

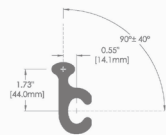
BALL & SOCKET
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-Pile

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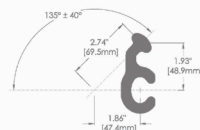
PilePro® Sheet Pile Connectors



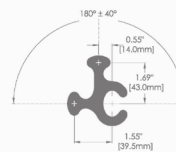
PZ 90



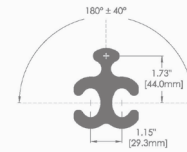
Colt



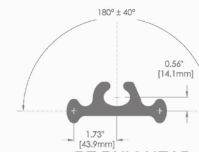
Cobra



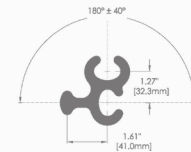
PZ Tee



Joker



Bullhead



PZT-S

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



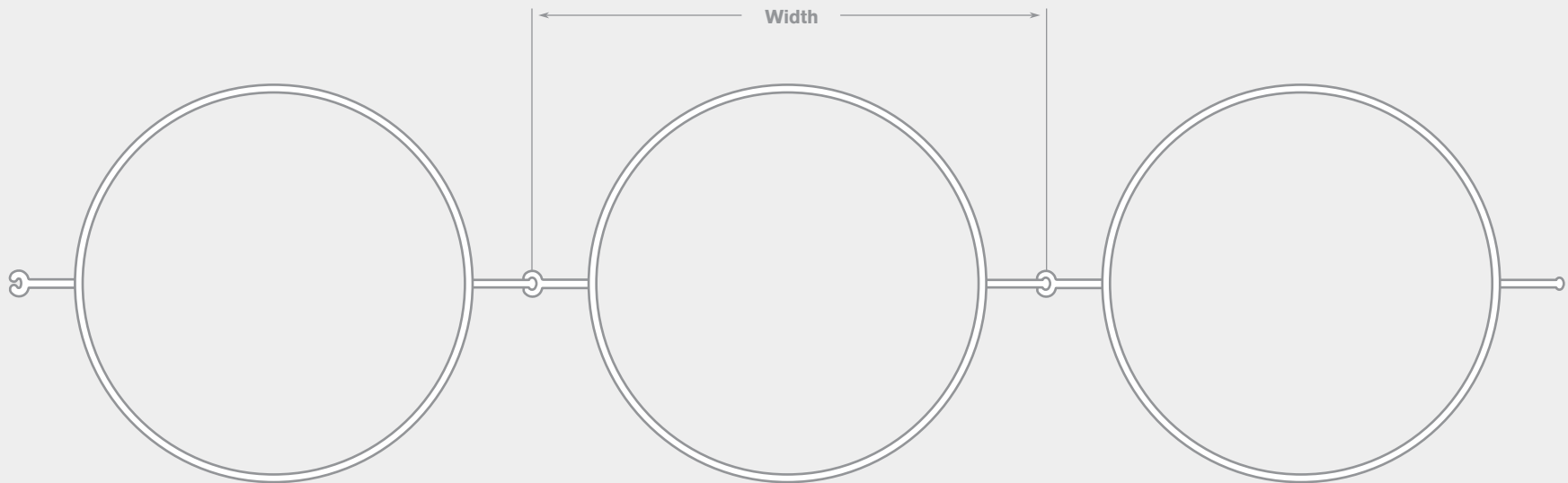
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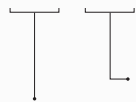


W: 233mm (9.2in)



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)
25-741	O	20	0.375	45.8	30.99	35.93	40.86	0.472	9.2	458	190.8	229	248.1	196.5	238	265.7	420.7
		508	9.525	2462.4	151.31	175.41	199.5	12	233	62545.4	848.9	1018.7	1103.6	874.2	1058.8	1182	1871.4
26-741	O	20	0.394	47.9	32.26	37.35	42.44	0.472	9.2	479.5	199.8	239.7	259.7	205.7	249.2	278.2	440.5
		508	10	2577.9	157.48	182.36	207.23	12	233	65479.4	888.7	1066.5	1155.3	915.2	1108.5	1237.4	1959.2
28-792	O	22	0.375	52	31.47	36.4	41.33	0.472	9.2	572	216.7	260	281.7	223.1	270.3	301.7	477.7
		558.8	9.525	2795.8	153.66	177.72	201.78	12	233	78113.6	963.8	1156.6	1252.9	992.5	1202.2	1342	2124.8
29-741	O	20	0.438	52.9	35.21	40.67	46.14	0.472	9.2	529.3	220.6	264.7	286.7	227.1	275.1	307.1	486.2
		508	11.112	2845.8	171.91	198.58	225.25	12	233	72284.4	981.1	1177.3	1275.4	1010.3	1223.7	1366	2162.8
29-792	O	22	0.394	54.6	32.78	37.87	42.96	0.472	9.2	600.5	227.5	273	295.7	234.2	283.7	316.7	501.5
		558.8	10	2935	160.04	184.9	209.75	12	233	82003.2	1011.8	1214.2	1315.3	1041.9	1262	1408.8	2230.6
31-741	O	20	0.472	56.9	37.56	43.31	49.07	0.472	9.2	568.6	236.9	284.3	308	244	295.5	329.9	522.3
		508	12	3057	183.36	211.47	239.58	12	233	77646.5	1053.8	1264.6	1370	1085.2	1314.5	1467.3	2323.3
32-843	O	24	0.375	58.6	31.89	36.82	41.74	0.472	9.2	702.6	244	292.8	317.1	251.2	304.3	339.7	537.8
		609.6	9.525	3147.9	155.72	179.75	203.77	12	233	95946.6	1085.2	1302.2	1410.7	1117.5	1353.6	1511	2392.4
32-741	O	20	0.5	59.9	39.4	45.39	51.38	0.472	9.2	599.3	249.7	299.6	324.6	257.1	311.4	347.7	550.5
		508	12.7	3221.8	192.37	221.6	250.84	12	233	81834.4	1110.7	1332.8	1443.9	1143.7	1385.4	1546.5	2448.6
33-843	O	24	0.394	61.3	33.24	38.33	43.42	0.472	9.2	735.9	255.5	306.6	332.2	263.1	318.7	355.8	563.3
		609.6	10	3297.1	162.28	187.13	211.98	12	233	100494.9	1136.6	1364	1477.6	1170.5	1417.7	1582.6	2505.8
35-792	O	22	0.472	64.8	38.26	44.03	49.81	0.472	9.2	712.9	270	324	351	278.1	336.8	376	595.3
		558.8	12	3484.1	186.79	214.99	243.19	12	233	97346.5	1201.1	1441.3	1561.4	1236.9	1498.2	1672.4	2647.9
36-741	O	20	0.562	66.8	43.56	50.07	56.58	0.472	9.2	667.8	278.3	333.9	361.7	286.5	347.1	387.4	613.4
		508	14.288	3590.5	212.7	244.48	276.25	12	233	91197.7	1237.8	1485.3	1609.1	1274.6	1543.9	1723.4	2728.7
36-843	O	24	0.438	67.8	36.38	41.86	47.34	0.472	9.2	813.3	282.4	338.9	367.1	290.8	352.2	393.2	622.6
		609.6	11.112	3643.8	177.61	204.38	231.14	12	233	111062	1256.1	1507.4	1633	1293.5	1566.8	1749	2769.3
37-792	O	22	0.5	68.3	40.17	46.18	52.19	0.472	9.2	751.6	284.7	341.6	370.1	293.2	355.1	396.4	627.6
		558.8	12.7	3673.4	196.1	225.47	254.84	12	233	102635.9	1266.4	1519.6	1646.3	1304.1	1579.6	1763.3	2791.8
39-944	O	28	0.375	71.6	32.6	37.51	42.42	0.472	9.2	1002.4	298.3	358	387.8	307.2	372.1	415.4	657.7
		711.2	9.525	3849.4	159.19	183.15	207.12	12	233	136883.1	1327	1592.4	1725.1	1366.5	1655.2	1847.7	2925.5



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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)		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)
39-843	O	24	0.472	72.9	38.87	44.67	50.46	0.472	9.2	874.4	303.6	364.3	394.7	312.6	378.7	422.7	669.3
		609.6	12	3917.5	189.8	218.09	246.37	12	233	119406.6	1350.5	1620.6	1755.7	1390.7	1684.5	1880.4	2977.3
40-741	O	20	0.625	73.5	47.7	54.73	61.75	0.472	9.2	735	306.3	367.5	398.1	315.4	382	426.4	675.2
		508	15.875	3951.8	232.9	267.2	301.5	12	233	100376.8	1362.4	1634.8	1771.1	1402.9	1699.3	1896.9	3003.4
40-944	O	28	0.394	75	34.01	39.09	44.18	0.472	9.2	1050.2	312.6	375.1	406.3	321.9	389.9	435.2	689.1
		711.2	10	4033.2	166.05	190.88	215.7	12	233	143419.8	1390.4	1668.5	1807.5	1431.8	1734.3	1935.9	3065.2
41-843	O	24	0.5	76.8	40.84	46.88	52.92	0.472	9.2	922.2	320.2	384.2	416.3	329.7	399.4	445.8	705.9
		609.6	12.7	4131.7	199.39	228.87	258.36	12	233	125934	1424.4	1709.2	1851.7	1466.8	1776.6	1983.2	3140.1
42-995	O	30	0.375	78.2	32.9	37.81	42.71	0.472	9.2	1173.1	325.9	391	423.6	335.6	406.4	453.7	718.4
		762	9.525	4204.6	160.65	184.6	208.54	12	233	160195	1449.5	1739.4	1884.3	1492.6	1808	2018.2	3195.5
44-995	O	30	0.394	82	34.34	39.42	44.5	0.472	9.2	1229.3	341.5	409.8	443.9	351.6	425.9	475.4	752.8
		762	10	4406	167.65	192.46	217.28	12	233	167867.3	1518.9	1822.7	1974.6	1564.1	1894.6	2114.9	3348.5
45-944	O	28	0.438	83	37.3	42.79	48.29	0.472	9.2	1161.6	345.7	414.9	449.4	356	431.2	481.4	762.2
		711.2	11.112	4460.8	182.09	208.92	235.76	12	233	158626.4	1537.8	1845.4	1999.2	1583.6	1918.1	2141.2	3390.2
45-792	O	22	0.625	84.1	48.76	55.85	62.93	0.472	9.2	924.8	350.3	420.4	455.4	360.7	436.9	487.8	772.3
		558.8	15.875	4520.1	238.05	272.66	307.27	12	233	126291.3	1558.2	1869.9	2025.7	1604.6	1943.6	2169.6	3435.3
46-1046	O	32	0.375	84.9	33.18	38.08	42.97	0.472	9.2	1357.7	353.6	424.3	459.6	364.1	441	492.3	779.5
		812.8	9.525	4562.2	161.98	185.9	209.82	12	233	185408.3	1572.8	1887.3	2044.6	1619.6	1961.8	2189.9	3467.3
46-843	O	24	0.562	85.8	45.27	51.87	58.46	0.472	9.2	1029.3	357.4	428.9	464.6	368.1	445.8	497.6	787.9
		609.6	14.288	4611.7	221.04	253.23	285.43	12	233	140566.1	1589.8	1907.8	2066.8	1637.2	1983.1	2213.6	3504.9
47-741	O	20	0.75	86.6	55.89	63.94	71.99	0.472	9.2	865.5	360.6	432.8	468.8	371.4	449.8	502.1	795
		508	19.05	4653.2	272.89	312.19	351.48	12	233	118192.2	1604.1	1925	2085.4	1651.9	2000.9	2233.6	3536.5
48-1046	O	32	0.394	88.9	34.63	39.71	44.79	0.472	9.2	1422.9	370.6	444.7	481.7	381.6	462.2	515.9	816.9
		812.8	10	4781.3	169.09	193.9	218.71	12	233	194312.5	1648.3	1978	2142.8	1697.4	2056	2295	3633.8
48-944	O	28	0.472	89.3	39.91	45.73	51.55	0.472	9.2	1249.7	371.9	446.3	483.5	383	463.9	517.8	819.9
		711.2	12	4799	194.85	223.28	251.71	12	233	170651.3	1654.4	1985.3	2150.7	1703.6	2063.6	2303.5	3647.2
49-995	O	30	0.438	90.7	37.68	43.19	48.69	0.472	9.2	1360	377.8	453.3	491.1	389	471.2	526	832.9
		762	11.112	4874.7	183.99	210.85	237.71	12	233	185724.6	1680.5	2016.6	2184.6	1730.5	2096.1	2339.8	3704.7



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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)
01 49-1097	O	34	0.375	91.5	33.42	38.32	43.21	0.472	9.2	1556.3	381.5	457.7	495.9	392.8	475.8	531.1	840.9
02		863.6	9.525	4921.9	163.18	187.08	210.98	12	233	212529.6	1696.8	2036.1	2205.8	1747.3	2116.4	2362.5	3740.7
03 51-944	O	28	0.5	94.2	41.97	48.04	54.12	0.472	9.2	1318.6	392.4	470.9	510.2	404.1	489.5	546.4	865.2
04		711.2	12.7	5063.8	204.89	234.58	264.26	12	233	180069.9	1745.7	2094.8	2269.4	1797.7	2177.4	2430.6	3848.5
05 51-843	O	24	0.625	94.6	49.68	56.83	63.97	0.472	9.2	1134.7	394	472.8	512.2	405.7	491.5	548.6	868.6
06		609.6	15.875	5084	242.58	277.47	312.35	12	233	154959.6	1752.6	2103.2	2278.4	1804.8	2186.1	2440.3	3863.8
07 52-1097	O	34	0.394	96	34.9	39.98	45.06	0.472	9.2	1631.2	399.8	479.8	519.8	411.7	498.7	556.7	881.4
08		863.6	10	5158.8	170.39	195.2	220	12	233	222758.5	1778.4	2134.1	2312	1831.4	2218.3	2476.2	3920.7
09 53-995	O	30	0.472	97.6	40.35	46.18	52.02	0.472	9.2	1463.5	406.5	487.8	528.5	418.6	507.1	566	896.2
10		762	12	5245.5	196.99	225.48	253.96	12	233	199854.3	1808.3	2170	2350.8	1862.2	2255.6	2517.8	3986.6
11 53-1147	O	36	0.375	98.3	33.65	38.54	43.43	0.472	9.2	1768.9	409.5	491.4	532.3	421.7	510.7	570.1	902.7
12		914.4	9.525	5283.4	164.27	188.16	212.04	12	233	241559.2	1821.4	2185.7	2367.8	1875.6	2271.9	2536.1	4015.4
13 53-1046	O	32	0.438	98.4	38.03	43.54	49.05	0.472	9.2	1574.7	410.1	492.1	533.1	422.3	511.5	571	904.1
14		812.8	11.112	5291.4	185.7	212.59	239.48	12	233	215041.1	1824.1	2189	2371.4	1878.4	2275.3	2539.9	4021.4
15 53-792	O	22	0.75	99	57.25	65.39	73.54	0.472	9.2	1089.3	412.6	495.1	536.4	424.9	514.7	574.5	909.6
16		558.8	19.05	5323.9	279.5	319.29	359.08	12	233	148750.3	1835.4	2202.4	2386	1890	2289.3	2555.5	4046.2
17 55-995	O	30	0.5	103	42.44	48.54	54.64	0.472	9.2	1544.6	429.1	514.9	557.8	441.8	535.2	597.4	945.9
18		762	12.7	5536.1	207.23	236.99	266.76	12	233	210926.6	1908.5	2290.2	2481.1	1965.3	2380.5	2657.3	4207.5
19 55-1147	O	36	0.394	103	35.14	40.22	45.3	0.472	9.2	1854.2	429.2	515.1	558	442	535.4	597.6	946.2
20		914.4	10	5538.3	171.58	196.38	221.18	12	233	253209	1909.2	2291.1	2482	1966.1	2381.4	2658.4	4209.1
21 56-843	O	24	0.688	103.2	54.07	61.76	69.46	0.472	9.2	1238.4	430	516	559	442.8	536.4	598.7	948
22		609.6	17.462	5548.5	264	301.56	339.12	12	233	169118.2	1912.8	2295.3	2486.6	1969.7	2385.9	2663.3	4216.9
23 57-1198	O	38	0.375	105	33.85	38.74	43.63	0.472	9.2	1995.5	437.6	525.1	568.9	450.6	545.8	609.3	964.7
24		965.2	9.525	5646.5	165.28	189.14	213.01	12	233	272502.1	1946.6	2335.9	2530.5	2004.5	2428	2710.3	4291.4
25 57-944	O	28	0.562	105.2	46.61	53.27	59.93	0.472	9.2	1473.5	438.5	526.2	570.1	451.6	547	610.6	966.8
26		711.2	14.288	5658.6	227.59	260.11	292.63	12	233	201219	1950.7	2340.9	2535.9	2008.8	2433.2	2716.1	4300.5
27 57-1046	O	32	0.472	105.9	40.74	46.59	52.43	0.472	9.2	1694.9	441.4	529.7	573.8	454.5	550.5	614.6	973.1
28		812.8	12	5695.2	198.92	227.46	256	12	233	231452.5	1963.3	2356	2552.4	2021.8	2448.9	2733.7	4328.3



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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)
57-1097	O	34	0.438	106.2	38.35	43.86	49.38	0.472	9.2	1805.7	442.6	531.1	575.3	455.7	552	616.2	975.7
		863.6	11.112	5710.6	187.26	214.17	241.08	12	233	246582.2	1968.6	2362.4	2559.2	2027.3	2455.5	2741.1	4340
59-1198	O	38	0.394	110.1	35.37	40.44	45.52	0.472	9.2	2091.9	458.8	550.5	596.4	472.4	572.2	638.7	1011.3
		965.2	10	5919.3	172.67	197.46	222.26	12	233	285667.7	2040.6	2448.7	2652.8	2101.4	2545.3	2841.3	4498.7
60-843	O	24	0.75	111.7	58.43	66.67	74.91	0.472	9.2	1340.4	465.4	558.5	605	479.3	580.5	648	1026
		609.6	19.05	6005.4	285.3	325.53	365.75	12	233	183044.1	2070.3	2484.3	2691.4	2131.9	2582.3	2882.6	4564.1
60-1249	O	40	0.375	111.8	34.04	38.93	43.81	0.472	9.2	2236.1	465.9	559	605.6	479.7	581.1	648.6	1027
		1016	9.525	6011	166.2	190.05	213.9	12	233	305358.7	2072.2	2486.7	2693.9	2133.9	2584.7	2885.3	4568.4
60-1046	O	32	0.5	111.8	42.87	48.99	55.1	0.472	9.2	1789.1	465.9	559.1	605.7	479.8	581.1	648.7	1027.1
		812.8	12.7	6011.8	209.33	239.17	269.01	12	233	244319.2	2072.5	2487	2694.2	2134.2	2585.1	2885.7	4569
61-1147	O	36	0.438	114.1	38.64	44.16	49.68	0.472	9.2	2053	475.2	570.3	617.8	489.4	592.8	661.7	1047.7
		914.4	11.112	6131.9	188.67	215.6	242.54	12	233	280350.4	2113.9	2536.7	2748.1	2176.8	2636.7	2943.3	4660.2
62-1097	O	34	0.472	114.3	41.1	46.96	52.81	0.472	9.2	1943.9	476.4	571.7	619.4	490.6	594.3	663.4	1050.3
		863.6	12	6147.6	200.68	229.26	257.85	12	233	265452.3	2119.3	2543.2	2755.1	2182.4	2643.5	2950.8	4672.2
62-995	O	30	0.562	115.1	47.18	53.87	60.56	0.472	9.2	1726.8	479.7	575.6	623.6	493.9	598.3	667.9	1057.4
		762	14.288	6189.1	230.36	263.02	295.68	12	233	235806	2133.6	2560.4	2773.7	2197.1	2661.3	2970.8	4703.7
63-944	O	28	0.625	116.2	51.24	58.48	65.72	0.472	9.2	1626.2	484	580.8	629.2	498.4	603.7	673.9	1067
		711.2	15.875	6245.1	250.18	285.52	320.87	12	233	222074.8	2152.9	2583.5	2798.8	2217	2685.4	2997.6	4746.3
63-1249	O	40	0.394	117.2	35.57	40.65	45.72	0.472	9.2	2344.3	488.4	586.1	634.9	502.9	609.2	680	1076.7
		1016	10	6301.9	173.68	198.46	223.25	12	233	320136.1	2172.5	2607	2824.2	2237.2	2709.8	3024.9	4789.4
64-1300	O	42	0.375	118.6	34.21	39.1	43.98	0.472	9.2	2490.7	494.2	593	642.5	508.9	616.4	688.1	1089.5
		1066.8	9.525	6376.7	167.05	190.88	214.72	12	233	340132.3	2198.3	2637.9	2857.8	2263.7	2742	3060.8	4846.3
65-843	O	24	0.812	120.1	62.77	71.55	80.34	0.472	9.2	1440.7	500.2	600.3	650.3	515.1	624	696.5	1102.8
		609.6	20.638	6454.7	306.49	349.36	392.23	12	233	196739.9	2225.2	2670.2	2892.7	2291.4	2775.5	3098.3	4905.6
65-1097	O	34	0.5	120.7	43.27	49.39	55.52	0.472	9.2	2052.2	503	603.6	653.9	518	627.4	700.4	1108.9
		863.6	12.7	6490.3	211.24	241.15	271.06	12	233	280251.7	2237.5	2684.9	2908.7	2304.1	2790.8	3115.3	4932.6
66-1198	O	38	0.438	121.9	38.91	44.43	49.95	0.472	9.2	2316.6	508	609.6	660.4	523.1	633.7	707.3	1120
		965.2	11.112	6555.1	189.97	216.92	243.87	12	233	316348.7	2259.8	2711.7	2937.7	2327.1	2818.7	3146.4	4981.9



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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)
66-1147	O	36	0.472	122.8	41.43	47.29	53.16	0.472	9.2	2210.4	511.7	614	665.2	526.9	638.2	712.4	1128
		914.4	12	6602.3	202.27	230.91	259.54	12	233	301856.4	2276.1	2731.3	2958.9	2343.8	2839	3169.1	5017.7
67-893	O	26	0.75	124.2	59.49	67.81	76.12	0.472	9.2	1615.2	517.7	621.2	673	533.1	645.7	720.8	1141.3
		660.4	19.05	6679.7	290.45	331.06	371.67	12	233	220564.4	2302.8	2763.3	2993.6	2371.3	2872.3	3206.3	5076.6
67-1300	O	42	0.394	124.4	35.76	40.84	45.91	0.472	9.2	2611.4	518.1	621.8	673.6	533.6	646.3	721.4	1142.3
		1066.8	10	6685.7	174.6	199.38	224.16	12	233	356615.6	2304.8	2765.8	2996.3	2373.4	2874.9	3209.1	5081.1
67-1046	O	32	0.562	125.1	47.69	54.41	61.12	0.472	9.2	2000.9	521.1	625.3	677.4	536.6	649.9	725.5	1148.7
		812.8	14.288	6723.5	232.86	265.65	298.43	12	233	273244.4	2317.9	2781.4	3013.2	2386.9	2891.1	3227.3	5109.9
67-1351	O	44	0.375	125.4	34.37	39.25	44.13	0.472	9.2	2759.4	522.6	627.1	679.4	538.2	651.9	727.7	1152.1
		1117.6	9.525	6743.4	167.83	191.66	215.48	12	233	376822.9	2324.7	2789.7	3022.1	2393.9	2899.7	3236.8	5125
68-944	O	28	0.688	126.9	55.85	63.66	71.48	0.472	9.2	1776.8	528.8	634.6	687.5	544.6	659.6	736.3	1165.8
		711.2	17.462	6823.4	272.67	310.82	348.97	12	233	242640.3	2352.3	2822.7	3058	2422.3	2934.1	3275.2	5185.8
68-995	O	30	0.625	127.1	51.9	59.18	66.46	0.472	9.2	1906.6	529.6	635.5	688.5	545.4	660.6	737.4	1167.6
		762	15.875	6833.7	253.4	288.94	324.47	12	233	260364.8	2355.8	2827	3062.6	2426	2938.5	3280.2	5193.6
69-843	O	24	0.875	128.3	67.09	76.41	85.73	0.472	9.2	1539.3	534.5	641.4	694.8	550.4	666.7	744.2	1178.3
		609.6	22.225	6896.6	327.55	373.06	418.56	12	233	210207.7	2377.5	2853	3090.8	2448.3	2965.5	3310.4	5241.4
70-1147	O	36	0.5	129.7	43.62	49.76	55.9	0.472	9.2	2334	540.3	648.3	702.4	556.4	673.9	752.3	1191.1
		914.4	12.7	6971.3	212.98	242.95	272.92	12	233	318728.4	2403.3	2883.9	3124.3	2474.8	2997.7	3346.2	5298.2
70-1249	O	40	0.438	129.8	39.15	44.68	50.2	0.472	9.2	2596.5	540.9	649.1	703.2	557	674.7	753.2	1192.6
		1016	11.112	6979.9	191.16	218.13	245.1	12	233	354580.5	2406.2	2887.5	3128.1	2477.9	3001.4	3350.4	5304.7
71-1198	O	38	0.472	131.3	41.73	47.6	53.47	0.472	9.2	2494.7	547.1	656.5	711.2	563.4	682.4	761.7	1206.1
		965.2	12	7059	203.73	232.41	261.08	12	233	340669.3	2433.5	2920.2	3163.6	2506	3035.4	3388.3	5364.9
71-1351	O	44	0.394	131.5	35.94	41.01	46.08	0.472	9.2	2893.3	548	657.6	712.4	564.3	683.5	763	1208.1
		1117.6	10	7070.7	175.45	200.23	225	12	233	395109.6	2437.5	2925	3168.8	2510.1	3040.4	3393.9	5373.7
71-855	O	24.5	0.875	132	67.43	76.77	86.12	0.472	9.2	1616.9	550	659.9	714.9	566.3	686	765.7	1212.4
		622.3	22.225	7096.2	329.2	374.84	420.49	12	233	220798	2446.3	2935.6	3180.2	2519.1	3051.4	3406.2	5393.1
73-1097	O	34	0.562	135.1	48.16	54.9	61.63	0.472	9.2	2296	562.7	675.3	731.6	579.5	701.9	783.5	1240.6
		863.6	14.288	7261.2	235.14	268.03	300.93	12	233	313540	2503.2	3003.9	3254.2	2577.7	3122.3	3485.4	5518.5



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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)		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)
73-843	O	24	0.938	136.4	71.38	81.24	91.09	0.472	9.2	1636.3	568.2	681.8	738.6	585.1	708.7	791.1	1252.5
		609.6	23.812	7331	348.5	396.63	444.75	12	233	223450	2527.3	3032.7	3285.5	2602.5	3152.3	3518.9	5571.6
74-944	O	28	0.75	137.5	60.43	68.82	77.2	0.472	9.2	1925.3	573	687.6	744.9	590.1	714.7	797.8	1263.2
		711.2	19.05	7393.6	295.05	336	376.95	12	233	262917.8	2548.9	3058.6	3313.5	2624.7	3179.3	3548.9	5619.2
74-1300	O	42	0.438	137.8	39.38	44.9	50.43	0.472	9.2	2892.9	574	688.8	746.2	591.1	715.9	799.2	1265.4
		1066.8	11.112	7406.2	192.26	219.24	246.23	12	233	395047.7	2553.2	3063.8	3319.2	2629.2	3184.7	3555	5628.7
74-1046	O	32	0.625	138.1	52.5	59.81	67.12	0.472	9.2	2210.2	575.6	690.7	748.2	592.7	717.9	801.4	1268.9
		812.8	15.875	7426.7	256.3	292.02	327.73	12	233	301821.6	2560.3	3072.3	3328.3	2636.5	3193.5	3564.8	5644.3
75-1198	O	38	0.5	138.7	43.95	50.1	56.25	0.472	9.2	2634.4	577.7	693.3	751	594.9	720.6	804.4	1273.6
		965.2	12.7	7454.5	214.57	244.6	274.63	12	233	359754.6	2569.9	3083.8	3340.8	2646.4	3205.4	3578.2	5665.4
75-995	O	30	0.688	138.9	56.6	64.46	72.33	0.472	9.2	2084.1	578.9	694.7	752.6	596.2	722.1	806.1	1276.3
		762	17.462	7469.9	276.33	314.74	353.14	12	233	284605	2575.2	3090.2	3347.7	2651.8	3212.1	3585.6	5677.2
75-1452	O	48	0.375	139.1	34.66	39.54	44.41	0.472	9.2	3339	579.7	695.6	753.6	596.9	723.1	807.1	1277.9
		1219.2	9.525	7479.7	169.24	193.04	216.84	12	233	455964.7	2578.5	3094.3	3352.1	2655.3	3216.3	3590.3	5684.6
75-1249	O	40	0.472	139.8	42	47.88	53.76	0.472	9.2	2796.5	582.6	699.1	757.4	600	726.7	811.2	1284.4
		1016	12	7517.6	205.08	233.79	262.5	12	233	381893.5	2591.6	3109.9	3369.1	2668.7	3232.6	3608.4	5713.4
78-843	O	24	1	144.3	75.65	86.03	96.42	0.472	9.2	1731.6	601.3	721.5	781.6	619.2	750	837.2	1325.5
		609.6	25.4	7758.2	369.33	420.06	470.79	12	233	236470.4	2674.6	3209.5	3476.9	2754.2	3336	3723.9	5896.2
78-1147	O	36	0.562	145.1	48.58	55.34	62.1	0.472	9.2	2612.1	604.6	725.6	786	622.6	754.2	841.9	1333
		914.4	14.288	7801.8	237.2	270.2	303.2	12	233	356698.6	2689.6	3227.5	3496.5	2769.6	3354.8	3744.9	5929.4
78-1351	O	44	0.438	145.7	39.58	45.12	50.65	0.472	9.2	3205.6	607.1	728.5	789.3	625.2	757.3	845.3	1338.4
		1117.6	11.112	7833.8	193.27	220.27	247.28	12	233	437752.1	2700.6	3240.7	3510.8	2781	3368.5	3760.2	5953.7
78-1452	O	48	0.394	145.9	36.25	41.32	46.39	0.472	9.2	3501.4	607.9	729.5	790.2	626	758.2	846.4	1340.1
		1219.2	10	7843.6	176.98	201.75	226.52	12	233	478142.8	2704	3244.8	3515.2	2784.5	3372.7	3764.9	5961.1
79-1503	O	50	0.375	146	34.79	39.66	44.54	0.472	9.2	3649.8	608.3	730	790.8	626.4	758.8	847	1341.1
		1270	9.525	7849.1	169.87	193.66	217.45	12	233	498417.8	2705.9	3247.1	3517.6	2786.4	3375.1	3767.6	5965.3
79-1249	O	40	0.5	147.7	44.25	50.41	56.57	0.472	9.2	2953.5	615.3	738.4	799.9	633.6	767.5	856.7	1356.5
		1016	12.7	7939.6	216.04	246.12	276.2	12	233	403332.3	2737.1	3284.5	3558.2	2818.6	3414	3811	6034.1



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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)		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)
80-944	O	28	0.812	148	64.99	73.95	82.91	0.472	9.2	2071.7	616.6	739.9	801.6	634.9	769.1	858.5	1359.3
		711.2	20.638	7955.9	317.32	361.06	404.79	12	233	282910.4	2742.7	3291.2	3565.5	2824.3	3421	3818.8	6046.5
80-1300	O	42	0.472	148.4	42.26	48.14	54.03	0.472	9.2	3116.1	618.3	741.9	803.8	636.7	771.2	860.9	1363
		1066.8	12	7977.7	206.32	235.06	263.81	12	233	425530.9	2750.2	3300.3	3575.3	2832.1	3430.4	3829.3	6063.1
80-1097	O	34	0.625	149.2	53.03	60.38	67.73	0.472	9.2	2537	621.8	746.2	808.4	640.3	775.6	865.8	1370.8
		863.6	15.875	8023.4	258.94	294.81	330.68	12	233	346451.8	2766	3319.2	3595.8	2848.3	3450.1	3851.2	6097.8
81-995	O	30	0.75	150.6	61.28	69.73	78.18	0.472	9.2	2259.3	627.6	753.1	815.9	646.3	782.8	873.8	1383.6
		762	19.05	8097.9	299.17	340.43	381.69	12	233	308528.6	2791.6	3350	3629.1	2874.7	3482.1	3887	6154.4
81-1046	O	32	0.688	151.1	57.28	65.19	73.1	0.472	9.2	2416.9	629.4	755.3	818.2	648.1	785.1	876.4	1387.6
		812.8	17.462	8121.3	279.65	318.28	356.91	12	233	330051.6	2799.7	3359.7	3639.7	2883.1	3492.2	3898.2	6172.2
82-1554	O	52	0.375	152.9	34.91	39.78	44.65	0.472	9.2	3974.8	637	764.4	828.1	655.9	794.5	886.9	1404.3
		1320.8	9.525	8219.1	170.46	194.24	218.02	12	233	542792.5	2833.5	3400.1	3683.5	2917.8	3534.2	3945.2	6246.6
82-1503	O	50	0.394	153.1	36.39	41.46	46.53	0.472	9.2	3827.5	637.9	765.5	829.3	656.9	795.7	888.2	1406.3
		1270	10	8231.3	177.67	202.43	227.2	12	233	522684.6	2837.6	3405.1	3688.9	2922.1	3539.4	3951	6255.8
83-1198	O	38	0.562	155.2	48.97	55.75	62.53	0.472	9.2	2949.1	646.7	776.1	840.7	666	806.7	900.5	1425.8
		965.2	14.288	8344.9	239.1	272.19	305.29	12	233	402723.3	2876.8	3452.1	3739.8	2962.4	3588.3	4005.5	6342.1
84-1300	O	42	0.5	156.7	44.52	50.7	56.87	0.472	9.2	3291.4	653	783.7	849	672.5	814.6	909.3	1439.7
		1066.8	12.7	8426.4	217.39	247.52	277.65	12	233	449464.5	2904.9	3485.9	3776.4	2991.4	3623.4	4044.7	6404.1
84-1351	O	44	0.472	157	42.49	48.39	54.28	0.472	9.2	3453.3	654	784.8	850.3	673.5	815.8	910.7	1441.9
		1117.6	12	8439.2	207.46	236.24	265.02	12	233	471584.5	2909.3	3491.2	3782.1	2995.9	3628.9	4050.8	6413.8
85-944	O	28	0.875	158.3	69.53	79.06	88.58	0.472	9.2	2216	659.5	791.4	857.4	679.2	822.7	918.3	1454
		711.2	22.225	8510.2	339.49	386	432.5	12	233	302621.3	2933.8	3520.5	3813.9	3021.1	3659.4	4084.9	6467.7
86-1605	O	54	0.375	159.8	35.03	39.89	44.76	0.472	9.2	4313.8	665.7	798.9	865.4	685.5	830.4	926.9	1467.6
		1371.6	9.525	8589.8	171.01	194.78	218.55	12	233	589090.7	2961.2	3553.5	3849.6	3049.4	3693.6	4123.1	6528.3
86-1554	O	52	0.394	160.3	36.52	41.59	46.66	0.472	9.2	4168.5	668	801.6	868.4	687.9	833.2	930.1	1472.7
		1320.8	10	8619.7	178.31	203.07	227.83	12	233	569245.1	2971.5	3565.8	3863	3060	3706.5	4137.5	6551
86-1147	O	36	0.625	160.4	53.53	60.9	68.28	0.472	9.2	2887.1	668.3	802	868.8	688.2	833.6	930.5	1473.3
		914.4	15.875	8623.4	261.34	297.36	333.37	12	233	394261.8	2972.8	3567.4	3864.7	3061.3	3708.1	4139.2	6553.8



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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)	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)
87-1452	O	48	0.438	161.7	39.96	45.49	51.03	0.472	9.2	3880.2	673.7	808.4	875.7	693.7	840.3	938	1485.1
		1219.2	11.112	8692.2	195.09	222.12	249.15	12	233	529879.5	2996.5	3595.9	3895.5	3085.7	3737.7	4172.3	6606.1
87-995	O	30	0.812	162.1	65.93	74.96	84	0.472	9.2	2432.2	675.6	810.7	878.3	695.7	842.7	940.7	1489.4
		762	20.638	8717.6	321.91	366.01	410.11	12	233	332140.7	3005.3	3606.3	3906.9	3094.7	3748.6	4184.4	6625.4
88-1097	O	34	0.688	163.3	57.89	65.85	73.8	0.472	9.2	2775.3	680.2	816.3	884.3	700.5	848.4	947.1	1499.6
		863.6	17.462	8776.9	282.65	321.49	360.32	12	233	378988.7	3025.7	3630.9	3933.5	3115.8	3774.1	4212.9	6670.5
88-1046	O	32	0.75	163.8	62.04	70.55	79.05	0.472	9.2	2621.1	682.6	819.1	887.4	702.9	851.4	950.4	1504.8
		812.8	19.05	8807.5	302.9	344.43	385.97	12	233	357937.5	3036.3	3643.5	3947.2	3126.7	3787.2	4227.6	6693.7
89-1249	O	40	0.562	165.4	49.33	56.12	62.92	0.472	9.2	3307.1	689	826.8	895.7	709.5	859.4	959.3	1518.9
		1016	14.288	8890.1	240.84	274.02	307.2	12	233	451618.1	3064.8	3677.7	3984.2	3156	3822.8	4267.3	6756.5
89-1351	O	44	0.5	165.8	44.78	50.96	57.14	0.472	9.2	3647.9	690.9	829.1	898.2	711.5	861.8	962	1523.1
		1117.6	12.7	8914.7	218.64	248.81	278.98	12	233	498153.4	3073.2	3687.9	3995.2	3164.7	3833.3	4279.1	6775.2
90-1655	O	56	0.375	166.7	35.13	40	44.87	0.472	9.2	4667	694.5	833.4	902.8	715.2	866.3	967	1531
		1422.4	9.525	8961.1	171.53	195.29	219.06	12	233	637314.2	3089.2	3707.1	4016	3181.2	3853.3	4301.3	6810.4
90-1605	O	54	0.394	167.6	36.64	41.71	46.79	0.472	9.2	4524.2	698.2	837.8	907.6	719	870.9	972.1	1539.2
		1371.6	10	9008.8	178.91	203.67	228.43	12	233	617824.4	3105.7	3726.8	4037.4	3198.1	3873.8	4324.2	6846.7
91-944	O	28	0.938	168.5	74.05	84.14	94.23	0.472	9.2	2358.3	701.9	842.3	912.5	722.8	875.5	977.3	1547.4
		711.2	23.812	9056.6	361.55	410.82	460.08	12	233	322052.5	3122.2	3746.6	4058.8	3215.1	3894.3	4347.2	6883
91-1503	O	50	0.438	169.7	40.12	45.66	51.2	0.472	9.2	4242.2	707	848.4	919.1	728.1	881.9	984.4	1558.7
		1270	11.112	9122.9	195.9	222.95	249.99	12	233	579304.7	3145	3774	4088.5	3238.6	3922.9	4379	6933.4
92-1198	O	38	0.625	171.6	53.98	61.38	68.79	0.472	9.2	3260.6	715	858	929.5	736.3	891.9	995.6	1576.3
		965.2	15.875	9226.2	263.54	299.69	335.84	12	233	445257.1	3180.6	3816.7	4134.8	3275.3	3967.3	4428.6	7011.9
93-995	O	30	0.875	173.5	70.57	80.18	89.79	0.472	9.2	2602.8	723	867.6	939.9	744.5	901.8	1006.7	1593.9
		762	22.225	9329.2	344.54	391.47	438.4	12	233	355442.2	3216.1	3859.3	4181	3311.9	4011.6	4478	7090.2
94-1452	O	48	0.472	174.2	42.91	48.82	54.72	0.472	9.2	4181	725.9	871	943.6	747.5	905.4	1010.7	1600.2
		1219.2	12	9365.9	209.51	238.34	267.18	12	233	570946.2	3228.8	3874.5	4197.4	3324.9	4027.3	4495.6	7118.1
94-1655	O	56	0.394	174.8	36.76	41.83	46.9	0.472	9.2	4894.8	728.4	874.1	946.9	750.1	908.5	1014.2	1605.8
		1422.4	10	9398.5	179.47	204.23	228.98	12	233	668424.5	3240	3888	4212	3336.5	4041.4	4511.3	7142.9



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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)
94-1147	O	36	0.688	175.5	58.45	66.45	74.44	0.472	9.2	3159.2	731.3	877.6	950.7	753.1	912.2	1018.2	1612.2
		914.4	17.462	9436.2	285.39	324.41	363.44	12	233	431422.3	3253	3903.6	4228.9	3349.8	4057.6	4529.4	7171.5
94-1300	O	42	0.562	175.5	49.66	56.47	63.28	0.472	9.2	3686.2	731.4	877.7	950.8	753.2	912.3	1018.4	1612.4
		1066.8	14.288	9437.3	242.44	275.7	308.97	12	233	503386.7	3253.4	3904.1	4229.4	3350.2	4058	4529.9	7172.4
95-1046	O	32	0.812	176.4	66.78	75.88	84.98	0.472	9.2	2822.8	735.1	882.1	955.6	757	916.9	1023.5	1620.6
		812.8	20.638	9485.3	326.05	370.48	414.91	12	233	385483.8	3270	3923.9	4250.9	3367.3	4078.7	4553	7208.9
95-1097	O	34	0.75	177.1	62.73	71.29	79.85	0.472	9.2	3010.8	737.9	885.5	959.3	759.9	920.5	1027.5	1626.9
		863.6	19.05	9521.9	306.27	348.06	389.85	12	233	411153.6	3282.5	3939	4267.3	3380.3	4094.4	4570.5	7236.6
96-1554	O	52	0.438	177.7	40.28	45.82	51.36	0.472	9.2	4620.5	740.5	888.6	962.6	762.5	923.6	1031	1632.4
		1320.8	11.112	9554.4	196.67	223.72	250.78	12	233	630973.1	3293.8	3952.5	4281.9	3391.8	4108.4	4586.1	7261.4
96-944	O	28	1	178.5	78.55	89.2	99.85	0.472	9.2	2498.6	743.6	892.4	966.7	765.8	927.6	1035.4	1639.4
		711.2	25.4	9595.2	383.51	435.52	487.53	12	233	341206.3	3307.8	3969.4	4300.2	3406.3	4125.9	4605.7	7292.4
98-1503	O	50	0.472	182.9	43.1	49.01	54.92	0.472	9.2	4571.3	761.9	914.3	990.5	784.6	950.3	1060.8	1679.6
		1270	12	9830.8	210.43	239.29	268.15	12	233	624257.5	3389.1	4066.9	4405.8	3489.9	4227.3	4718.8	7471.4
98-1249	O	40	0.625	182.9	54.39	61.82	69.25	0.472	9.2	3657.3	761.9	914.3	990.5	784.6	950.4	1060.9	1679.8
		1016	15.875	9831.5	265.56	301.83	338.1	12	233	499440.4	3389.3	4067.1	4406.1	3490.2	4227.5	4719.1	7471.9
99-1452	O	48	0.5	184.1	45.24	51.43	57.63	0.472	9.2	4417.2	766.9	920.2	996.9	789.7	956.5	1067.8	1690.6
		1219.2	12.7	9895.1	220.87	251.12	281.38	12	233	603208.2	3411.2	4093.5	4434.6	3512.8	4254.9	4749.7	7520.3
99-995	O	30	0.938	184.7	75.18	85.37	95.56	0.472	9.2	2771.2	769.8	923.7	1000.7	792.7	960.2	1071.8	1697.1
		762	23.812	9932.7	367.08	416.83	466.58	12	233	378437.2	3424.2	4109	4451.4	3526.1	4271.1	4767.7	7548.9
100-1351	O	44	0.562	185.7	49.96	56.79	63.62	0.472	9.2	4086.4	773.9	928.7	1006.1	797	965.3	1077.6	1706.2
		1117.6	14.288	9986.2	243.93	277.26	310.6	12	233	558030.5	3442.6	4131.2	4475.4	3545.1	4294.1	4793.4	7589.5
100-1605	O	54	0.438	185.8	40.43	45.97	51.51	0.472	9.2	5015.3	774	928.8	1006.2	797	965.4	1077.6	1706.3
		1371.6	11.112	9986.7	197.38	224.45	251.52	12	233	684887.2	3442.8	4131.3	4475.6	3545.3	4294.3	4793.6	7589.9
101-1198	O	38	0.688	187.8	58.97	66.99	75.02	0.472	9.2	3568.9	782.6	939.2	1017.4	805.9	976.2	1089.7	1725.4
		965.2	17.462	10098.6	287.9	327.09	366.29	12	233	487358.5	3481.4	4177.6	4525.8	3585	4342.4	4847.3	7674.9
102-1046	O	32	0.875	188.9	71.5	81.19	90.88	0.472	9.2	3022.1	787	944.4	1023.1	810.4	981.6	1095.8	1735
		812.8	22.225	10154.8	349.11	396.42	443.73	12	233	412691.7	3500.8	4200.9	4551	3605	4366.6	4874.3	7717.7



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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)
102-1147	O	36	0.75	190.5	63.36	71.97	80.57	0.472	9.2	3428.4	793.6	952.3	1031.7	817.2	989.9	1105	1749.6
		914.4	19.05	10240.2	309.35	351.37	393.39	12	233	468182	3530.2	4236.2	4589.2	3635.3	4403.3	4915.3	7782.6
103-1097	O	34	0.812	190.8	67.55	76.71	85.87	0.472	9.2	3243.6	795	954	1033.5	818.7	991.6	1106.9	1752.7
		863.6	20.638	10258.2	329.81	374.54	419.27	12	233	442949.1	3536.4	4243.7	4597.3	3641.7	4411	4923.9	7796.2
103-1554	O	52	0.472	191.5	43.28	49.19	55.11	0.472	9.2	4979.5	798	957.6	1037.4	821.7	995.4	1111.1	1759.2
		1320.8	12	10296.7	211.29	240.17	269.06	12	233	679991	3549.6	4259.6	4614.5	3655.3	4427.6	4942.4	7825.5
104-1503	O	50	0.5	193.2	45.44	51.65	57.85	0.472	9.2	4830	805	966	1046.5	829	1004.1	1120.8	1774.7
		1270	12.7	10387	221.87	252.16	282.45	12	233	659577.5	3580.8	4297	4655	3687.4	4466.4	4985.8	7894.2
104-1655	O	56	0.438	193.8	40.56	46.11	51.66	0.472	9.2	5426.5	807.5	969	1049.8	831.6	1007.2	1124.4	1780.2
		1422.4	11.112	10419.6	198.05	225.13	252.21	12	233	741041.4	3592	4310.4	4669.6	3699	4480.4	5001.4	7918.9
104-1300	O	42	0.625	194.2	54.77	62.22	69.68	0.472	9.2	4077.5	809	970.8	1051.7	833.1	1009.1	1126.5	1783.6
		1066.8	15.875	10439	267.42	303.81	340.19	12	233	556815.7	3598.7	4318.5	4678.3	3705.8	4488.8	5010.7	7933.6
105-995	O	30	1	195.8	79.78	90.54	101.31	0.472	9.2	2937.4	815.9	979.1	1060.7	840.2	1017.7	1136.1	1798.8
		762	25.4	10528.3	389.52	442.07	494.62	12	233	401126.6	3629.5	4355.4	4718.3	3737.5	4527.2	5053.6	8001.5
108-1605	O	54	0.472	200.2	43.44	49.36	55.28	0.472	9.2	5405.3	834.2	1001	1084.4	859	1040.5	1161.4	1839
		1371.6	12	10763.3	212.1	241	269.91	12	233	738146.6	3710.5	4452.6	4823.7	3821	4628.2	5166.4	8180.1
108-1249	O	40	0.688	200.2	59.44	67.5	75.56	0.472	9.2	4004.1	834.2	1001	1084.5	859	1040.5	1161.5	1839
		1016	17.462	10763.8	290.2	329.55	368.9	12	233	546801.4	3710.7	4452.8	4823.9	3821.2	4628.4	5166.6	8180.5
108-1046	O	32	0.938	201.2	76.21	86.48	96.76	0.472	9.2	3218.9	838.2	1005.9	1089.7	863.2	1045.6	1167.1	1848
		812.8	23.812	10816	372.07	422.25	472.44	12	233	439564	3728.7	4474.4	4847.3	3839.7	4650.9	5191.7	8220.2
109-1554	O	52	0.5	202.4	45.64	51.85	58.06	0.472	9.2	5261.5	843.2	1011.8	1096.2	868.3	1051.7	1174	1858.9
		1320.8	12.7	10879.9	222.81	253.13	283.46	12	233	718509.5	3750.7	4500.9	4875.9	3862.4	4678.4	5222.4	8268.7
110-1198	O	38	0.75	203.9	63.94	72.59	81.24	0.472	9.2	3874	849.6	1019.5	1104.4	874.9	1059.7	1182.9	1872.9
		965.2	19.05	10962.1	312.17	354.4	396.63	12	233	529031.9	3779.1	4534.9	4912.8	3891.6	4713.7	5261.8	8331.2
110-1097	O	34	0.875	204.3	72.35	82.11	91.87	0.472	9.2	3473.8	851.4	1021.7	1106.8	876.8	1062	1185.5	1877
		863.6	22.225	10986.1	353.25	400.91	448.57	12	233	474379	3787.3	4544.8	4923.5	3900.1	4724	5273.3	8349.4
110-1147	O	36	0.812	205.3	68.25	77.47	86.69	0.472	9.2	3694.7	855.3	1026.3	1111.8	880.7	1066.8	1190.8	1885.5
		914.4	20.638	11035.5	333.23	378.23	423.24	12	233	504545.1	3804.4	4565.2	4945.7	3917.6	4745.3	5297.1	8387



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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)
01 111-1351	O	44	0.625	205.5	55.13	62.6	70.07	0.472	9.2	4521	856.3	1027.5	1113.1	881.7	1068	1192.2	1887.7
02 111-1351		1117.6	15.875	11048.4	269.14	305.63	342.12	12	233	617385.6	3808.8	4570.6	4951.4	3922.2	4750.8	5303.2	8396.8
03 111-1452	O	48	0.562	206.2	50.5	57.36	64.21	0.472	9.2	4949.9	859.4	1031.2	1117.2	884.9	1071.9	1196.5	1894.5
04 111-1452		1219.2	14.288	11088.5	246.58	280.05	313.52	12	233	675954.4	3822.6	4587.1	4969.4	3936.4	4768.1	5322.5	8427.3
05 112-1109	O	34.5	0.875	208.2	72.55	82.33	92.11	0.472	9.2	3591.8	867.6	1041.1	1127.9	893.4	1082.2	1208	1912.7
06 112-1109		876.3	22.225	11194.7	354.22	401.97	449.71	12	233	490495.1	3859.2	4631.1	5017	3974.1	4813.7	5373.4	8508
07 112-1655	O	56	0.472	208.9	43.6	49.52	55.45	0.472	9.2	5848.9	870.4	1044.5	1131.5	896.3	1085.6	1211.9	1918.8
08 112-1655		1422.4	12	11230.7	212.85	241.78	270.71	12	233	798725.4	3871.6	4646	5033.1	3986.9	4829.2	5390.7	8535.3
09 114-1605	O	54	0.5	211.6	45.82	52.03	58.25	0.472	9.2	5711.9	881.5	1057.8	1145.9	907.7	1099.5	1227.3	1943.2
10 114-1605		1371.6	12.7	11373.7	223.69	254.04	284.4	12	233	780007.5	3920.9	4705.1	5097.2	4037.7	4890.7	5459.4	8644
11 114-1300	O	42	0.688	212.6	59.87	67.96	76.05	0.472	9.2	4465.1	885.9	1063.1	1151.7	912.3	1105.1	1233.6	1953.1
12 114-1300		1066.8	17.462	11431.5	292.32	331.82	371.32	12	233	609755.3	3940.9	4729	5123.1	4058.2	4915.5	5487.1	8687.9
13 115-1046	O	32	1	213.3	80.89	91.75	102.62	0.472	9.2	3413.2	888.9	1066.6	1155.5	915.3	1108.7	1237.6	1959.6
14 115-1046		812.8	25.4	11469.1	394.94	447.98	501.02	12	233	466104.4	3953.8	4744.6	5140	4071.5	4931.7	5505.2	8716.5
15 116-1503	O	50	0.562	216.5	50.75	57.62	64.48	0.472	9.2	5413.3	902.2	1082.7	1172.9	929.1	1125.4	1256.2	1989
16 116-1503		1270	14.288	11641.5	247.77	281.3	314.83	12	233	739234.9	4013.3	4815.9	5217.2	4132.7	5005.8	5587.9	8847.5
17 117-1249	O	40	0.75	217.4	64.47	73.16	81.85	0.472	9.2	4347.6	905.8	1086.9	1177.5	932.7	1129.8	1261.1	1996.8
18 117-1249		1016	19.05	11687.1	314.76	357.19	399.61	12	233	593705.4	4029	4834.8	5237.7	4148.9	5025.5	5609.8	8882.2
19 117-1097	O	34	0.938	217.7	77.13	87.49	97.85	0.472	9.2	3701.3	907.2	1088.6	1179.3	934.2	1131.5	1263.1	1999.9
20 117-1097		863.6	23.812	11705.5	376.6	427.18	477.76	12	233	505445	4035.3	4842.4	5245.9	4155.5	5033.4	5618.7	8896.2
21 118-1198	O	38	0.812	219.8	68.89	78.16	87.43	0.472	9.2	4176.1	915.8	1099	1190.5	943.1	1142.3	1275.1	2019
22 118-1198		965.2	20.638	11816.8	336.37	381.62	426.87	12	233	570278.8	4073.7	4888.4	5295.8	4195	5081.2	5672.1	8980.8
23 118-1147	O	36	0.875	219.9	73.12	82.95	92.78	0.472	9.2	3958.1	916.2	1099.5	1191.1	943.5	1142.8	1275.7	2019.9
24 118-1147		914.4	22.225	11822.3	357.02	405	452.97	12	233	540513.3	4075.6	4890.7	5298.2	4196.9	5083.6	5674.7	8984.9
25 119-1655	O	56	0.5	220.7	45.98	52.21	58.43	0.472	9.2	6181	919.8	1103.7	1195.7	947.2	1147.3	1280.7	2027.7
26 119-1655		1422.4	12.7	11868.2	224.51	254.9	285.28	12	233	844067.9	4091.4	4909.7	5318.9	4213.2	5103.3	5696.7	9019.8
27 121-1351	O	44	0.688	225.1	60.27	68.39	76.51	0.472	9.2	4951.9	937.9	1125.4	1219.2	965.8	1169.8	1305.8	2067.6
28 121-1351		1117.6	17.462	12101.3	294.29	333.92	373.55	12	233	676223.2	4171.8	5006.1	5423.3	4296	5203.6	5808.6	9197



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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)
122-1554	O	52	0.562	226.8	50.98	57.86	64.73	0.472	9.2	5897.9	945.2	1134.2	1228.7	973.3	1178.9	1316	2083.7
		1320.8	14.288	12195.7	248.89	282.47	316.06	12	233	805406.1	4204.3	5045.2	5465.6	4329.5	5244.2	5854	9268.8
123-1452	O	48	0.625	228.3	55.76	63.27	70.78	0.472	9.2	5478.4	951.1	1141.3	1236.4	979.4	1186.3	1324.3	2096.8
		1219.2	15.875	12272.3	272.23	308.9	345.57	12	233	748120.1	4230.7	5076.9	5499.9	4356.7	5277.1	5890.7	9327
124-1300	O	42	0.75	230.9	64.96	73.68	82.41	0.472	9.2	4849.3	962.2	1154.6	1250.8	990.8	1200.1	1339.7	2121.1
		1066.8	19.05	12414.9	317.15	359.75	402.35	12	233	662208.8	4279.9	5135.8	5563.8	4407.3	5338.4	5959.1	9435.3
124-1097	O	34	1	231	81.9	92.85	103.81	0.472	9.2	3926.2	962.3	1154.7	1251	990.9	1200.3	1339.9	2121.4
		863.6	25.4	12416.6	399.86	453.34	506.83	12	233	536150.8	4280.5	5136.6	5564.6	4407.9	5339.2	5960	9436.7
126-1147	O	36	0.938	234.4	77.98	88.41	98.85	0.472	9.2	4218.6	976.5	1171.8	1269.5	1005.6	1218.1	1359.7	2152.8
		914.4	23.812	12600.4	380.72	431.66	482.6	12	233	576089.4	4343.8	5212.6	5647	4473.1	5418.2	6048.2	9576.3
126-1249	O	40	0.812	234.4	69.48	78.8	88.11	0.472	9.2	4687.8	976.6	1171.9	1269.6	1005.7	1218.2	1359.8	2153
		1016	20.638	12601.5	339.25	384.73	430.21	12	233	640154.5	4344.2	5213	5647.5	4473.5	5418.6	6048.7	9577.1
127-1198	O	38	0.875	235.5	73.83	83.72	93.6	0.472	9.2	4475	981.4	1177.6	1275.8	1010.6	1224.1	1366.4	2163.5
		965.2	22.225	12662.7	360.48	408.74	457.01	12	233	611102.5	4365.3	5238.4	5674.9	4495.3	5445	6078.1	9623.7
128-1605	O	54	0.562	237.2	51.19	58.08	64.97	0.472	9.2	6403.5	988.2	1185.8	1284.7	1017.6	1232.6	1375.9	2178.5
		1371.6	14.288	12750.9	249.93	283.57	317.21	12	233	874454.7	4395.7	5274.8	5714.4	4526.6	5482.9	6120.4	9690.7
129-1757	O	60	0.5	239.2	46.29	52.53	58.76	0.472	9.2	7175.6	996.6	1195.9	1295.6	1026.3	1243.1	1387.6	2197.1
		1524	12.7	12859.4	226.02	256.46	286.9	12	233	979886.2	4433.1	5319.7	5763.1	4565.1	5529.5	6172.5	9773.1
129-1503	O	50	0.625	239.7	56.04	63.57	71.1	0.472	9.2	5992.2	998.7	1198.4	1298.3	1028.4	1245.7	1390.6	2201.7
		1270	15.875	12886.5	273.61	310.37	347.13	12	233	818290.1	4442.5	5330.9	5775.2	4574.7	5541.2	6185.5	9793.7
132-1351	O	44	0.75	244.5	65.41	74.17	82.93	0.472	9.2	5379	1018.7	1222.5	1324.4	1049.1	1270.7	1418.5	2245.9
		1117.6	19.05	13145	319.36	362.12	404.89	12	233	734544.6	4531.6	5437.9	5891.1	4666.5	5652.4	6309.6	9990.2
133-1655	O	56	0.562	247.5	51.39	58.29	65.19	0.472	9.2	6930.3	1031.3	1237.5	1340.7	1062	1286.4	1435.9	2273.5
		1422.4	14.288	13306.9	250.91	284.6	318.29	12	233	946387.6	4587.4	5504.9	5963.6	4724	5722	6387.3	10113.3
134-1147	O	36	1	248.7	82.82	93.85	104.89	0.472	9.2	4476.3	1036.2	1243.4	1347	1067	1292.5	1442.7	2284.3
		914.4	25.4	13370	404.34	458.23	512.12	12	233	611277.5	4609.2	5531	5991.9	4746.4	5749.1	6417.6	10161.2
134-1300	O	42	0.812	249	70.03	79.39	88.74	0.472	9.2	5229.8	1037.7	1245.2	1349	1068.6	1294.3	1444.8	2287.6
		1066.8	20.638	13389.2	341.9	387.59	433.29	12	233	714178.3	4615.8	5538.9	6000.5	4753.2	5757.3	6426.8	10175.8



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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)
135-1452	O	48	0.688	250.1	60.99	69.16	77.33	0.472	9.2	6002.6	1042.1	1250.5	1354.8	1073.1	1299.9	1451	2297.4
		1219.2	17.462	13446.7	297.8	337.67	377.54	12	233	819708	4635.6	5562.7	6026.2	4773.6	5782.1	6454.4	10219.5
135-1198	O	38	0.938	251.1	78.75	89.25	99.75	0.472	9.2	4770.9	1046.2	1255.5	1360.1	1077.4	1305	1456.8	2306.5
		965.2	23.812	13499.9	384.5	435.77	487.04	12	233	651506.4	4653.9	5584.7	6050.1	4792.5	5805	6480	10259.9
135-1554	O	52	0.625	251.1	56.31	63.85	71.39	0.472	9.2	6529.5	1046.4	1255.7	1360.3	1077.5	1305.2	1457	2306.8
		1320.8	15.875	13501.8	274.91	311.74	348.58	12	233	891659.2	4654.6	5585.5	6051	4793.1	5805.8	6480.9	10261.4
135-1249	O	40	0.875	251.2	74.48	84.42	94.36	0.472	9.2	5024.6	1046.8	1256.1	1360.8	1078	1305.7	1457.5	2307.7
		1016	22.225	13506.9	363.65	412.18	460.71	12	233	686152.1	4656.4	5587.6	6053.3	4795	5808	6483.3	10265.3
141-1605	O	54	0.625	262.6	56.55	64.11	71.67	0.472	9.2	7090.2	1094.2	1313	1422.4	1126.7	1364.8	1523.5	2412.2
		1371.6	15.875	14118.3	276.12	313.03	349.94	12	233	968235.1	4867.1	5840.5	6327.3	5012	6070.9	6776.8	10729.9
141-1503	O	50	0.688	262.7	61.32	69.51	77.69	0.472	9.2	6566.6	1094.4	1313.3	1422.8	1127	1365.1	1523.9	2412.8
		1270	17.462	14121.8	299.38	339.36	379.34	12	233	896733.2	4868.3	5842	6328.8	5013.2	6072.4	6778.5	10732.6
142-1351	O	44	0.812	263.7	70.53	79.93	89.33	0.472	9.2	5802.3	1098.9	1318.7	1428.6	1131.6	1370.7	1530.1	2422.6
		1117.6	20.638	14179.5	344.35	390.24	436.13	12	233	792351.5	4888.2	5865.9	6354.7	5033.7	6097.2	6806.2	10776.4
143-1198	O	38	1	266.5	83.66	94.77	105.88	0.472	9.2	5063.7	1110.5	1332.6	1443.6	1143.5	1385.1	1546.2	2448.1
		965.2	25.4	14328.5	408.44	462.71	516.97	12	233	691493.1	4939.6	5927.5	6421.4	5086.6	6161.3	6877.7	10889.7
144-1300	O	42	0.875	267	75.08	85.07	95.06	0.472	9.2	5606.9	1112.5	1335	1446.2	1145.6	1387.6	1549	2452.5
		1066.8	22.225	14354.5	366.57	415.35	464.13	12	233	765667.8	4948.5	5938.2	6433.1	5095.8	6172.4	6890.1	10909.4
144-1249	O	40	0.938	267.9	79.46	90.03	100.59	0.472	9.2	5358.1	1116.3	1339.5	1451.2	1149.5	1392.4	1554.3	2460.9
		1016	23.812	14403.6	387.97	439.54	491.12	12	233	731701.4	4965.5	5958.5	6455.1	5113.3	6193.5	6913.7	10946.7
144-1757	O	60	0.562	268.2	51.76	58.68	65.59	0.472	9.2	8047.2	1117.7	1341.2	1453	1150.9	1394.1	1556.2	2464
		1524	14.288	14421.5	252.71	286.48	320.26	12	233	1098918.6	4971.6	5966	6463.1	5119.6	6201.2	6922.3	10960.3
146-1452	O	48	0.75	271.8	66.22	75.04	83.86	0.472	9.2	6522.6	1132.4	1358.9	1472.1	1166.1	1412.5	1576.7	2496.5
		1219.2	19.05	14611.6	323.31	366.37	409.43	12	233	890724.4	5037.2	6044.6	6548.3	5187.1	6283	7013.6	11104.8
147-1655	O	56	0.625	274.1	56.79	64.36	71.93	0.472	9.2	7674.5	1142	1370.4	1484.6	1176	1424.5	1590.1	2517.7
		1422.4	15.875	14735.9	277.26	314.23	351.21	12	233	1048018.6	5080	6096	6604	5231.3	6336.4	7073.2	11199.3
148-1554	O	52	0.688	275.2	61.62	69.83	78.04	0.472	9.2	7156.5	1146.9	1376.2	1490.9	1181	1430.5	1596.9	2528.4
		1320.8	17.462	14798.3	300.86	340.94	381.02	12	233	977281.5	5101.5	6121.8	6632	5253.4	6363.3	7103.2	11246.7



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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)
152-1351	O	44	0.875	282.8	75.63	85.67	95.71	0.472	9.2	6221.9	1178.4	1414.1	1531.9	1213.5	1469.8	1640.7	2597.8	01
		1117.6	22.225	15204.9	369.28	418.28	467.29	12	233	849652	5241.7	6290.1	6814.2	5397.8	6538.1	7298.4	11555.8	02
153-1249	O	40	1	284.4	84.43	95.61	106.8	0.472	9.2	5688.4	1185.1	1422.1	1540.6	1220.4	1478.2	1650.1	2612.6	03
		1016	25.4	15291.4	412.21	466.82	521.42	12	233	776804.2	5271.5	6325.8	6853	5428.5	6575.3	7339.9	11621.5	04
153-1300	O	42	0.938	284.8	80.12	90.74	101.36	0.472	9.2	5980.4	1186.6	1423.9	1542.6	1221.9	1480.1	1652.2	2615.9	05
		1066.8	23.812	15310.8	391.17	443.02	494.87	12	233	816679.5	5278.2	6333.9	6861.7	5435.3	6583.7	7349.2	11636.2	06
154-1503	O	50	0.75	285.5	66.58	75.43	84.28	0.472	9.2	7136.7	1189.4	1427.3	1546.3	1224.9	1483.6	1656.1	2622.2	07
		1270	19.05	15347.7	325.09	368.28	411.47	12	233	974577.5	5290.9	6349.1	6878.2	5448.4	6599.5	7366.9	11664.2	08
155-1605	O	54	0.688	287.9	61.9	70.13	78.36	0.472	9.2	7772.1	1199.4	1439.3	1559.2	1235.1	1496	1670	2644.2	09
		1371.6	17.462	15476.2	302.24	342.41	382.59	12	233	1061354.9	5335.2	6402.3	6935.8	5494	6654.7	7428.6	11761.9	10
158-1452	O	48	0.812	293.3	71.43	80.9	90.37	0.472	9.2	7038.5	1222	1466.4	1588.5	1258.3	1524.2	1701.4	2693.9	11
		1219.2	20.638	15767.2	348.75	394.99	441.23	12	233	961169.3	5435.6	6522.7	7066.2	5597.4	6779.9	7568.3	11983.1	12
160-1757	O	60	0.625	297.1	57.21	64.81	72.41	0.472	9.2	8913.4	1238	1485.6	1609.4	1274.8	1544.1	1723.7	2729.2	13
		1524	15.875	15973.8	279.33	316.44	353.54	12	233	1217199.8	5506.8	6608.1	7158.8	5670.7	6868.7	7667.4	12140.1	14
161-1554	O	52	0.75	299.2	66.92	75.79	84.67	0.472	9.2	7778.9	1246.6	1495.9	1620.6	1283.7	1554.9	1735.7	2748.3	15
		1320.8	19.05	16085.3	326.74	370.06	413.38	12	233	1062273.1	5545.2	6654.2	7208.8	5710.3	6916.7	7720.9	12224.8	16
162-1655	O	56	0.688	300.5	62.17	70.42	78.66	0.472	9.2	8413.6	1252	1502.4	1627.6	1289.3	1561.7	1743.3	2760.2	17
		1422.4	17.462	16155.1	303.54	343.8	384.06	12	233	1148948.9	5569.3	6683.1	7240	5735.1	6946.7	7754.4	12277.9	18
162-1351	O	44	0.938	301.7	80.72	91.4	102.07	0.472	9.2	6637.8	1257.2	1508.6	1634.3	1294.6	1568.1	1750.4	2771.5	19
		1117.6	23.812	16221.3	394.13	446.24	498.35	12	233	906449	5592.1	6710.5	7269.7	5758.6	6975.2	7786.2	12328.2	20
163-1300	O	42	1	302.4	85.14	96.39	107.64	0.472	9.2	6350.5	1260	1512	1638	1297.5	1571.7	1754.4	2777.8	21
		1066.8	25.4	16258.3	415.69	470.61	525.52	12	233	867217.6	5604.9	6725.8	7286.3	5771.7	6991.1	7804	12356.3	22
165-1313	O	42.5	1	306.9	85.31	96.57	107.84	0.472	9.2	6521.9	1278.8	1534.6	1662.4	1316.9	1595.1	1780.5	2819.2	23
		1079.5	25.4	16500.6	416.52	471.51	526.5	12	233	890618.7	5688.4	6826	7394.9	5857.7	7095.2	7920.3	12540.4	24
166-1503	O	50	0.812	308.1	71.83	81.34	90.84	0.472	9.2	7702.3	1283.7	1540.5	1668.8	1321.9	1601.2	1787.4	2830.1	25
		1270	20.638	16564.1	350.72	397.12	443.52	12	233	1051823	5710.3	6852.3	7423.4	5880.3	7122.6	7950.8	12588.7	26
168-1605	O	54	0.75	312.9	67.24	76.14	85.03	0.472	9.2	8449.2	1303.9	1564.7	1695	1342.7	1626.4	1815.5	2874.5	27
		1371.6	19.05	16824.3	328.3	371.73	415.16	12	233	1153807.8	5800	6959.9	7539.9	5972.6	7234.4	8075.6	12786.4	28

* 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)		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)
169-1452	O	48	0.875	314.6	76.63	86.75	96.87	0.472	9.2	7550.2	1310.8	1573	1704	1349.8	1635	1825.1	2889.8
		1219.2	22.225	16913.5	374.12	423.53	472.94	12	233	1031049.4	5830.7	6996.9	7580	6004.3	7272.8	8118.5	12854.3
172-1351	O	44	1	320.5	85.8	97.11	108.41	0.472	9.2	7050	1335.2	1602.3	1735.8	1375	1665.5	1859.1	2943.6
		1117.6	25.4	17228.6	418.9	474.11	529.32	12	233	962735.1	5939.4	7127.2	7721.2	6116.2	7408.3	8269.7	13093.7
173-1478	O	49	0.875	322.2	76.85	86.99	97.13	0.472	9.2	7894.4	1342.6	1611.1	1745.4	1382.6	1674.6	1869.4	2959.8
		1244.6	22.225	17323.7	375.23	424.73	474.23	12	233	1078050.8	5972.1	7166.5	7763.7	6149.9	7449.2	8315.4	13166
174-1554	O	52	0.812	322.9	72.21	81.74	91.28	0.472	9.2	8396.6	1345.6	1614.7	1749.3	1385.7	1678.4	1873.6	2966.5
		1320.8	20.638	17362.7	352.57	399.11	445.66	12	233	1146634.1	5985.6	7182.7	7781.3	6163.8	7466	8334.1	13195.7
175-1757	O	60	0.688	325.8	62.65	70.93	79.21	0.472	9.2	9774	1357.5	1629	1764.8	1397.9	1693.2	1890.1	2992.7
		1524	17.462	17516.1	305.91	346.33	386.76	12	233	1334729.7	6038.5	7246.2	7850	6218.2	7531.9	8407.7	13312.3
176-1655	O	56	0.75	326.7	67.54	76.46	85.38	0.472	9.2	9147.7	1361.3	1633.5	1769.6	1401.8	1697.9	1895.4	3001
		1422.4	19.05	17564.6	329.76	373.3	416.84	12	233	1249196.6	6055.2	7266.2	7871.7	6235.4	7552.8	8431	13349.1
178-1503	O	50	0.875	330.5	77.07	87.23	97.39	0.472	9.2	8263.6	1377.3	1652.7	1790.4	1418.3	1717.9	1917.7	3036.3
		1270	22.225	17771.2	376.29	425.89	475.48	12	233	1128469.7	6126.4	7351.7	7964.3	6308.8	7641.6	8530.2	13506.1
181-1452	O	48	0.938	335.7	81.81	92.58	103.34	0.472	9.2	8057.8	1398.9	1678.7	1818.6	1440.6	1744.9	1947.8	3084
		1219.2	23.812	18050.6	399.42	451.99	504.57	12	233	1100365	6222.7	7467.3	8089.5	6408	7761.8	8664.3	13718.5
182-1605	O	54	0.812	337.8	72.57	82.13	91.69	0.472	9.2	9121.4	1407.6	1689.1	1829.9	1449.5	1755.8	1959.9	3103.2
		1371.6	20.638	18162.8	354.3	400.98	447.66	12	233	1245606.4	6261.4	7513.7	8139.8	6447.8	7810	8718.2	13803.7
182-1528	O	51	0.875	338.2	77.28	87.46	97.63	0.472	9.2	8623.4	1409.1	1690.9	1831.8	1451	1757.5	1961.9	3106.4
		1295.4	22.225	18181.3	377.33	427.01	476.69	12	233	1177599.8	6267.8	7521.3	8148.1	6454.3	7817.9	8727	13817.8
186-1554	O	52	0.875	346.5	77.49	87.68	97.87	0.472	9.2	9009.8	1443.9	1732.6	1877	1486.9	1801	2010.4	3183.1
		1320.8	22.225	18630.6	378.33	428.09	477.86	12	233	1230364.3	6422.7	7707.2	8349.5	6613.9	8011.2	8942.7	14159.2
190-1655	O	56	0.812	352.7	72.9	82.49	92.07	0.472	9.2	9876.7	1469.7	1763.7	1910.7	1513.5	1833.2	2046.4	3240.2
		1422.4	20.638	18964.4	355.92	402.73	449.54	12	233	1348749.5	6537.8	7845.3	8499.1	6732.4	8154.7	9102.9	14413
190-1503	O	50	0.938	352.8	82.3	93.11	103.92	0.472	9.2	8820.5	1470.1	1764.1	1911.1	1513.9	1833.7	2046.9	3240.9
		1270	23.812	18968.9	401.8	454.58	507.36	12	233	1204524.3	6539.3	7847.1	8501.1	6734	8156.6	9105.1	14416.4
190-1579	O	53	0.875	354.2	77.69	87.89	98.1	0.472	9.2	9385.2	1475.7	1770.8	1918.4	1519.6	1840.6	2054.6	3253.2
		1346.2	22.225	19040.7	379.3	429.14	478.99	12	233	1281627.3	6564	7876.8	8533.2	6759.4	8187.5	9139.5	14470.9



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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)	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)
191-1757	O	60	0.75	354.3	68.09	77.04	86	0.472	9.2	10629.2	1476.3	1771.5	1919.2	1520.2	1841.4	2055.5	3254.6
		1524	19.05	19048.7	332.42	376.16	419.9	12	233	1451508.3	6566.8	7880.1	8536.8	6762.3	8190.9	9143.4	14477
192-1452	O	48	1	356.7	86.98	98.39	109.8	0.472	9.2	8561.3	1486.3	1783.6	1932.2	1530.6	1853.9	2069.5	3276.7
		1219.2	25.4	19178.4	424.65	480.38	536.11	12	233	1169118.3	6611.5	7933.8	8595	6808.3	8246.7	9205.7	14575.6
195-1605	O	54	0.875	362.5	77.88	88.1	98.33	0.472	9.2	9788.8	1510.6	1812.7	1963.8	1555.6	1884.2	2103.3	3330.3
		1371.6	22.225	19491.8	380.23	430.16	480.08	12	233	1336750.6	6719.6	8063.5	8735.4	6919.6	8381.5	9356.1	14813.8
197-1478	O	49	1	365.8	87.25	98.68	110.12	0.472	9.2	8962.5	1524.2	1829.1	1981.5	1569.6	1901.2	2122.3	3360.3
		1244.6	25.4	19667.5	425.97	481.82	537.66	12	233	1223911.6	6780.2	8136.2	8814.2	6982	8457	9440.4	14947.3
199-1554	O	52	0.938	369.9	82.75	93.6	104.45	0.472	9.2	9618.4	1541.4	1849.7	2003.8	1587.3	1922.6	2146.2	3398.2
		1320.8	23.812	19889.2	404.02	457	509.97	12	233	1313483.1	6856.6	8227.9	8913.5	7060.7	8552.4	9546.8	15115.8
199-1630	O	55	0.875	370.2	78.06	88.3	98.55	0.472	9.2	10179.8	1542.4	1850.9	2005.1	1588.3	1923.9	2147.6	3400.3
		1397	22.225	19901.7	381.14	431.14	481.14	12	233	1390135.2	6860.9	8233	8919.1	7065.1	8557.7	9552.8	15125.3
202-1503	O	50	1	374.9	87.51	98.97	110.43	0.472	9.2	9373.1	1562.2	1874.6	2030.8	1608.7	1948.6	2175.1	3444
		1270	25.4	20157.2	427.24	483.2	539.16	12	233	1279984.9	6949	8338.7	9033.6	7155.8	8667.6	9675.5	15319.5
204-1655	O	56	0.875	378.6	78.24	88.5	98.76	0.472	9.2	10600.7	1577.5	1893	2050.7	1624.4	1967.6	2196.4	3477.7
		1422.4	22.225	20354.6	382.02	432.09	482.17	12	233	1447619.9	7017	8420.4	9122.1	7225.9	8752.5	9770.2	15469.5
206-1757	O	60	0.812	382.6	73.5	83.14	92.78	0.472	9.2	11478.8	1594.3	1913.1	2072.6	1641.7	1988.6	2219.8	3514.7
		1524	20.638	20571.3	358.88	405.93	452.98	12	233	1567535.6	7091.7	8510.1	9219.2	7302.8	8845.7	9874.2	15634.2
207-1528	O	51	1	384	87.76	99.24	110.73	0.472	9.2	9793.1	1600.2	1920.2	2080.2	1647.8	1995.9	2228	3527.7
		1295.4	25.4	20647.5	428.47	484.54	540.61	12	233	1337338.7	7118	8541.6	9253.4	7329.9	8878.4	9910.8	15692.1
208-1605	O	54	0.938	387.1	83.18	94.06	104.95	0.472	9.2	10451.5	1612.9	1935.5	2096.7	1660.9	2011.8	2245.7	3555.7
		1371.6	23.812	20811.3	406.11	459.26	512.42	12	233	1427240.4	7174.5	8609.3	9326.8	7388	8948.9	9989.4	15816.6
211-1554	O	52	1	393.2	88	99.51	111.01	0.472	9.2	10222.5	1638.2	1965.9	2129.7	1687	2043.4	2281	3611.6
		1320.8	25.4	21138.3	429.65	485.83	542.01	12	233	1395973.3	7287.2	8744.6	9473.3	7504.1	9089.5	10146.4	16065.1
216-1579	O	53	1	402.3	88.24	99.76	111.29	0.472	9.2	10661.3	1676.3	2011.6	2179.2	1726.2	2090.9	2334	3695.5
		1346.2	25.4	21629.6	430.8	487.09	543.37	12	233	1455888.9	7456.5	8947.8	9693.5	7678.5	9300.7	10382.2	16438.5
217-1655	O	56	0.938	404.3	83.58	94.5	105.42	0.472	9.2	11319.8	1684.5	2021.4	2189.8	1734.6	2101.1	2345.4	3713.6
		1422.4	23.812	21735.3	408.06	461.39	514.72	12	233	1545813.7	7493	8991.6	9740.9	7716	9346.2	10432.9	16518.8



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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)
221-1757	O	60	0.875	410.8	78.91	89.22	99.54	0.472	9.2	12323.1	1711.5	2053.8	2225	1762.5	2134.8	2383.1	3773.2
		1524	22.225	22084.4	385.28	435.63	485.98	12	233	1682828.7	7613.3	9136	9897.3	7839.9	9496.3	10600.5	16784.1
221-1605	O	54	1	411.5	88.46	100.01	111.56	0.472	9.2	11109.4	1714.4	2057.3	2228.7	1765.4	2138.4	2387.1	3779.5
		1371.6	25.4	22121.4	431.92	488.3	544.69	12	233	1517085.8	7626.1	9151.3	9913.9	7853.1	9512.2	10618.3	16812.3
226-1630	O	55	1	420.6	88.68	100.25	111.82	0.472	9.2	11566.9	1752.6	2103.1	2278.3	1804.7	2186	2440.2	3863.7
		1397	25.4	22613.7	433	489.48	545.96	12	233	1579564.4	7795.8	9354.9	10134.5	8027.9	9723.9	10854.6	17186.4
231-1655	O	56	1	429.8	88.9	100.49	112.07	0.472	9.2	12033.8	1790.7	2148.9	2328	1844.1	2233.6	2493.4	3947.8
		1422.4	25.4	23106.4	434.04	490.62	547.19	12	233	1643324.9	7965.6	9558.8	10355.3	8202.8	9935.7	11091.1	17560.8
236-1757	O	60	0.938	438.7	84.31	95.3	106.28	0.472	9.2	13161.9	1828	2193.7	2376.5	1882.5	2280.2	2545.3	4030.1
		1524	23.812	23587.6	411.63	465.27	518.91	12	233	1797376.2	8131.5	9757.8	10571	8373.6	10142.7	11322.1	17926.6
251-1757	O	60	1	466.5	89.69	101.35	113.01	0.472	9.2	13995.4	1943.8	2332.6	2526.9	2001.7	2424.5	2706.5	4285.2
		1524	25.4	25081.2	437.92	494.85	551.77	12	233	1911189.5	8646.5	10375.7	11240.4	8903.8	10784.9	12039	19061.7

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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