7898.6	4906.2
O-Pile 143-1065	965.2	22.22	1065.2	14243.8	3413	687404.2	395.91	464.66	533.41	4910.4	5892.4	6383.5	6837	7905.3	4910.4
O-Pile 143-1901	1574.8	14.29	1900.8	14247	3413	1121806.6	429.92	507.41	584.91	4911.5	5893.8	6384.9	6838.5	7907.1	4911.5
O-Pile 143-1436	1371.6	14.29	1435.6	14251.9	3413	977396.2	365.87	429.25	492.62	4913.2	5895.8	6387.1	6840.9	7909.8	4913.2
O-Pile 143-1014	914.4	23.81	1014.4	14252.4	3413	651621.6	400.53	470.04	539.56	4913.4	5896	6387.4	6841.2	7910.1	4913.4
O-Pile 143-2009	1828.8	11.11	2008.8	14268.3	3413	1304694.3	385.16	453.2	521.25	4918.8	5902.6	6394.5	6848.8	7918.9	4918.8
O-Pile 143-1131	1066.8	19.05	1130.8	14270.3	3413	761177	376.36	441.48	506.6	4919.5	5903.4	6395.4	6849.7	7920	4919.5
O-Pile 143-1393	1066.8	23.81	1392.8	14288.5	3413	762148.2	476.9	562.23	647.56	4925.8	5910.9	6403.5	6858.5	7930.1	4925.8
O-Pile 144-2460	2133.6	10	2459.6	14333.1	3413	1529053.5	410.31	484.54	558.77	4941.2	5929.4	6423.5	6879.9	7954.9	4941.2
O-Pile 144-2155	1828.8	12	2154.8	14342.9	3413	1311518.5	420.78	496.75	572.72	4944.6	5933.5	6427.9	6884.6	7960.3	4944.6
O-Pile 145-1675	1574.8	12.7	1674.8	14416.5	3413	1135156.4	375.22	440.51	505.81	4969.9	5963.9	6460.9	6919.9	8001.2	4969.9
O-Pile 145-1596	1270	19.05	1596	14453.4	3413	917788.2	458.3	540.53	622.76	4982.6	5979.1	6477.4	6937.6	8021.6	4982.6
O-Pile 145-1522	1422.4	14.29	1522.4	14469.4	3413	1029065.9	380.39	446.55	512.71	4988.2	5985.8	6484.6	6945.3	8030.5	4988.2
O-Pile 146-1334	1270	15.88	1334	14519	3413	921956.5	375.43	440.4	505.36	5005.3	6006.3	6506.8	6969.1	8058	5005.3
O-Pile 146-2314	2133.6	9.52	2313.6	14523.5	3413	1549368.9	385.77	453.91	522.06	5006.8	6008.2	6508.8	6971.3	8060.6	5006.8

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O-Pile 52 - 1044

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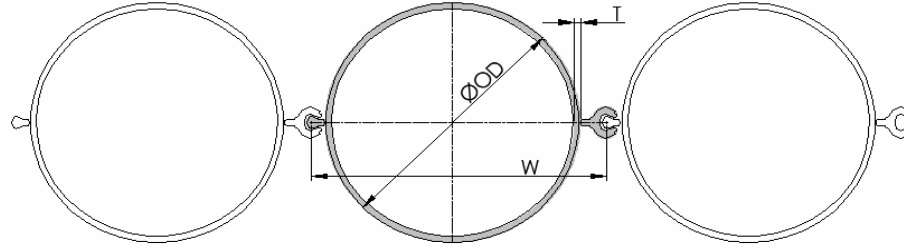
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SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 146-1080	1016	20.64	1080	14573.4	3413	740326.9	387.13	454.05	520.96	5024	6028.8	6531.2	6995.2	8088.2	5024
O-Pile 146-1218	1117.6	19.05	1217.6	14580.9	3413	814779.9	395.36	464.01	532.66	5026.6	6031.9	6534.6	6998.8	8092.4	5026.6
O-Pile 147-1552	1371.6	15.88	1551.6	14600.6	3413	1001308.3	409.63	481.75	553.88	5033.4	6040	6543.4	7008.3	8103.3	5033.4
O-Pile 147-1698	1371.6	17.46	1697.6	14628.3	3413	1003210.4	454.9	536.56	618.22	5042.9	6051.5	6555.8	7021.6	8118.7	5042.9
O-Pile 147-1450	1270	17.46	1450	14638	3413	929510.3	416.11	489.31	562.52	5046.3	6055.5	6560.1	7026.2	8124.1	5046.3
O-Pile 147-928	863.6	25.4	927.6	14678.8	3413	633832.5	400.97	470.2	539.42	5060.4	6072.4	6578.5	7045.8	8146.8	5060.4
O-Pile 148-1639	1574.8	12.7	1638.8	14733.2	3413	1160092.8	374.12	438.87	503.62	5079.1	6094.9	6602.8	7071.9	8176.9	5079.1
O-Pile 148-1029	965.2	22.22	1029.2	14742	3413	711448.7	394.82	463.02	531.22	5082.1	6098.5	6606.8	7076.2	8181.8	5082.1
O-Pile 148-1298	1117.6	20.64	1297.6	14758.7	3413	824714.9	430.28	505.85	581.41	5087.9	6105.4	6614.2	7084.2	8191.1	5087.9
O-Pile 148-1421	1320.8	15.88	1420.8	14765.7	3413	975126.7	391.44	459.44	527.44	5090.3	6108.3	6617.4	7087.5	8195	5090.3
O-Pile 148-978	914.4	23.81	978.4	14776.9	3413	675597.9	399.43	468.4	537.37	5094.1	6113	6622.4	7092.9	8201.2	5094.1
O-Pile 149-1319	1219.2	17.46	1319.2	14802.3	3413	902349.9	396.43	465.26	534.09	5102.9	6123.5	6633.8	7105.1	8215.3	5102.9
O-Pile 149-1545	1219.2	20.64	1545.2	14818.2	3413	903320	475.04	560.05	645.07	5108.4	6130.1	6640.9	7112.8	8224.1	5108.4
O-Pile 149-1486	1422.4	14.29	1486.4	14819.9	3413	1053989.5	379.3	444.91	510.52	5109	6130.8	6641.7	7113.5	8225	5109
O-Pile 149-1929	1828.8	11.11	1928.8	14860.1	3413	1358808.6	381.88	448.29	514.7	5122.8	6147.4	6659.7	7132.9	8247.4	5122.8
O-Pile 149-1704	1524	14.29	1704	14870.1	3413	1133098.6	410.52	482.79	555.06	5126.3	6151.5	6664.2	7137.6	8252.9	5126.3
O-Pile 150-1167	1066.8	20.64	1166.8	14915.4	3413	795585.4	407.61	478.31	549.01	5141.9	6170.3	6684.5	7159.4	8278	5141.9
O-Pile 150-1247	1066.8	22.22	1246.8	14964.7	3413	798215.4	440.96	518.3	595.64	5158.9	6190.7	6706.6	7183	8305.4	5158.9
O-Pile 150-1145	965.2	25.4	1145.2	14991.6	3413	723495.5	453.07	532.44	611.8	5168.2	6201.8	6718.6	7196	8320.3	5168.2
O-Pile 151-1182	1117.6	19.05	1181.6	15025.1	3413	839603.9	394.26	462.37	530.47	5179.7	6215.7	6733.6	7212.1	8338.9	5179.7
O-Pile 151-1196	1016	23.81	1196	15041.9	3413	764126.3	448.55	527.16	605.77	5185.5	6222.6	6741.1	7220.1	8348.2	5185.5
O-Pile 151-2234	2133.6	9.52	2233.6	15043.7	3413	1604862.1	382.49	449	515.51	5186.1	6223.4	6742	7221	8349.3	5186.1
O-Pile 152-1116	1016	22.22	1116	15116.6	3413	767924.7	416.8	489.02	561.25	5211.3	6253.5	6774.7	7256	8389.7	5211.3
O-Pile 152-1014	914.4	25.4	1014.4	15123	3413	691423.5	425.93	499.68	573.43	5213.5	6256.2	6777.5	7259	8393.3	5213.5
O-Pile 152-1893	1828.8	11.11	1892.8	15142.7	3413	1384652.4	380.79	446.65	512.51	5220.3	6264.3	6786.4	7268.5	8404.2	5220.3
O-Pile 152-1385	1320.8	15.88	1384.8	15149.6	3413	1000476.6	390.34	457.8	525.25	5222.6	6267.1	6789.4	7271.8	8408	5222.6
O-Pile 152-2155	1828.8	12.7	2154.8	15162.1	3413	1386425.7	444.13	524	603.86	5227	6272.3	6795	7277.8	8415	5227
O-Pile 152-1399	1219.2	19.05	1399.2	15165.1	3413	924464	434.43	510.69	586.94	5228	6273.6	6796.4	7279.2	8416.6	5228



Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

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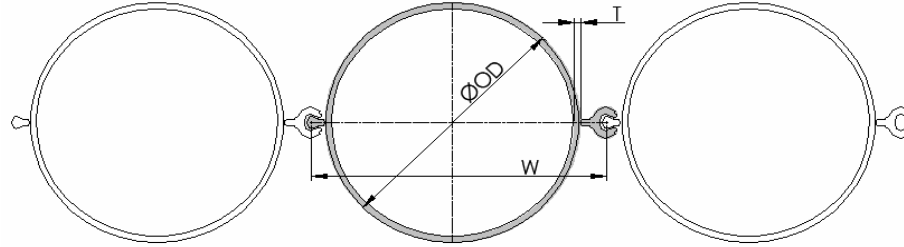
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 152-1850	1524	15.88	1850	15170.7	3413	1156010.8	460.35	542.92	625.49	5229.9	6275.9	6798.9	7282	8419.8	5229.9
O-Pile 152-1393	1066.8	25.4	1392.8	15172.7	3413	809312.2	506.78	597.09	687.4	5230.6	6276.7	6799.8	7282.9	8420.9	5230.6
O-Pile 152-1444	1117.6	23.81	1443.6	15176.3	3413	848053.5	499.28	588.33	677.39	5231.9	6278.2	6801.4	7284.6	8422.9	5231.9
O-Pile 152-1647	1320.8	19.05	1646.8	15176.9	3413	1002283.2	476.2	561.41	646.62	5232.1	6278.5	6801.7	7284.9	8423.2	5232.1
O-Pile 152-1065	965.2	23.81	1065.2	15185.5	3413	732853	422.9	496.15	569.39	5235	6282	6805.5	7289	8428	5235
O-Pile 153-1283	1219.2	17.46	1283.2	15217.6	3413	927665.2	395.33	463.62	531.9	5246.1	6295.3	6819.9	7304.5	8445.8	5246.1
O-Pile 153-1602	1422.4	15.88	1602.4	15223.3	3413	1082682.2	424.55	499.16	573.77	5248.1	6297.7	6822.5	7307.2	8448.9	5248.1
O-Pile 153-2314	2133.6	10	2313.6	15237.6	3413	1625544.6	404.34	475.58	546.82	5253	6303.6	6828.9	7314	8456.9	5253
O-Pile 153-2198	2133.6	9.52	2197.6	15290.1	3413	1631152.2	381.4	447.36	513.32	5271.1	6325.3	6852.4	7339.3	8486	5271.1
O-Pile 153-1748	1422.4	17.46	1748.4	15295.8	3413	1087834.6	471.31	555.7	640.1	5273	6327.6	6854.9	7342	8489.1	5273
O-Pile 154-1501	1320.8	17.46	1500.8	15320.9	3413	1011793.7	432.52	508.46	584.39	5281.7	6338	6866.2	7354	8503.1	5281.7
O-Pile 154-2009	1828.8	12	2008.8	15385.4	3413	1406839.9	414.8	487.79	560.77	5303.9	6364.7	6895.1	7385	8538.9	5303.9
O-Pile 154-1131	1066.8	20.64	1130.8	15390.2	3413	820913.5	406.52	476.67	546.82	5305.6	6366.7	6897.3	7387.3	8541.6	5305.6
O-Pile 154-1472	1371.6	15.88	1471.6	15394.3	3413	1055742	406.36	476.84	547.33	5307	6368.4	6899.1	7389.3	8543.8	5307
O-Pile 155-1755	1574.8	14.29	1754.8	15432.3	3413	1215141.3	423.94	498.45	572.96	5320.1	6384.1	6916.1	7407.5	8564.9	5320.1
O-Pile 155-1370	1270	17.46	1370	15492.7	3413	983788.3	412.84	484.4	555.97	5340.9	6409.1	6943.2	7436.5	8598.5	5340.9
O-Pile 156-1596	1270	20.64	1596	15598.9	3413	990532.6	494.43	582.68	670.93	5377.5	6453	6990.8	7487.5	8657.4	5377.5
O-Pile 157-1624	1524	14.29	1624	15602.6	3413	1188916.3	407.24	477.88	548.51	5378.8	6454.6	6992.4	7489.2	8659.4	5378.8
O-Pile 157-1080	1016	22.22	1080	15620.5	3413	793522.2	415.7	487.38	559.06	5385	6462	7000.5	7497.8	8669.4	5385
O-Pile 157-978	914.4	25.4	978.4	15679.4	3413	716864.3	424.84	498.04	571.24	5405.3	6486.4	7026.9	7526.1	8702.1	5405.3
O-Pile 158-1029	965.2	23.81	1029.2	15716.7	3413	758487.2	421.81	494.51	567.2	5418.1	6501.8	7043.6	7544	8722.8	5418.1
O-Pile 158-1218	1117.6	20.64	1217.6	15728.4	3413	878901.1	427.01	500.93	574.86	5422.2	6506.6	7048.8	7549.6	8729.2	5422.2
O-Pile 158-1436	1371.6	15.88	1435.6	15780.4	3413	1082216.5	405.26	475.2	545.14	5440.1	6528.1	7072.1	7574.6	8758.1	5440.1
O-Pile 158-1901	1574.8	15.88	1900.8	15782	3413	1242676.8	475.27	560.33	645.38	5440.7	6528.8	7072.9	7575.4	8759	5440.7
O-Pile 158-2234	2133.6	10	2233.6	15783.3	3413	1683766.1	401.06	470.67	540.27	5441.1	6529.3	7073.4	7576	8759.8	5441.1
O-Pile 159-1298	1117.6	22.22	1297.6	15826	3413	884355.7	461.84	542.66	623.49	5455.8	6547	7092.6	7596.5	8783.4	5455.8
O-Pile 159-1545	1219.2	22.22	1545.2	15895.6	3413	968994.3	509.58	600.35	691.12	5479.8	6575.8	7123.7	7629.9	8822	5479.8
O-Pile 160-1698	1371.6	19.05	1697.6	15902.6	3413	1090598.5	494.1	582.3	670.49	5482.2	6578.7	7126.9	7633.2	8825.9	5482.2

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O-Pile 52 - 1044

KEY: (52 = Section Modulus)

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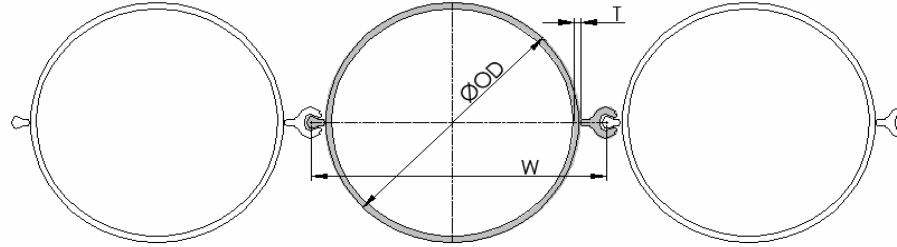
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				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 160-2460	2133.6	11.11	2459.6	15902.7	3413	1696503.5	453.78	535.26	616.73	5482.3	6578.7	7127	7633.3	8826	5482.3
O-Pile 160-1450	1270	19.05	1450	15908.7	3413	1010200	452.33	531.57	610.81	5484.3	6581.2	7129.6	7636.2	8829.3	5484.3
O-Pile 160-1334	1270	17.46	1334	15910.8	3413	1010337.3	411.74	482.76	553.78	5485.1	6582.1	7130.6	7637.2	8830.5	5485.1
O-Pile 160-1588	1524	14.29	1588	15956.3	3413	1215869	406.15	476.23	546.32	5500.7	6600.9	7151	7659	8855.7	5500.7
O-Pile 160-1247	1066.8	23.81	1246.8	15961.7	3413	851395.6	470.93	553.27	635.61	5502.6	6603.1	7153.4	7661.6	8858.7	5502.6
O-Pile 160-1196	1016	25.4	1196	15969	3413	811227.4	476.94	560.28	643.62	5505.1	6606.2	7156.7	7665.1	8862.8	5505.1
O-Pile 160-1167	1066.8	22.22	1166.8	15990.7	3413	852943.9	437.68	513.39	589.09	5512.6	6615.1	7166.4	7675.5	8874.8	5512.6
O-Pile 161-1552	1371.6	17.46	1551.6	16004.8	3413	1097608.9	448.93	527.6	606.27	5517.5	6620.9	7172.7	7682.3	8882.7	5517.5
O-Pile 161-1522	1422.4	15.88	1522.4	16023.3	3413	1139575.7	421.27	494.24	567.22	5523.8	6628.6	7181	7691.2	8892.9	5523.8
O-Pile 161-1929	1828.8	12	1928.8	16023.5	3413	1465190.8	411.53	482.87	554.22	5523.9	6628.7	7181.1	7691.3	8893.1	5523.9
O-Pile 161-2198	2133.6	10	2197.6	16041.9	3413	1711348.7	399.97	469.03	538.08	5530.2	6636.3	7189.3	7700.1	8903.2	5530.2
O-Pile 161-1319	1219.2	19.05	1319.2	16084.7	3413	980526.1	431.15	505.77	580.39	5545	6654	7208.5	7720.7	8927	5545
O-Pile 162-1065	965.2	25.4	1065.2	16117.5	3413	777832.3	449.8	527.53	605.25	5556.3	6667.6	7223.2	7736.4	8945.2	5556.3
O-Pile 162-1444	1117.6	25.4	1443.6	16118.7	3413	900713.5	530.65	624.93	719.22	5556.7	6668.1	7223.7	7737	8945.9	5556.7
O-Pile 162-1116	1016	23.81	1116	16120.1	3413	818902.3	445.28	522.25	599.22	5557.2	6668.7	7224.4	7737.7	8946.7	5557.2
O-Pile 162-1675	1574.8	14.29	1674.8	16169.5	3413	1273184.9	420.67	493.54	566.41	5574.2	6689.1	7246.5	7761.4	8974.1	5574.2
O-Pile 162-1421	1320.8	17.46	1420.8	16183.6	3413	1068764.1	429.24	503.54	577.84	5579.1	6694.9	7252.8	7768.1	8981.9	5579.1
O-Pile 163-1182	1117.6	20.64	1181.6	16207.6	3413	905678.7	425.91	499.29	572.67	5587.4	6704.8	7263.6	7779.6	8995.2	5587.4
O-Pile 163-2009	1828.8	12.7	2008.8	16264.1	3413	1487191.4	438.16	515.04	591.91	5606.9	6728.2	7288.9	7806.8	9026.6	5606.9
O-Pile 164-1893	1828.8	12	1892.8	16328.3	3413	1493057.9	410.43	481.23	552.03	5629	6754.8	7317.7	7837.6	9062.2	5629
O-Pile 164-1399	1219.2	20.64	1399.2	16364.5	3413	997577.2	469.06	551.09	633.12	5641.4	6769.7	7333.9	7854.9	9082.3	5641.4
O-Pile 164-1647	1320.8	20.64	1646.8	16382.2	3413	1081880	513.82	605.3	696.78	5647.6	6777.1	7341.8	7863.5	9092.1	5647.6
O-Pile 165-1486	1422.4	15.88	1486.4	16411.4	3413	1167175.7	420.18	492.6	565.03	5657.6	6789.1	7354.9	7877.5	9108.3	5657.6
O-Pile 165-1704	1524	15.88	1704	16470.6	3413	1255058.7	454.38	533.96	613.54	5678	6813.6	7381.4	7905.9	9141.2	5678
O-Pile 165-1131	1066.8	22.22	1130.8	16499.8	3413	880098.2	436.59	511.74	586.9	5688.1	6825.7	7394.5	7919.9	9157.4	5688.1
O-Pile 166-1639	1574.8	14.29	1638.8	16524.7	3413	1301153.3	419.57	491.89	564.22	5696.7	6836	7405.7	7931.8	9171.2	5696.7
O-Pile 166-1283	1219.2	19.05	1283.2	16536	3413	1008034.6	430.06	504.13	578.2	5700.6	6840.7	7410.8	7937.3	9177.5	5700.6
O-Pile 167-1385	1320.8	17.46	1384.8	16604.3	3413	1096548.2	428.15	501.9	575.65	5724.1	6869	7441.4	7970.1	9215.4	5724.1



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O-Pile 52 - 1044

KEY: (52 = Section Modulus)

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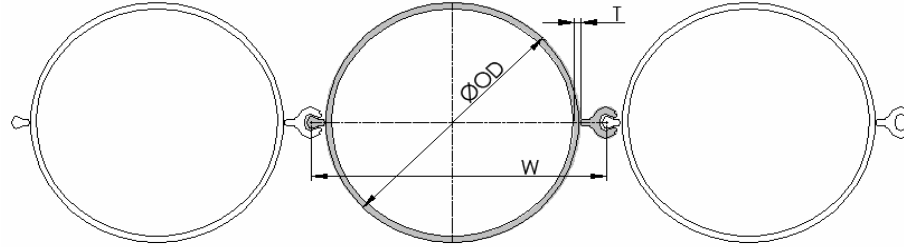
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 167-1748	1422.4	19.05	1748.4	16630.3	3413	1182749.9	512	603.18	694.36	5733.1	6879.7	7453	7982.6	9229.8	5733.1
O-Pile 167-1850	1524	17.46	1850	16635.6	3413	1267632.4	504.12	593.99	683.85	5734.9	6881.9	7455.4	7985.1	9232.8	5734.9
O-Pile 167-1501	1320.8	19.05	1500.8	16653.3	3413	1099786.8	470.23	552.45	634.67	5741	6889.2	7463.3	7993.6	9242.6	5741
O-Pile 167-1080	1016	23.81	1080	16657.5	3413	846199.1	444.18	520.61	597.03	5742.5	6890.9	7465.2	7995.6	9244.9	5742.5
O-Pile 167-1029	965.2	25.4	1029.2	16681.3	3413	805039.8	448.7	525.88	603.06	5750.7	6900.8	7475.9	8007	9258.1	5750.7
O-Pile 167-1602	1422.4	17.46	1602.4	16689.4	3413	1186950.8	465.33	546.74	628.15	5753.5	6904.2	7479.5	8010.9	9262.6	5753.5
O-Pile 168-1596	1270	22.22	1596	16735.6	3413	1062713	530.46	624.71	718.97	5769.4	6923.3	7500.2	8033.1	9288.3	5769.4
O-Pile 169-1370	1270	19.05	1370	16837.6	3413	1069189.8	449.05	526.66	604.26	5804.6	6965.5	7545.9	8082.1	9344.9	5804.6
O-Pile 169-1218	1117.6	22.22	1217.6	16865.8	3413	942460.6	458.56	537.75	616.94	5814.3	6977.1	7558.6	8095.6	9360.5	5814.3
O-Pile 169-1472	1371.6	17.46	1471.6	16874.9	3413	1157277.8	445.65	522.69	599.72	5817.4	6980.9	7562.6	8099.9	9365.5	5817.4
O-Pile 169-1298	1117.6	23.81	1297.6	16883.9	3413	943472.6	493.3	579.37	665.44	5820.5	6984.6	7566.7	8104.3	9370.6	5820.5
O-Pile 170-2314	2133.6	11.11	2313.6	16906.3	3413	1803561.5	447.81	526.29	604.78	5828.2	6993.9	7576.7	8115	9383	5828.2
O-Pile 170-1929	1828.8	12.7	1928.8	16938.7	3413	1548874.9	434.88	510.12	585.36	5839.4	7007.3	7591.2	8130.6	9401	5839.4
O-Pile 170-1247	1066.8	25.4	1246.8	16949.4	3413	904082.5	500.81	588.13	675.45	5843.1	7011.7	7596	8135.7	9406.9	5843.1
O-Pile 170-1545	1219.2	23.81	1545.2	16964.2	3413	1034138	544.03	640.54	737.05	5848.2	7017.8	7602.7	8142.8	9415.1	5848.2
O-Pile 171-2155	1828.8	14.29	2154.8	17013	3413	1555666.4	497.04	585.72	674.41	5865	7038	7624.5	8166.2	9442.2	5865
O-Pile 171-1167	1066.8	23.81	1166.8	17056.1	3413	909770.3	467.65	548.35	629.06	5879.9	7055.8	7643.8	8186.9	9466.1	5879.9
O-Pile 171-1755	1574.8	15.88	1754.8	17095.1	3413	1346067.9	469.3	551.36	633.43	5893.3	7072	7661.3	8205.6	9487.8	5893.3
O-Pile 172-1116	1016	25.4	1116	17113.8	3413	869379.9	473.67	555.37	637.07	5899.8	7079.7	7669.7	8214.6	9498.1	5899.8
O-Pile 172-2460	2133.6	12	2459.6	17151.3	3413	1829704	488.43	575.67	662.92	5912.7	7095.2	7686.5	8232.6	9519	5912.7
O-Pile 172-1698	1371.6	20.64	1697.6	17167.8	3413	1177368	533.21	627.92	722.63	5918.4	7102.1	7693.9	8240.5	9528.1	5918.4
O-Pile 172-1450	1270	20.64	1450	17169.6	3413	1090269	488.45	573.71	658.98	5919	7102.8	7694.7	8241.4	9529.1	5919
O-Pile 173-1893	1828.8	12.7	1892.8	17260.9	3413	1578333.7	433.79	508.48	583.17	5950.5	7140.6	7735.6	8285.2	9579.8	5950.5
O-Pile 173-1624	1524	15.88	1624	17281.9	3413	1316884.2	451.1	529.05	606.99	5957.7	7149.3	7745.1	8295.3	9591.5	5957.7
O-Pile 173-1334	1270	19.05	1334	17292	3413	1098043.5	447.96	525.01	602.07	5961.2	7153.5	7749.6	8300.2	9597.1	5961.2
O-Pile 173-1436	1371.6	17.46	1435.6	17298	3413	1186298.4	444.56	521.04	597.53	5963.3	7155.9	7752.3	8303.1	9600.4	5963.3
O-Pile 174-1901	1574.8	17.46	1900.8	17307.6	3413	1362799.9	520.53	613.13	705.73	5966.6	7159.9	7756.6	8307.6	9605.7	5966.6
O-Pile 174-1319	1219.2	20.64	1319.2	17356.8	3413	1058073.1	465.79	546.18	626.57	5983.6	7180.3	7778.6	8331.3	9633	5983.6

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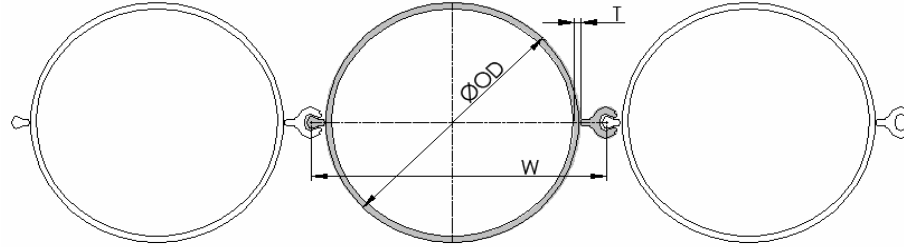
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				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 174-1182	1117.6	22.22	1181.6	17379.6	3413	971174.7	457.47	536.11	614.75	5991.4	7189.7	7788.8	8342.2	9645.7	5991.4
O-Pile 174-1552	1371.6	19.05	1551.6	17398.9	3413	1193219.9	488.13	573.33	658.54	5998.1	7197.7	7797.5	8351.5	9656.4	5998.1
O-Pile 176-2234	2133.6	11.11	2233.6	17511.8	3413	1868159	444.53	521.38	598.23	6037	7244.4	7848.1	8405.7	9719.1	6037
O-Pile 176-1399	1219.2	22.22	1399.2	17554.2	3413	1070104.3	503.6	591.39	679.17	6051.6	7261.9	7867.1	8426	9742.6	6051.6
O-Pile 176-1522	1422.4	17.46	1522.4	17566.4	3413	1249323.4	462.06	541.83	621.6	6055.8	7267	7872.5	8431.9	9749.4	6055.8
O-Pile 176-1647	1320.8	22.22	1646.8	17578.5	3413	1160881.7	551.34	649.08	746.81	6060	7271.9	7877.9	8437.7	9756	6060
O-Pile 176-1421	1320.8	19.05	1420.8	17591	3413	1161711.7	466.95	547.54	628.12	6064.3	7277.1	7883.6	8443.7	9763	6064.3
O-Pile 176-1131	1066.8	23.81	1130.8	17599.1	3413	938733.6	466.56	546.71	626.87	6067.1	7280.5	7887.2	8447.5	9767.5	6067.1
O-Pile 177-1588	1524	15.88	1588	17673.7	3413	1346738	450.01	527.41	604.8	6092.8	7311.4	7920.6	8483.4	9808.9	6092.8
O-Pile 177-1080	1016	25.4	1080	17684.2	3413	898359.3	472.57	553.73	634.88	6096.4	7315.7	7925.4	8488.4	9814.8	6096.4
O-Pile 178-2198	2133.6	11.11	2197.6	17798.7	3413	1898762.3	443.44	519.74	596.04	6135.9	7363	7976.6	8543.4	9878.3	6135.9
O-Pile 179-1283	1219.2	20.64	1283.2	17843.8	3413	1087757.2	464.69	544.54	624.38	6151.4	7381.7	7996.9	8565	9903.3	6151.4
O-Pile 179-1596	1270	23.81	1596	17863.6	3413	1134335.8	566.4	666.64	766.89	6158.2	7389.9	8005.7	8574.5	9914.3	6158.2
O-Pile 180-1675	1574.8	15.88	1674.8	17911.7	3413	1410365.4	466.02	546.45	626.88	6174.8	7409.8	8027.3	8597.6	9941	6174.8
O-Pile 180-1298	1117.6	25.4	1297.6	17932.3	3413	1002057.6	524.67	615.97	707.27	6181.9	7418.3	8036.5	8607.5	9952.4	6181.9
O-Pile 180-1748	1422.4	20.64	1748.4	17955.7	3413	1277007.5	552.6	650.55	748.49	6190	7428	8047	8618.7	9965.4	6190
O-Pile 180-1501	1320.8	20.64	1500.8	17975.9	3413	1187126.9	507.84	596.34	684.83	6197	7436.4	8056.1	8628.4	9976.6	6197
O-Pile 180-1486	1422.4	17.46	1486.4	17991.9	3413	1279581.5	460.96	540.19	619.41	6202.5	7443	8063.2	8636.1	9985.5	6202.5
O-Pile 180-1218	1117.6	23.81	1217.6	17993.2	3413	1005461.6	490.03	574.46	658.89	6202.9	7443.5	8063.8	8636.7	9986.2	6202.9
O-Pile 181-1545	1219.2	25.4	1545.2	18024.1	3413	1098751	578.38	680.62	782.86	6213.6	7456.3	8077.7	8651.6	10003.4	6213.6
O-Pile 181-1385	1320.8	19.05	1384.8	18048.3	3413	1191912.2	465.86	545.9	625.93	6221.9	7466.3	8088.5	8663.2	10016.8	6221.9
O-Pile 181-1704	1524	17.46	1704	18060.9	3413	1376244.1	498.15	585.03	671.9	6226.3	7471.5	8094.2	8669.3	10023.8	6226.3
O-Pile 181-1850	1524	19.05	1850	18091.1	3413	1378540.5	547.8	644.94	742.09	6236.7	7484	8107.7	8683.7	10040.6	6236.7
O-Pile 182-1167	1066.8	25.4	1166.8	18111.5	3413	966069.6	497.53	583.21	668.9	6243.7	7492.5	8116.9	8693.5	10051.9	6243.7
O-Pile 182-2460	2133.6	12.7	2459.6	18134	3413	1934530	515.73	607.53	699.33	6251.5	7501.7	8126.9	8704.3	10064.3	6251.5
O-Pile 182-1602	1422.4	19.05	1602.4	18145.6	3413	1290514.2	506.03	594.22	682.41	6255.5	7506.6	8132.1	8709.9	10070.8	6255.5
O-Pile 182-1370	1270	20.64	1370	18172.2	3413	1153934.3	485.18	568.8	652.43	6264.6	7517.6	8144	8722.7	10085.6	6264.6
O-Pile 183-2314	2133.6	12	2313.6	18233.7	3413	1945167.7	482.45	566.71	650.97	6285.8	7543	8171.6	8752.2	10119.7	6285.8

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Data Sheet

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Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

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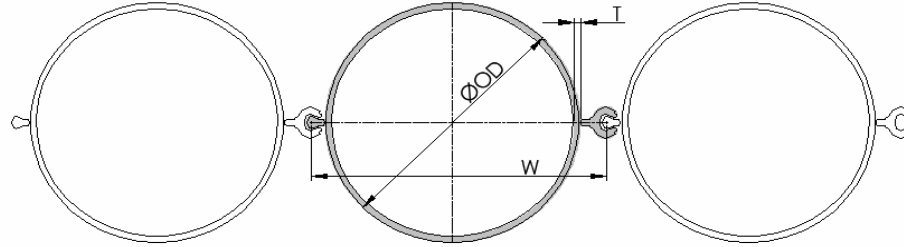
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 183-2009	1828.8	14.29	2008.8	18249.5	3413	1668732.6	491.06	576.76	662.46	6291.3	7549.5	8178.7	8759.8	10128.5	6291.3
O-Pile 184-1639	1574.8	15.88	1638.8	18305.1	3413	1441347.3	464.93	544.81	624.69	6310.5	7572.6	8203.6	8786.5	10159.4	6310.5
O-Pile 184-1472	1371.6	19.05	1471.6	18344.8	3413	1258086.4	484.85	568.42	651.99	6324.1	7589	8221.4	8805.5	10181.4	6324.1
O-Pile 185-1450	1270	22.22	1450	18420.7	3413	1169717.2	524.49	615.75	707.02	6350.3	7620.4	8255.4	8842	10223.5	6350.3
O-Pile 185-1698	1371.6	22.22	1697.6	18424	3413	1263519.1	572.23	673.44	774.65	6351.5	7621.7	8256.9	8843.5	10225.3	6351.5
O-Pile 186-1182	1117.6	23.81	1181.6	18541.4	3413	1036095.1	488.93	572.82	656.7	6391.9	7670.3	8309.5	8899.9	10290.5	6391.9
O-Pile 187-1319	1219.2	22.22	1319.2	18618.7	3413	1134998.5	500.33	586.48	672.62	6418.6	7702.3	8344.2	8937	10333.4	6418.6
O-Pile 187-1334	1270	20.64	1334	18662.6	3413	1185075	484.08	567.16	650.24	6433.7	7720.4	8363.8	8958	10357.7	6433.7
O-Pile 187-1131	1066.8	25.4	1130.8	18688.1	3413	996825.3	496.44	581.57	666.71	6442.5	7731	8375.3	8970.3	10371.9	6442.5
O-Pile 188-1399	1219.2	23.81	1399.2	18734.3	3413	1142045.5	538.05	631.58	725.1	6458.4	7750.1	8396	8992.5	10397.6	6458.4
O-Pile 188-1755	1574.8	17.46	1754.8	18747.6	3413	1476185.3	514.56	604.17	693.78	6463	7755.6	8401.9	8998.8	10404.9	6463
O-Pile 188-1647	1320.8	23.81	1646.8	18766	3413	1239306.5	588.77	692.75	796.72	6469.4	7763.2	8410.2	9007.7	10415.1	6469.4
O-Pile 188-1552	1371.6	20.64	1551.6	18783.2	3413	1288154.2	527.24	618.96	710.68	6475.3	7770.3	8417.9	9016	10424.7	6475.3
O-Pile 189-1436	1371.6	19.05	1435.6	18804.8	3413	1289635	483.76	566.78	649.8	6482.7	7779.3	8427.6	9026.3	10436.7	6482.7
O-Pile 189-1901	1574.8	19.05	1900.8	18823.8	3413	1482186.4	565.7	665.83	765.95	6489.3	7787.1	8436.1	9035.4	10447.2	6489.3
O-Pile 189-2155	1828.8	15.88	2154.8	18854	3413	1724006.9	549.85	647.34	744.82	6499.7	7799.6	8449.6	9049.9	10464	6499.7
O-Pile 189-2234	2133.6	12	2233.6	18886.7	3413	2014837	479.18	561.8	644.42	6511	7813.2	8464.3	9065.6	10482.1	6511
O-Pile 190-1624	1524	17.46	1624	18950.6	3413	1444039.4	494.87	580.11	665.35	6533	7839.6	8492.9	9096.3	10517.6	6533
O-Pile 190-1596	1270	25.4	1596	18982.7	3413	1205401	602.25	708.46	814.68	6544.1	7852.9	8507.3	9111.7	10535.4	6544.1
O-Pile 190-1421	1320.8	20.64	1420.8	18988	3413	1253969.6	504.57	591.42	678.28	6545.9	7855.1	8509.7	9114.3	10538.4	6545.9
O-Pile 191-1929	1828.8	14.29	1928.8	19006.4	3413	1737945.9	487.79	571.85	655.91	6552.2	7862.7	8517.9	9123.1	10548.6	6552.2
O-Pile 191-1522	1422.4	19.05	1522.4	19099.1	3413	1358329	502.75	589.3	675.86	6584.2	7901	8559.4	9167.6	10600	6584.2
O-Pile 192-1218	1117.6	25.4	1217.6	19110.5	3413	1067895.9	521.4	611.06	700.72	6588.1	7905.7	8564.6	9173	10606.3	6588.1
O-Pile 192-1283	1219.2	22.22	1283.2	19141.1	3413	1166840.7	499.23	584.83	670.43	6598.7	7918.4	8578.3	9187.7	10623.3	6598.7
O-Pile 192-2198	2133.6	12	2197.6	19196.1	3413	2047843.1	478.08	560.16	642.23	6617.6	7941.2	8602.9	9214.1	10653.9	6617.6
O-Pile 193-1748	1422.4	22.22	1748.4	19271.9	3413	1370618.9	593.11	697.8	802.5	6643.8	7972.5	8636.9	9250.5	10695.9	6643.8
O-Pile 193-2314	2133.6	12.7	2313.6	19278.3	3413	2056608.7	509.76	598.57	687.38	6646	7975.1	8639.7	9253.6	10699.5	6646
O-Pile 193-1501	1320.8	22.22	1500.8	19288.5	3413	1273814	545.37	640.11	734.86	6649.5	7979.4	8644.3	9258.5	10705.1	6649.5

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Data Sheet

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Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

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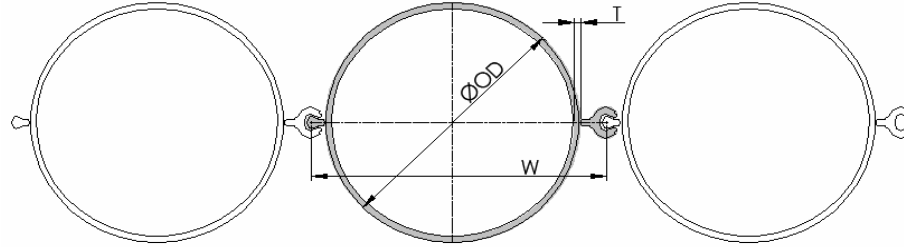
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 194-1893	1828.8	14.29	1892.8	19367.9	3413	1771000.6	486.69	570.2	653.72	6676.9	8012.2	8679.9	9296.6	10749.2	6676.9
O-Pile 194-1588	1524	17.46	1588	19380.3	3413	1476775.8	493.78	578.47	663.16	6681.1	8017.3	8685.4	9302.5	10756	6681.1
O-Pile 195-1385	1320.8	20.64	1384.8	19481.7	3413	1286568.5	503.47	589.78	676.09	6716.1	8059.3	8730.9	9351.2	10812.3	6716.1
O-Pile 195-1370	1270	22.22	1370	19496.4	3413	1238021.9	521.21	610.84	700.47	6721.2	8065.4	8737.5	9358.3	10820.5	6721.2
O-Pile 196-1850	1524	20.64	1850	19537.2	3413	1488735.1	591.38	695.79	800.2	6735.2	8082.2	8755.8	9377.9	10843.1	6735.2
O-Pile 196-1486	1422.4	19.05	1486.4	19561.7	3413	1391227.1	501.66	587.66	673.67	6743.7	8092.4	8766.7	9389.6	10856.7	6743.7
O-Pile 196-1602	1422.4	20.64	1602.4	19591.7	3413	1393360	546.63	641.58	736.54	6754	8104.8	8780.2	9404	10873.4	6754
O-Pile 197-1704	1524	19.05	1704	19641.1	3413	1496654.9	541.83	635.98	730.14	6771	8125.2	8802.4	9427.7	10900.8	6771
O-Pile 197-1675	1574.8	17.46	1674.8	19643.1	3413	1546698.1	511.28	599.26	687.23	6771.7	8126.1	8803.2	9428.7	10901.9	6771.7
O-Pile 197-1450	1270	23.81	1450	19662.2	3413	1248551.7	560.42	657.68	754.94	6778.3	8134	8811.8	9437.9	10912.5	6778.3
O-Pile 197-1698	1371.6	23.81	1697.6	19671.2	3413	1349051.6	611.15	718.85	826.55	6781.4	8137.7	8815.8	9442.2	10917.5	6781.4
O-Pile 197-1182	1117.6	25.4	1181.6	19692.8	3413	1100431.6	520.3	609.41	698.53	6788.8	8146.6	8825.5	9452.5	10929.5	6788.8
O-Pile 199-1472	1371.6	20.64	1471.6	19804.3	3413	1358181.6	523.96	614.05	704.13	6827.3	8192.8	8875.5	9506.1	10991.4	6827.3
O-Pile 199-1319	1219.2	23.81	1319.2	19870.4	3413	1211302.3	534.78	626.66	718.55	6850.1	8220.1	8905.1	9537.8	11028.1	6850.1
O-Pile 200-1399	1219.2	25.4	1399.2	19904.9	3413	1213400.5	572.4	671.66	770.91	6862	8234.3	8920.5	9554.3	11047.2	6862
O-Pile 200-1647	1320.8	25.4	1646.8	19944.5	3413	1317136.3	626.11	736.31	846.5	6875.6	8250.7	8938.3	9573.4	11069.2	6875.6
O-Pile 200-2234	2133.6	12.7	2233.6	19968.8	3413	2130269.5	506.48	593.65	680.83	6884	8260.8	8949.2	9585	11082.7	6884
O-Pile 201-1334	1270	22.22	1334	20022.5	3413	1271431.8	520.12	609.2	698.28	6902.5	8283	8973.3	9610.8	11112.5	6902.5
O-Pile 201-1639	1574.8	17.46	1638.8	20074.6	3413	1580674.9	510.19	597.61	685.04	6920.5	8304.6	8996.6	9635.8	11141.4	6920.5
O-Pile 202-1552	1371.6	22.22	1551.6	20157.7	3413	1382411.7	566.25	664.48	762.7	6949.1	8338.9	9033.8	9675.7	11187.5	6949.1
O-Pile 203-2009	1828.8	15.88	2008.8	20224.3	3413	1849308	543.88	638.37	732.87	6972.1	8366.5	9063.7	9707.7	11224.5	6972.1
O-Pile 203-2198	2133.6	12.7	2197.6	20295.9	3413	2165166.5	505.39	592.01	678.64	6996.8	8396.1	9095.8	9742	11264.2	6996.8
O-Pile 204-1436	1371.6	20.64	1435.6	20301	3413	1392240.2	522.87	612.41	701.94	6998.5	8398.2	9098.1	9744.5	11267	6998.5
O-Pile 204-1901	1574.8	20.64	1900.8	20330.7	3413	1600836.5	610.78	718.41	826.05	7008.8	8410.5	9111.4	9758.7	11283.5	7008.8
O-Pile 204-2460	2133.6	14.29	2459.6	20355.1	3413	2171483.2	577.59	679.69	781.8	7017.2	8420.6	9122.3	9770.5	11297.1	7017.2
O-Pile 204-1421	1320.8	22.22	1420.8	20374.6	3413	1345537.7	542.09	635.2	728.31	7023.9	8428.7	9131.1	9779.8	11307.9	7023.9
O-Pile 204-1755	1574.8	19.05	1754.8	20390	3413	1605504.9	559.73	656.86	754	7029.2	8435	9137.9	9787.2	11316.4	7029.2
O-Pile 205-1283	1219.2	23.81	1283.2	20427.9	3413	1245285.2	533.68	625.02	716.36	7042.3	8450.7	9155	9805.4	11337.5	7042.3

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O-Pile 52 - 1044

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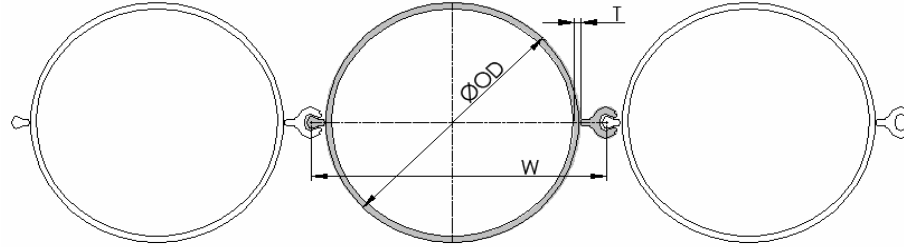
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 206-1748	1422.4	23.81	1748.4	20579.2	3413	1463589.6	633.52	744.95	856.38	7094.4	8513.3	9222.7	9878	11421.4	7094.4
O-Pile 206-1501	1320.8	23.81	1500.8	20591.6	3413	1359868.1	582.8	683.78	784.77	7098.7	8518.4	9228.3	9884	11428.3	7098.7
O-Pile 207-1624	1524	19.05	1624	20608.7	3413	1570381.8	538.55	631.07	723.59	7104.6	8525.5	9236	9892.2	11437.8	7104.6
O-Pile 207-1522	1422.4	20.64	1522.4	20621.2	3413	1466579.1	543.35	636.67	729.99	7108.9	8530.7	9241.6	9898.2	11444.8	7108.9
O-Pile 207-2155	1828.8	17.46	2154.8	20685.3	3413	1891460.9	602.57	708.84	815.12	7131	8557.2	9270.3	9928.9	11480.3	7131
O-Pile 209-1370	1270	23.81	1370	20810.4	3413	1321459.9	557.15	652.77	748.39	7174.1	8608.9	9326.4	9989	11549.8	7174.1
O-Pile 209-1450	1270	25.4	1450	20894.1	3413	1326772.4	596.27	699.5	802.73	7203	8643.6	9363.9	10029.1	11596.2	7203
O-Pile 210-1385	1320.8	22.22	1384.8	20904.3	3413	1380517	541	633.56	726.12	7206.5	8647.8	9368.4	10034	11601.9	7206.5
O-Pile 210-1698	1371.6	25.4	1697.6	20909.6	3413	1433977.4	649.98	764.15	878.32	7208.3	8650	9370.8	10036.6	11604.8	7208.3
O-Pile 210-1850	1524	22.22	1850	20974.2	3413	1598232.4	634.87	746.53	858.19	7230.6	8676.7	9399.8	10067.6	11640.7	7230.6
O-Pile 211-1602	1422.4	22.22	1602.4	21027.8	3413	1495500.5	587.13	688.84	790.55	7249.1	8698.9	9423.8	10093.4	11670.5	7249.1
O-Pile 211-1929	1828.8	15.88	1928.8	21063.1	3413	1926011	540.6	633.46	726.32	7261.3	8713.5	9439.6	10110.3	11690	7261.3
O-Pile 211-1588	1524	19.05	1588	21075.9	3413	1605982.4	537.46	629.43	721.4	7265.7	8718.8	9445.3	10116.4	11697.1	7265.7
O-Pile 212-1319	1219.2	25.4	1319.2	21112	3413	1286984.5	569.13	666.74	764.36	7278.1	8733.7	9461.5	10133.7	11717.1	7278.1
O-Pile 212-1486	1422.4	20.64	1486.4	21120.6	3413	1502099	542.26	635.03	727.8	7281.1	8737.3	9465.4	10137.9	11721.9	7281.1
O-Pile 213-1704	1524	20.64	1704	21211.2	3413	1616291.1	585.41	686.83	788.25	7312.3	8774.7	9506	10181.4	11772.2	7312.3
O-Pile 213-1472	1371.6	22.22	1471.6	21253.5	3413	1457563.2	562.98	659.57	756.15	7326.9	8792.2	9524.9	10201.7	11795.7	7326.9
O-Pile 214-1675	1574.8	19.05	1674.8	21363.9	3413	1682194.9	556.45	651.95	747.45	7365	8837.9	9574.4	10254.7	11857	7365
O-Pile 214-1334	1270	23.81	1334	21372	3413	1357121.4	556.05	651.13	746.2	7367.7	8841.3	9578.1	10258.6	11861.5	7367.7
O-Pile 215-1893	1828.8	15.88	1892.8	21463.7	3413	1962642.6	539.51	631.82	724.13	7399.4	8879.2	9619.2	10302.6	11912.4	7399.4
O-Pile 216-1552	1371.6	23.81	1551.6	21522.2	3413	1475992.5	605.17	709.89	814.6	7419.5	8903.4	9645.4	10330.7	11944.8	7419.5
O-Pile 217-2314	2133.6	14.29	2313.6	21639.6	3413	2308514.9	571.61	670.73	769.85	7460	8952	9698	10387	12010	7460
O-Pile 218-1283	1219.2	25.4	1283.2	21704.2	3413	1323090.7	568.03	665.1	762.17	7482.3	8978.7	9727	10418	12045.9	7482.3
O-Pile 218-1421	1320.8	23.81	1420.8	21751	3413	1436437.2	579.52	678.87	778.22	7498.4	8998.1	9747.9	10440.5	12071.8	7498.4
O-Pile 218-1436	1371.6	22.22	1435.6	21786.4	3413	1494114	561.88	657.92	753.96	7510.6	9012.7	9763.8	10457.5	12091.5	7510.6
O-Pile 219-1901	1574.8	22.22	1900.8	21828.1	3413	1718744.7	655.76	770.89	886.03	7525	9030	9782.5	10477.5	12114.6	7525
O-Pile 219-1639	1574.8	19.05	1638.8	21833.2	3413	1719148.2	555.36	650.31	745.26	7526.7	9032.1	9784.8	10479.9	12117.4	7526.7
O-Pile 219-1748	1422.4	25.4	1748.4	21877.3	3413	1555914	673.84	791.99	910.14	7541.9	9050.3	9804.5	10501.1	12141.9	7541.9

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Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

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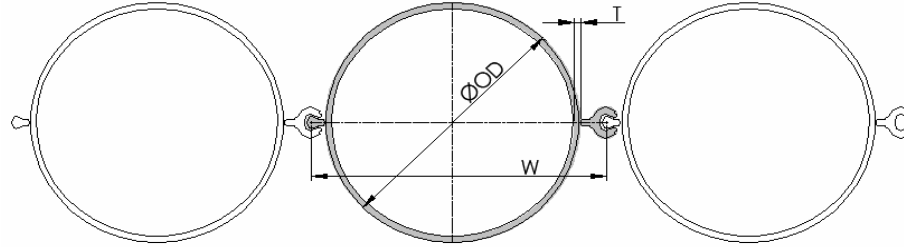
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 219-1501	1320.8	25.4	1500.8	21884.8	3413	1445269.2	620.14	727.34	834.55	7544.5	9053.4	9807.8	10504.7	12146	7544.5
O-Pile 221-1755	1574.8	20.64	1754.8	22022.2	3413	1734026.7	604.8	709.45	814.1	7591.9	9110.2	9869.4	10570.6	12222.3	7591.9
O-Pile 222-1370	1270	25.4	1370	22114.1	3413	1404248.2	593	694.59	796.18	7623.6	9148.3	9910.7	10614.8	12273.4	7623.6
O-Pile 222-1522	1422.4	22.22	1522.4	22132.8	3413	1574087	583.86	683.93	784	7630	9156	9919	10623.8	12283.7	7630
O-Pile 222-2009	1828.8	17.46	2008.8	22188.7	3413	2028932.7	596.6	699.88	803.17	7649.3	9179.1	9944.1	10650.6	12314.7	7649.3
O-Pile 223-1624	1524	20.64	1624	22256.1	3413	1695911.3	582.13	681.92	781.7	7672.5	9207	9974.3	10682.9	12352.1	7672.5
O-Pile 224-1385	1320.8	23.81	1384.8	22316.5	3413	1473779.6	578.43	677.23	776.03	7693.3	9232	10001.3	10711.9	12385.6	7693.3
O-Pile 225-1850	1524	23.81	1850	22401.9	3413	1707021.6	678.27	797.16	916.05	7722.8	9267.3	10039.6	10752.9	12433	7722.8
O-Pile 225-2234	2133.6	14.29	2233.6	22414.7	3413	2391198.1	568.34	665.82	763.3	7727.2	9272.6	10045.3	10759	12440.1	7727.2
O-Pile 225-1602	1422.4	23.81	1602.4	22454.2	3413	1596942.1	627.55	735.99	844.43	7740.8	9289	10063	10778	12462.1	7740.8
O-Pile 226-2155	1828.8	19.05	2154.8	22506.9	3413	2058028.6	655.2	770.24	885.28	7759	9310.8	10086.7	10803.3	12491.3	7759
O-Pile 226-2460	2133.6	15.88	2459.6	22566.2	3413	2407367.1	639.35	751.75	864.15	7779.4	9335.3	10113.3	10831.8	12524.3	7779.4
O-Pile 227-1486	1422.4	22.22	1486.4	22668.9	3413	1612210.7	582.76	682.29	781.81	7814.8	9377.8	10159.3	10881.1	12581.2	7814.8
O-Pile 227-1472	1371.6	23.81	1471.6	22692.2	3413	1556231.3	601.9	704.97	808.05	7822.9	9387.4	10169.7	10892.3	12594.2	7822.9
O-Pile 228-1334	1270	25.4	1334	22710.9	3413	1442143.9	591.9	692.95	793.99	7829.3	9395.2	10178.1	10901.2	12604.6	7829.3
O-Pile 228-1588	1524	20.64	1588	22760.6	3413	1734357.7	581.04	680.27	779.51	7846.4	9415.7	10200.4	10925.1	12632.1	7846.4
O-Pile 228-1704	1524	22.22	1704	22771.3	3413	1735170.2	628.9	737.57	846.24	7850.1	9420.1	10205.1	10930.2	12638.1	7850.1
O-Pile 228-2198	2133.6	14.29	2197.6	22781.9	3413	2430369.5	567.24	664.18	761.11	7853.8	9424.5	10209.9	10935.3	12643.9	7853.8
O-Pile 229-1552	1371.6	25.4	1551.6	22877.1	3413	1568909.5	644	755.19	866.37	7886.6	9463.9	10252.6	10981	12696.8	7886.6
O-Pile 231-1675	1574.8	20.64	1674.8	23074.1	3413	1816855.7	601.53	704.54	807.55	7954.5	9545.4	10340.9	11075.6	12806.1	7954.5
O-Pile 232-1929	1828.8	17.46	1928.8	23109	3413	2113085.9	593.32	694.97	796.62	7966.5	9559.8	10356.5	11092.3	12825.5	7966.5
O-Pile 232-1421	1320.8	25.4	1420.8	23117	3413	1526647	616.86	722.43	828	7969.3	9563.2	10360.1	11096.2	12829.9	7969.3
O-Pile 233-1436	1371.6	23.81	1435.6	23261.2	3413	1595256.3	600.8	703.33	805.86	8019	9622.8	10424.7	11165.4	12910	8019
O-Pile 234-1901	1574.8	23.81	1900.8	23316.3	3413	1835927	700.65	823.26	945.88	8038	9645.6	10449.4	11191.8	12940.6	8038
O-Pile 236-1893	1828.8	17.46	1892.8	23548.5	3413	2153275.6	592.23	693.33	794.43	8118.1	9741.7	10553.5	11303.3	13069.4	8118.1
O-Pile 236-1639	1574.8	20.64	1638.8	23581	3413	1856767.1	600.43	702.9	805.36	8129.3	9755.1	10568	11318.9	13087.4	8129.3
O-Pile 237-1522	1422.4	23.81	1522.4	23634.1	3413	1680859.2	624.27	731.08	837.88	8147.6	9777.1	10591.8	11344.4	13116.9	8147.6
O-Pile 237-1755	1574.8	22.22	1754.8	23644.2	3413	1861744.9	649.78	761.93	874.08	8151.1	9781.3	10596.4	11349.2	13122.5	8151.1

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Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

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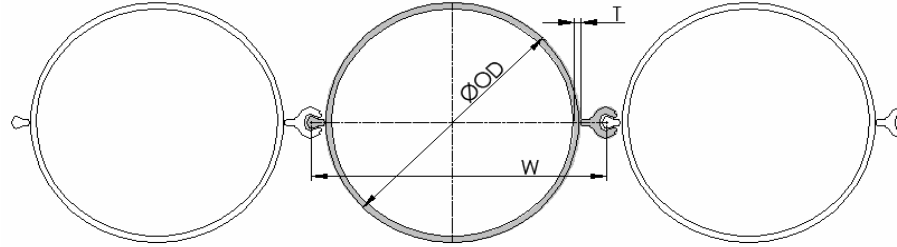
SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 238-1385	1320.8	25.4	1384.8	23718	3413	1566334.5	615.77	720.79	825.81	8176.5	9811.8	10629.4	11384.6	13163.5	8176.5
O-Pile 239-1850	1524	25.4	1850	23820.4	3413	1815113.5	721.57	847.68	973.79	8211.8	9854.1	10675.3	11433.8	13220.3	8211.8
O-Pile 239-1602	1422.4	25.4	1602.4	23870.6	3413	1697678.5	667.87	783.03	898.19	8229.1	9874.9	10697.8	11457.9	13248.2	8229.1
O-Pile 239-1624	1524	22.22	1624	23893	3413	1820646.6	625.62	732.66	839.69	8236.8	9884.2	10707.9	11468.6	13260.6	8236.8
O-Pile 240-2314	2133.6	15.88	2313.6	23990.3	3413	2559284.2	633.37	742.79	852.2	8270.4	9924.4	10751.5	11515.3	13314.6	8270.4
O-Pile 242-1472	1371.6	25.4	1471.6	24120.7	3413	1654199.5	640.73	750.27	859.82	8315.3	9978.4	10809.9	11577.9	13387	8315.3
O-Pile 242-2009	1828.8	19.05	2008.8	24142.7	3413	2207606.5	649.22	761.28	873.33	8322.9	9987.5	10819.8	11588.5	13399.2	8322.9
O-Pile 243-1486	1422.4	23.81	1486.4	24206.5	3413	1721568.9	623.18	729.44	835.69	8344.9	10013.9	10848.4	11619.1	13434.6	8344.9
O-Pile 244-2155	1828.8	20.64	2154.8	24318.8	3413	2223714.5	707.73	831.53	955.33	8383.6	10060.3	10898.7	11673	13497	8383.6
O-Pile 244-1704	1524	23.81	1704	24321.3	3413	1853280.5	672.3	788.2	904.1	8384.5	10061.3	10899.8	11674.2	13498.3	8384.5
O-Pile 245-1588	1524	22.22	1588	24434.7	3413	1861920.7	624.53	731.01	837.5	8423.6	10108.2	10950.6	11728.6	13561.2	8423.6
O-Pile 248-1436	1371.6	25.4	1435.6	24725.6	3413	1695681.2	639.63	748.63	857.63	8523.9	10228.6	11081	11868.3	13722.7	8523.9
O-Pile 248-2460	2133.6	17.46	2459.6	24767.4	3413	2642185.7	701.02	823.7	946.38	8538.3	10245.9	11099.7	11888.3	13745.9	8538.3
O-Pile 248-1675	1574.8	22.22	1674.8	24773.6	3413	1950674.7	646.51	757.02	867.53	8540.4	10248.5	11102.5	11891.3	13749.4	8540.4
O-Pile 248-1901	1574.8	25.4	1900.8	24795.3	3413	1952383.2	745.44	875.52	1005.61	8547.9	10257.5	11112.2	11901.8	13761.4	8547.9
O-Pile 249-2234	2133.6	15.88	2233.6	24849.5	3413	2650949.1	630.1	737.88	845.65	8566.6	10279.9	11136.5	11927.8	13791.5	8566.6
O-Pile 252-1522	1422.4	25.4	1522.4	25125	3413	1786889.1	664.59	778.12	891.64	8661.5	10393.8	11260	12060	13944.4	8661.5
O-Pile 252-1929	1828.8	19.05	1928.8	25144	3413	2299170.5	645.95	756.37	866.78	8668.1	10401.7	11268.5	12069.1	13954.9	8668.1
O-Pile 253-1755	1574.8	23.81	1754.8	25256.2	3413	1988676.8	694.67	814.3	933.93	8706.8	10448.1	11318.8	12123	14017.2	8706.8
O-Pile 253-2198	2133.6	15.88	2197.6	25256.6	3413	2694375.7	629	736.23	843.46	8706.9	10448.3	11319	12123.2	14017.4	8706.9
O-Pile 254-1639	1574.8	22.22	1638.8	25317.8	3413	1993525.8	645.41	755.38	865.34	8728	10473.6	11346.4	12152.6	14051.4	8728
O-Pile 256-1624	1524	23.81	1624	25519.4	3413	1944575.1	669.02	783.28	897.55	8797.5	10557	11436.7	12249.3	14163.2	8797.5
O-Pile 257-1893	1828.8	19.05	1892.8	25622.3	3413	2342899.4	644.85	754.72	864.59	8833	10599.5	11482.8	12298.7	14220.4	8833
O-Pile 258-1486	1422.4	25.4	1486.4	25733.5	3413	1830166.8	663.5	776.48	889.45	8871.3	10645.6	11532.7	12352.1	14282.1	8871.3
O-Pile 259-1704	1524	25.4	1704	25861.3	3413	1970633.8	715.6	838.72	961.84	8915.4	10698.4	11590	12413.4	14353	8915.4
O-Pile 261-2009	1828.8	20.64	2008.8	26086.3	3413	2385334.5	701.76	822.57	943.38	8993	10791.5	11690.8	12521.4	14477.9	8993
O-Pile 261-1588	1524	23.81	1588	26097.9	3413	1988658.7	667.93	781.64	895.36	8996.9	10796.3	11696	12527	14484.3	8996.9
O-Pile 262-2155	1828.8	22.22	2154.8	26121.2	3413	2388518.7	760.17	892.71	1025.25	9005	10805.9	11706.4	12538.2	14497.2	9005

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O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

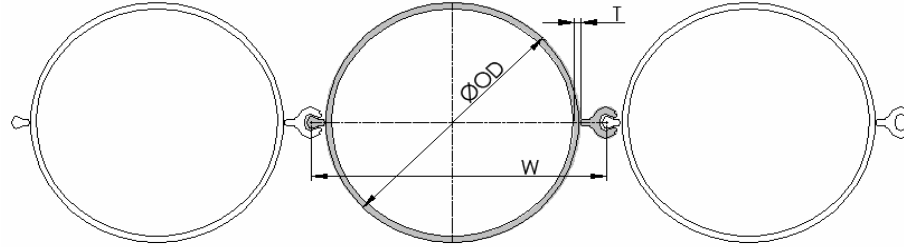
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SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 264-2314	2133.6	17.46	2313.6	26330.3	3413	2808921.2	695.04	814.74	934.43	9077.1	10892.5	11800.2	12638.6	14613.3	9077.1
O-Pile 265-1675	1574.8	23.81	1674.8	26462.7	3413	2083669.7	691.4	809.39	927.38	9122.7	10947.2	11859.5	12702.1	14686.8	9122.7
O-Pile 269-1755	1574.8	25.4	1754.8	26858.3	3413	2114822.2	739.47	866.56	993.66	9259.1	11110.9	12036.8	12892	14906.4	9259.1
O-Pile 270-2460	2133.6	19.05	2459.6	26958.6	3413	2875939.2	762.59	895.54	1028.48	9293.6	11152.4	12081.7	12940.1	14962	9293.6
O-Pile 271-1639	1574.8	23.81	1638.8	27044	3413	2129442.3	690.3	807.75	925.19	9323.1	11187.7	12120	12981.1	15009.4	9323.1
O-Pile 272-1624	1524	25.4	1624	27135.3	3413	2067709.4	712.32	833.81	955.29	9354.6	11225.5	12160.9	13024.9	15060.1	9354.6
O-Pile 272-1929	1828.8	20.64	1928.8	27168.3	3413	2484270	698.48	817.65	936.83	9365.9	11239.1	12175.7	13040.8	15078.4	9365.9
O-Pile 273-2234	2133.6	17.46	2233.6	27273.4	3413	2909527.2	691.77	809.82	927.88	9402.2	11282.6	12222.8	13091.2	15136.7	9402.2
O-Pile 277-1893	1828.8	20.64	1892.8	27685	3413	2531519.4	697.39	816.01	934.64	9544.1	11452.9	12407.3	13288.8	15365.2	9544.1
O-Pile 278-2198	2133.6	17.46	2197.6	27720.2	3413	2957189.7	690.67	808.18	925.69	9556.2	11467.4	12423.1	13305.7	15384.7	9556.2
O-Pile 278-1588	1524	25.4	1588	27750.5	3413	2114584.4	711.23	832.16	953.1	9566.6	11479.9	12436.6	13320.2	15401.5	9566.6
O-Pile 280-2155	1828.8	23.81	2154.8	27913.8	3413	2552441.1	812.52	953.78	1095.04	9623	11547.5	12509.8	13398.6	15492.2	9623
O-Pile 281-2009	1828.8	22.22	2008.8	28019.6	3413	2562116.7	754.2	883.75	1013.3	9659.4	11591.3	12557.3	13449.4	15550.9	9659.4
O-Pile 282-1675	1574.8	25.4	1674.8	28141.2	3413	2215840.7	736.19	861.65	987.11	9701.4	11641.6	12611.7	13507.8	15618.4	9701.4
O-Pile 287-2314	2133.6	19.05	2313.6	28659.8	3413	3057425.7	756.62	886.57	1016.53	9880.1	11856.1	12844.1	13756.7	15906.2	9880.1
O-Pile 288-1639	1574.8	25.4	1638.8	28759.4	3413	2264516.7	735.1	860.01	984.92	9914.5	11897.3	12888.8	13804.5	15961.5	9914.5
O-Pile 292-2460	2133.6	20.64	2459.6	29139.8	3413	3108631.5	824.08	967.27	1110.46	10045.6	12054.7	13059.3	13987.1	16172.6	10045.6
O-Pile 292-1929	1828.8	22.22	1928.8	29181.8	3413	2668384.5	750.92	878.83	1006.75	10060.1	12072.1	13078.1	14007.3	16195.9	10060.1
O-Pile 297-2234	2133.6	19.05	2233.6	29686.3	3413	3166932.3	753.34	881.66	1009.98	10234	12280.8	13304.2	14249.4	16475.9	10234
O-Pile 297-2155	1828.8	25.4	2154.8	29697	3413	2715495.6	864.77	1014.74	1164.71	10237.7	12285.2	13309	14254.6	16481.8	10237.7
O-Pile 298-1893	1828.8	22.22	1892.8	29736.8	3413	2719135.7	749.83	877.19	1004.56	10251.4	12301.7	13326.8	14273.7	16503.9	10251.4
O-Pile 300-2009	1828.8	23.81	2008.8	29942.6	3413	2737953	806.54	944.82	1083.09	10322.4	12386.8	13419.1	14372.5	16618.2	10322.4
O-Pile 302-2198	2133.6	19.05	2197.6	30172.6	3413	3218811.4	752.25	880.02	1007.79	10401.6	12481.9	13522.1	14482.8	16745.8	10401.6
O-Pile 310-2314	2133.6	20.64	2313.6	30978.6	3413	3304802	818.1	958.3	1098.51	10679.5	12815.4	13883.4	14869.8	17193.1	10679.5
O-Pile 312-1929	1828.8	23.81	1928.8	31184.5	3413	2851513.9	803.27	939.9	1076.54	10750.5	12900.6	13975.6	14968.6	17307.4	10750.5
O-Pile 314-2460	2133.6	22.22	2459.6	31311.1	3413	3340266.7	885.47	1038.89	1192.31	10794.1	12952.9	14032.3	15029.3	17377.7	10794.1
O-Pile 318-1893	1828.8	23.81	1892.8	31777.6	3413	2905748.1	802.17	938.26	1074.35	10955	13145.9	14241.4	15253.3	17636.6	10955
O-Pile 319-2009	1828.8	25.4	2008.8	31855.4	3413	2912858.4	858.8	1005.78	1152.76	10981.8	13178.1	14276.3	15290.6	17679.8	10981.8



Data Sheet

Predictable, Quantifiable
Retaining Wall Systems for All
Soil Types



O-Pile 52 - 1044

KEY: (52 = Section Modulus)

(1044 = System Width)

O-Pile® systems are available for immediate shipment, these are examples from an endless variety of possible O-Pile®, please configure your own system on O-Pile.com.

SECTION	Diameter OD	Thickness (Wall) T	System Width* W	UNIT OF WALL						BENDING MOMENT/MEL					
				Section Modulus	Interlock Strength	Moment of Inertia	Weight- Connector Ratio			50	60	65	X70	X80	Mariner® Steel ASTM A690
							50%	75%	100%						
	mm	mm	mm	cm ³ /m	kN/m	cm ⁴ /m	kg/m ²	kg/m ²	kg/m ²	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m	kN-m/m
O-Pile 321-2234	2133.6	20.64	2233.6	32088.2	3413	3423168.9	814.83	953.39	1091.96	11062	13274.4	14380.6	15402.3	17808.9	11062
O-Pile 327-2198	2133.6	20.64	2197.6	32613.9	3413	3479245.5	813.73	951.75	1089.77	11243.2	13491.9	14616.2	15654.6	18100.7	11243.2
O-Pile 332-1929	1828.8	25.4	1928.8	33176.7	3413	3033673.8	855.52	1000.87	1146.21	11437.3	13724.7	14868.4	15924.8	18413	11437.3
O-Pile 333-2314	2133.6	22.22	2313.6	33287	3413	3551054.6	879.49	1029.93	1180.36	11475.3	13770.3	14917.9	15977.7	18474.3	11475.3
O-Pile 335-2460	2133.6	23.81	2459.6	33472.6	3413	3570853	946.76	1110.4	1274.04	11539.3	13847.1	15001	16066.8	18577.3	11539.3
O-Pile 339-1893	1828.8	25.4	1892.8	33807.7	3413	3091372.6	854.43	999.22	1144.02	11654.8	13985.7	15151.2	16227.7	18763.3	11654.8
O-Pile 345-2234	2133.6	22.22	2233.6	34479.2	3413	3678241.4	876.22	1025.01	1173.81	11886.3	14263.5	15452.2	16550	19136	11886.3
O-Pile 351-2198	2133.6	22.22	2197.6	35044	3413	3738496.5	875.12	1023.37	1171.62	12081	14497.2	15705.3	16821.1	19449.4	12081
O-Pile 356-2314	2133.6	23.81	2313.6	35584.9	3413	3796192.1	940.79	1101.44	1262.09	12267.5	14720.9	15947.7	17080.7	19749.6	12267.5
O-Pile 357-2460	2133.6	25.4	2459.6	35624.2	3413	3800386.2	1007.97	1181.8	1355.64	12281	14737.2	15965.3	17099.6	19771.4	12281
O-Pile 369-2234	2133.6	23.81	2233.6	36859.4	3413	3932158.8	937.51	1096.52	1255.54	12706.8	15248.2	16518.9	17692.5	20457	12706.8
O-Pile 375-2198	2133.6	23.81	2197.6	37463.2	3413	3996573.5	936.42	1094.88	1253.35	12915	15498	16789.5	17982.3	20792.1	12915
O-Pile 379-2314	2133.6	25.4	2313.6	37872.2	3413	4040210.1	1001.99	1172.84	1343.69	13056	15667.2	16972.8	18178.7	21019.1	13056
O-Pile 393-2234	2133.6	25.4	2233.6	39228.7	3413	4184916.7	998.72	1167.93	1337.14	13523.6	16228.3	17580.7	18829.8	21771.9	13523.6
O-Pile 399-2198	2133.6	25.4	2197.6	39871.3	3413	4253472	997.62	1166.29	1334.95	13745.2	16494.2	17868.7	19138.2	22128.6	13745.2