

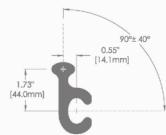
BALL & SOCKET
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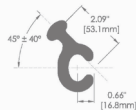
-Pile

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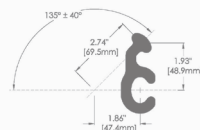
PilePro® Sheet Pile Connectors



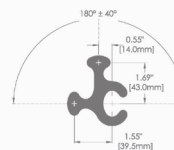
PZ 90



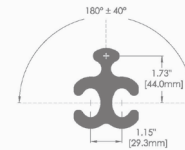
Colt



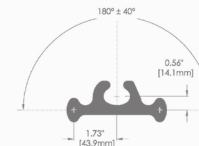
Cobra



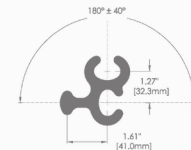
PZ Tee



Joker



Bullhead



PZT-S

Sheet Pile LLC is the owner and assignee of US 7,390,145, related to these connectors.



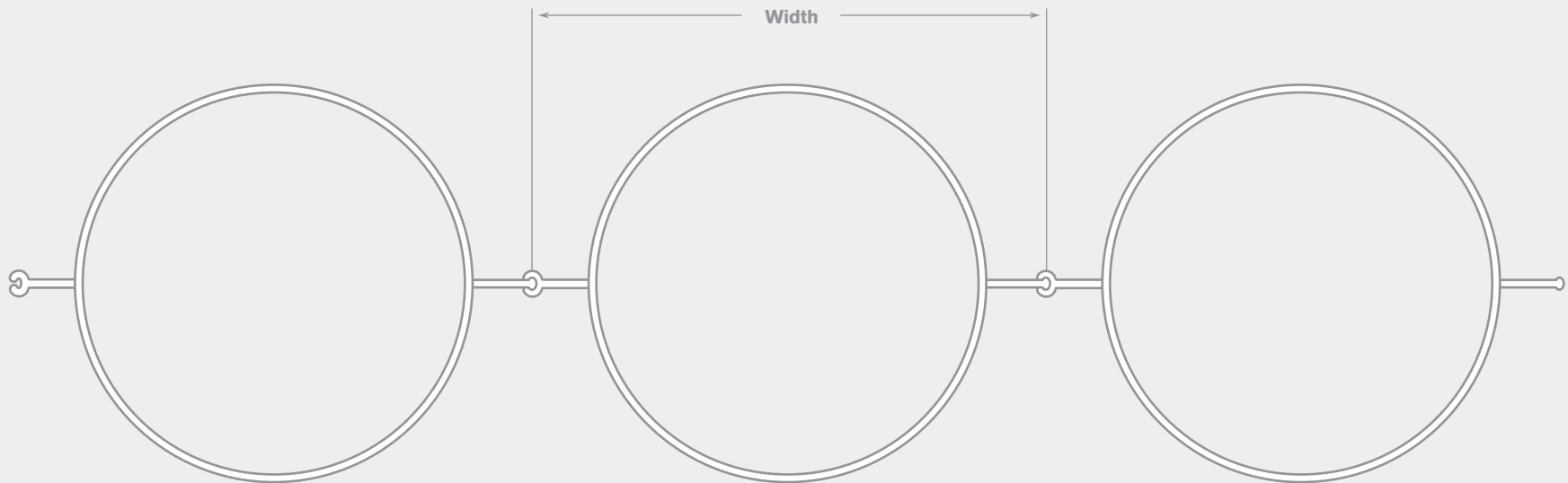
Hot rolled and 100% melted and manufactured
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BALL & SOCKET
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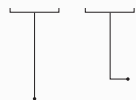


W:64mm (2.5in)



SECTION NAME:

101 - 978



Section width in mm

Section modulus (elastic) in $\text{cm}^3/\text{m} \div 100$

These are examples from a large variety of possible O-Pile® solutions.

Please configure your own system on sheet-pile.com/opile

WOF® and WOM® are available in a wide range of sizes — 100% melted and manufactured in the USA and BABA 2021 compliant. Sheet Pile LLC is the owner and assignee of numerous patents and trademarks related to the O-Pile® system, including, but not limited to, United States Patent Nos. 8,088,469, 8,323,765, and 7,935,406.



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in ³ /ft (cm ³ /m)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	in (mm)	in (mm)	in ⁴ /ft (cm ⁴ /m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
13-308	O	9.6	0.394	25	36.43	42.18	47.93	0.472	2.5	120	104	124.8	135.2	107.1	129.8	144.8	229.3
		244.1	10	1342.2	177.89	205.96	234.02	12	64	16381.9	462.7	555.3	601.5	476.5	577.2	644.3	1020.1
16-308	O	9.6	0.472	29.2	42.26	48.74	55.21	0.472	2.5	140.4	121.8	146.1	158.3	125.4	151.9	169.5	268.4
		244.1	12	1571.1	206.33	237.96	269.58	12	64	19174.9	541.6	649.9	704.1	557.7	675.6	754.1	1194
19-388	O	12.8	0.375	34.4	35.75	41.16	46.58	0.472	2.5	219.5	143.5	172.2	186.5	147.7	179	199.8	316.3
		323.8	9.525	1851.3	174.53	200.97	227.42	12	64	29977.6	638.2	765.9	829.7	657.2	796.1	888.6	1407
25-470	O	16	0.375	45.5	36.23	41.54	46.85	0.472	2.5	364.2	189.7	227.6	246.6	195.3	236.6	264.1	418.2
		406.4	9.525	2447.6	176.88	202.81	228.73	12	64	49735.8	843.8	1012.5	1096.9	868.9	1052.5	1174.9	1860.2
26-470	O	16	0.394	47.6	37.81	43.31	48.82	0.472	2.5	381	198.4	238.1	258	204.4	247.5	276.3	437.5
		406.4	10	2560.6	184.58	211.48	238.37	12	64	52031.9	882.7	1059.3	1147.6	909	1101.1	1229.1	1946.1
28-521	O	18	0.375	52.4	36.45	41.71	46.97	0.472	2.5	471.7	218.4	262.1	283.9	224.9	272.4	304.1	481.5
		457.2	9.525	2817.9	177.95	203.64	229.33	12	64	64417.7	971.4	1165.7	1262.9	1000.4	1211.7	1352.6	2141.6
28-470	O	16	0.438	52.5	41.49	47.46	53.42	0.472	2.5	419.9	218.7	262.4	284.3	225.2	272.8	304.5	482.2
		406.4	11.112	2822	202.56	231.7	260.84	12	64	57343.8	972.9	1167.4	1264.7	1001.8	1213.5	1354.6	2144.7
30-521	O	18	0.394	54.9	38.06	43.52	48.99	0.472	2.5	493.7	228.6	274.3	297.1	235.4	285.1	318.2	503.9
		457.2	10	2949.2	185.82	212.5	239.17	12	64	67418.3	1016.7	1220	1321.7	1047	1268.1	1415.6	2241.4
30-470	O	16	0.472	56.3	44.41	50.74	57.08	0.472	2.5	450.5	234.6	281.5	305	241.6	292.6	326.7	517.2
		406.4	12	3027.4	216.83	247.75	278.67	12	64	61515.8	1043.6	1252.4	1356.7	1074.7	1301.8	1453.1	2300.8
32-470	O	16	0.5	59.3	46.71	53.33	59.95	0.472	2.5	474.3	247	296.4	321.1	254.4	308.1	343.9	544.6
		406.4	12.7	3187.3	228.04	260.36	292.68	12	64	64765.6	1098.8	1318.5	1428.4	1131.5	1370.5	1529.9	2422.3
32-572	O	20	0.375	59.3	36.63	41.85	47.07	0.472	2.5	593.3	247.2	296.7	321.4	254.6	308.4	344.2	545
		508	9.525	3189.9	178.84	204.33	229.83	12	64	81024.7	1099.7	1319.6	1429.6	1132.4	1371.7	1531.2	2424.4
33-521	O	18	0.438	60.5	41.82	47.75	53.69	0.472	2.5	544.6	252.1	302.6	327.8	259.6	314.5	351.1	555.8
		457.2	11.112	3253.3	204.19	233.16	262.13	12	64	74369.8	1121.5	1345.8	1458	1154.9	1398.9	1561.6	2472.5
33-572	O	20	0.394	62.1	38.27	43.69	49.12	0.472	2.5	621.2	258.8	310.6	336.5	266.5	322.8	360.4	570.6
		508	10	3339.6	186.84	213.34	239.83	12	64	84825.6	1151.3	1381.5	1496.7	1185.6	1436	1603	2538.1
35-521	O	18	0.472	65	44.81	51.11	57.42	0.472	2.5	584.7	270.7	324.8	351.9	278.7	337.6	376.9	596.7
		457.2	12	3492.5	218.77	249.56	280.36	12	64	79839.5	1204	1444.8	1565.2	1239.9	1501.8	1676.4	2654.3



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)		lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)				k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
35-470	O	16	0.562	65.9	51.88	59.15	66.41	0.472	2.5	527.3	274.6	329.5	357	282.8	342.5	382.4	605.4
		406.4	14.288	3543.5	253.3	288.78	324.26	12	64	72004.1	1221.6	1465.9	1588.1	1257.9	1523.7	1700.9	2693.1
36-623	O	22	0.375	66.1	36.78	41.97	47.16	0.472	2.5	727.2	275.5	330.6	358.1	283.7	343.6	383.5	607.3
		558.8	9.525	3554.4	179.58	204.91	230.24	12	64	99310.1	1225.3	1470.4	1592.9	1261.8	1528.4	1706.1	2701.3
37-521	O	18	0.5	68.4	47.15	53.76	60.36	0.472	2.5	615.9	285.1	342.2	370.7	293.6	355.7	397	628.6
		457.2	12.7	3679.2	230.23	262.46	294.68	12	64	84106.4	1268.4	1522	1648.9	1306.1	1582.1	1766	2796.2
37-572	O	20	0.438	68.6	42.09	48	53.9	0.472	2.5	685.7	285.7	342.9	371.4	294.2	356.4	397.8	629.9
		508	11.112	3686.7	205.52	234.36	263.19	12	64	93641.2	1270.9	1525.1	1652.2	1308.8	1585.3	1769.6	2801.9
37-623	O	22	0.394	69.4	38.44	43.84	49.23	0.472	2.5	763.4	289.2	347	375.9	297.8	360.7	402.6	637.5
		558.8	10	3731.4	187.69	214.04	240.39	12	64	104255.2	1286.4	1543.6	1672.3	1324.6	1604.5	1791.1	2835.9
39-470	O	16	0.625	72.4	57.01	64.92	72.83	0.472	2.5	579	301.5	361.9	392	310.5	376.1	419.9	664.8
		406.4	15.875	3890.9	278.35	316.96	355.57	12	64	79062.4	1341.3	1609.6	1743.7	1381.3	1673.1	1867.6	2957.1
39-674	O	24	0.375	73.2	36.91	42.07	47.23	0.472	2.5	878.9	305.2	366.2	396.7	314.3	380.6	424.9	672.8
		609.6	9.525	3937.6	180.21	205.4	230.59	12	64	120018.7	1357.4	1628.9	1764.7	1397.9	1693.2	1890.1	2992.6
40-572	O	20	0.472	73.7	45.13	51.42	57.7	0.472	2.5	736.6	306.9	368.3	399	316	382.8	427.3	676.6
		508	12	3960.1	220.37	251.05	281.74	12	64	100587.6	1365.2	1638.3	1774.8	1405.8	1702.9	1900.9	3009.7
41-521	O	18	0.562	76.2	52.45	59.71	66.97	0.472	2.5	685.6	317.4	380.9	412.7	326.9	395.9	442	699.8
		457.2	14.288	4095.8	256.08	291.54	327	12	64	93630.5	1412	1694.4	1835.6	1454	1761.2	1966	3112.8
41-674	O	24	0.394	76.7	38.59	43.96	49.33	0.472	2.5	920.5	319.6	383.6	415.5	329.1	398.7	445	704.7
		609.6	10	4124.3	188.42	214.64	240.86	12	64	125708.1	1421.8	1706.2	1848.3	1464.1	1773.4	1979.7	3134.5
42-572	O	20	0.5	77.6	47.52	54.11	60.69	0.472	2.5	776.3	323.5	388.2	420.5	333.1	403.5	450.4	713.1
		508	12.7	4173.7	232.04	264.18	296.33	12	64	106012.7	1438.8	1726.6	1870.5	1481.7	1794.7	2003.4	3172
44-623	O	22	0.472	82.4	45.41	51.68	57.94	0.472	2.5	906.3	343.3	411.9	446.3	353.5	428.2	478	756.8
		558.8	12	4429.6	221.7	252.3	282.9	12	64	123762	1527	1832.4	1985.1	1572.5	1904.7	2126.2	3366.5
45-521	O	18	0.625	83.8	57.71	65.63	73.54	0.472	2.5	753.9	349	418.8	453.7	359.4	435.3	485.9	769.4
		457.2	15.875	4503.3	281.74	320.41	359.07	12	64	102945.3	1552.5	1862.9	2018.2	1598.7	1936.4	2161.6	3422.5
46-470	O	16	0.75	84.6	67.14	76.32	85.49	0.472	2.5	676.9	352.6	423.1	458.3	363.1	439.8	490.9	777.3
		406.4	19.05	4549.3	327.81	372.61	417.41	12	64	92441.8	1568.3	1882	2038.8	1615	1956.2	2183.7	3457.5



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in³/ft (cm³/m)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in (mm)	in (mm)	in⁴/ft (cm⁴/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
46-674	O	24	0.438	84.8	42.52	48.38	54.24	0.472	2.5	1017.3	353.2	423.9	459.2	363.8	440.6	491.8	778.7
		609.6	11.112	4558	207.59	236.21	264.82	12	64	138926.4	1571.3	1885.6	2042.7	1618.1	1959.9	2187.8	3464
47-572	O	20	0.562	86.5	52.92	60.18	67.44	0.472	2.5	865.1	360.5	432.6	468.6	371.2	449.6	501.9	794.7
		508	14.288	4651.3	258.37	293.81	329.25	12	64	118142.5	1603.5	1924.2	2084.5	1651.2	2000	2232.6	3535
47-623	O	22	0.5	86.9	47.83	54.4	60.97	0.472	2.5	955.5	361.9	434.3	470.5	372.7	451.5	504	797.9
		558.8	12.7	4670.2	233.55	265.62	297.7	12	64	130486.7	1610	1932	2093	1657.9	2008.2	2241.7	3549.4
47-775	O	28	0.375	87.2	37.12	42.23	47.34	0.472	2.5	1220.9	363.4	436	472.4	374.2	453.2	505.9	801.1
		711.2	9.525	4688.5	181.22	206.19	231.16	12	64	166724.7	1616.3	1939.6	2101.2	1664.4	2016.1	2250.5	3563.3
49-674	O	24	0.472	91.1	45.64	51.89	58.14	0.472	2.5	1093.8	379.8	455.7	493.7	391.1	473.7	528.8	837.3
		609.6	12	4900.4	222.84	253.36	283.88	12	64	149364.6	1689.4	2027.2	2196.2	1739.6	2107.2	2352.2	3724.3
49-775	O	28	0.394	91.4	38.83	44.16	49.49	0.472	2.5	1279.2	380.7	456.9	494.9	392	474.9	530.1	839.3
		711.2	10	4912.4	189.58	215.6	241.61	12	64	174686.5	1693.5	2032.2	2201.6	1743.9	2112.4	2358	3733.5
51-826	O	30	0.375	94.2	37.2	42.3	47.39	0.472	2.5	1413.1	392.5	471	510.3	404.2	489.6	546.5	865.4
		762	9.525	5064.9	181.63	206.51	231.39	12	64	192970.9	1746	2095.3	2269.9	1798	2177.9	2431.1	3849.3
51-572	O	20	0.625	95.2	58.28	66.21	74.13	0.472	2.5	952.2	396.8	476.1	515.8	408.6	494.9	552.4	874.7
		508	15.875	5119.4	284.54	323.25	361.95	12	64	130033.6	1764.9	2117.8	2294.3	1817.4	2201.4	2457.3	3890.8
52-674	O	24	0.5	96.1	48.1	54.66	61.21	0.472	2.5	1153.6	400.5	480.7	520.7	412.5	499.6	557.7	883
		609.6	12.7	5168.3	234.83	266.85	298.87	12	64	157529.7	1781.7	2138	2316.2	1834.7	2222.4	2480.8	3927.9
53-521	O	18	0.75	98.2	68.1	77.32	86.54	0.472	2.5	883.7	409.1	491	531.9	421.3	510.3	569.7	902
		457.2	19.05	5279.2	332.5	377.5	422.51	12	64	120681.8	1819.9	2183.9	2365.9	1874.1	2270	2534	4012.2
53-826	O	30	0.394	98.7	38.93	44.24	49.55	0.472	2.5	1480.8	411.3	493.6	534.7	423.6	513.1	572.7	906.8
		762	10	5307.4	190.06	215.99	241.92	12	64	202213.1	1829.7	2195.6	2378.6	1884.1	2282.2	2547.6	4033.6
54-775	O	28	0.438	101.1	42.83	48.66	54.49	0.472	2.5	1414.8	421.1	505.3	547.4	433.6	525.2	586.3	928.3
		711.2	11.112	5433.3	209.12	237.58	266.03	12	64	193208.2	1873.1	2247.7	2435	1928.8	2336.3	2608	4129.3
54-877	O	32	0.375	101.2	37.28	42.35	47.43	0.472	2.5	1619.4	421.7	506.1	548.2	434.3	526	587.2	929.7
		812.8	9.525	5441.6	182	206.79	231.59	12	64	221145.1	1875.9	2251.1	2438.7	1931.8	2339.9	2611.9	4135.6
57-877	O	32	0.394	106.1	39.01	44.31	49.6	0.472	2.5	1697.2	442	530.4	574.6	455.1	551.3	615.4	974.4
		812.8	10	5702.9	190.47	216.33	242.19	12	64	231765.5	1966	2359.2	2555.8	2024.5	2452.2	2737.4	4334.2



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in³/ft (cm³/m)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in (mm)	in (mm)	in⁴/ft (cm⁴/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
58-623	O	22	0.625	106.9	58.76	66.69	74.63	0.472	2.5	1175.8	445.4	534.4	579	458.6	555.5	620.1	981.8
		558.8	15.875	5746.6	286.88	325.62	364.36	12	64	160561.1	1981.1	2377.3	2575.4	2040.1	2471.1	2758.4	4367.4
58-674	O	24	0.562	107.3	53.65	60.9	68.15	0.472	2.5	1287.6	447.1	536.5	581.2	460.4	557.7	622.5	985.6
		609.6	14.288	5768.8	261.92	297.33	332.73	12	64	175832.8	1988.7	2386.5	2585.3	2047.9	2480.6	2769	4384.3
58-928	O	34	0.375	108.2	37.34	42.41	47.47	0.472	2.5	1839.9	450.9	541.1	586.2	464.4	562.5	627.9	994.1
		863.6	9.525	5818.7	182.32	207.05	231.77	12	64	251250.5	2005.9	2407.1	2607.7	2065.6	2502	2793	4422.2
59-775	O	28	0.472	108.7	46.01	52.24	58.47	0.472	2.5	1522.1	453	543.6	588.9	466.5	565	630.7	998.7
		711.2	12	5845.2	224.66	255.06	285.46	12	64	207854.7	2015.1	2418.1	2619.6	2075	2513.4	2805.7	4442.3
59-826	O	30	0.438	109.2	42.96	48.77	54.59	0.472	2.5	1638.3	455.1	546.1	591.6	468.6	567.6	633.6	1003.3
		762	11.112	5872	209.74	238.13	266.53	12	64	223724	2024.3	2429.2	2631.6	2084.6	2525	2818.6	4462.7
60-572	O	20	0.75	112.1	68.89	78.14	87.4	0.472	2.5	1121.2	467.2	560.6	607.3	481.1	582.7	650.5	1029.9
		508	19.05	6028.1	336.35	381.53	426.71	12	64	153112.6	2078.1	2493.7	2701.5	2140	2592.1	2893.5	4581.3
61-928	O	34	0.394	113.4	39.09	44.37	49.65	0.472	2.5	1928.4	472.7	567.2	614.4	486.7	589.6	658.1	1042
		863.6	10	6098.7	190.85	216.64	242.43	12	64	263343	2102.5	2523	2733.2	2165	2622.5	2927.4	4635
62-775	O	28	0.5	114.7	48.52	55.06	61.6	0.472	2.5	1606.1	478	573.6	621.4	492.2	596.2	665.6	1053.8
		711.2	12.7	6167.8	236.89	268.82	300.75	12	64	219326.6	2126.3	2551.5	2764.2	2189.6	2652.1	2960.5	4687.5
62-978	O	36	0.375	115.2	37.4	42.45	47.5	0.472	2.5	2074.4	480.2	576.2	624.3	494.5	599	668.6	1058.6
		914.4	9.525	6196.1	182.61	207.27	231.94	12	64	283283.9	2136	2563.2	2776.8	2199.6	2664.3	2974.1	4709
63-877	O	32	0.438	117.4	43.07	48.87	54.68	0.472	2.5	1878.2	489.1	586.9	635.9	503.7	610.1	681	1078.3
		812.8	11.112	6311.3	210.29	238.63	266.96	12	64	256489.5	2175.7	2610.9	2828.4	2240.5	2713.8	3029.4	4796.6
63-826	O	30	0.472	117.5	46.17	52.38	58.6	0.472	2.5	1762.9	489.7	587.6	636.6	504.3	610.8	681.8	1079.6
		762	12	6318.8	225.41	255.76	286.11	12	64	240744.6	2178.3	2614	2831.8	2243.2	2717.1	3033	4802.3
64-674	O	24	0.625	118.3	59.16	67.11	75.05	0.472	2.5	1419.4	492.9	591.4	640.7	507.5	614.8	686.2	1086.6
		609.6	15.875	6359.5	288.86	327.64	366.41	12	64	193837.6	2192.4	2630.8	2850.1	2257.6	2734.6	3052.6	4833.2
65-978	O	36	0.394	120.8	39.16	44.43	49.7	0.472	2.5	2174.5	503.4	604	654.4	518.3	627.8	700.9	1109.7
		914.4	10	6494.9	191.18	216.92	242.65	12	64	296946	2239	2686.8	2910.7	2305.7	2792.8	3117.5	4936.1
66-1029	O	38	0.375	122.3	37.46	42.49	47.53	0.472	2.5	2323.2	509.5	611.4	662.3	524.6	635.5	709.4	1123.2
		965.2	9.525	6573.7	182.87	207.48	232.08	12	64	317248.3	2266.2	2719.5	2946.1	2333.7	2826.7	3155.4	4996



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)		lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)				k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
67-826	O	30	0.5	124	48.69	55.22	61.76	0.472	2.5	1860.6	516.8	620.2	671.9	532.2	644.7	719.6	1139.4
		762	12.7	6668.8	237.73	269.62	301.52	12	64	254082.3	2299	2758.8	2988.7	2367.4	2867.6	3201	5068.3
68-928	O	34	0.438	125.6	43.17	48.96	54.76	0.472	2.5	2134.7	523.2	627.8	680.2	538.8	652.6	728.5	1153.4
		863.6	11.112	6751	210.78	239.07	267.35	12	64	291507.1	2327.3	2792.8	3025.5	2396.6	2902.9	3240.5	5130.7
68-623	O	22	0.75	125.9	69.55	78.83	88.12	0.472	2.5	1384.9	524.6	629.5	681.9	540.2	654.3	730.4	1156.4
		558.8	19.05	6768.6	339.57	384.9	430.23	12	64	189114.5	2333.4	2800.1	3033.4	2402.9	2910.5	3248.9	5144.1
68-877	O	32	0.472	126.3	46.3	52.51	58.72	0.472	2.5	2021.6	526.5	631.7	684.4	542.1	656.7	733	1160.6
		812.8	12	6792.9	226.06	256.37	286.68	12	64	276064.1	2341.8	2810.1	3044.3	2411.5	2921	3260.6	5162.6
69-1029	O	38	0.394	128.2	39.22	44.48	49.74	0.472	2.5	2435.4	534.1	640.9	694.3	550	666.2	743.6	1177.4
		965.2	10	6891.3	191.48	217.16	242.85	12	64	332575.8	2375.7	2850.8	3088.4	2446.4	2963.3	3307.8	5237.4
69-775	O	28	0.562	128.2	54.18	61.43	68.68	0.472	2.5	1794.7	534.1	641	694.4	550	666.3	743.7	1177.6
		711.2	14.288	6892.2	264.54	299.92	335.3	12	64	245086.4	2376	2851.2	3088.8	2446.7	2963.6	3308.3	5238.1
69-674	O	24	0.688	129.1	64.65	73.28	81.91	0.472	2.5	1549.1	537.9	645.5	699.3	553.9	670.9	748.9	1185.8
		609.6	17.462	6940.6	315.66	357.78	399.9	12	64	211548.4	2392.7	2871.2	3110.5	2463.9	2984.4	3331.5	5274.8
70-1080	O	40	0.375	129.3	37.5	42.53	47.56	0.472	2.5	2586	538.8	646.5	700.4	554.8	672	750.1	1187.7
		1016	9.525	6951.6	183.11	207.66	232.21	12	64	353141.7	2396.5	2875.8	3115.4	2467.8	2989.2	3336.8	5283.2
72-877	O	32	0.5	133.4	48.84	55.37	61.89	0.472	2.5	2134	555.7	666.9	722.4	572.3	693.2	773.8	1225.1
		812.8	12.7	7170.5	238.48	270.33	302.19	12	64	291410.8	2472	2966.3	3213.5	2545.5	3083.3	3441.9	5449.6
72-978	O	36	0.438	133.8	43.26	49.05	54.83	0.472	2.5	2407.6	557.3	668.8	724.5	573.9	695.1	776	1228.6
		914.4	11.112	7191.1	211.22	239.46	267.7	12	64	328775.6	2479	2974.8	3222.7	2552.8	3092.2	3451.7	5465.2
73-928	O	34	0.472	135.2	46.42	52.62	58.82	0.472	2.5	2298	563.2	675.9	732.2	580	702.5	784.2	1241.7
		863.6	12	7267.6	226.65	256.92	287.18	12	64	313815.2	2505.4	3006.5	3257	2580	3125.1	3488.5	5523.4
73-1080	O	40	0.394	135.6	39.27	44.52	49.78	0.472	2.5	2711.1	564.8	677.8	734.3	581.6	704.5	786.4	1245.2
		1016	10	7288	191.76	217.39	243.02	12	64	370231.5	2512.5	3014.9	3266.2	2587.2	3133.8	3498.3	5538.9
73-1131	O	42	0.375	136.3	37.55	42.57	47.59	0.472	2.5	2863	568.1	681.7	738.5	585	708.5	790.9	1252.3
		1066.8	9.525	7329.7	183.33	207.83	232.34	12	64	390965.7	2526.8	3032.2	3284.9	2602	3151.8	3518.3	5570.6
75-826	O	30	0.562	138.7	54.4	61.65	68.89	0.472	2.5	2080.1	577.8	693.4	751.1	595	720.7	804.5	1273.8
		762	14.288	7455.4	265.6	300.98	336.35	12	64	284052.1	2570.2	3084.2	3341.2	2646.7	3205.8	3578.6	5666.1

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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in ³ /ft (cm ³ /m)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	in (mm)	in (mm)	in ⁴ /ft (cm ⁴ /m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
75-674	O	24	0.75	139.7	70.11	79.42	88.73	0.472	2.5	1676.7	582.2	698.6	756.8	599.5	726.2	810.6	1283.5
		609.6	19.05	7512.1	342.3	387.76	433.21	12	64	228968.2	2589.7	3107.6	3366.6	2666.8	3230.2	3605.8	5709.2
76-775	O	28	0.625	141.5	59.82	67.77	75.72	0.472	2.5	1980.7	589.5	707.4	766.4	607.1	735.3	820.8	1299.6
		711.2	15.875	7606.5	292.05	330.88	369.7	12	64	270488.9	2622.3	3146.7	3408.9	2700.3	3270.8	3651.1	5781
76-1029	O	38	0.438	141.9	43.34	49.12	54.89	0.472	2.5	2697	591.4	709.7	768.9	609	737.7	823.5	1303.9
		965.2	11.112	7631.5	211.62	239.82	268.01	12	64	368294.8	2630.9	3157	3420.1	2709.2	3281.5	3663.1	5799.9
77-928	O	34	0.5	142.7	48.98	55.5	62.02	0.472	2.5	2426.1	594.6	713.6	773	612.3	741.7	828	1310.9
		863.6	12.7	7672.8	239.14	270.97	302.8	12	64	331310.9	2645.1	3174.1	3438.6	2723.8	3299.3	3682.9	5831.3
77-1131	O	42	0.394	142.9	39.33	44.57	49.81	0.472	2.5	3001.7	595.6	714.7	774.3	613.3	742.9	829.3	1313
		1066.8	10	7684.9	192.01	217.6	243.18	12	64	409912.5	2649.3	3179.1	3444.1	2728.1	3304.5	3688.8	5840.5
77-1182	O	44	0.375	143.4	37.59	42.6	47.61	0.472	2.5	3154.1	597.4	716.8	776.6	615.1	745.1	831.7	1316.9
		1117.6	9.525	7707.9	183.52	207.98	232.45	12	64	430718.5	2657.2	3188.7	3454.4	2736.3	3314.4	3699.8	5858
77-978	O	36	0.472	144	46.53	52.72	58.91	0.472	2.5	2592.3	600.1	720.1	780.1	617.9	748.5	835.5	1322.9
		914.4	12	7742.7	227.17	257.4	287.64	12	64	353996.3	2669.2	3203	3470	2748.7	3329.4	3716.5	5884.5
80-877	O	32	0.562	149.2	54.59	61.84	69.08	0.472	2.5	2386.6	621.5	745.8	808	640	775.2	865.4	1370.2
		812.8	14.288	8019.5	266.55	301.91	337.28	12	64	325911.3	2764.6	3317.5	3594	2846.9	3448.4	3849.3	6094.8
81-1080	O	40	0.438	150.1	43.42	49.18	54.95	0.472	2.5	3002.8	625.6	750.7	813.3	644.2	780.3	871.1	1379.2
		1016	11.112	8072.2	211.98	240.14	268.3	12	64	410065.7	2782.8	3339.3	3617.6	2865.6	3471	3874.6	6134.8
81-674	O	24	0.812	150.2	75.54	85.52	95.51	0.472	2.5	1802.2	625.7	750.9	813.5	644.4	780.5	871.3	1379.5
		609.6	20.638	8074.1	368.8	417.57	466.34	12	64	246100.1	2783.5	3340.2	3618.5	2866.3	3471.9	3875.6	6136.4
81-1182	O	44	0.394	150.3	39.37	44.61	49.84	0.472	2.5	3307.2	626.4	751.6	814.3	645	781.3	872.1	1380.8
		1117.6	10	8082	192.23	217.78	243.33	12	64	451620.7	2786.2	3343.4	3622	2869.1	3475.2	3879.3	6142.3
82-978	O	36	0.5	152.1	49.1	55.61	62.13	0.472	2.5	2737.2	633.6	760.3	823.7	652.5	790.3	882.2	1396.8
		914.4	12.7	8175.5	239.73	271.53	303.34	12	64	373782.7	2818.4	3382.1	3663.9	2902.3	3515.5	3924.2	6213.4
82-1029	O	38	0.472	152.9	46.63	52.81	59	0.472	2.5	2904.3	636.9	764.3	828	655.9	794.4	886.8	1404.1
		965.2	12	8218.2	227.65	257.85	288.05	12	64	396609	2833.1	3399.7	3683	2917.5	3533.8	3944.7	6245.8
82-826	O	30	0.625	153.1	60.08	68.04	75.99	0.472	2.5	2296.7	638	765.6	829.4	657	795.8	888.3	1406.5
		762	15.875	8231.9	293.35	332.2	371.04	12	64	313635.6	2837.9	3405.4	3689.2	2922.3	3539.7	3951.3	6256.2



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)		lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)				k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
82-724	O	26	0.75	153.2	70.59	79.92	89.25	0.472	2.5	1992	638.5	766.1	830	657.5	796.4	889	1407.5
		660.4	19.05	8238.1	344.65	390.22	435.78	12	64	272021.3	2840	3408	3692	2924.5	3542.4	3954.3	6260.9
83-775	O	28	0.688	154.6	65.43	74.08	82.73	0.472	2.5	2164.2	644.1	772.9	837.3	663.3	803.4	896.8	1420
		711.2	17.462	8311	319.44	361.69	403.93	12	64	295537.9	2865.1	3438.1	3724.6	2950.4	3573.7	3989.3	6316.3
85-1283	O	48	0.375	157.4	37.66	42.65	47.65	0.472	2.5	3778.7	656	787.2	852.8	675.6	818.3	913.4	1446.3
		1219.2	9.525	8464.8	183.87	208.26	232.64	12	64	516016.2	2918.1	3501.8	3793.6	3005	3639.9	4063.1	6433.3
85-1131	O	42	0.438	158.3	43.48	49.24	55	0.472	2.5	3325.2	659.8	791.7	857.7	679.4	822.9	918.6	1454.5
		1066.8	11.112	8513.1	212.3	240.43	268.56	12	64	454088.3	2934.8	3521.7	3815.2	3022.1	3660.6	4086.3	6469.9
86-928	O	34	0.562	159.7	54.76	62.01	69.25	0.472	2.5	2714.3	665.3	798.3	864.9	685.1	829.8	926.3	1466.6
		863.6	14.288	8584.2	267.39	302.75	338.11	12	64	370664.1	2959.3	3551.1	3847.1	3047.4	3691.2	4120.4	6524
86-674	O	24	0.875	160.5	80.93	91.6	102.26	0.472	2.5	1925.5	668.6	802.3	869.2	688.5	833.9	930.9	1473.9
		609.6	22.225	8626.9	395.15	447.21	499.27	12	64	262946.9	2974	3568.8	3866.2	3062.5	3709.6	4140.9	6556.4
87-1029	O	38	0.5	161.4	49.21	55.72	62.23	0.472	2.5	3067	672.6	807.1	874.4	692.6	838.9	936.5	1482.8
		965.2	12.7	8678.6	240.27	272.04	303.82	12	64	418828.2	2991.8	3590.2	3889.4	3080.9	3731.8	4165.7	6595.7
87-1080	O	40	0.472	161.7	46.71	52.89	59.07	0.472	2.5	3234.2	673.8	808.5	875.9	693.8	840.4	938.1	1485.4
		1016	12	8694	228.07	258.25	288.42	12	64	441652.8	2997.1	3596.6	3896.3	3086.4	3738.4	4173.1	6607.4
88-1334	O	50	0.375	164.5	37.69	42.68	47.67	0.472	2.5	4112.2	685.4	822.4	891	705.8	854.9	954.3	1511
		1270	9.525	8843.5	184.03	208.38	232.73	12	64	561560.7	3048.7	3658.4	3963.3	3139.4	3802.7	4244.9	6721
88-686	O	24.5	0.875	164.5	81.1	91.77	102.44	0.472	2.5	2015	685.4	822.5	891	705.8	854.9	954.3	1511
		622.3	22.225	8843.6	395.95	448.07	500.18	12	64	275169.1	3048.7	3658.5	3963.3	3139.5	3802.8	4244.9	6721.1
89-877	O	32	0.625	164.8	60.32	68.28	76.24	0.472	2.5	2636.2	686.5	823.8	892.5	706.9	856.3	955.9	1513.5
		812.8	15.875	8858.2	294.5	333.36	372.23	12	64	359996.6	3053.8	3664.5	3969.9	3144.7	3809	4251.9	6732.2
89-1283	O	48	0.394	165.1	39.45	44.67	49.89	0.472	2.5	3962.5	687.9	825.5	894.3	708.4	858.1	957.9	1516.6
		1219.2	10	8876.6	192.63	218.11	243.59	12	64	541115.2	3060.1	3672.1	3978.1	3151.2	3816.9	4260.7	6746.2
90-1182	O	44	0.438	166.5	43.54	49.3	55.05	0.472	2.5	3664.1	694	832.7	902.1	714.6	865.6	966.2	1529.9
		1117.6	11.112	8954.2	212.6	240.7	268.79	12	64	500362.2	3086.9	3704.2	4012.9	3178.8	3850.3	4298	6805.2
90-826	O	30	0.688	167.4	65.74	74.41	83.07	0.472	2.5	2510.5	697.4	836.8	906.6	718.1	869.8	971	1537.4
		762	17.462	8998.3	320.98	363.28	405.58	12	64	342835.4	3102.1	3722.5	4032.7	3194.4	3869.3	4319.2	6838.7



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in³/ft (cm³/m)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in (mm)	in (mm)	in⁴/ft (cm⁴/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
90-775	O	28	0.75	167.5	71.01	80.36	89.71	0.472	2.5	2345	697.9	837.5	907.3	718.7	870.5	971.8	1538.6
		711.2	19.05	9005.5	346.7	392.35	438.01	12	64	320236.1	3104.5	3725.4	4035.9	3197	3872.4	4322.6	6844.2
92-978	O	36	0.562	170.2	54.92	62.16	69.4	0.472	2.5	3063.2	709.1	850.9	921.8	730.2	884.5	987.3	1563.2
		914.4	14.288	9149.4	268.14	303.49	338.84	12	64	418311.5	3154.2	3785	4100.4	3248	3934.3	4391.7	6953.6
92-1131	O	42	0.472	170.6	46.79	52.97	59.14	0.472	2.5	3581.8	710.7	852.8	923.9	731.8	886.4	989.5	1566.7
		1066.8	12	9170	228.46	258.61	288.76	12	64	489127.2	3161.2	3793.5	4109.6	3255.3	3943.1	4401.6	6969.2
92-674	O	24	0.938	170.6	86.3	97.63	108.97	0.472	2.5	2046.8	710.7	852.8	923.9	731.9	886.5	989.6	1566.8
		609.6	23.812	9170.3	421.36	476.69	532.03	12	64	279511.6	3161.4	3793.6	4109.8	3255.5	3943.2	4401.8	6969.4
92-1080	O	40	0.5	170.8	49.31	55.81	62.32	0.472	2.5	3415.7	711.6	853.9	925.1	732.8	887.6	990.8	1568.8
		1016	12.7	9182	240.75	272.51	304.26	12	64	466446.3	3165.4	3798.5	4115	3259.6	3948.3	4407.4	6978.3
92-1385	O	52	0.375	171.5	37.72	42.7	47.68	0.472	2.5	4459.9	714.7	857.7	929.1	736	891.5	995.2	1575.7
		1320.8	9.525	9222.2	184.17	208.49	232.81	12	64	609034.5	3179.2	3815.1	4133	3273.9	3965.5	4426.7	7008.9
93-1334	O	50	0.394	172.5	39.49	44.7	49.92	0.472	2.5	4312.4	718.7	862.5	934.4	740.1	896.5	1000.7	1584.5
		1270	10	9274	192.81	218.26	243.71	12	64	588901.8	3197.1	3836.5	4156.2	3292.3	3987.8	4451.5	7048.3
95-928	O	34	0.625	176.4	60.53	68.49	76.45	0.472	2.5	2999.2	735.1	882.1	955.6	757	916.9	1023.5	1620.6
		863.6	15.875	9485.2	295.53	334.4	373.28	12	64	409572	3269.9	3923.9	4250.9	3367.3	4078.6	4552.9	7208.8
96-1436	O	54	0.375	178.6	37.75	42.72	47.7	0.472	2.5	4821.6	744.1	892.9	967.3	766.2	928.1	1036	1640.4
		1371.6	9.525	9601	184.3	208.59	232.88	12	64	658439	3309.8	3971.8	4302.8	3408.4	4128.4	4608.5	7296.8
97-1182	O	44	0.472	179.4	46.87	53.04	59.21	0.472	2.5	3947.3	747.6	897.1	971.9	769.8	932.5	1040.9	1648.1
		1117.6	12	9646.3	228.82	258.94	289.06	12	64	539033.5	3325.4	3990.5	4323.1	3424.4	4147.9	4630.2	7331.2
97-1385	O	52	0.394	179.9	39.52	44.73	49.94	0.472	2.5	4677.2	749.6	899.5	974.4	771.9	934.9	1043.7	1652.4
		1320.8	10	9671.6	192.98	218.39	243.81	12	64	638715.3	3334.2	4001	4334.4	3433.4	4158.8	4642.4	7350.4
97-1131	O	42	0.5	180.2	49.4	55.9	62.4	0.472	2.5	3783.3	750.6	900.8	975.8	773	936.3	1045.2	1654.9
		1066.8	12.7	9685.7	241.19	272.93	304.67	12	64	516637.8	3339	4006.8	4340.8	3438.4	4164.9	4649.2	7361.2
97-877	O	32	0.688	180.2	66.02	74.69	83.37	0.472	2.5	2882.8	750.7	900.9	975.9	773.1	936.4	1045.3	1655
		812.8	17.462	9686.7	322.35	364.69	407.03	12	64	393667.9	3339.4	4007.2	4341.2	3438.8	4165.3	4649.6	7361.9
97-775	O	28	0.812	180.2	76.57	86.61	96.66	0.472	2.5	2523.4	751	901.2	976.3	773.4	936.7	1045.7	1655.6
		711.2	20.638	9690.3	373.83	422.87	471.92	12	64	344587.2	3340.6	4008.7	4342.8	3440.1	4166.8	4651.3	7364.6



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)		lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)				k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
97-674	O	24	1	180.5	91.64	103.64	115.64	0.472	2.5	2166.1	752.1	902.5	977.7	774.5	938.1	1047.2	1658.1
		609.6	25.4	9704.7	447.41	506.01	564.6	12	64	295798.7	3345.6	4014.7	4349.2	3445.2	4173	4658.2	7375.6
97-1029	O	38	0.562	180.7	55.06	62.3	69.54	0.472	2.5	3433.3	752.9	903.5	978.8	775.3	939.1	1048.3	1659.9
		965.2	14.288	9715.1	268.82	304.16	339.51	12	64	468852.5	3349.2	4019	4353.9	3448.9	4177.5	4663.3	7383.5
98-826	O	30	0.75	181.4	71.38	80.74	90.11	0.472	2.5	2721.6	756	907.2	982.8	778.5	943	1052.6	1666.6
		762	19.05	9754.7	348.49	394.23	439.96	12	64	371653.8	3362.8	4035.4	4371.7	3462.9	4194.5	4682.3	7413.6
98-1283	O	48	0.438	183	43.65	49.39	55.14	0.472	2.5	4391.3	762.4	914.8	991.1	785.1	950.9	1061.5	1680.7
		1219.2	11.112	9837	213.13	241.17	269.21	12	64	599665.7	3391.2	4069.4	4408.6	3492.1	4229.9	4721.8	7476.1
100-1486	O	56	0.375	185.6	37.77	42.74	47.71	0.472	2.5	5197.6	773.4	928.1	1005.5	796.5	964.7	1076.9	1705.1
		1422.4	9.525	9980	184.43	208.69	232.95	12	64	709775.3	3440.5	4128.6	4472.6	3542.9	4291.4	4790.4	7584.8
101-1436	O	54	0.394	187.3	39.56	44.76	49.96	0.472	2.5	5056.8	780.4	936.4	1014.5	803.6	973.4	1086.6	1720.4
		1371.6	10	10069.3	193.13	218.52	243.91	12	64	690555.2	3471.3	4165.5	4512.7	3574.6	4329.8	4833.3	7652.7
101-978	O	36	0.625	188.1	60.72	68.68	76.65	0.472	2.5	3385.8	783.8	940.5	1018.9	807.1	977.6	1091.3	1727.8
		914.4	15.875	10112.9	296.44	335.34	374.23	12	64	462363	3486.3	4183.6	4532.2	3590.1	4348.6	4854.2	7685.8
102-1182	O	44	0.5	189.5	49.48	55.98	62.48	0.472	2.5	4169.6	789.7	947.6	1026.6	813.2	985	1099.6	1741
		1117.6	12.7	10189.7	241.59	273.31	305.03	12	64	569402.5	3512.8	4215.3	4566.6	3617.4	4381.6	4891.1	7744.2
103-1334	O	50	0.438	191.2	43.7	49.44	55.18	0.472	2.5	4779.6	796.6	955.9	1035.6	820.3	993.6	1109.2	1756.2
		1270	11.112	10278.7	213.36	241.38	269.39	12	64	652694.9	3543.4	4252.1	4606.5	3648.9	4419.8	4933.8	7811.8
103-1080	O	40	0.562	191.2	55.18	62.42	69.66	0.472	2.5	3824.6	796.8	956.2	1035.8	820.5	993.9	1109.4	1756.6
		1016	14.288	10281.3	269.43	304.77	340.12	12	64	522288	3544.3	4253.2	4607.6	3649.8	4420.9	4935	7813.8
104-775	O	28	0.875	192.8	82.1	92.83	103.57	0.472	2.5	2699.2	803.3	964	1044.3	827.2	1002	1118.5	1771
		711.2	22.225	10365.4	400.83	453.25	505.67	12	64	368595.2	3573.4	4288	4645.4	3679.7	4457.1	4975.4	7877.7
104-928	O	34	0.688	193	66.27	74.95	83.63	0.472	2.5	3280.9	804.1	965	1045.4	828.1	1003	1119.7	1772.8
		863.6	17.462	10376	323.56	365.94	408.32	12	64	448036.9	3577	4292.4	4650.1	3683.5	4461.7	4980.5	7885.8
105-1486	O	56	0.394	194.7	39.58	44.78	49.98	0.472	2.5	5451.3	811.2	973.4	1054.6	835.4	1011.8	1129.5	1788.4
		1422.4	10	10467.1	193.27	218.64	244.01	12	64	744422.8	3608.4	4330.1	4690.9	3715.8	4500.9	5024.2	7955
105-826	O	30	0.812	195.3	76.99	87.05	97.12	0.472	2.5	2929.8	813.8	976.6	1058	838.1	1015.1	1133.2	1794.2
		762	20.638	10501.2	375.88	425.04	474.2	12	64	400096.9	3620.2	4344.2	4706.2	3727.9	4515.5	5040.6	7980.9



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in ³ /ft (cm ³ /m)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	in (mm)	in (mm)	in ⁴ /ft (cm ⁴ /m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
105-877	O	32	0.75	195.4	71.7	81.08	90.47	0.472	2.5	3126.3	814.1	977	1058.4	838.4	1015.5	1133.6	1794.9
		812.8	19.05	10505.1	350.08	395.88	441.69	12	64	426928.6	3621.5	4345.8	4708	3729.3	4517.2	5042.5	7983.9
106-1283	O	48	0.472	197.1	46.99	53.16	59.32	0.472	2.5	4731.6	821.5	985.7	1067.9	845.9	1024.6	1143.8	1811
		1219.2	12	10599.4	229.45	259.53	289.61	12	64	646140.9	3654	4384.8	4750.2	3762.8	4557.8	5087.7	8055.6
107-1385	O	52	0.438	199.4	43.74	49.48	55.21	0.472	2.5	5184.4	830.8	997	1080.1	855.6	1036.3	1156.8	1831.6
		1320.8	11.112	10720.4	213.58	241.57	269.56	12	64	707976.6	3695.7	4434.9	4804.5	3805.7	4609.8	5145.8	8147.5
107-1029	O	38	0.625	199.8	60.89	68.85	76.82	0.472	2.5	3795.9	832.4	998.9	1082.2	857.2	1038.3	1159.1	1835.2
		965.2	15.875	10741.2	297.27	336.18	375.08	12	64	518370.6	3702.9	4443.5	4813.8	3813.1	4618.7	5155.8	8163.3
109-1131	O	42	0.562	201.8	55.3	62.54	69.77	0.472	2.5	4237.1	840.7	1008.8	1092.9	865.7	1048.6	1170.6	1853.4
		1066.8	14.288	10847.7	269.99	305.33	340.67	12	64	578618.7	3739.6	4487.5	4861.5	3850.9	4664.5	5206.9	8244.3
110-775	O	28	0.938	205.2	87.6	99.03	110.45	0.472	2.5	2872.5	854.9	1025.9	1111.4	880.4	1066.3	1190.3	1884.7
		711.2	23.812	11031	427.71	483.49	539.27	12	64	392262.6	3802.8	4563.4	4943.6	3916	4743.3	5294.9	8383.6
111-978	O	36	0.688	205.8	66.49	75.18	83.87	0.472	2.5	3704.9	857.6	1029.1	1114.9	883.2	1069.7	1194.1	1890.7
		914.4	17.462	11066.1	324.65	367.07	409.48	12	64	505942.4	3814.9	4577.9	4959.4	3928.5	4758.4	5311.7	8410.2
111-1334	O	50	0.472	206	47.05	53.21	59.37	0.472	2.5	5150.5	858.4	1030.1	1115.9	884	1070.7	1195.2	1892.4
		1270	12	11076.3	229.73	259.79	289.85	12	64	703342.6	3818.4	4582.1	4963.9	3932.1	4762.8	5316.6	8418
112-1436	O	54	0.438	207.6	43.78	49.51	55.24	0.472	2.5	5605.7	865.1	1038.1	1124.6	890.8	1079	1204.5	1907.1
		1371.6	11.112	11162.3	213.78	241.75	269.72	12	64	765512.7	3848.1	4617.7	5002.5	3962.6	4799.8	5357.9	8483.4
112-1283	O	48	0.5	208.3	49.63	56.12	62.61	0.472	2.5	4999	867.9	1041.4	1128.2	893.7	1082.5	1208.4	1913.3
		1219.2	12.7	11198.4	242.3	273.99	305.68	12	64	682652	3860.5	4632.6	5018.6	3975.4	4815.3	5375.2	8510.8
112-826	O	30	0.875	209	82.57	93.34	104.1	0.472	2.5	3135.4	870.9	1045.1	1132.2	896.9	1086.3	1212.7	1920.1
		762	22.225	11237.9	403.15	455.72	508.28	12	64	428165.9	3874.1	4649	5036.4	3989.5	4832.3	5394.2	8540.8
113-928	O	34	0.75	209.4	71.99	81.39	90.78	0.472	2.5	3559.4	872.4	1046.9	1134.1	898.4	1088.2	1214.7	1923.3
		863.6	19.05	11256.6	351.49	397.36	443.23	12	64	486061.9	3880.6	4656.7	5044.8	3996.1	4840.4	5403.2	8555
113-877	O	32	0.812	210.4	77.36	87.45	97.54	0.472	2.5	3366.9	876.8	1052.2	1139.8	902.9	1093.7	1220.8	1933
		812.8	20.638	11313.6	377.69	426.95	476.21	12	64	459784.4	3900.2	4680.3	5070.3	4016.3	4864.8	5430.5	8598.3
114-1080	O	40	0.625	211.5	61.04	69.01	76.98	0.472	2.5	4229.6	881.2	1057.4	1145.5	907.4	1099.1	1226.9	1942.6
		1016	15.875	11370	298.02	336.94	375.85	12	64	577593.5	3919.7	4703.6	5095.5	4036.3	4889.1	5457.6	8641.2



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BALL & SOCKET
HOT ROLLED / MULTI-USE

Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)		lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)				k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
114-1182	O	44	0.562	212.3	55.4	62.64	69.88	0.472	2.5	4670.8	884.6	1061.6	1150	911	1103.4	1231.7	1950.2
		1117.6	14.288	11414.5	270.5	305.83	341.17	12	64	637843.6	3935	4722	5115.5	4052.2	4908.2	5479	8675
116-1385	O	52	0.472	214.9	47.1	53.26	59.41	0.472	2.5	5587.2	895.4	1074.5	1164	922	1116.8	1246.7	1973.9
		1320.8	12	11553.2	229.98	260.03	290.07	12	64	762976.6	3982.8	4779.4	5177.7	4101.4	4967.9	5545.6	8780.5
116-1486	O	56	0.438	215.8	43.82	49.55	55.27	0.472	2.5	6043.5	899.3	1079.2	1169.1	926.1	1121.8	1252.2	1982.6
		1422.4	11.112	11604.3	213.96	241.92	269.87	12	64	825296	4000.4	4800.5	5200.6	4119.5	4989.8	5570.1	8819.2
117-775	O	28	1	217.4	93.08	105.19	117.3	0.472	2.5	3043.3	905.7	1086.9	1177.5	932.7	1129.8	1261.1	1996.8
		711.2	25.4	11687.1	454.45	513.58	572.7	12	64	415592.1	4029	4834.8	5237.7	4148.9	5025.4	5609.8	8882.2
117-1334	O	50	0.5	217.7	49.69	56.18	62.67	0.472	2.5	5441.9	907	1088.4	1179.1	934	1131.3	1262.8	1999.5
		1270	12.7	11702.9	242.62	274.29	305.97	12	64	743137.2	4034.5	4841.3	5244.8	4154.5	5032.3	5617.4	8894.2
118-1029	O	38	0.688	218.7	66.69	75.39	84.08	0.472	2.5	4154.9	911.2	1093.4	1184.5	938.3	1136.5	1268.7	2008.7
		965.2	17.462	11756.8	325.63	368.08	410.53	12	64	567385.3	4053	4863.6	5268.9	4173.7	5055.4	5643.3	8935.2
120-826	O	30	0.938	222.5	88.13	99.59	111.06	0.472	2.5	3338.2	927.3	1112.7	1205.5	954.9	1156.6	1291.1	2044.3
		762	23.812	11965	430.3	486.26	542.22	12	64	455865.6	4124.8	4949.7	5362.2	4247.6	5144.9	5743.2	9093.4
120-1131	O	42	0.625	223.2	61.18	69.15	77.12	0.472	2.5	4686.9	929.9	1115.9	1208.9	957.6	1159.9	1294.8	2050.1
		1066.8	15.875	11999.1	298.7	337.63	376.56	12	64	640032.7	4136.6	4963.9	5377.5	4259.7	5159.6	5759.6	9119.3
120-978	O	36	0.75	223.4	72.25	81.66	91.06	0.472	2.5	4020.6	930.7	1116.8	1209.9	958.4	1160.9	1295.9	2051.8
		914.4	19.05	12009	352.75	398.68	444.61	12	64	549051.5	4140	4967.9	5381.9	4263.2	5163.9	5764.3	9126.8
120-1436	O	54	0.472	223.8	47.15	53.3	59.45	0.472	2.5	6041.7	932.4	1118.8	1212.1	960.1	1162.9	1298.2	2055.4
		1371.6	12	12030.4	230.22	260.25	290.28	12	64	825041.8	4147.3	4976.8	5391.5	4270.8	5173.1	5774.6	9143.1
121-877	O	32	0.875	225.3	82.99	93.78	104.58	0.472	2.5	3604.6	938.7	1126.4	1220.3	966.6	1170.9	1307	2069.4
		812.8	22.225	12112.1	405.19	457.89	510.59	12	64	492236.5	4175.5	5010.6	5428.2	4299.8	5208.2	5813.8	9205.2
121-928	O	34	0.812	225.6	77.69	87.8	97.9	0.472	2.5	3834.6	939.9	1127.8	1221.8	967.8	1172.3	1308.6	2072
		863.6	20.638	12127.1	379.31	428.66	478	12	64	523650.3	4180.7	5016.8	5434.9	4305.1	5214.7	5821	9216.6
122-1385	O	52	0.5	227.1	49.75	56.24	62.72	0.472	2.5	5903.7	946.1	1135.3	1229.9	974.3	1180.1	1317.3	2085.7
		1320.8	12.7	12207.7	242.91	274.57	306.23	12	64	806195.8	4208.5	5050.1	5471	4333.7	5249.3	5859.7	9277.8
125-1080	O	40	0.688	231.5	66.88	75.58	84.28	0.472	2.5	4630.7	964.7	1157.7	1254.2	993.5	1203.3	1343.3	2126.8
		1016	17.462	12448.1	326.52	369	411.47	12	64	632365.7	4291.3	5149.6	5578.7	4419.1	5352.7	5975.1	9460.6



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		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)		lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)				k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
125-1486	O	56	0.472	232.6	47.2	53.35	59.49	0.472	2.5	6514	969.3	1163.2	1260.1	998.2	1209.1	1349.7	2137
		1422.4	12	12507.6	230.45	260.46	290.47	12	64	889538.5	4311.8	5174.2	5605.4	4440.2	5378.3	6003.6	9505.8
126-1283	O	48	0.562	233.4	55.59	62.82	70.06	0.472	2.5	5601.8	972.5	1167	1264.3	1001.5	1213.1	1354.1	2144
		1219.2	14.288	12548.9	271.4	306.73	342.05	12	64	764979	4326.1	5191.3	5623.9	4454.8	5396	6023.5	9537.1
126-1182	O	44	0.625	234.9	61.31	69.28	77.26	0.472	2.5	5167.6	978.7	1174.5	1272.3	1007.9	1220.8	1362.7	2157.7
		1117.6	15.875	12628.6	299.33	338.26	377.2	12	64	705688.1	4353.6	5224.3	5659.6	4483.2	5430.3	6061.7	9597.8
127-826	O	30	1	235.9	93.67	105.82	117.97	0.472	2.5	3538.4	982.9	1179.5	1277.7	1012.1	1226	1368.5	2166.8
		762	25.4	12682.3	457.32	516.66	576	12	64	483197.3	4372.1	5246.5	5683.7	4502.2	5453.4	6087.5	9638.6
127-1436	O	54	0.5	236.5	49.81	56.29	62.77	0.472	2.5	6384.3	985.2	1182.3	1280.8	1014.6	1228.9	1371.8	2172
		1371.6	12.7	12712.6	243.18	274.83	306.48	12	64	871830.6	4382.5	5259	5697.3	4513	5466.4	6102.1	9661.6
128-1029	O	38	0.75	237.4	72.48	81.9	91.32	0.472	2.5	4510.2	989.1	1186.9	1285.8	1018.5	1233.7	1377.1	2180.5
		965.2	19.05	12762.2	353.89	399.87	445.85	12	64	615901.7	4399.6	5279.5	5719.5	4530.6	5487.7	6125.8	9699.2
129-877	O	32	0.938	240	88.6	100.09	111.59	0.472	2.5	3839.3	999.8	1199.8	1299.8	1029.6	1247.1	1392.1	2204.2
		812.8	23.812	12900.8	432.58	488.71	544.83	12	64	524288.3	4447.4	5336.9	5781.6	4579.8	5547.3	6192.4	9804.6
129-978	O	36	0.812	240.7	77.98	88.11	98.23	0.472	2.5	4332.9	1003	1203.6	1303.9	1032.8	1251	1396.5	2211.2
		914.4	20.638	12941.7	380.75	430.18	479.61	12	64	591695.6	4461.5	5353.8	5800	4594.3	5564.9	6212	9835.7
130-928	O	34	0.875	241.6	83.36	94.18	105	0.472	2.5	4106.7	1006.5	1207.9	1308.5	1036.5	1255.5	1401.5	2219
		863.6	22.225	12987.6	407.02	459.83	512.64	12	64	560806.4	4477.3	5372.8	5820.5	4610.6	5584.7	6234.1	9870.6
131-1334	O	50	0.562	244	55.67	62.9	70.14	0.472	2.5	6099.1	1016.5	1219.8	1321.5	1046.8	1267.9	1415.4	2241
		1270	14.288	13116.3	271.8	307.12	342.45	12	64	832886.1	4521.7	5426	5878.2	4656.3	5640	6295.8	9968.4
131-1131	O	42	0.688	244.4	67.04	75.75	84.45	0.472	2.5	5132.5	1018.3	1222	1323.9	1048.7	1270.2	1417.9	2245
		1066.8	17.462	13139.9	327.33	369.83	412.34	12	64	700884.3	4529.8	5435.8	5888.8	4664.7	5650.2	6307.2	9986.4
132-940	O	34.5	0.875	245.6	83.45	94.27	105.1	0.472	2.5	4237.4	1023.5	1228.2	1330.6	1054	1276.7	1425.1	2256.4
		876.3	22.225	13206.7	407.44	460.28	513.12	12	64	578651.7	4552.9	5463.4	5918.7	4688.4	5678.9	6339.2	10037.1
132-1486	O	56	0.5	245.8	49.86	56.34	62.82	0.472	2.5	6883.7	1024.4	1229.2	1331.7	1054.9	1277.7	1426.3	2258.3
		1422.4	12.7	13217.6	243.43	275.07	306.71	12	64	940036.3	4556.6	5467.9	5923.6	4692.3	5683.6	6344.5	10045.4
135-1080	O	40	0.75	251.4	72.69	82.12	91.55	0.472	2.5	5027.9	1047.5	1257	1361.7	1078.7	1306.6	1458.5	2309.3
		1016	19.05	13515.9	354.92	400.95	446.98	12	64	686609.3	4659.5	5591.3	6057.3	4798.2	5811.9	6487.6	10272.1



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		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in³/ft (cm³/m)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in (mm)	in (mm)	in⁴/ft (cm⁴/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
137-877	O	32	1	254.4	94.19	106.38	118.57	0.472	2.5	4071.1	1060.2	1272.2	1378.2	1091.7	1322.4	1476.2	2337.2
		812.8	25.4	13679.7	459.86	519.39	578.92	12	64	555944.3	4715.9	5659.1	6130.7	4856.3	5882.3	6566.3	10396.6
137-1385	O	52	0.562	254.5	55.75	62.98	70.21	0.472	2.5	6617.6	1060.5	1272.6	1378.7	1092.1	1322.8	1476.6	2338
		1320.8	14.288	13684.1	272.17	307.49	342.81	12	64	903697.3	4717.4	5660.9	6132.6	4857.9	5884.2	6568.4	10399.9
138-1029	O	38	0.812	255.9	78.25	88.39	98.53	0.472	2.5	4861.8	1066.2	1279.4	1386	1097.9	1329.9	1484.5	2350.5
		965.2	20.638	13757.2	382.06	431.56	481.06	12	64	663921.5	4742.6	5691.1	6165.4	4883.8	5915.6	6603.4	10455.5
138-1182	O	44	0.688	257.3	67.19	75.9	84.61	0.472	2.5	5660.1	1072	1286.4	1393.6	1103.9	1337.1	1492.6	2363.3
		1117.6	17.462	13832.2	328.07	370.59	413.12	12	64	772940.9	4768.5	5722.2	6199	4910.4	5947.8	6639.4	10512.4
138-928	O	34	0.938	257.4	89.02	100.54	112.07	0.472	2.5	4375.6	1072.5	1287	1394.2	1104.4	1337.7	1493.3	2364.3
		863.6	23.812	13838.2	434.62	490.89	547.15	12	64	597532.3	4770.5	5724.6	6201.7	4912.6	5950.4	6642.3	10517
139-978	O	36	0.875	257.9	83.7	94.54	105.37	0.472	2.5	4641.8	1074.5	1289.4	1396.8	1106.5	1340.2	1496.1	2368.8
		914.4	22.225	13864.3	408.65	461.57	514.49	12	64	633876.7	4779.6	5735.5	6213.4	4921.8	5961.7	6654.9	10536.9
139-1283	O	48	0.625	258.3	61.53	69.51	77.49	0.472	2.5	6199.9	1076.4	1291.6	1399.3	1108.4	1342.6	1498.7	2372.9
		1219.2	15.875	13888.6	300.42	339.38	378.33	12	64	846649	4787.9	5745.5	6224.3	4930.5	5972.1	6666.5	10555.3
142-1588	O	60	0.5	264.6	49.95	56.43	62.9	0.472	2.5	7939.2	1102.7	1323.2	1433.5	1135.5	1375.4	1535.3	2430.9
		1524	12.7	14227.9	243.89	275.51	307.12	12	64	1084168.8	4904.9	5885.9	6376.4	5050.9	6118	6829.4	10813.2
143-1436	O	54	0.562	265.1	55.82	63.05	70.28	0.472	2.5	7157.3	1104.5	1325.4	1435.9	1137.4	1377.7	1537.9	2435
		1371.6	14.288	14251.9	272.52	307.83	343.15	12	64	977396.2	4913.2	5895.8	6387.1	5059.4	6128.3	6840.9	10831.5
143-1131	O	42	0.75	265.4	72.89	82.32	91.76	0.472	2.5	5574	1105.9	1327.1	1437.7	1138.9	1379.5	1539.9	2438.1
		1066.8	19.05	14270.3	355.86	401.93	448.01	12	64	761177	4919.5	5903.4	6395.4	5066	6136.2	6849.7	10845.4
145-1334	O	50	0.625	270.1	61.63	69.61	77.59	0.472	2.5	6751.3	1125.2	1350.3	1462.8	1158.7	1403.5	1566.7	2480.6
		1270	15.875	14519	300.91	339.87	378.83	12	64	921956.5	5005.3	6006.3	6506.8	5154.2	6243.2	6969.1	11034.4
146-1080	O	40	0.812	271.1	78.49	88.65	98.8	0.472	2.5	5421.3	1129.4	1355.3	1468.3	1163.1	1408.8	1572.6	2489.9
		1016	20.638	14573.4	383.24	432.8	482.37	12	64	740326.9	5024	6028.8	6531.2	5173.5	6266.5	6995.2	11075.8
147-928	O	34	1	273	94.65	106.88	119.11	0.472	2.5	4641.5	1137.6	1365.1	1478.9	1171.5	1419	1584	2508
		863.6	25.4	14678.8	462.12	521.82	581.52	12	64	633832.5	5060.4	6072.4	6578.5	5211	6311.9	7045.8	11155.9
147-1029	O	38	0.875	274.2	84	94.86	105.71	0.472	2.5	5209.8	1142.5	1371	1485.3	1176.5	1425.1	1590.8	2518.7
		965.2	22.225	14742	410.12	463.13	516.14	12	64	711448.7	5082.1	6098.5	6606.8	5233.4	6339.1	7076.2	11203.9



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		in (mm)	in (mm)	in ³ /ft (cm ³ /m)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	in (mm)	in (mm)	in ⁴ /ft (cm ⁴ /m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	0	36	0.938	274.9	89.39	100.94	112.49	0.472	2.5	4947.3	1145.2	1374.2	1488.8	1179.3	1428.4	1594.5	2524.7
		914.4	23.812	14776.9	436.45	492.84	549.23	12	64	675597.9	5094.1	6113	6622.4	5245.8	6354	7092.9	11230.4
	0	56	0.562	275.7	55.88	63.11	70.35	0.472	2.5	7718.2	1148.5	1378.2	1493.1	1182.7	1432.6	1599.2	2532
		1422.4	14.288	14819.9	272.84	308.15	343.46	12	64	1053989.5	5109	6130.8	6641.7	5261.1	6372.5	7113.5	11263.1
	0	44	0.75	279.5	73.06	82.51	91.95	0.472	2.5	6148.3	1164.4	1397.3	1513.8	1199.1	1452.4	1621.3	2567.1
		1117.6	19.05	15025.1	356.72	402.83	448.94	12	64	839603.9	5179.7	6215.7	6733.6	5333.9	6460.8	7212.1	11419.1
	0	52	0.625	281.8	61.72	69.7	77.69	0.472	2.5	7326.3	1174.1	1408.9	1526.3	1209	1464.5	1634.8	2588.4
		1320.8	15.875	15149.6	301.36	340.33	379.3	12	64	1000476.6	5222.6	6267.1	6789.4	5378.1	6514.3	7271.8	11513.7
	0	48	0.688	283	67.46	76.18	84.9	0.472	2.5	6793.2	1179.4	1415.2	1533.2	1214.5	1471.1	1642.1	2600
		1219.2	17.462	15217.6	329.37	371.94	414.51	12	64	927665.2	5246.1	6295.3	6819.9	5402.2	6543.6	7304.5	11565.4
	0	42	0.812	286.3	78.71	88.88	99.04	0.472	2.5	6011.4	1192.7	1431.3	1550.6	1228.2	1487.7	1660.7	2629.5
		1066.8	20.638	15390.2	384.31	433.94	483.57	12	64	820913.5	5305.6	6366.7	6897.3	5463.5	6617.8	7387.3	11696.6
	0	40	0.875	290.5	84.27	95.15	106.02	0.472	2.5	5810.8	1210.6	1452.7	1573.8	1246.6	1510	1685.6	2668.8
		1016	22.225	15620.5	411.46	464.55	517.65	12	64	793522.2	5385	6462	7000.5	5545.3	6716.8	7497.8	11871.6
	0	36	1	291.6	95.06	107.32	119.58	0.472	2.5	5249.5	1215.2	1458.2	1579.7	1251.3	1515.7	1691.9	2678.9
		914.4	25.4	15679.4	464.14	524	583.85	12	64	716864.1	5405.3	6486.3	7026.9	5566.2	6742.2	7526.1	11916.4
	0	38	0.938	292.3	89.73	101.3	112.88	0.472	2.5	5554.3	1218	1461.7	1583.5	1254.3	1519.3	1696	2685.3
		965.2	23.812	15716.7	438.09	494.6	551.11	12	64	758487.2	5418.1	6501.8	7043.6	5579.4	6758.2	7544	11944.7
	0	54	0.625	293.5	61.81	69.79	77.77	0.472	2.5	7924.9	1223	1467.6	1589.9	1259.4	1525.5	1702.8	2696.1
		1371.6	15.875	15780.4	301.78	340.75	379.73	12	64	1082216.5	5440.1	6528.1	7072.1	5602	6785.6	7574.6	11993.1
	0	50	0.688	295.9	67.58	76.3	85.02	0.472	2.5	7398.5	1233.1	1479.7	1603	1269.8	1538.1	1716.9	2718.4
		1270	17.462	15910.8	329.95	372.54	415.13	12	64	1010337.3	5485.1	6582.1	7130.6	5648.3	6841.7	7637.2	12092.2
	0	60	0.562	296.8	56	63.23	70.46	0.472	2.5	8903.6	1236.6	1483.9	1607.6	1273.4	1542.5	1721.8	2726.2
		1524	14.288	15956.3	273.41	308.72	344.03	12	64	1215869	5500.7	6600.9	7151	5664.5	6861.2	7659	12126.8
	0	44	0.812	301.5	78.91	89.09	99.27	0.472	2.5	6632.1	1256.1	1507.3	1632.9	1293.5	1566.8	1748.9	2769.1
		1117.6	20.638	16207.6	385.29	434.98	484.66	12	64	905678.7	5587.4	6704.8	7263.6	5753.7	6969.3	7779.6	12317.7
	0	56	0.625	305.3	61.89	69.87	77.86	0.472	2.5	8547.1	1271.9	1526.3	1653.4	1309.7	1586.5	1770.9	2804
		1422.4	15.875	16411.4	302.17	341.15	380.13	12	64	1167175.7	5657.6	6789.1	7354.9	5826	7056.9	7877.5	12472.6

* Length of the intermediate section as percent of the outer section length(s), intermediate sheet pile length is typically 60% to 80% of the length of the outer sections or OZ®.



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in³/ft (cm³/m)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in (mm)	in (mm)	in⁴/ft (cm⁴/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
01 165-1131	O	42	0.875	306.9	84.52	95.41	106.3	0.472	2.5	6444.8	1278.7	1534.5	1662.4	1316.8	1595	1780.5	2819.1
02 1066.8		1066.8	22.225	16499.8	412.67	465.84	519.02	12	64	880098.2	5688.1	6825.7	7394.5	5857.4	7094.9	7919.9	12539.8
03 165-1283	O	48	0.75	307.6	73.37	82.83	92.29	0.472	2.5	7381.7	1281.5	1537.8	1666	1319.7	1598.5	1784.4	2825.3
04 1219.2		1219.2	19.05	16536	358.24	404.41	450.59	12	64	1008034.6	5700.6	6840.7	7410.8	5870.3	7110.5	7937.3	12567.4
05 166-1385	O	52	0.688	308.8	67.69	76.41	85.14	0.472	2.5	8029.9	1286.8	1544.2	1672.9	1325.1	1605.1	1791.7	2836.9
06 1320.8		1320.8	17.462	16604.3	330.48	373.09	415.69	12	64	1096548.2	5724.1	6869	7441.4	5894.5	7139.9	7970.1	12619.3
07 167-1080	O	40	0.938	309.8	90.03	101.63	113.22	0.472	2.5	6196.6	1291	1549.1	1678.2	1329.4	1610.2	1797.5	2846
08 1016		1016	23.812	16657.5	439.59	496.2	552.81	12	64	846199.1	5742.5	6890.9	7465.2	5913.4	7162.7	7995.6	12659.7
09 167-1029	O	38	1	310.3	95.44	107.73	120.01	0.472	2.5	5895.2	1292.8	1551.4	1680.6	1331.3	1612.5	1800.1	2850.1
10 965.2		965.2	25.4	16681.3	465.97	525.96	585.95	12	64	805039.8	5750.7	6900.8	7475.9	5921.9	7173	8007	12677.8
11 173-1334	O	50	0.75	321.6	73.51	82.97	92.44	0.472	2.5	8040.8	1340.1	1608.2	1742.2	1380	1671.6	1866	2954.4
12 1270		1270	19.05	17292	358.91	405.12	451.33	12	64	1098043.5	5961.2	7153.5	7749.6	6138.7	7435.6	8300.2	13141.9
13 173-1436	O	54	0.688	321.7	67.79	76.52	85.25	0.472	2.5	8687.1	1340.6	1608.7	1742.8	1380.5	1672.2	1866.6	2955.5
14 1371.6		1371.6	17.462	17298	330.98	373.6	416.22	12	64	1186298.4	5963.3	7155.9	7752.3	6140.8	7438.1	8303.1	13146.5
15 174-1182	O	44	0.875	323.3	84.75	95.65	106.56	0.472	2.5	7111.8	1346.9	1616.3	1751	1387	1680.1	1875.4	2969.4
16 1117.6		1117.6	22.225	17379.6	413.78	467.02	520.27	12	64	971174.7	5991.4	7189.7	7788.8	6169.8	7473.2	8342.2	13208.5
17 176-1131	O	42	0.938	327.3	90.31	101.93	113.54	0.472	2.5	6874.2	1363.9	1636.7	1773.1	1404.5	1701.3	1899.1	3006.9
18 1066.8		1066.8	23.812	17599.1	440.94	497.65	554.36	12	64	938733.6	6067.1	7280.5	7887.2	6247.7	7567.6	8447.5	13375.3
19 177-1588	O	60	0.625	328.7	62.03	70.02	78.01	0.472	2.5	9862	1369.7	1643.7	1780.6	1410.5	1708.5	1907.1	3019.6
20 1524		1524	15.875	17673.7	302.88	341.87	380.86	12	64	1346738	6092.8	7311.4	7920.6	6274.2	7599.7	8483.4	13432
21 177-1080	O	40	1	328.9	95.78	108.09	120.4	0.472	2.5	6578.6	1370.5	1644.6	1781.7	1411.3	1709.5	1908.3	3021.4
22 1016		1016	25.4	17684.2	467.62	527.74	587.86	12	64	898359.7	6096.4	7315.7	7925.4	6277.9	7604.2	8488.4	13440
23 178-1283	O	48	0.812	331.9	79.27	89.46	99.66	0.472	2.5	7965.5	1382.9	1659.5	1797.8	1424.1	1724.9	1925.5	3048.7
24 1219.2		1219.2	20.638	17843.8	387.02	436.8	486.58	12	64	1087757.2	6151.4	7381.7	7996.9	6334.5	7672.8	8565	13561.3
25 180-1486	O	56	0.688	334.6	67.88	76.62	85.35	0.472	2.5	9370.2	1394.4	1673.2	1812.7	1435.9	1739.2	1941.5	3074
26 1422.4		1422.4	17.462	17991.9	331.44	374.08	416.72	12	64	1279581.5	6202.5	7443	8063.2	6387.1	7736.5	8636.1	13673.8
27 181-1385	O	52	0.75	335.7	73.64	83.11	92.58	0.472	2.5	8728.2	1398.7	1678.5	1818.4	1440.4	1744.7	1947.6	3083.6
28 1320.8		1320.8	19.05	18048.3	359.53	405.77	452	12	64	1191912.2	6221.9	7466.3	8088.5	6407.2	7760.8	8663.2	13716.7



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in³/ft (cm³/m)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in (mm)	in (mm)	in⁴/ft (cm⁴/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
185-1182	O	44	0.938	344.9	90.57	102.2	113.83	0.472	2.5	7587.2	1437	1724.4	1868.1	1479.7	1792.4	2000.8	3167.9
		1117.6	23.812	18541.4	442.18	498.98	555.77	12	64	1036095.1	6391.9	7670.3	8309.5	6582.2	7972.8	8899.9	14091.5
187-1334	O	50	0.812	347.1	79.43	89.63	99.83	0.472	2.5	8678.1	1446.4	1735.6	1880.3	1489.4	1804.1	2013.8	3188.6
		1270	20.638	18662.6	387.79	437.61	487.43	12	64	1185075	6433.7	7720.4	8363.8	6625.2	8024.9	8958	14183.6
187-1131	O	42	1	347.6	96.09	108.42	120.76	0.472	2.5	7299.6	1448.3	1738	1882.8	1491.4	1806.5	2016.6	3193
		1066.8	25.4	18688.1	469.13	529.36	589.59	12	64	996824.7	6442.5	7731	8375.3	6634.3	8035.9	8970.3	14203
188-1436	O	54	0.75	349.8	73.76	83.23	92.71	0.472	2.5	9443.8	1457.4	1748.9	1894.6	1500.8	1817.8	2029.2	3212.9
		1371.6	19.05	18804.8	360.1	406.37	452.63	12	64	1289635	6482.7	7779.3	8427.6	6675.7	8086.1	9026.3	14291.7
189-1144	O	42.5	1	352.3	96.16	108.5	120.84	0.472	2.5	7485.7	1467.8	1761.4	1908.1	1511.5	1830.8	2043.7	3235.9
		1079.5	25.4	18939.2	469.48	529.74	590	12	64	1022244.9	6529.1	7834.9	8487.8	6723.4	8143.9	9090.8	14393.8
191-1283	O	48	0.875	356	85.15	96.08	107.01	0.472	2.5	8544.6	1483.4	1780.1	1928.5	1527.6	1850.3	2065.5	3270.3
		1219.2	22.225	19141.1	415.74	469.1	522.47	12	64	1166840.7	6598.7	7918.4	8578.3	6795.1	8230.7	9187.7	14547.2
194-1588	O	60	0.688	360.5	68.06	76.79	85.53	0.472	2.5	10814.2	1502	1802.4	1952.6	1546.7	1873.4	2091.3	3311.2
		1524	17.462	19380.3	332.28	374.94	417.61	12	64	1476775.8	6681.1	8017.3	8685.4	6880	8333.5	9302.5	14729
195-1385	O	52	0.812	362.4	79.57	89.78	100	0.472	2.5	9421.3	1509.8	1811.8	1962.8	1554.8	1883.2	2102.2	3328.5
		1320.8	20.638	19481.7	388.5	438.36	488.22	12	64	1286568.5	6716.1	8059.3	8730.9	6916	8377.1	9351.2	14806.1
196-1309	O	49	0.875	363.8	85.24	96.18	107.11	0.472	2.5	8913.9	1516	1819.2	1970.8	1561.1	1890.9	2110.8	3342.1
		1244.6	22.225	19560.9	416.18	469.57	522.97	12	64	1217276.3	6743.4	8092.1	8766.4	6944.1	8411.2	9389.2	14866.3
196-1486	O	56	0.75	363.8	73.87	83.35	92.83	0.472	2.5	10187.7	1516	1819.2	1970.8	1561.2	1891	2110.9	3342.2
		1422.4	19.05	19561.7	360.64	406.93	453.22	12	64	1391227.1	6743.7	8092.4	8766.7	6944.4	8411.5	9389.6	14866.9
197-1182	O	44	1	366.3	96.37	108.72	121.08	0.472	2.5	8058.3	1526.2	1831.4	1984	1571.6	1903.7	2125	3364.6
		1117.6	25.4	19692.8	470.5	530.84	591.17	12	64	1100431.6	6788.8	8146.6	8825.5	6990.9	8467.9	9452.5	14966.5
200-1334	O	50	0.875	372.4	85.33	96.27	107.21	0.472	2.5	9310.5	1551.8	1862.1	2017.3	1597.9	1935.5	2160.6	3420.9
		1270	22.225	20022.5	416.6	470.02	523.45	12	64	1271431.8	6902.5	8283	8973.3	7108	8609.7	9610.8	15217.1
203-1436	O	54	0.812	377.6	79.71	89.93	100.15	0.472	2.5	10195.2	1573.3	1888	2045.3	1620.2	1962.5	2190.6	3468.5
		1371.6	20.638	20301	389.16	439.06	488.96	12	64	1392240.2	6998.5	8398.2	9098.1	7206.8	8729.4	9744.5	15428.7
204-1283	O	48	0.938	380	91.01	102.68	114.34	0.472	2.5	9119	1583.2	1899.8	2058.1	1630.3	1974.7	2204.3	3490.2
		1219.2	23.812	20427.9	444.37	501.32	558.26	12	64	1245285.2	7042.3	8450.7	9155	7251.9	8784	9805.4	15525.2



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in³/ft (cm³/m)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in (mm)	in (mm)	in⁴/ft (cm⁴/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
204-1359	O	51	0.875	380.2	85.41	96.36	107.3	0.472	2.5	9695.4	1584.2	1901.1	2059.5	1631.4	1976	2205.8	3492.5
		1295.4	22.225	20441.5	417.01	470.46	523.91	12	64	1323998.5	7047	8456.4	9161.1	7256.7	8789.9	9811.9	15535.6
209-1385	O	52	0.875	388.8	85.49	96.44	107.4	0.472	2.5	10109.3	1620.1	1944.1	2106.1	1668.3	2020.8	2255.7	3571.6
		1320.8	22.225	20904.3	417.41	470.88	524.35	12	64	1380517	7206.5	8647.8	9368.4	7421	8988.8	10034	15887.2
211-1588	O	60	0.75	392	74.06	83.55	93.04	0.472	2.5	11760.4	1633.4	1960.1	2123.4	1682	2037.4	2274.3	3600.9
		1524	19.05	21075.9	361.61	407.95	454.28	12	64	1605982.4	7265.7	8718.8	9445.3	7481.9	9062.6	10116.4	16017.7
211-1486	O	56	0.812	392.8	79.83	90.06	100.29	0.472	2.5	10999.6	1636.9	1964.2	2127.9	1685.6	2041.7	2279.1	3608.6
		1422.4	20.638	21120.6	389.78	439.71	489.64	12	64	1502099	7281.1	8737.3	9465.4	7497.8	9081.9	10137.9	16051.7
213-1410	O	53	0.875	396.6	85.57	96.53	107.48	0.472	2.5	10509.9	1652.5	1983	2148.2	1701.7	2061.2	2300.9	3643.1
		1346.2	22.225	21322.5	417.79	471.28	524.78	12	64	1435219	7350.7	8820.8	9555.9	7569.5	9168.7	10234.8	16205.1
214-1334	O	50	0.938	397.5	91.21	102.89	114.57	0.472	2.5	9938	1656.3	1987.6	2153.2	1705.6	2066	2306.2	3651.5
		1270	23.812	21372	445.34	502.35	559.37	12	64	1357121.4	7367.7	8841.3	9578.1	7587.1	9190	10258.6	16242.7
217-1283	O	48	1	403.7	96.86	109.26	121.65	0.472	2.5	9688.8	1682.1	2018.5	2186.7	1732.2	2098.1	2342.1	3708.3
		1219.2	25.4	21704.3	472.93	533.44	593.96	12	64	1323093.5	7482.3	8978.7	9727	7705	9332.8	10418.1	16495.3
218-1436	O	54	0.875	405.2	85.64	96.61	107.57	0.472	2.5	10941.2	1688.5	2026.1	2195	1738.7	2106	2350.9	3722.3
		1371.6	22.225	21786.4	418.15	471.67	525.19	12	64	1494114	7510.6	9012.7	9763.8	7734.2	9368.2	10457.5	16557.7
222-1461	O	55	0.875	413	85.72	96.68	107.65	0.472	2.5	11357.3	1720.8	2065	2237	1772	2146.4	2396	3793.6
		1397	22.225	22203.8	418.5	472.05	525.59	12	64	1550938	7654.5	9185.4	9950.8	7882.4	9547.6	10657.8	16874.9
222-1309	O	49	1	413.1	96.98	109.38	121.78	0.472	2.5	10120	1721.1	2065.3	2237.4	1772.3	2146.8	2396.4	3794.3
		1244.6	25.4	22207.5	473.48	534.03	594.59	12	64	1381974.4	7655.8	9186.9	9952.5	7883.7	9549.2	10659.6	16877.7
223-1385	O	52	0.938	415.1	91.4	103.09	114.78	0.472	2.5	10792.3	1729.5	2075.4	2248.4	1781	2157.3	2408.1	3812.9
		1320.8	23.812	22316.5	446.24	503.31	560.39	12	64	1473779.6	7693.3	9232	10001.3	7922.3	9596.1	10711.9	16960.5
227-1486	O	56	0.875	421.6	85.79	96.76	107.73	0.472	2.5	11806	1756.8	2108.2	2283.9	1809.1	2191.4	2446.2	3873.1
		1422.4	22.225	22668.9	418.85	472.41	525.97	12	64	1612210.7	7814.8	9377.8	10159.3	8047.5	9747.6	10881.1	17228.3
227-1334	O	50	1	422.4	97.08	109.49	121.91	0.472	2.5	10560.6	1760.1	2112.1	2288.1	1812.5	2195.4	2450.7	3880.3
		1270	25.4	22710.9	474	534.6	595.19	12	64	1442141.9	7829.3	9395.2	10178.1	8062.4	9765.7	10901.2	17260.3
228-1588	O	60	0.812	423.3	80.06	90.3	100.54	0.472	2.5	12700.4	1764	2116.7	2293.1	1816.5	2200.2	2456.1	3888.8
		1524	20.638	22760.6	390.89	440.88	490.87	12	64	1734357.7	7846.4	9415.7	10200.4	8080	9787.1	10925.1	17298.1



Hot rolled and 100% melted and manufactured
in the USA and BABA2021 Compliant

O-Pile®

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BALL & SOCKET
HOT ROLLED / MULTI-USE

Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)		lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)				k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
232-1359	O	51	1	431.8	97.19	109.61	122.02	0.472	2.5	11010.6	1799.1	2158.9	2338.9	1852.7	2244.1	2505	3966.3
		1295.4	25.4	23214.4	474.51	535.14	595.78	12	64	1503596.1	8002.9	9603.4	10403.7	8241.1	9982.2	11142.9	17642.9
233-1436	O	54	0.938	432.7	91.57	103.27	114.97	0.472	2.5	11681.8	1802.8	2163.3	2343.6	1856.4	2248.6	2510.1	3974.3
		1371.6	23.812	23261.2	447.07	504.21	561.34	12	64	1595256.3	8019	9622.8	10424.7	8257.7	10002.3	11165.4	17678.5
237-1385	O	52	1	441.2	97.29	109.71	122.14	0.472	2.5	11470	1838.1	2205.8	2389.6	1892.9	2292.8	2559.4	4052.3
		1320.8	25.4	23718	475	535.67	596.34	12	64	1566336.9	8176.5	9811.8	10629.4	8419.9	10198.7	11384.6	18025.7
242-1486	O	56	0.938	450.2	91.73	103.44	115.15	0.472	2.5	12606.8	1876	2251.2	2438.8	1931.9	2340	2612.1	4135.8
		1422.4	23.812	24206.5	447.85	505.04	562.23	12	64	1721568.9	8344.9	10013.9	10848.4	8593.3	10408.8	11619.1	18397
242-1410	O	53	1	450.5	97.38	109.82	122.25	0.472	2.5	11938.9	1877.2	2252.6	2440.3	1933.1	2341.5	2613.7	4138.4
		1346.2	25.4	24221.7	475.47	536.17	596.88	12	64	1630364.3	8350.1	10020.2	10855.2	8598.7	10415.3	11626.4	18408.5
244-1588	O	60	0.875	454.5	86.04	97.03	108.02	0.472	2.5	13634.6	1893.7	2272.4	2461.8	1950.1	2362	2636.7	4174.8
		1524	22.225	24434.7	420.1	473.75	527.39	12	64	1861920.7	8423.6	10108.2	10950.6	8674.3	10506.9	11728.6	18570.3
247-1436	O	54	1	459.9	97.48	109.92	122.36	0.472	2.5	12417.2	1916.2	2299.5	2491.1	1973.3	2390.2	2668.1	4224.5
		1371.6	25.4	24725.6	475.92	536.66	597.4	12	64	1695678.4	8523.8	10228.6	11081	8777.6	10632	11868.3	18791.4
252-1461	O	55	1	469.3	97.57	110.01	122.46	0.472	2.5	12904.9	1955.3	2346.3	2541.9	2013.5	2438.9	2722.5	4310.6
		1397	25.4	25229.5	476.36	537.13	597.91	12	64	1762279.2	8697.6	10437.1	11306.8	8956.5	10848.7	12110.2	19174.4
257-1486	O	56	1	478.6	97.65	110.11	122.56	0.472	2.5	13402	1994.4	2393.2	2592.7	2053.7	2487.6	2776.9	4396.7
		1422.4	25.4	25733.5	476.78	537.59	598.39	12	64	1830166.8	8871.3	10645.6	11532.7	9135.4	11065.4	12352.1	19557.5
261-1588	O	60	0.938	485.4	92.01	103.75	115.48	0.472	2.5	14562.6	2022.6	2427.1	2629.4	2082.8	2522.8	2816.2	4458.9
		1524	23.812	26097.9	449.25	506.54	563.83	12	64	1988658.7	8996.9	10796.3	11696	9264.7	11222.1	12527	19834.4
278-1588	O	60	1	516.2	97.97	110.45	122.93	0.472	2.5	15484.8	2150.7	2580.8	2795.9	2214.7	2682.6	2994.5	4741.3
		1524	25.4	27750.5	478.34	539.26	600.19	12	64	2114584.4	9566.6	11479.9	12436.6	9851.4	11932.7	13320.2	21090.3

Specifications

When using steel sheet pile, it is necessary to make allowances for deviations from theoretical exactness. The degree of precision obtainable in the production of sheet pile is limited by the basic character of the rolling processes and normal limitations of mill equipment. Care must be taken during installation to assure that each element is being set at the desired driving dimension.

- Dimensions typically shown are nominal.
- Actual thicknesses vary due to mill rolling practices; however, permitted variations for such dimensions are not addressed.
- Interlocks should be reasonably free-sliding when threaded.
- Terms, tolerance, dimensions, and delivery conditions are in accordance with EN 10248 and/or ASTM A6.
- Welding is in accordance with AWS D1.1.

	AMERICAN ASTM A 6		EUROPEAN EN 10248
Mass	5%	-2.5%	± 5%
Length	+ 5in.	-0 in.	± 200mm
Height			± 7mm
Thickness			± 0.5mm for ≤ 8.5mm ± 6% for > 8.5mm
Width Interlocked			± 3%
Straightness			0.2% of the length
Ends ou of Square			2% of the width

Available Steel Grades

AMERICAN			CANADIAN			EUROPEAN		
ASTM	YIELD STRENGTH		CSA G40.21	YIELD STRENGTH		EN 10248	YIELD STRENGTH	
	(ksi)	(MPa)		(ksi)	(MPa)		(ksi)	(MPa)
A 328	39	270	Grade 260 W	38	260	S 240 GP	35	240
A 572 Grade 42	42	290	Grade 300 W	44	300	S 270 GP	39	270
A 572 Grade 50	50	345	Grade 355 W	50	350	S 320 GP	46	320
A 572 Grade 55	55	380	Grade 400 W	58	400	S 355 GP	51	355
A 572 Grade 60	60	415				S 390 GP	57	390
A 572 Grade 65*	65	450				S 430 GP	62	430
A 588 Grade 50	50	345				S 450 GP*	65	450
API 5L x70	70	485						
ASTM A 690 MARINER®	50	345						

ENGINEERING DISCLAIMER

This publication contains information on the properties of hot-rolled sheet pile based on accepted engineering practices related to sheet pile products and projects. The use of the data contained herein must be supplemented with qualified professional judgment.

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