

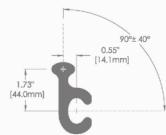
BALL & SOCKET
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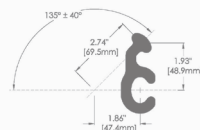
PilePro® Sheet Pile Connectors



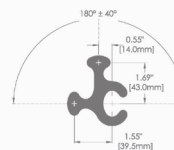
PZ 90



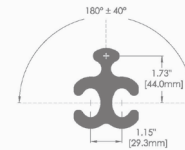
Colt



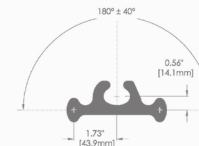
Cobra



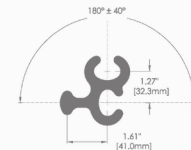
PZ Tee



Joker



Bullhead



PZT-S

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



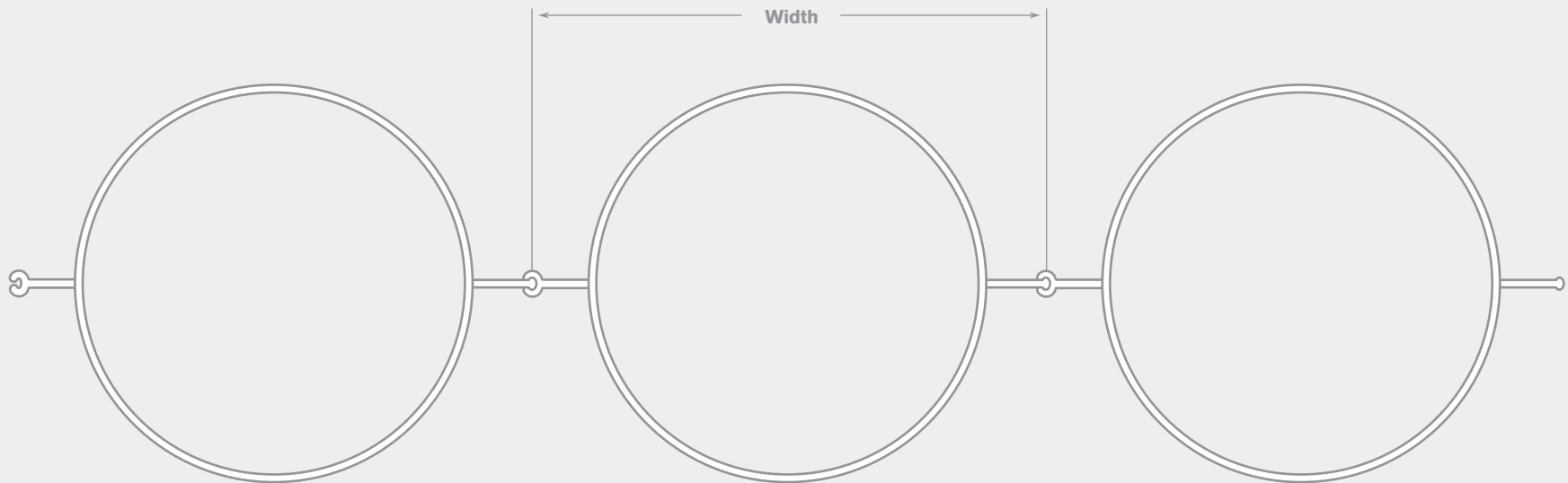
Hot rolled and 100% melted and manufactured
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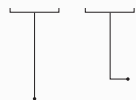


W: 267mm (10.5in)



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)
24-775	O	20	0.375	43.8	30.26	35.19	40.12	0.472	10.5	437.9	182.5	219	237.2	187.9	227.6	254.1	402.3
		508	9.525	2354.4	147.76	171.83	195.9	12	267	59801.5	811.6	974	1055.1	835.8	1012.4	1130.1	1789.3
25-775	O	20	0.394	45.8	31.47	36.55	41.64	0.472	10.5	458.5	191	229.2	248.3	196.7	238.3	266	421.1
		508	10	2464.8	153.67	178.48	203.29	12	267	62606.8	849.7	1019.7	1104.6	875	1059.9	1183.1	1873.3
27-826	O	22	0.375	49.9	30.77	35.69	40.62	0.472	10.5	548.5	207.8	249.3	270.1	213.9	259.1	289.3	458
		558.8	9.525	2680.7	150.23	174.27	198.3	12	267	74897.5	924.1	1108.9	1201.4	951.6	1152.7	1286.7	2037.3
27-775	O	20	0.438	50.6	34.3	39.73	45.17	0.472	10.5	506.1	210.9	253.1	274.1	217.2	263	293.6	464.9
		508	11.112	2721	167.46	193.99	220.52	12	267	69113.3	938	1125.6	1219.4	966	1170	1306.1	2068
28-826	O	22	0.394	52.3	32.02	37.1	42.18	0.472	10.5	575.8	218.1	261.7	283.5	224.6	272	303.7	480.8
		558.8	10	2814.1	156.35	181.15	205.95	12	267	78627	970.1	1164.2	1261.2	999	1210.1	1350.8	2138.7
29-775	O	20	0.472	54.4	36.54	42.26	47.97	0.472	10.5	543.6	226.5	271.8	294.5	233.3	282.5	315.4	499.4
		508	12	2922.8	178.41	206.31	234.22	12	267	74240.1	1007.6	1209.1	1309.9	1037.6	1256.8	1403	2221.4
30-877	O	24	0.375	56.3	31.22	36.13	41.05	0.472	10.5	675.4	234.5	281.4	304.8	241.5	292.5	326.5	517
		609.6	9.525	3025.8	152.41	176.42	200.42	12	267	92225.2	1043.1	1251.7	1356	1074.1	1301.1	1452.4	2299.6
31-775	O	20	0.5	57.3	38.31	44.24	50.18	0.472	10.5	573	238.7	286.5	310.4	245.8	297.8	332.4	526.3
		508	12.7	3080.5	187.02	216	244.98	12	267	78244.2	1062	1274.3	1380.5	1093.6	1324.6	1478.6	2341.2
32-877	O	24	0.394	58.9	32.51	37.59	42.66	0.472	10.5	707.4	245.6	294.7	319.3	252.9	306.4	342	541.5
		609.6	10	3169.2	158.72	183.52	208.31	12	267	96597.1	1092.5	1311	1420.3	1125.1	1362.8	1521.2	2408.6
33-826	O	22	0.472	62.1	37.28	43.01	48.75	0.472	10.5	683.5	258.9	310.7	336.6	266.6	322.9	360.5	570.8
		558.8	12	3340.7	182	210.01	238.01	12	267	93338.5	1151.7	1382	1497.2	1185.9	1436.5	1603.5	2538.9
34-775	O	20	0.562	63.9	42.29	48.72	55.15	0.472	10.5	638.5	266.1	319.3	345.9	274	331.9	370.4	586.5
		508	14.288	3432.9	206.46	237.87	269.28	12	267	87196.8	1183.5	1420.2	1538.5	1218.7	1476.2	1647.8	2609
35-877	O	24	0.438	65.1	35.53	40.98	46.44	0.472	10.5	781.7	271.4	325.7	352.9	279.5	338.6	377.9	598.4
		609.6	11.112	3502.4	173.46	200.09	226.73	12	267	106754.3	1207.4	1448.9	1569.6	1243.4	1506	1681.2	2661.9
35-826	O	22	0.5	65.5	39.11	45.07	51.04	0.472	10.5	720.6	273	327.6	354.9	281.1	340.5	380.1	601.8
		558.8	12.7	3522.2	190.93	220.06	249.18	12	267	98410.2	1214.2	1457.1	1578.5	1250.4	1514.5	1690.7	2676.9
37-978	O	28	0.375	69.1	31.97	36.88	41.78	0.472	10.5	967.5	288	345.5	374.3	296.5	359.2	400.9	634.8
		711.2	9.525	3715.6	156.1	180.05	204	12	267	132125.3	1280.9	1537.1	1665.2	1319	1597.7	1783.5	2823.8



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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)
38-877	O	24	0.472	70	37.93	43.68	49.44	0.472	10.5	840.5	291.8	350.2	379.4	300.5	364	406.3	643.4
		609.6	12	3765.6	185.17	213.27	241.37	12	267	114775.3	1298.1	1557.8	1687.6	1336.8	1619.2	1807.5	2861.9
38-775	O	20	0.625	70.3	46.24	53.17	60.1	0.472	10.5	702.8	292.8	351.4	380.7	301.5	365.3	407.7	645.6
		508	15.875	3778.5	225.77	259.6	293.42	12	267	95973.2	1302.6	1563.1	1693.4	1341.4	1624.7	1813.7	2871.6
39-978	O	28	0.394	72.4	33.33	38.4	43.48	0.472	10.5	1013.7	301.7	362	392.2	310.7	376.3	420.1	665.1
		711.2	10	3893	162.73	187.51	212.29	12	267	138434.9	1342.1	1610.5	1744.7	1382	1674	1868.6	2958.7
40-877	O	24	0.5	73.9	39.81	45.8	51.8	0.472	10.5	886.4	307.8	369.3	400.1	316.9	383.9	428.6	678.5
		609.6	12.7	3971.4	194.39	223.64	252.89	12	267	121049.5	1369.1	1642.9	1779.8	1409.9	1707.7	1906.3	3018.3
41-1029	O	30	0.375	75.6	32.29	37.19	42.1	0.472	10.5	1134.3	315.1	378.1	409.6	324.5	393	438.7	694.6
		762	9.525	4065.7	157.67	181.6	205.53	12	267	154901.8	1401.6	1681.9	1822.1	1443.3	1748.2	1951.5	3089.9
43-1029	O	30	0.394	79.2	33.68	38.75	43.83	0.472	10.5	1188.7	330.2	396.2	429.2	340	411.8	459.7	727.9
		762	10	4260.4	164.43	189.21	213.98	12	267	162320.7	1468.7	1762.5	1909.3	1512.4	1832	2045	3237.9
43-978	O	28	0.438	80.1	36.5	41.97	47.44	0.472	10.5	1121.2	333.7	400.4	433.8	343.6	416.2	464.6	735.7
		711.2	11.112	4305.8	178.21	204.93	231.64	12	267	153112.9	1484.4	1781.2	1929.7	1528.5	1851.5	2066.8	3272.4
43-826	O	22	0.625	80.6	47.34	54.34	61.33	0.472	10.5	886.7	335.9	403.1	436.6	345.9	419	467.7	740.5
		558.8	15.875	4334	231.15	265.3	299.45	12	267	121091.6	1494.1	1792.9	1942.3	1538.6	1863.6	2080.3	3293.8
44-1080	O	32	0.375	82.2	32.59	37.48	42.38	0.472	10.5	1315	342.4	410.9	445.2	352.6	427.1	476.8	754.9
		812.8	9.525	4418.6	159.1	183	206.91	12	267	179570.3	1523.2	1827.9	1980.2	1568.6	1900	2120.9	3358.1
44-877	O	24	0.562	82.5	44.08	50.6	57.13	0.472	10.5	989.4	343.5	412.3	446.6	353.8	428.5	478.3	757.4
		609.6	14.288	4432.9	215.2	247.06	278.91	12	267	135114.1	1528.2	1833.8	1986.6	1573.7	1906.1	2127.8	3369
45-775	O	20	0.75	82.8	54.07	61.98	69.89	0.472	10.5	827.5	344.8	413.8	448.2	355.1	430.1	480.1	760.1
		508	19.05	4449.1	264.01	302.61	341.22	12	267	113007	1533.8	1840.5	1993.9	1579.4	1913.1	2135.6	3381.3
46-1080	O	32	0.394	86.1	34	39.07	44.14	0.472	10.5	1378.1	358.9	430.7	466.5	369.6	447.6	499.7	791.2
		812.8	10	4630.8	165.98	190.75	215.52	12	267	188194.1	1596.4	1915.7	2075.3	1643.9	1991.2	2222.8	3519.4
46-978	O	28	0.472	86.2	39.02	44.81	50.6	0.472	10.5	1206.2	359	430.8	466.7	369.7	447.8	499.8	791.4
		711.2	12	4632.2	190.53	218.78	247.04	12	267	164719.9	1596.9	1916.3	2075.9	1644.4	1991.8	2223.4	3520.4
47-1029	O	30	0.438	87.7	36.92	42.39	47.87	0.472	10.5	1315.1	365.3	438.4	474.9	376.2	455.7	508.6	805.3
		762	11.112	4713.6	180.24	206.99	233.74	12	267	179587.9	1625	1949.9	2112.4	1673.3	2026.8	2262.5	3582.3



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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)	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 48-1131	O	34	0.375	88.8	32.85	37.74	42.64	0.472	10.5	1509.5	370	444	481	381	461.5	515.1	815.6
02		863.6	9.525	4773.9	160.39	184.28	208.17	12	267	206138.3	1645.8	1974.9	2139.5	1694.7	2052.8	2291.5	3628.2
03 49-877	O	24	0.625	90.9	48.32	55.37	62.43	0.472	10.5	1090.7	378.7	454.5	492.3	390	472.4	527.3	834.9
04		609.6	15.875	4886.8	235.91	270.35	304.79	12	267	148949.3	1684.7	2021.6	2190.1	1734.8	2101.3	2345.7	3714
05 49-978	O	28	0.5	90.9	41.01	47.04	53.08	0.472	10.5	1272.8	378.8	454.6	492.4	390.1	472.5	527.4	835.1
06		711.2	12.7	4887.8	200.22	229.69	259.15	12	267	173811.1	1685	2022	2190.5	1735.2	2101.8	2346.2	3714.7
07 50-1131	O	34	0.394	93.1	34.28	39.36	44.43	0.472	10.5	1582.2	387.8	465.3	504.1	399.3	483.7	539.9	854.9
08		863.6	10	5003.7	167.39	192.15	216.91	12	267	216059.6	1725	2070	2242.5	1776.3	2151.6	2401.8	3802.8
09 51-1029	O	30	0.472	94.3	39.49	45.29	51.09	0.472	10.5	1415.1	393.1	471.7	511	404.8	490.3	547.3	866.6
10		762	12	5072.2	192.81	221.13	249.45	12	267	193250.7	1748.6	2098.3	2273.2	1800.6	2181	2434.7	3854.9
11 51-826	O	22	0.75	94.9	55.48	63.49	71.51	0.472	10.5	1044.4	395.6	474.7	514.3	407.4	493.5	550.8	872.2
12		558.8	19.05	5104.7	270.89	310.01	349.13	12	267	142626	1759.8	2111.7	2287.7	1812.2	2195	2450.3	3879.6
13 51-1080	O	32	0.438	95.3	37.29	42.78	48.26	0.472	10.5	1525.1	397.2	476.6	516.3	409	495.4	553	875.6
14		812.8	11.112	5124.8	182.07	208.85	235.63	12	267	208270.1	1766.7	2120	2296.7	1819.3	2203.6	2459.9	3894.8
15 51-1181	O	36	0.375	95.4	33.09	37.98	42.87	0.472	10.5	1718	397.7	477.2	517	409.5	496	553.7	876.7
16		914.4	9.525	5131.4	161.57	185.45	209.32	12	267	234607.2	1769	2122.8	2299.7	1821.6	2206.5	2463.1	3899.9
17 53-877	O	24	0.688	99.2	52.53	60.12	67.7	0.472	10.5	1190.4	413.3	496	537.3	425.6	515.6	575.5	911.2
18		609.6	17.462	5333.3	256.5	293.51	330.52	12	267	162558.7	1838.6	2206.3	2390.2	1893.3	2293.3	2560	4053.3
19 54-1029	O	30	0.5	99.6	41.52	47.57	53.63	0.472	10.5	1493.5	414.9	497.8	539.3	427.2	517.5	577.7	914.6
20		762	12.7	5353.2	202.71	232.26	261.82	12	267	203957.2	1845.5	2214.5	2399.1	1900.4	2301.9	2569.5	4068.4
21 54-1181	O	36	0.394	100	34.55	39.62	44.69	0.472	10.5	1800.8	416.9	500.2	541.9	429.3	520	580.4	919
22		914.4	10	5378.9	168.67	193.43	218.19	12	267	245921.8	1854.3	2225.2	2410.6	1909.5	2312.9	2581.9	4087.9
23 55-978	O	28	0.562	101.6	45.5	52.09	58.69	0.472	10.5	1422.3	423.3	508	550.3	435.9	528	589.4	933.2
24		711.2	14.288	5461.9	222.13	254.33	286.54	12	267	194225.1	1882.9	2259.5	2447.8	1939	2348.6	2621.7	4151
25 55-1232	O	38	0.375	102.1	33.32	38.2	43.09	0.472	10.5	1940.4	425.5	510.6	553.2	438.2	530.8	592.5	938.1
26		965.2	9.525	5490.7	162.66	186.52	210.37	12	267	264983	1892.9	2271.4	2460.7	1949.2	2361	2635.6	4173
27 55-1080	O	32	0.472	102.6	39.91	45.73	51.54	0.472	10.5	1641.5	427.5	513	555.7	440.2	533.2	595.2	942.4
28		812.8	12	5515.9	194.88	223.26	251.64	12	267	224164.7	1901.5	2281.8	2472	1958.1	2371.8	2647.6	4192.1



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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)	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)
55-1131	O	34	0.438	103	37.63	43.12	48.61	0.472	10.5	1751.4	429.3	515.1	558	442	535.4	597.7	946.3
		863.6	11.112	5538.8	183.74	210.55	237.36	12	267	239166.8	1909.4	2291.3	2482.3	1966.3	2381.7	2658.6	4209.5
58-1232	O	38	0.394	107.1	34.79	39.86	44.93	0.472	10.5	2034.2	446.1	535.3	579.9	459.4	556.4	621.1	983.4
		965.2	10	5756	169.85	194.61	219.36	12	267	277785.3	1984.3	2381.2	2579.6	2043.4	2475.1	2762.9	4374.6
58-877	O	24	0.75	107.4	56.73	64.83	72.94	0.472	10.5	1288.4	447.4	536.8	581.6	460.7	558	622.9	986.3
		609.6	19.05	5772.5	276.97	316.55	356.12	12	267	175944.6	1990	2388	2587	2049.2	2482.2	2770.8	4387.1
58-1080	O	32	0.5	108.3	41.98	48.05	54.12	0.472	10.5	1732.8	451.2	541.5	586.6	464.7	562.8	628.3	994.8
		812.8	12.7	5822.5	204.96	234.6	264.24	12	267	236626.2	2007.2	2408.7	2609.4	2067	2503.7	2794.8	4425.1
59-1283	O	40	0.375	108.8	33.52	38.4	43.29	0.472	10.5	2176.8	453.5	544.2	589.6	467	565.7	631.4	999.8
		1016	9.525	5851.7	163.66	187.5	211.34	12	267	297266.6	2017.3	2420.8	2622.5	2077.4	2516.2	2808.8	4447.3
60-1181	O	36	0.438	110.8	37.95	43.44	48.94	0.472	10.5	1993.9	461.5	553.9	600	475.3	575.7	642.6	1017.5
		914.4	11.112	5955.4	185.27	212.1	238.94	12	267	272282	2053.1	2463.7	2669	2114.2	2560.8	2858.6	4526.1
60-1131	O	34	0.472	110.9	40.3	46.12	51.95	0.472	10.5	1885.4	462.1	554.5	600.7	475.9	576.4	643.4	1018.8
		863.6	12	5962.7	196.76	225.19	253.63	12	267	257469.5	2055.6	2466.7	2672.2	2116.8	2564	2862.1	4531.7
60-1029	O	30	0.562	111.3	46.1	52.73	59.35	0.472	10.5	1669.7	463.8	556.6	603	477.6	578.5	645.8	1022.5
		762	14.288	5984.6	225.08	257.43	289.79	12	267	228014.6	2063.1	2475.8	2682.1	2124.5	2573.4	2872.6	4548.3
60-978	O	28	0.625	112.1	49.96	57.12	64.27	0.472	10.5	1569.7	467.2	560.6	607.3	481.1	582.7	650.5	1029.9
		711.2	15.875	6028	243.93	278.86	313.79	12	267	214356	2078.1	2493.7	2701.5	2139.9	2592	2893.4	4581.3
61-1283	O	40	0.394	114.1	35.01	40.08	45.15	0.472	10.5	2282.2	475.5	570.5	618.1	489.6	593	662	1048.2
		1016	10	6134.9	170.94	195.69	220.44	12	267	311652.4	2114.9	2537.9	2749.4	2177.9	2638	2944.7	4662.5
62-877	O	24	0.812	115.4	60.9	69.53	78.15	0.472	10.5	1384.8	480.8	577	625.1	495.2	599.8	669.5	1060
		609.6	20.638	6204.4	297.33	339.45	381.57	12	267	189109.1	2138.9	2566.7	2780.5	2202.5	2667.9	2978.1	4715.3
62-1334	O	42	0.375	115.6	33.71	38.59	43.47	0.472	10.5	2427.2	481.6	577.9	626.1	495.9	600.7	670.6	1061.7
		1066.8	9.525	6214.1	164.59	188.41	212.24	12	267	331462	2142.2	2570.7	2784.9	2206	2672.1	2982.8	4722.7
63-1131	O	34	0.5	117.1	42.4	48.48	54.57	0.472	10.5	1990.5	487.9	585.4	634.2	502.4	608.5	679.3	1075.6
		863.6	12.7	6295.1	207.01	236.72	266.44	12	267	271823.8	2170.2	2604.2	2821.2	2234.8	2706.9	3021.7	4784.3
64-1232	O	38	0.438	118.6	38.23	43.73	49.23	0.472	10.5	2252.7	494	592.8	642.2	508.7	616.2	687.8	1089.1
		965.2	11.112	6374.2	186.67	213.53	240.38	12	267	307619.7	2197.4	2636.9	2856.7	2262.8	2740.9	3059.6	4844.4



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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)
64-1181	O	36	0.472	119.3	40.65	46.49	52.32	0.472	10.5	2146.8	497	596.3	646	511.7	619.9	691.9	1095.6
		914.4	12	6412.3	198.48	226.96	255.45	12	267	293169.1	2210.6	2652.7	2873.7	2276.4	2757.3	3077.9	4873.3
64-927	O	26	0.75	119.7	57.84	66.03	74.21	0.472	10.5	1555.9	498.7	598.4	648.3	513.5	622	694.4	1099.4
		660.4	19.05	6434.8	282.39	322.37	362.35	12	267	212478.1	2218.3	2662	2883.8	2284.4	2767	3088.7	4890.5
65-1080	O	32	0.562	121.1	46.65	53.3	59.96	0.472	10.5	1937.9	504.7	605.6	656.1	519.7	629.5	702.7	1112.6
		812.8	14.288	6511.8	227.75	260.24	292.73	12	267	264640.7	2244.9	2693.8	2918.3	2311.7	2800.1	3125.7	4949
65-1334	O	42	0.394	121.2	35.22	40.29	45.35	0.472	10.5	2544.9	504.9	605.9	656.4	520	629.8	703.1	1113.2
		1066.8	10	6515.3	171.94	196.69	221.44	12	267	347525.1	2246.1	2695.3	2919.9	2312.9	2801.6	3127.3	4951.6
66-1385	O	44	0.375	122.3	33.89	38.76	43.64	0.472	10.5	2691.7	509.8	611.7	662.7	525	635.9	709.8	1123.9
		1117.6	9.525	6577.8	165.44	189.26	213.07	12	267	367569.7	2267.6	2721.2	2947.9	2335.1	2828.5	3157.4	4999.2
66-978	O	28	0.688	122.5	54.41	62.12	69.83	0.472	10.5	1715.1	510.4	612.5	663.6	525.6	636.7	710.7	1125.3
		711.2	17.462	6586.2	265.64	303.28	340.92	12	267	234206.7	2270.5	2724.6	2951.7	2338.1	2832.1	3161.4	5005.5
66-1029	O	30	0.625	122.9	50.66	57.86	65.06	0.472	10.5	1843.6	512.1	614.5	665.7	527.4	638.8	713	1129
		762	15.875	6607.9	247.35	282.49	317.63	12	267	251761.9	2278	2733.6	2961.4	2345.8	2841.4	3171.8	5022
66-877	O	24	0.875	123.3	65.05	74.19	83.34	0.472	10.5	1479.6	513.8	616.5	667.9	529	640.8	715.3	1132.6
		609.6	22.225	6629.1	317.58	362.23	406.88	12	267	202054.5	2285.3	2742.4	2970.9	2353.3	2850.5	3182	5038.1
68-1181	O	36	0.5	125.9	42.78	48.88	54.98	0.472	10.5	2266.8	524.7	629.7	682.1	540.3	654.5	730.6	1156.8
		914.4	12.7	6770.7	208.88	238.66	268.45	12	267	309555.6	2334.1	2800.9	3034.3	2403.6	2911.4	3249.9	5145.7
68-1283	O	40	0.438	126.4	38.5	44	49.51	0.472	10.5	2527.7	526.6	631.9	684.6	542.3	656.9	733.2	1161
		1016	11.112	6795	187.96	214.84	241.72	12	267	345183.9	2342.5	2811	3045.2	2412.2	2921.8	3261.6	5164.2
68-889	O	24.5	0.875	126.9	65.4	74.57	83.75	0.472	10.5	1555.1	528.9	634.7	687.6	544.7	659.7	736.5	1166.1
		622.3	22.225	6824.9	319.31	364.1	408.9	12	267	212356.4	2352.8	2823.4	3058.6	2422.8	2934.7	3275.9	5186.9
69-1232	O	38	0.472	127.7	40.97	46.82	52.66	0.472	10.5	2425.8	532	638.4	691.6	547.8	663.6	740.7	1172.8
		965.2	12	6864.3	200.06	228.59	257.12	12	267	331269.3	2366.4	2839.6	3076.3	2436.8	2951.6	3294.8	5216.8
69-1385	O	44	0.394	128.3	35.41	40.48	45.54	0.472	10.5	2822.3	534.5	641.4	694.9	550.4	666.7	744.2	1178.4
		1117.6	10	6897.1	172.87	197.62	222.36	12	267	385407.3	2377.7	2853.2	3091	2448.5	2965.7	3310.6	5241.8
70-1131	O	34	0.562	131	47.15	53.82	60.5	0.472	10.5	2227	545.8	655	709.6	562.1	680.8	760	1203.3
		863.6	14.288	7042.9	230.18	262.8	295.41	12	267	304111.1	2427.9	2913.5	3156.3	2500.2	3028.4	3380.6	5352.6



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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)	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)
71-877	O	24	0.938	131.1	69.17	78.83	88.49	0.472	10.5	1572.8	546.1	655.3	710	562.4	681.2	760.4	1204
		609.6	23.812	7046.7	337.72	384.89	432.05	12	267	214783.3	2429.3	2915.1	3158	2501.6	3030.1	3382.4	5355.5
71-978	O	28	0.75	132.7	58.83	67.09	75.36	0.472	10.5	1858.4	553.1	663.7	719	569.6	689.9	770.1	1219.3
		711.2	19.05	7136.7	287.24	327.58	367.93	12	267	253779.4	2460.3	2952.3	3198.4	2533.5	3068.8	3425.6	5423.9
72-1080	O	32	0.625	133.8	51.3	58.53	65.77	0.472	10.5	2140.6	557.4	668.9	724.7	574	695.3	776.2	1228.9
		812.8	15.875	7192.9	250.45	285.78	321.11	12	267	292318	2479.7	2975.6	3223.5	2553.5	3092.9	3452.6	5466.6
72-1334	O	42	0.438	134.2	38.74	44.25	49.76	0.472	10.5	2819.1	559.4	671.2	727.2	576	697.7	778.8	1233.1
		1066.8	11.112	7217.4	189.15	216.05	242.95	12	267	384977.5	2488.1	2985.7	3234.6	2562.2	3103.5	3464.4	5485.2
72-1029	O	30	0.688	134.4	55.2	62.97	70.73	0.472	10.5	2015.3	559.8	671.8	727.7	576.5	698.2	779.4	1234.1
		762	17.462	7223.1	269.53	307.44	345.35	12	267	275201.2	2490.1	2988.1	3237.1	2564.2	3105.9	3467.1	5489.6
73-1232	O	38	0.5	134.8	43.13	49.25	55.36	0.472	10.5	2561.7	561.8	674.1	730.3	578.5	700.7	782.2	1238.5
		965.2	12.7	7248.8	210.6	240.45	270.29	12	267	349828	2498.9	2998.7	3248.6	2573.3	3117	3479.4	5509.1
73-1486	O	48	0.375	135.9	34.2	39.07	43.95	0.472	10.5	3262.6	566.4	679.7	736.3	583.3	706.5	788.7	1248.7
		1219.2	9.525	7308.6	166.98	190.77	214.57	12	267	445533.6	2519.6	3023.5	3275.4	2594.6	3142.7	3508.1	5554.6
73-1283	O	40	0.472	136.1	41.27	47.12	52.98	0.472	10.5	2722.4	567.2	680.6	737.3	584.1	707.5	789.7	1250.4
		1016	12	7318.4	201.51	230.08	258.66	12	267	371773.2	2522.9	3027.5	3279.8	2598	3146.9	3512.8	5562
75-877	O	24	1	138.7	73.27	83.44	93.62	0.472	10.5	1664.5	577.9	693.5	751.3	595.1	720.9	804.7	1274.1
		609.6	25.4	7457.3	357.74	407.41	457.08	12	267	227298.7	2570.8	3085	3342.1	2647.3	3206.6	3579.5	5667.6
76-1181	O	36	0.562	140.9	47.6	54.3	61.01	0.472	10.5	2536.9	587.2	704.7	763.4	604.7	732.5	817.7	1294.6
		914.4	14.288	7577.3	232.41	265.13	297.86	12	267	346433	2612.2	3134.6	3395.8	2689.9	3258.2	3637.1	5758.7
76-1385	O	44	0.438	142.1	38.97	44.48	49.99	0.472	10.5	3126.9	592.2	710.7	769.9	609.8	738.7	824.6	1305.6
		1117.6	11.112	7641.4	190.25	217.17	244.09	12	267	427002.7	2634.3	3161.1	3424.6	2712.7	3285.8	3667.9	5807.5
77-1486	O	48	0.394	142.6	35.75	40.82	45.88	0.472	10.5	3421.3	594	712.8	772.2	611.7	740.9	827	1309.5
		1219.2	10	7664.1	174.54	199.28	224.02	12	267	467204.3	2642.1	3170.5	3434.7	2720.8	3295.6	3678.8	5824.7
77-1537	O	50	0.375	142.8	34.34	39.21	44.08	0.472	10.5	3569.1	594.9	713.8	773.3	612.6	742	828.2	1311.4
		1270	9.525	7675.5	167.67	191.45	215.24	12	267	487392.3	2646	3175.2	3439.8	2724.8	3300.5	3684.2	5833.4
77-978	O	28	0.812	142.8	63.24	72.05	80.86	0.472	10.5	1999.7	595.1	714.2	773.7	612.9	742.3	828.7	1312.1
		711.2	20.638	7679.3	308.74	351.77	394.8	12	267	273077.1	2647.4	3176.8	3441.6	2726.2	3302.1	3686.1	5836.3



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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)
77-1283	O	40	0.5	143.8	43.46	49.58	55.71	0.472	10.5	2875.3	599	718.8	778.7	616.8	747.2	834	1320.6
		1016	12.7	7729.2	212.18	242.09	271.99	12	267	392643.8	2664.6	3197.5	3463.9	2743.9	3323.6	3710	5874.2
78-1334	O	42	0.472	144.6	41.55	47.41	53.27	0.472	10.5	3036.7	602.5	723	783.3	620.4	751.5	838.9	1328.3
		1066.8	12	7774.3	202.85	231.46	260.08	12	267	414683.6	2680.1	3216.1	3484.1	2759.9	3343	3731.7	5908.5
78-1131	O	34	0.625	144.7	51.87	59.14	66.42	0.472	10.5	2460.7	603.1	723.7	784.1	621.1	752.3	839.8	1329.6
		863.6	15.875	7782.1	253.27	288.77	324.27	12	267	336033.1	2682.8	3219.4	3487.6	2762.7	3346.3	3735.4	5914.4
78-1029	O	30	0.75	145.6	59.73	68.06	76.39	0.472	10.5	2184.7	606.8	728.2	788.9	624.9	756.9	845	1337.8
		762	19.05	7830.3	291.61	332.29	372.96	12	267	298334.3	2699.4	3239.3	3509.2	2779.8	3367	3758.5	5951
79-1080	O	32	0.688	146.3	55.93	63.74	71.56	0.472	10.5	2340.8	609.6	731.5	792.5	627.7	760.4	848.8	1343.9
		812.8	17.462	7865.6	273.06	311.21	349.37	12	267	319659.2	2711.6	3253.9	3525.1	2792.3	3382.2	3775.5	5977.9
80-1588	O	52	0.375	149.6	34.47	39.34	44.21	0.472	10.5	3889.7	623.3	748	810.3	641.9	777.5	867.9	1374.2
		1320.8	9.525	8043.1	168.32	192.09	215.87	12	267	531169.5	2772.8	3327.3	3604.6	2855.3	3458.6	3860.7	6112.8
81-1537	O	50	0.394	149.7	35.9	40.97	46.04	0.472	10.5	3742.9	623.8	748.6	811	642.4	778.1	868.6	1375.2
		1270	10	8049.2	175.29	200.03	224.77	12	267	511122.3	2774.9	3329.8	3607.3	2857.5	3461.1	3863.6	6117.4
81-1232	O	38	0.562	150.9	48.02	54.74	61.47	0.472	10.5	2867.7	628.9	754.7	817.5	647.6	784.4	875.6	1386.4
		965.2	14.288	8114.6	234.45	267.27	300.1	12	267	391610.9	2797.4	3356.9	3636.6	2880.7	3489.3	3895	6167.1
82-1334	O	42	0.5	152.7	43.76	49.89	56.03	0.472	10.5	3207.5	636.4	763.7	827.3	655.3	793.8	886.1	1403
		1066.8	12.7	8211.6	213.64	243.6	273.56	12	267	438007.2	2830.9	3397	3680.1	2915.1	3531	3941.6	6240.8
82-978	O	28	0.875	152.8	67.62	76.98	86.34	0.472	10.5	2139	636.6	763.9	827.6	655.6	794.1	886.4	1403.5
		711.2	22.225	8214.4	330.14	375.85	421.55	12	267	292102.8	2831.8	3398.2	3681.3	2916.1	3532.2	3942.9	6242.9
82-1385	O	44	0.472	153.1	41.8	47.67	53.54	0.472	10.5	3368.5	638	765.6	829.4	657	795.8	888.3	1406.5
		1117.6	12	8232	204.1	232.74	261.39	12	267	460004.3	2837.9	3405.5	3689.2	2922.4	3539.8	3951.4	6256.3
84-1181	O	36	0.625	155.8	52.4	59.7	67.01	0.472	10.5	2804	649.1	778.9	843.8	668.4	809.6	903.8	1430.9
		914.4	15.875	8375.2	255.85	291.5	327.16	12	267	382915.2	2887.3	3464.7	3753.4	2973.2	3601.3	4020.1	6365.2
84-1639	O	54	0.375	156.5	34.6	39.47	44.33	0.472	10.5	4224.3	651.9	782.3	847.5	671.3	813.1	907.7	1437.2
		1371.6	9.525	8411.6	168.93	192.69	216.46	12	267	576867.4	2899.8	3479.8	3769.7	2986.1	3617	4037.6	6392.8
84-1029	O	30	0.812	156.8	64.23	73.12	82.02	0.472	10.5	2351.9	653.3	783.9	849.3	672.7	814.9	909.6	1440.2
		762	20.638	8429.6	313.6	357.02	400.44	12	267	321166.2	2906	3487.2	3777.8	2992.5	3624.7	4046.2	6406.5



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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)	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)
84-1588	O	52	0.394	156.9	36.05	41.11	46.18	0.472	10.5	4079.2	653.7	784.5	849.8	673.2	815.4	910.2	1441.2
		1320.8	10	8435.1	176	200.73	225.47	12	267	557055.7	2907.9	3489.5	3780.3	2994.5	3627.1	4048.9	6410.7
85-1486	O	48	0.438	158	39.37	44.89	50.41	0.472	10.5	3791.5	658.2	789.9	855.7	677.8	821	916.5	1451.1
		1219.2	11.112	8493.4	192.24	219.19	246.14	12	267	517757.4	2928	3513.6	3806.4	3015.2	3652.2	4076.8	6455
85-1131	O	34	0.688	158.3	56.58	64.44	72.3	0.472	10.5	2691.8	659.8	791.7	857.7	679.4	822.9	918.6	1454.5
		863.6	17.462	8513	276.27	314.65	353.02	12	267	367591.5	2934.8	3521.7	3815.2	3022.1	3660.6	4086.2	6469.9
85-1080	O	32	0.75	158.7	60.54	68.93	77.32	0.472	10.5	2538.6	661.1	793.3	859.4	680.8	824.6	920.5	1457.4
		812.8	19.05	8530.2	295.58	336.54	377.51	12	267	346667	2940.7	3528.8	3822.9	3028.2	3668	4094.5	6482.9
87-1283	O	40	0.562	161	48.4	55.15	61.89	0.472	10.5	3219.5	670.7	804.9	871.9	690.7	836.6	933.9	1478.7
		1016	14.288	8654.5	236.32	269.25	302.17	12	267	439650	2983.5	3580.2	3878.6	3072.4	3721.4	4154.2	6577.4
87-1385	O	44	0.5	161.7	44.03	50.18	56.33	0.472	10.5	3558.3	673.9	808.7	876.1	694	840.6	938.3	1485.7
		1117.6	12.7	8695.8	215	245.01	275.02	12	267	485920.8	2997.8	3597.3	3897.1	3087	3739.2	4174	6608.8
87-978	O	28	0.938	162.6	71.98	81.89	91.79	0.472	10.5	2276.4	677.5	813	880.7	697.7	845.1	943.3	1493.6
		711.2	23.812	8741.8	351.44	399.8	448.17	12	267	310858.7	3013.6	3616.4	3917.7	3103.3	3759	4196.1	6643.8
88-1689	O	56	0.375	163.3	34.72	39.58	44.45	0.472	10.5	4573	680.5	816.6	884.7	700.8	848.8	947.5	1500.2
		1422.4	9.525	8780.8	169.5	193.25	217.01	12	267	624488	3027.1	3632.5	3935.2	3117.2	3775.7	4214.8	6673.4
88-1639	O	54	0.394	164.1	36.18	41.25	46.31	0.472	10.5	4430.4	683.7	820.4	888.8	704	852.8	952	1507.3
		1371.6	10	8821.9	176.66	201.39	226.12	12	267	605004.9	3041.2	3649.5	3953.6	3131.8	3793.4	4234.5	6704.6
89-1537	O	50	0.438	165.9	39.56	45.08	50.6	0.472	10.5	4148.3	691.4	829.7	898.8	712	862.4	962.7	1524.2
		1270	11.112	8921.1	193.13	220.09	247.06	12	267	566489.9	3075.4	3690.5	3998.1	3167	3836.1	4282.1	6780
90-1232	O	38	0.625	166.9	52.89	60.22	67.55	0.472	10.5	3170.6	695.3	834.4	903.9	716	867.3	968.1	1532.8
		965.2	15.875	8971.6	258.21	294.01	329.81	12	267	432971.1	3092.9	3711.4	4020.7	3184.9	3857.8	4306.4	6818.4
90-1029	O	30	0.875	167.8	68.71	78.17	87.62	0.472	10.5	2516.8	699.1	838.9	908.9	719.9	872	973.4	1541.3
		762	22.225	9020.9	335.49	381.64	427.8	12	267	343697.8	3109.9	3731.8	4042.8	3202.4	3879	4330.1	6855.9
92-1486	O	48	0.472	170.2	42.26	48.14	54.02	0.472	10.5	4085.3	709.3	851.1	922	730.4	884.7	987.5	1563.6
		1219.2	12	9151.6	206.33	235.04	263.75	12	267	557884.5	3154.9	3785.9	4101.4	3248.8	3935.2	4392.8	6955.3
92-1181	O	36	0.688	170.5	57.19	65.09	72.99	0.472	10.5	3068.3	710.3	852.3	923.3	731.4	885.9	988.9	1565.8
		914.4	17.462	9164.6	279.21	317.78	356.36	12	267	419006.3	3159.4	3791.3	4107.2	3253.4	3940.8	4399	6965.1



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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)
92-1080	O	32	0.812	170.9	65.13	74.1	83.06	0.472	10.5	2734	712	854.4	925.6	733.2	888.1	991.3	1569.6
		812.8	20.638	9186.7	318	361.77	405.54	12	267	373346	3167	3800.4	4117.1	3261.3	3950.3	4409.6	6981.9
92-1334	O	42	0.562	171.1	48.76	55.52	62.28	0.472	10.5	3592.3	712.8	855.3	926.6	734	889	992.4	1571.3
		1066.8	14.288	9196.8	238.06	271.07	304.08	12	267	490554.8	3170.5	3804.6	4121.6	3264.8	3954.6	4414.4	6989.5
92-1689	O	56	0.394	171.3	36.31	41.37	46.44	0.472	10.5	4796.3	713.7	856.5	927.8	735	890.3	993.8	1573.5
		1422.4	10	9209.4	177.28	202.01	226.74	12	267	654972.2	3174.8	3809.8	4127.3	3269.3	3960	4420.5	6999.1
92-1131	O	34	0.75	171.8	61.28	69.72	78.17	0.472	10.5	2920.3	715.8	858.9	930.5	737.1	892.8	996.6	1577.9
		863.6	19.05	9235.5	299.18	340.42	381.66	12	267	398789.1	3183.8	3820.6	4139	3278.6	3971.3	4433	7019
93-978	O	28	1	172.3	76.32	86.77	97.22	0.472	10.5	2411.8	717.8	861.3	933.1	739.2	895.3	999.4	1582.4
		711.2	25.4	9261.7	372.63	423.65	474.67	12	267	329346.8	3192.9	3831.4	4150.7	3287.9	3982.5	4445.6	7038.9
94-1588	O	52	0.438	173.9	39.73	45.25	50.78	0.472	10.5	4521.6	724.6	869.5	942	746.2	903.8	1008.9	1597.5
		1320.8	11.112	9349.8	193.96	220.94	247.92	12	267	617461.9	3223.2	3867.9	4190.2	3319.2	4020.4	4487.9	7105.9
96-1283	O	40	0.625	178	53.33	60.69	68.05	0.472	10.5	3560.4	741.8	890.1	964.3	763.8	925.2	1032.8	1635.2
		1016	15.875	9571	260.39	296.32	332.26	12	267	486205	3299.5	3959.4	4289.3	3397.7	4115.5	4594.1	7273.9
96-1029	O	30	0.938	178.6	73.18	83.19	93.2	0.472	10.5	2679.7	744.4	893.2	967.7	766.5	928.5	1036.4	1641
		762	23.812	9604.5	357.28	406.16	455.04	12	267	365932.9	3311	3973.3	4304.4	3409.6	4130	4610.2	7299.4
96-1537	O	50	0.472	178.8	42.47	48.35	54.24	0.472	10.5	4470.2	745	894	968.5	767.2	929.3	1037.4	1642.5
		1270	12	9613.4	207.33	236.08	264.82	12	267	610448.3	3314.1	3976.9	4308.3	3412.7	4133.7	4614.4	7306.2
97-1486	O	48	0.5	179.8	44.53	50.7	56.86	0.472	10.5	4316.2	749.3	899.2	974.1	771.6	934.7	1043.3	1652
		1219.2	12.7	9668.8	217.43	247.53	277.63	12	267	589408.6	3333.2	3999.8	4333.1	3432.4	4157.6	4641	7348.3
97-1385	O	44	0.562	181.2	49.09	55.87	62.64	0.472	10.5	3986	754.9	905.9	981.4	777.4	941.6	1051.1	1664.3
		1117.6	14.288	9741	239.67	272.76	305.85	12	267	544327.6	3358.1	4029.7	4365.5	3458.1	4188.6	4675.7	7403.2
98-1639	O	54	0.438	181.9	39.89	45.42	50.94	0.472	10.5	4911.3	757.9	909.5	985.3	780.5	945.4	1055.3	1670.9
		1371.6	11.112	9779.5	194.75	221.74	248.73	12	267	670676.2	3371.4	4045.6	4382.8	3471.7	4205.2	4694.1	7432.4
98-1232	O	38	0.688	182.7	57.74	65.68	73.62	0.472	10.5	3470.4	761	913.3	989.4	783.7	949.3	1059.7	1677.8
		965.2	17.462	9820	281.9	320.66	359.42	12	267	473910.9	3385.3	4062.4	4400.9	3486.1	4222.6	4713.6	7463.2
98-1080	O	32	0.875	182.9	69.71	79.24	88.78	0.472	10.5	2926.9	762.2	914.7	990.9	784.9	950.7	1061.3	1680.4
		812.8	22.225	9835.1	340.33	386.9	433.46	12	267	399697.2	3390.5	4068.6	4407.7	3491.4	4229.1	4720.8	7474.7



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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)		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)
100-1181	O	36	0.75	185	61.95	70.45	78.95	0.472	10.5	3329.8	770.8	924.9	1002	793.7	961.4	1073.2	1699.2
		914.4	19.05	9945.5	302.48	343.96	385.45	12	267	454708	3428.6	4114.3	4457.2	3530.7	4276.6	4773.8	7558.6
100-1131	O	34	0.812	185.1	65.95	74.98	84.01	0.472	10.5	3146.1	771.1	925.3	1002.4	794.1	961.8	1073.7	1700
		863.6	20.638	9949.7	322.01	366.1	410.19	12	267	429628.5	3430	4116	4459.1	3532.1	4278.4	4775.9	7561.8
101-1588	O	52	0.472	187.4	42.66	48.55	54.44	0.472	10.5	4872.8	780.9	937.1	1015.2	804.2	974	1087.3	1721.6
		1320.8	12	10076.2	208.27	237.04	265.81	12	267	665430.2	3473.6	4168.4	4515.7	3577	4332.8	4836.6	7657.9
102-1537	O	50	0.5	188.9	44.76	50.93	57.1	0.472	10.5	4723.1	787.2	944.6	1023.3	810.6	981.9	1096.1	1735.4
		1270	12.7	10157.3	218.52	248.66	278.8	12	267	644987	3501.6	4201.9	4552.1	3605.8	4367.6	4875.5	7719.5
102-1334	O	42	0.625	189.2	53.74	61.13	68.51	0.472	10.5	3973.5	788.4	946.1	1024.9	811.9	983.4	1097.7	1738.1
		1066.8	15.875	10172.9	262.4	298.46	334.51	12	267	542621.8	3507	4208.4	4559.1	3611.4	4374.3	4883	7731.4
102-1029	O	30	1	189.4	77.62	88.19	98.75	0.472	10.5	2840.3	789	946.8	1025.7	812.5	984.1	1098.5	1739.4
		762	25.4	10180.4	378.98	430.57	482.16	12	267	387872.7	3509.6	4211.5	4562.4	3614	4377.6	4886.6	7737.1
102-1689	O	56	0.438	189.9	40.04	45.57	51.1	0.472	10.5	5317.3	791.3	949.5	1028.6	814.8	987	1101.7	1744.4
		1422.4	11.112	10209.9	195.48	222.49	249.5	12	267	726127.6	3519.7	4223.7	4575.7	3624.5	4390.3	4900.7	7759.5
105-1080	O	32	0.938	194.8	74.26	84.37	94.47	0.472	10.5	3117.5	811.9	974.2	1055.4	836	1012.6	1130.4	1789.8
		812.8	23.812	10475.5	362.57	411.92	461.26	12	267	425723.3	3611.3	4333.5	4694.7	3718.8	4504.5	5028.2	7961.4
105-1283	O	40	0.688	194.9	58.25	66.22	74.19	0.472	10.5	3898	812.1	974.5	1055.7	836.3	1012.9	1130.7	1790.3
		1016	17.462	10478.6	284.38	323.31	362.24	12	267	532311	3612.4	4334.8	4696.1	3719.9	4505.8	5029.7	7963.7
105-1639	O	54	0.472	196	42.84	48.74	54.63	0.472	10.5	5293.2	816.8	980.2	1061.9	841.2	1018.9	1137.3	1800.8
		1371.6	12	10540	209.16	237.95	266.75	12	267	722830.5	3633.5	4360.2	4723.6	3741.7	4532.2	5059.2	8010.4
107-1588	O	52	0.5	198	44.97	51.15	57.33	0.472	10.5	5148.9	825.1	990.2	1072.7	849.7	1029.2	1148.9	1819.1
		1320.8	12.7	10646.9	219.55	249.73	279.9	12	267	703123.8	3670.4	4404.5	4771.5	3779.7	4578.2	5110.5	8091.7
107-1131	O	34	0.875	198.2	70.61	80.22	89.83	0.472	10.5	3369.3	825.8	991	1073.6	850.4	1030.1	1149.8	1820.6
		863.6	22.225	10655.7	344.74	391.68	438.61	12	267	460113.2	3673.4	4408.1	4775.4	3782.8	4582	5114.7	8098.3
107-1232	O	38	0.75	198.3	62.57	71.12	79.66	0.472	10.5	3767.1	826.1	991.3	1074	850.7	1030.4	1150.3	1821.3
		965.2	19.05	10659.6	305.5	347.22	388.93	12	267	514434.3	3674.8	4409.7	4777.2	3784.2	4583.6	5116.6	8101.3
107-1181	O	36	0.812	199.4	66.7	75.79	84.88	0.472	10.5	3588.4	830.6	996.8	1079.8	855.4	1036.1	1156.6	1831.2
		914.4	20.638	10717.9	325.67	370.05	414.44	12	267	490024.5	3694.9	4433.9	4803.3	3804.9	4608.7	5144.6	8145.6



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		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	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)
108-1385	O	44	0.625	200.5	54.13	61.53	68.94	0.472	10.5	4410	835.2	1002.3	1085.8	860.1	1041.8	1162.9	1841.3
		1117.6	15.875	10777.1	264.26	300.43	336.6	12	267	602225.2	3715.3	4458.3	4829.9	3825.9	4634.2	5173	8190.6
108-1486	O	48	0.562	201.5	49.68	56.49	63.3	0.472	10.5	4836.7	839.7	1007.6	1091.6	864.7	1047.4	1169.2	1851.2
		1219.2	14.288	10834.8	242.55	275.79	309.03	12	267	660490.5	3735.2	4482.2	4855.7	3846.4	4659	5200.7	8234.5
109-1143	O	34.5	0.875	202	70.82	80.45	90.08	0.472	10.5	3485	841.8	1010.1	1094.3	866.8	1050	1172.1	1855.8
		876.3	22.225	10861.8	345.78	392.81	439.83	12	267	475908.5	3744.5	4493.4	4867.8	3855.9	4670.6	5213.7	8254.9
110-1689	O	56	0.472	204.7	43.01	48.91	54.81	0.472	10.5	5731.2	852.9	1023.4	1108.7	878.2	1063.8	1187.5	1880.2
		1422.4	12	11004.6	209.99	238.81	267.62	12	267	782650.6	3793.7	4552.5	4931.8	3906.7	4732	5282.2	8363.5
111-1080	O	32	1	206.6	78.8	89.47	100.14	0.472	10.5	3305.7	860.9	1033	1119.1	886.5	1073.8	1198.6	1897.9
		812.8	25.4	11108	384.72	436.83	488.94	12	267	451428	3829.3	4595.2	4978.1	3943.3	4776.4	5331.8	8442.1
111-1639	O	54	0.5	207.2	45.16	51.35	57.54	0.472	10.5	5593.4	863.2	1035.8	1122.1	888.9	1076.7	1201.8	1902.9
		1371.6	12.7	11137.7	220.51	250.72	280.94	12	267	763822.8	3839.6	4607.5	4991.5	3953.9	4789.2	5346.1	8464.6
111-1334	O	42	0.688	207.2	58.71	66.72	74.73	0.472	10.5	4351.3	863.4	1036	1122.4	889.1	1076.9	1202.1	1903.3
		1066.8	17.462	11140.1	286.67	325.76	364.85	12	267	594212	3840.4	4608.5	4992.5	3954.7	4790.2	5347.2	8466.5
114-1131	O	34	0.938	211.2	75.25	85.44	95.63	0.472	10.5	3590	879.9	1055.9	1143.9	906.1	1097.5	1225.1	1939.8
		863.6	23.812	11353.5	367.39	417.16	466.92	12	267	490245	3914	4696.8	5088.2	4030.5	4882	5449.7	8628.7
114-1283	O	40	0.75	211.6	63.14	71.73	80.31	0.472	10.5	4232.4	881.8	1058.1	1146.3	908	1099.8	1227.7	1943.9
		1016	19.05	11377.4	308.29	350.21	392.13	12	267	577971.9	3922.2	4706.7	5098.9	4039	4892.3	5461.2	8646.8
114-1537	O	50	0.562	211.7	49.94	56.77	63.59	0.472	10.5	5293.6	882.3	1058.7	1146.9	908.5	1100.5	1228.4	1945
		1270	14.288	11384	243.85	277.16	310.47	12	267	722882.2	3924.5	4709.4	5101.8	4041.3	4895.1	5464.3	8651.8
115-1181	O	36	0.875	213.6	71.43	81.12	90.8	0.472	10.5	3844.2	889.9	1067.8	1156.8	916.3	1109.9	1239	1961.8
		914.4	22.225	11482	348.77	396.05	443.32	12	267	524957.7	3958.3	4749.9	5145.8	4076.1	4937.3	5511.4	8726.3
115-1232	O	38	0.812	213.7	67.39	76.54	85.68	0.472	10.5	4060.8	890.5	1068.6	1157.7	917	1110.8	1239.9	1963.2
		965.2	20.638	11490.7	329.03	373.68	418.33	12	267	554543.1	3961.3	4753.5	5149.7	4079.2	4941	5515.6	8733
116-1689	O	56	0.5	216.3	45.35	51.54	57.74	0.472	10.5	6056.6	901.3	1081.5	1171.7	928.1	1124.2	1254.9	1986.9
		1422.4	12.7	11629.4	221.41	251.66	281.91	12	267	827080.6	4009.1	4810.9	5211.8	4128.4	5000.6	5582.1	8838.3
118-1385	O	44	0.688	219.6	59.15	67.18	75.22	0.472	10.5	4830.3	914.8	1097.8	1189.3	942.1	1141.1	1273.8	2016.8
		1117.6	17.462	11804.2	288.79	328.03	367.26	12	267	659617.9	4069.4	4883.2	5290.2	4190.5	5075.8	5666	8971.2



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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)	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)
119-1588	O	52	0.562	222	50.19	57.03	63.86	0.472	10.5	5771.6	924.9	1109.9	1202.4	952.5	1153.7	1287.8	2039.1
		1320.8	14.288	11934.6	245.07	278.44	311.81	12	267	788159.7	4114.3	4937.2	5348.6	4236.8	5131.9	5728.6	9070.3
120-1486	O	48	0.625	223	54.81	62.26	69.71	0.472	10.5	5353	929.3	1115.2	1208.2	957	1159.2	1294	2048.8
		1219.2	15.875	11991.6	267.61	303.98	340.36	12	267	731005.2	4133.9	4960.7	5374.1	4257	5156.4	5755.9	9113.6
120-1131	O	34	1	224	79.87	90.64	101.41	0.472	10.5	3808.1	933.4	1120	1213.4	961.1	1164.2	1299.6	2057.6
		863.6	25.4	12043.2	389.95	442.54	495.12	12	267	520027.4	4151.8	4982.1	5397.3	4275.4	5178.6	5780.8	9152.9
121-1334	O	42	0.75	225	63.67	72.29	80.92	0.472	10.5	4725.6	937.6	1125.2	1218.9	965.5	1169.5	1305.5	2067.1
		1066.8	19.05	12098.4	310.86	352.97	395.09	12	267	645328.4	4170.8	5004.9	5422	4294.9	5202.3	5807.2	9194.8
122-1181	O	36	0.938	227.6	76.15	86.42	96.69	0.472	10.5	4097.2	948.4	1138.1	1233	976.7	1183	1320.6	2090.9
		914.4	23.812	12237.7	371.8	421.94	472.09	12	267	559509.9	4218.8	5062.6	5484.5	4344.4	5262.2	5874.1	9300.7
123-1283	O	40	0.812	228.2	68.02	77.22	86.42	0.472	10.5	4563.5	950.7	1140.9	1236	979	1185.9	1323.8	2096
		1016	20.638	12267.5	332.12	377.02	421.92	12	267	623190.2	4229.1	5074.9	5497.8	4355	5275	5888.4	9323.3
123-1232	O	38	0.875	229	72.19	81.94	91.68	0.472	10.5	4351.5	954.3	1145.1	1240.6	982.7	1190.3	1328.7	2103.8
		965.2	22.225	12313.3	352.47	400.06	447.64	12	267	594240.4	4244.9	5093.8	5518.3	4371.2	5294.7	5910.4	9358.1
125-1639	O	54	0.562	232.2	50.43	57.27	64.12	0.472	10.5	6270.6	967.7	1161.2	1258	996.5	1207	1347.4	2133.3
		1371.6	14.288	12486.3	246.21	279.64	313.06	12	267	856310.3	4304.5	5165.4	5595.8	4432.6	5369.1	5993.4	9489.6
126-1537	O	50	0.625	234.4	55.12	62.59	70.06	0.472	10.5	5859.7	976.6	1171.9	1269.6	1005.7	1218.1	1359.8	2153
		1270	15.875	12601.4	269.12	305.58	342.05	12	267	800188.7	4344.2	5213	5647.4	4473.5	5418.6	6048.7	9577.1
126-1791	O	60	0.5	234.6	45.69	51.9	58.1	0.472	10.5	7039.3	977.7	1173.2	1271	1006.8	1219.5	1361.3	2155.4
		1524	12.7	12615.3	223.07	253.37	283.68	12	267	961284.2	4349	5218.8	5653.7	4478.4	5424.6	6055.3	9587.6
128-1385	O	44	0.75	238.5	64.16	72.82	81.48	0.472	10.5	5246.9	993.7	1192.5	1291.8	1023.3	1239.5	1383.6	2190.7
		1117.6	19.05	12822.2	313.25	355.54	397.83	12	267	716507.3	4420.3	5304.4	5746.4	4551.9	5513.6	6154.7	9744.9
130-1181	O	36	1	241.5	80.85	91.71	102.56	0.472	10.5	4347.5	1006.4	1207.6	1308.3	1036.3	1255.3	1401.2	2218.6
		914.4	25.4	12985.2	394.73	447.75	500.77	12	267	593685.3	4476.5	5371.8	5819.5	4609.8	5583.7	6232.9	9868.8
130-1689	O	56	0.562	242.5	50.65	57.5	64.36	0.472	10.5	6790.8	1010.5	1212.6	1313.7	1040.6	1260.5	1407	2227.8
		1422.4	14.288	13039.1	247.28	280.76	314.24	12	267	927341.1	4495.1	5394.1	5843.6	4628.9	5606.8	6258.8	9909.7
131-1334	O	42	0.812	242.7	68.61	77.85	87.1	0.472	10.5	5096.5	1011.2	1213.5	1314.6	1041.3	1261.3	1408	2229.3
		1066.8	20.638	13047.9	334.98	380.11	425.24	12	267	695973.2	4498.1	5397.7	5847.5	4632	5610.6	6263	9916.4



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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)
131-1232	O	38	0.938	244.2	76.98	87.32	97.66	0.472	10.5	4639.2	1017.4	1220.9	1322.6	1047.7	1269	1416.6	2242.9
		965.2	23.812	13127.4	375.84	426.34	476.84	12	267	633529.5	4525.5	5430.6	5883.2	4660.2	5644.8	6301.2	9976.8
131-1486	O	48	0.688	244.4	59.93	68.02	76.11	0.472	10.5	5865.3	1018.3	1221.9	1323.8	1048.6	1270.1	1417.8	2244.9
		1219.2	17.462	13139	292.6	332.1	371.59	12	267	800955.5	4529.5	5435.4	5888.4	4664.4	5649.8	6306.7	9985.7
132-1283	O	40	0.875	244.6	72.89	82.69	92.5	0.472	10.5	4891.4	1019	1222.9	1324.8	1049.4	1271.1	1418.9	2246.6
		1016	22.225	13149	355.88	403.75	451.62	12	267	667968.8	4533	5439.5	5892.8	4667.9	5654.1	6311.5	9993.2
132-1588	O	52	0.625	245.8	55.41	62.89	70.38	0.472	10.5	6389.7	1024	1228.8	1331.2	1054.5	1277.2	1425.8	2257.5
		1320.8	15.875	13212.7	270.53	307.08	343.63	12	267	872565.8	4554.9	5465.9	5921.4	4690.5	5681.5	6342.1	10041.6
138-1537	O	50	0.688	256.9	60.28	68.39	76.51	0.472	10.5	6421.4	1070.2	1284.3	1391.3	1102.1	1334.9	1490.1	2359.4
		1270	17.462	13809.4	294.32	333.93	373.55	12	267	876896.6	4760.6	5712.7	6188.8	4902.3	5938	6628.5	10495.1
138-1639	O	54	0.625	257.2	55.68	63.18	70.68	0.472	10.5	6943.1	1071.5	1285.8	1392.9	1103.4	1336.5	1491.9	2362.1
		1371.6	15.875	13825.4	271.85	308.48	345.11	12	267	948144.8	4766.1	5719.4	6196	4908	5944.9	6636.2	10507.3
138-1385	O	44	0.812	257.3	69.15	78.44	87.72	0.472	10.5	5659.8	1071.9	1286.3	1393.5	1103.8	1337	1492.5	2363.1
		1117.6	20.638	13831.3	337.63	382.97	428.31	12	267	772894.7	4768.2	5721.8	6198.6	4910.1	5947.5	6639	10511.8
139-1232	O	38	1	259.2	81.75	92.69	103.63	0.472	10.5	4924	1079.8	1295.8	1403.8	1112	1346.9	1503.5	2380.5
		965.2	25.4	13933.1	399.12	452.53	505.95	12	267	672412.8	4803.3	5763.9	6244.3	4946.3	5991.2	6687.9	10589.2
140-1334	O	42	0.875	260.2	73.53	83.39	93.25	0.472	10.5	5463.9	1084.1	1300.9	1409.4	1116.4	1352.2	1509.5	2390
		1066.8	22.225	13988.6	359.02	407.16	455.29	12	267	746150.1	4822.4	5786.9	6269.1	4965.9	6015.1	6714.5	10631.3
140-1283	O	40	0.938	260.8	77.74	88.15	98.56	0.472	10.5	5216.1	1086.7	1304	1412.7	1119	1355.5	1513.1	2395.7
		1016	23.812	14021.9	379.56	430.39	481.21	12	267	712311	4833.9	5800.6	6284	4977.8	6029.4	6730.5	10656.6
142-1791	O	60	0.562	263.1	51.05	57.93	64.8	0.472	10.5	7894.4	1096.5	1315.7	1425.4	1129.1	1367.6	1526.7	2417.2
		1524	14.288	14147.7	249.25	282.83	316.41	12	267	1078057	4877.3	5852.7	6340.4	5022.4	6083.5	6790.9	10752.3
143-1486	O	48	0.75	265.6	65.03	73.76	82.49	0.472	10.5	6373.4	1106.5	1327.8	1438.4	1139.4	1380.2	1540.6	2439.4
		1219.2	19.05	14277.3	317.53	360.14	402.75	12	267	870347.2	4921.9	5906.3	6398.5	5068.5	6139.3	6853.1	10850.8
144-1689	O	56	0.625	268.6	55.93	63.45	70.97	0.472	10.5	7520	1119.1	1342.9	1454.8	1152.4	1395.8	1558.1	2467
		1422.4	15.875	14439.4	273.09	309.8	346.51	12	267	1026926.7	4977.8	5973.3	6471.1	5126	6208.9	6930.9	10973.9
145-1588	O	52	0.688	269.4	60.61	68.75	76.88	0.472	10.5	7003.2	1122.3	1346.8	1459	1155.7	1399.9	1562.7	2474.2
		1320.8	17.462	14481.4	295.92	335.65	375.37	12	267	956354.7	4992.3	5990.8	6490	5140.9	6227	6951.1	11005.9



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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)		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)
148-1385	O	44	0.875	275.9	74.13	84.04	93.95	0.472	10.5	6069.1	1149.4	1379.3	1494.3	1183.7	1433.7	1600.4	2534
		1117.6	22.225	14831.6	361.94	410.32	458.7	12	267	828788.1	5113	6135.6	6646.9	5265.2	6377.6	7119.2	11272
149-1283	O	40	1	276.9	82.57	93.59	104.6	0.472	10.5	5537.7	1153.7	1384.4	1499.8	1188	1439	1606.3	2543.4
		1016	25.4	14886.2	403.16	456.94	510.71	12	267	756218.6	5131.8	6158.2	6671.4	5284.6	6401.1	7145.4	11313.5
149-1334	O	42	0.938	277.5	78.44	88.92	99.39	0.472	10.5	5828	1156.3	1387.6	1503.2	1190.8	1442.3	1610	2549.2
		1066.8	23.812	14920.5	382.99	434.12	485.25	12	267	795861.4	5143.7	6172.4	6686.8	5296.8	6415.8	7161.9	11339.6
150-1537	O	50	0.75	279.2	65.43	74.19	82.94	0.472	10.5	6978.8	1163.1	1395.8	1512.1	1197.8	1450.8	1619.5	2564.2
		1270	19.05	15008.2	319.45	362.21	404.97	12	267	953018.9	5173.9	6208.7	6726	5327.9	6453.5	7203.9	11406.2
152-1639	O	54	0.688	281.9	60.92	69.08	77.23	0.472	10.5	7610.9	1174.5	1409.4	1526.9	1209.5	1465	1635.4	2589.3
		1371.6	17.462	15155	297.43	337.26	377.09	12	267	1039332.4	5224.5	6269.4	6791.9	5380	6516.7	7274.4	11517.8
154-1486	O	48	0.812	286.6	70.13	79.49	88.85	0.472	10.5	6877.5	1194	1432.8	1552.2	1229.5	1489.3	1662.5	2632.3
		1219.2	20.638	15406.5	342.38	388.1	433.82	12	267	939180.5	5311.2	6373.4	6904.6	5469.3	6624.8	7395.1	11708.9
157-1791	O	60	0.625	291.5	56.4	63.95	71.49	0.472	10.5	8744.2	1214.5	1457.4	1578.8	1250.6	1514.8	1691	2677.4
		1524	15.875	15670.5	275.37	312.21	349.06	12	267	1194092.7	5402.2	6482.7	7022.9	5563	6738.3	7521.8	11909.6
157-1588	O	52	0.75	292.8	65.8	74.58	83.37	0.472	10.5	7612.3	1219.9	1463.9	1585.9	1256.2	1521.6	1698.6	2689.4
		1320.8	19.05	15740.9	321.26	364.15	407.04	12	267	1039526.4	5426.5	6511.8	7054.4	5588	6768.6	7555.6	11963.1
158-1385	O	44	0.938	294.3	79.1	89.62	100.15	0.472	10.5	6474.8	1226.3	1471.5	1594.2	1262.8	1529.6	1707.4	2703.4
		1117.6	23.812	15823	386.18	437.59	488.99	12	267	884190.4	5454.8	6545.7	7091.2	5617.2	6803.9	7595	12025.5
158-1689	O	56	0.688	294.4	61.21	69.39	77.56	0.472	10.5	8244.3	1226.8	1472.2	1594.9	1263.3	1530.2	1708.2	2704.6
		1422.4	17.462	15829.9	298.85	338.77	378.7	12	267	1125825.7	5457.2	6548.6	7094.3	5619.6	6806.9	7598.4	12030.8
158-1334	O	42	1	294.7	83.34	94.42	105.51	0.472	10.5	6188.6	1227.9	1473.5	1596.3	1264.5	1531.6	1709.7	2707
		1066.8	25.4	15843.9	406.89	461	515.12	12	267	845111.3	5462	6554.4	7100.6	5624.6	6812.9	7605.1	12041.3
161-1347	O	42.5	1	299.2	83.52	94.62	105.72	0.472	10.5	6357.2	1246.5	1495.8	1620.5	1283.6	1554.8	1735.6	2748
		1079.5	25.4	16083.9	407.78	461.97	516.17	12	267	868130	5544.7	6653.7	7208.2	5709.8	6916.1	7720.3	12223.8
162-1537	O	50	0.812	301.3	70.56	79.96	89.36	0.472	10.5	7532	1255.3	1506.4	1631.9	1292.7	1565.8	1747.9	2767.5
		1270	20.638	16197.7	344.52	390.41	436.3	12	267	1028555.6	5584	6700.8	7259.2	5750.2	6965	7774.9	12310.3
165-1639	O	54	0.75	306.4	66.15	74.96	83.77	0.472	10.5	8273.8	1276.8	1532.2	1659.9	1314.8	1592.6	1777.8	2814.9
		1371.6	19.05	16475.2	322.95	365.97	408.99	12	267	1129867	5679.6	6815.5	7383.5	5848.7	7084.3	7908.1	12521.1

* 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)	
165-1486	O	48	0.875	307.4	75.2	85.2	95.2	0.472	10.5	7377.5	1280.8	1537	1665.1	1318.9	1597.6	1783.4	2823.7	01
		1219.2	22.225	16526.6	367.17	415.99	464.81	12	267	1007462	5697.3	6836.8	7406.5	5866.9	7106.4	7932.8	12560.2	02
168-1385	O	44	1	312.6	84.05	95.19	106.34	0.472	10.5	6876.8	1302.4	1562.9	1693.2	1341.2	1624.6	1813.5	2871.3	03
		1117.6	25.4	16805.6	410.35	464.77	519.2	12	267	939094.3	5793.5	6952.2	7531.6	5966	7226.4	8066.7	12772.2	04
169-1512	O	49	0.875	315	75.45	85.47	95.49	0.472	10.5	7716.8	1312.4	1574.9	1706.1	1351.5	1637	1827.3	2893.3	05
		1244.6	22.225	16934	368.37	417.29	466.21	12	267	1053802.5	5837.8	7005.3	7589.1	6011.6	7281.6	8128.3	12869.8	06
170-1588	O	52	0.812	316	70.97	80.41	89.84	0.472	10.5	8216.8	1316.8	1580.2	1711.8	1356	1642.5	1833.5	2903	07
		1320.8	20.638	16990.9	346.53	392.58	438.63	12	267	1122080.9	5857.4	7028.9	7614.6	6031.8	7306.1	8155.6	12913.1	08
172-1791	O	60	0.688	319.6	61.74	69.95	78.17	0.472	10.5	9588.5	1331.7	1598.1	1731.3	1371.4	1661.1	1854.3	2935.9	09
		1524	17.462	17183.6	301.44	341.54	381.64	12	267	1309391.4	5923.8	7108.6	7701	6100.2	7389	8248.1	13059.5	10
172-1689	O	56	0.75	320.1	66.47	75.31	84.14	0.472	10.5	8963.6	1333.9	1600.6	1734	1373.6	1663.8	1857.2	2940.6	11
		1422.4	19.05	17211.1	324.54	367.68	410.81	12	267	1224055.9	5933.3	7120	7713.3	6110	7400.8	8261.3	13080.5	12
174-1537	O	50	0.875	323.2	75.69	85.72	95.76	0.472	10.5	8080.8	1346.8	1616.2	1750.8	1386.9	1679.9	1875.2	2969.1	13
		1270	22.225	17378.1	369.53	418.54	467.56	12	267	1103506.8	5990.9	7189	7788.1	6169.2	7472.6	8341.5	13207.3	14
176-1486	O	48	0.938	328.1	80.27	90.9	101.53	0.472	10.5	7873.5	1366.9	1640.3	1777	1407.6	1705	1903.2	3013.5	15
		1219.2	23.812	17637.7	391.9	443.8	495.71	12	267	1075191.8	6080.4	7296.4	7904.5	6261.4	7584.2	8466.1	13404.6	16
178-1562	O	51	0.875	330.8	75.92	85.97	96.03	0.472	10.5	8435.7	1378.4	1654.1	1791.9	1419.4	1719.3	1919.2	3038.8	17
		1295.4	22.225	17785.6	370.65	419.76	468.87	12	267	1151973.6	6131.4	7357.6	7970.8	6313.9	7647.8	8537.1	13517.1	18
178-1639	O	54	0.812	330.8	71.36	80.82	90.28	0.472	10.5	8932.1	1378.4	1654.1	1791.9	1419.4	1719.3	1919.3	3038.8	19
		1371.6	20.638	17786	348.41	394.61	440.81	12	267	1219760.8	6131.5	7357.8	7970.9	6314	7648	8537.3	13517.3	20
182-1588	O	52	0.875	339.1	76.14	86.21	96.29	0.472	10.5	8816.8	1413	1695.5	1836.8	1455	1762.4	1967.3	3115	21
		1320.8	22.225	18231.6	371.74	420.94	470.14	12	267	1204018.1	6285.1	7542.2	8170.7	6472.2	7839.6	8751.2	13856.1	22
186-1537	O	50	0.938	345	80.79	91.47	102.15	0.472	10.5	8625.4	1437.6	1725.1	1868.8	1480.4	1793.1	2001.6	3169.2	23
		1270	23.812	18549.3	394.47	446.6	498.74	12	267	1177879	6394.6	7673.6	8313	6585	7976.2	8903.7	14097.4	24
186-1689	O	56	0.812	345.6	71.72	81.21	90.7	0.472	10.5	9677.9	1440.2	1728.2	1872.2	1483	1796.4	2005.2	3175	25
		1422.4	20.638	18582.8	350.17	396.52	442.86	12	267	1321605.3	6406.2	7687.4	8328	6596.9	7990.6	8919.7	14122.9	26
186-1613	O	53	0.875	346.7	76.35	86.45	96.54	0.472	10.5	9187.4	1444.6	1733.5	1877.9	1487.6	1801.8	2011.3	3184.6	27
		1346.2	22.225	18639.4	372.79	422.08	471.37	12	267	1254615.6	6425.7	7710.8	8353.4	6617	8014.9	8946.9	14165.9	28



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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)
187-1791	O	60	0.75	347.6	67.07	75.95	84.83	0.472	10.5	10427.4	1448.2	1737.9	1882.7	1491.4	1806.4	2016.5	3192.8
		1524	19.05	18687	327.45	370.8	414.16	12	267	1423953.1	6442.1	7730.6	8374.8	6633.9	8035.4	8969.8	14202.2
187-1486	O	48	1	348.6	85.32	96.58	107.84	0.472	10.5	8365.4	1452.3	1742.8	1888	1495.6	1811.5	2022.2	3201.8
		1219.2	25.4	18739.7	416.55	471.54	526.53	12	267	1142372.2	6460.3	7752.3	8398.4	6652.6	8058.1	8995.1	14242.2
191-1639	O	54	0.875	355	76.56	86.67	96.79	0.472	10.5	9585.7	1479.3	1775.1	1923.1	1523.3	1845.1	2059.7	3261.2
		1371.6	22.225	19087.4	373.8	423.18	472.55	12	267	1309013.8	6580.2	7896.2	8554.2	6776	8207.6	9162	14506.4
192-1512	O	49	1	357.6	85.61	96.9	108.19	0.472	10.5	8760.9	1490	1787.9	1936.9	1534.3	1858.5	2074.6	3284.7
		1244.6	25.4	19225.2	417.97	473.09	528.21	12	267	1196382.5	6627.6	7953.2	8615.9	6824.9	8266.8	9228.1	14611.1
195-1588	O	52	0.938	362	81.29	92.01	102.73	0.472	10.5	9412.5	1508.4	1810.1	1960.9	1553.3	1881.5	2100.3	3325.4
		1320.8	23.812	19463.3	396.88	449.22	501.57	12	267	1285357.1	6709.7	8051.7	8722.7	6909.5	8369.2	9342.4	14792.1
195-1664	O	55	0.875	362.6	76.76	86.89	97.02	0.472	10.5	9971.8	1510.9	1813	1964.1	1555.8	1884.5	2103.7	3330.8
		1397	22.225	19495.1	374.79	424.25	473.71	12	267	1361731	6720.7	8064.8	8736.9	6920.8	8382.9	9357.6	14816.3
197-1537	O	50	1	366.6	85.89	97.2	108.52	0.472	10.5	9165.8	1527.6	1833.2	1985.9	1573.1	1905.5	2127	3367.8
		1270	25.4	19711.3	419.35	474.59	529.83	12	267	1251670.4	6795.2	8154.3	8833.8	6997.5	8475.9	9461.4	14980.6
199-1689	O	56	0.875	371	76.96	87.11	97.25	0.472	10.5	10387.4	1545.7	1854.9	2009.5	1591.8	1928	2152.2	3407.7
		1422.4	22.225	19945	375.75	425.29	474.83	12	267	1418485.9	6875.8	8250.9	8938.5	7080.5	8576.3	9573.6	15158.2
202-1791	O	60	0.812	375.4	72.38	81.93	91.47	0.472	10.5	11260.9	1564	1876.8	2033.2	1610.6	1950.8	2177.7	3448
		1524	20.638	20180.8	353.41	400.01	446.61	12	267	1537777.8	6957.1	8348.5	9044.2	7164.2	8677.7	9686.8	15337.4
202-1562	O	51	1	375.7	86.16	97.5	108.84	0.472	10.5	9580	1565.4	1878.4	2035	1612	1952.5	2179.6	3451
		1295.4	25.4	20198.2	420.68	476.04	531.4	12	267	1308236.4	6963.1	8355.7	9052	7170.4	8685.2	9695.1	15350.6
204-1639	O	54	0.938	379.1	81.75	92.51	103.27	0.472	10.5	10234.6	1579.4	1895.3	2053.2	1626.4	1970	2199.1	3481.9
		1371.6	23.812	20379.5	399.14	451.68	504.23	12	267	1397626	7025.6	8430.7	9133.3	7234.7	8763.2	9782.2	15488.4
207-1588	O	52	1	384.8	86.42	97.79	109.15	0.472	10.5	10003.6	1603.1	1923.8	2084.1	1650.9	1999.6	2232.2	3534.2
		1320.8	25.4	20685.7	421.96	477.44	532.92	12	267	1366080.9	7131.1	8557.3	9270.5	7343.4	8894.8	9929.1	15721.1
212-1613	O	53	1	393.8	86.68	98.07	109.45	0.472	10.5	10436.6	1641	1969.2	2133.3	1689.8	2046.8	2284.8	3617.6
		1346.2	25.4	21173.7	423.21	478.8	534.39	12	267	1425204.4	7299.4	8759.3	9489.2	7516.7	9104.7	10163.4	16092
213-1689	O	56	0.938	396.1	82.19	92.99	103.78	0.472	10.5	11091.9	1650.6	1980.7	2145.8	1699.7	2058.8	2298.2	3638.8
		1422.4	23.812	21297.9	401.27	453.99	506.72	12	267	1514703.4	7342.2	8810.6	9544.8	7560.7	9158.1	10223	16186.4



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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)
217-1639	O	54	1	402.9	86.93	98.34	109.74	0.472	10.5	10878.9	1678.8	2014.6	2182.5	1728.8	2094.1	2337.6	3701.1
		1371.6	25.4	21662.4	424.42	480.12	535.82	12	267	1485607.2	7467.9	8961.4	9708.2	7690.2	9314.8	10398	16463.4
217-1791	O	60	0.875	403	77.69	87.9	98.1	0.472	10.5	12089.2	1679.1	2014.9	2182.8	1729	2094.3	2337.8	3701.6
		1524	22.225	21665.1	379.31	429.15	478.98	12	267	1650882.2	7468.8	8962.5	9709.4	7691.1	9316	10399.3	16465.5
222-1664	O	55	1	412	87.17	98.6	110.03	0.472	10.5	11330.6	1716.8	2060.1	2231.8	1767.9	2141.3	2390.3	3784.7
		1397	25.4	22151.6	425.59	481.4	537.2	12	267	1547289.6	7636.5	9163.8	9927.4	7863.8	9525.2	10632.8	16835.2
226-1689	O	56	1	421.1	87.4	98.85	110.3	0.472	10.5	11791.6	1754.7	2105.6	2281.1	1806.9	2188.7	2443.2	3868.4
		1422.4	25.4	22641.3	426.72	482.63	538.54	12	267	1610252.2	7805.3	9366.4	10146.9	8037.7	9735.8	10867.8	17207.4
231-1791	O	60	0.938	430.4	82.98	93.85	104.72	0.472	10.5	12912.1	1793.3	2152	2331.3	1846.7	2236.9	2497	3953.6
		1524	23.812	23139.8	405.15	458.22	511.29	12	267	1763255.2	7977.2	9572.6	10370.3	8214.6	9950.1	11107.1	17586.3
246-1791	O	60	1	457.7	88.26	99.79	111.32	0.472	10.5	13729.7	1906.9	2288.3	2479	1963.7	2378.5	2655.1	4203.9
		1524	25.4	24605.1	430.94	487.24	543.53	12	267	1874907.9	8482.3	10178.8	11027	8734.8	10580.2	11810.4	18699.9

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.

LEGAL DISCLAIMER

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