

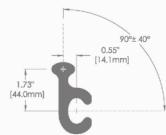
BALL & SOCKET
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-Pile

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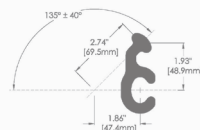
PilePro® Sheet Pile Connectors



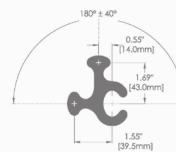
PZ 90



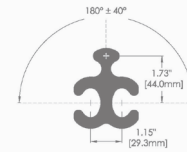
Colt



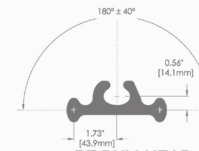
Cobra



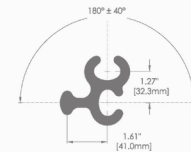
PZ Tee



Joker



Bullhead



PZT-S

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



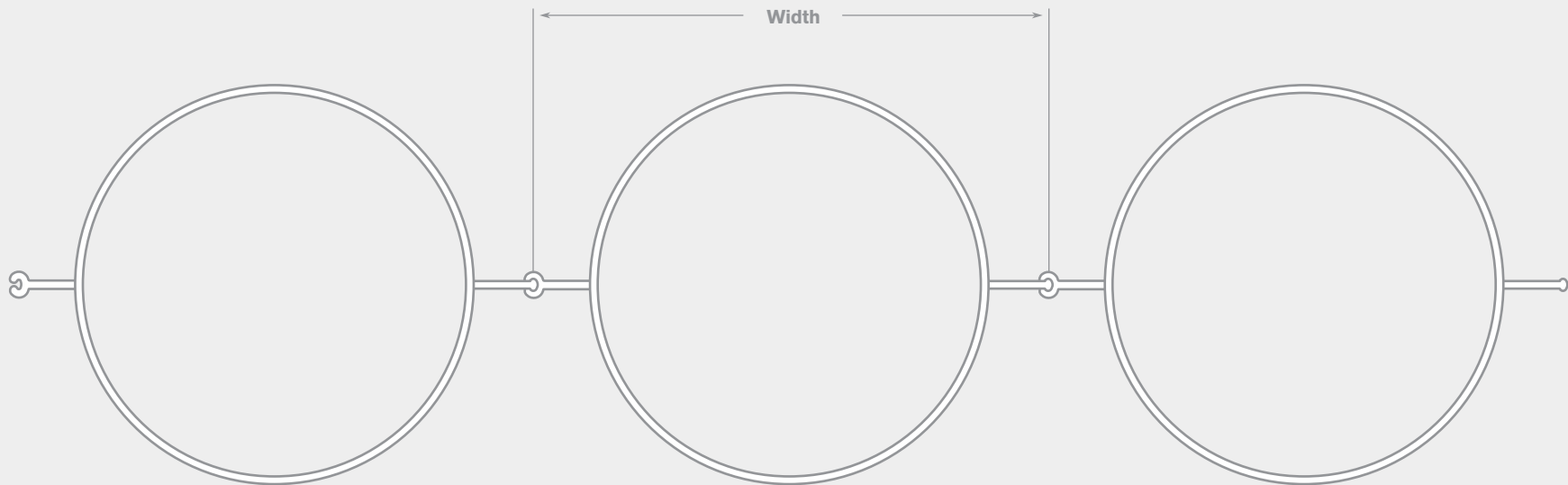
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HOT ROLLED / MULTI-USE

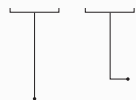


W: 300mm (11.8in)



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)
23-808	O	20	0.375	42	29.52	34.41	39.3	0.472	11.8	420	175	210	227.5	180.2	218.3	243.7	385.8
		508	9.525	2258.2	144.12	168	191.89	12	300	57359.1	778.5	934.2	1012	801.7	971	1084	1716.3
24-808	O	20	0.394	44	30.68	35.72	40.75	0.472	11.8	439.7	183.2	219.9	238.2	188.7	228.5	255.1	403.9
		508	10	2364.2	149.78	174.38	198.97	12	300	60049.8	815	978	1059.5	839.3	1016.6	1134.8	1796.8
26-859	O	22	0.375	47.9	30.05	34.94	39.82	0.472	11.8	527.4	199.8	239.7	259.7	205.7	249.2	278.1	440.4
		558.8	9.525	2577.6	146.71	170.57	194.43	12	300	72019.5	888.6	1066.3	1155.2	915.1	1108.4	1237.3	1959
26-808	O	20	0.438	48.5	33.39	38.76	44.14	0.472	11.8	485.4	202.3	242.7	262.9	208.3	252.3	281.6	445.9
		508	11.112	2609.9	163.01	189.26	215.5	12	300	66290.6	899.7	1079.7	1169.6	926.5	1122.2	1252.7	1983.5
27-859	O	22	0.394	50.3	31.25	36.29	41.33	0.472	11.8	553.6	209.7	251.7	272.6	216	261.6	292	462.3
		558.8	10	2706	152.59	177.19	201.79	12	300	75605.7	932.9	1119.4	1212.7	960.6	1163.6	1298.9	2056.6
28-808	O	20	0.472	52.1	35.54	41.18	46.83	0.472	11.8	521.4	217.3	260.7	282.4	223.7	271	302.5	479
		508	12	2803.5	173.52	201.08	228.64	12	300	71208	966.5	1159.8	1256.4	995.2	1205.5	1345.7	2130.6
29-910	O	24	0.375	54.2	30.52	35.4	40.29	0.472	11.8	650.8	226	271.2	293.8	232.7	281.9	314.7	498.2
		609.6	9.525	2916	149.01	172.85	196.69	12	300	88879.3	1005.3	1206.3	1306.8	1035.2	1253.9	1399.7	2216.2
30-808	O	20	0.5	55	37.23	43.09	48.94	0.472	11.8	549.6	229	274.8	297.7	235.8	285.6	318.8	504.8
		508	12.7	2954.7	181.78	210.37	238.96	12	300	75048.6	1018.6	1222.3	1324.2	1048.9	1270.5	1418.2	2245.5
31-910	O	24	0.394	56.8	31.76	36.8	41.84	0.472	11.8	681.7	236.7	284	307.7	243.7	295.2	329.6	521.8
		609.6	10	3054.2	155.09	179.69	204.29	12	300	93092.6	1052.9	1263.5	1368.8	1084.2	1313.3	1466	2321.2
32-859	O	22	0.472	59.7	36.31	41.97	47.64	0.472	11.8	657.2	249	298.7	323.6	256.4	310.5	346.6	548.8
		558.8	12	3212.3	177.26	204.94	232.62	12	300	89751.9	1107.4	1328.9	1439.6	1140.4	1381.3	1541.9	2441.4
33-808	O	20	0.562	61.2	41.05	47.38	53.72	0.472	11.8	612.5	255.2	306.2	331.7	262.8	318.3	355.3	562.6
		508	14.288	3292.7	200.42	231.35	262.27	12	300	83635.5	1135.1	1362.2	1475.7	1168.9	1415.9	1580.5	2502.5
34-910	O	24	0.438	62.8	34.67	40.08	45.48	0.472	11.8	753.4	261.6	313.9	340.1	269.4	326.3	364.2	576.7
		609.6	11.112	3375.4	169.29	195.67	222.04	12	300	102881.3	1163.6	1396.3	1512.7	1198.3	1451.4	1620.2	2565.3
34-859	O	22	0.5	63	38.06	43.95	49.84	0.472	11.8	693	262.5	315	341.2	270.3	327.4	365.5	578.7
		558.8	12.7	3386.9	185.85	214.6	243.36	12	300	94628.7	1167.6	1401.1	1517.8	1202.3	1456.3	1625.7	2574
36-1011	O	28	0.375	66.9	31.32	36.2	41.07	0.472	11.8	936	278.6	334.3	362.1	286.9	347.5	387.9	614.1
		711.2	9.525	3594.3	152.92	176.73	200.53	12	300	127813.5	1239.1	1486.9	1610.8	1276	1545.6	1725.3	2731.7



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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)
36-808	O	20	0.625	67.4	44.84	51.65	58.46	0.472	11.8	674.1	280.9	337	365.1	289.2	350.3	391.1	619.2
		508	15.875	3624.2	218.94	252.18	285.42	12	300	92053.5	1249.4	1499.3	1624.2	1286.6	1558.4	1739.6	2754.4
36-910	O	24	0.472	67.5	36.99	42.68	48.37	0.472	11.8	810	281.2	337.5	365.6	289.6	350.8	391.6	620
		609.6	12	3629	180.58	208.37	236.16	12	300	110611.3	1251	1501.3	1626.4	1288.3	1560.5	1741.9	2758
38-1011	O	28	0.394	70	32.63	37.67	42.71	0.472	11.8	980.7	291.9	350.2	379.4	300.5	364	406.4	643.4
		711.2	10	3765.9	159.33	183.94	208.55	12	300	133917.1	1298.3	1557.9	1687.7	1336.9	1619.4	1807.7	2862.1
38-910	O	24	0.5	71.2	38.8	44.72	50.64	0.472	11.8	854.3	296.6	355.9	385.6	305.5	370	413	653.9
		609.6	12.7	3827.4	189.46	218.36	247.26	12	300	116657.9	1319.4	1583.3	1715.3	1358.7	1645.8	1837.1	2908.8
39-1062	O	30	0.375	73.3	31.66	36.54	41.41	0.472	11.8	1099.1	305.3	366.4	396.9	314.4	380.8	425.1	673.1
		762	9.525	3939.3	154.59	178.39	202.18	12	300	150088.5	1358	1629.6	1765.4	1398.5	1693.9	1890.9	2993.9
41-1062	O	30	0.394	76.8	33.01	38.05	43.09	0.472	11.8	1151.7	319.9	383.9	415.9	329.4	399	445.4	705.3
		762	10	4128	161.15	185.76	210.37	12	300	157276.8	1423.1	1707.7	1850	1465.4	1775	1981.4	3137.3
42-1011	O	28	0.438	77.5	35.7	41.12	46.55	0.472	11.8	1084.6	322.8	387.4	419.6	332.4	402.6	449.5	711.7
		711.2	11.112	4165.2	174.31	200.79	227.27	12	300	148116.1	1435.9	1723.1	1866.7	1478.7	1791.1	1999.3	3165.6
42-859	O	22	0.625	77.5	45.99	52.86	59.74	0.472	11.8	852.7	323	387.6	419.9	332.6	402.9	449.7	712
		558.8	15.875	4167.5	224.52	258.11	291.7	12	300	116438.6	1436.7	1724	1867.7	1479.4	1792	2000.4	3167.3
43-808	O	20	0.75	79.4	52.35	60.1	67.85	0.472	11.8	793.7	330.7	396.9	429.9	340.6	412.5	460.5	729.1
		508	19.05	4267.4	255.62	293.44	331.27	12	300	108391.6	1471.1	1765.4	1912.5	1514.9	1835	2048.3	3243.2
43-910	O	24	0.562	79.5	42.91	49.35	55.78	0.472	11.8	953.5	331.1	397.3	430.4	340.9	413	461	729.9
		609.6	14.288	4272.1	209.52	240.93	272.33	12	300	130212.2	1472.7	1767.3	1914.6	1516.6	1837	2050.6	3246.8
43-1113	O	32	0.375	79.7	31.97	36.84	41.72	0.472	11.8	1276	332.3	398.7	432	342.2	414.5	462.7	732.5
		812.8	9.525	4287.5	156.12	179.89	203.67	12	300	174245.1	1478.1	1773.7	1921.5	1522.1	1843.6	2058	3258.5
45-1011	O	28	0.472	83.3	38.14	43.87	49.6	0.472	11.8	1166.9	347.3	416.7	451.5	357.6	433.2	483.5	765.6
		711.2	12	4481	186.22	214.19	242.16	12	300	159344.3	1544.8	1853.7	2008.2	1590.8	1926.8	2150.9	3405.6
45-1113	O	32	0.394	83.6	33.34	38.38	43.43	0.472	11.8	1337.2	348.2	417.9	452.7	358.6	434.4	484.9	767.7
		812.8	10	4493.4	162.8	187.41	212.02	12	300	182613.2	1549.1	1858.9	2013.8	1595.2	1932.2	2156.8	3415
46-1062	O	30	0.438	84.9	36.14	41.57	47.01	0.472	11.8	1274.2	354	424.7	460.1	364.5	441.5	492.8	780.3
		762	11.112	4567.1	176.46	202.98	229.51	12	300	174007.5	1574.5	1889.4	2046.8	1621.3	1963.9	2192.2	3471



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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)
46-1164	O	34	0.375	86.3	32.26	37.13	41.99	0.472	11.8	1466.7	359.5	431.4	467.3	370.2	448.4	500.5	792.5
		863.6	9.525	4638.5	157.5	181.27	205.03	12	300	200292.2	1599.1	1918.9	2078.8	1646.7	1994.6	2226.5	3525.3
47-910	O	24	0.625	87.6	47	53.94	60.89	0.472	11.8	1051.2	365	438	474.5	375.9	455.3	508.2	804.6
		609.6	15.875	4709.5	229.47	263.37	297.27	12	300	143545.5	1623.5	1948.2	2110.6	1671.9	2025.1	2260.6	3579.2
47-1011	O	28	0.5	87.9	40.06	46.03	52	0.472	11.8	1231.3	366.4	439.7	476.4	377.4	457.1	510.2	807.9
		711.2	12.7	4728.3	195.6	224.74	253.88	12	300	168138.8	1630	1956	2119	1678.6	2033.2	2269.6	3593.5
49-1164	O	34	0.394	90.4	33.65	38.69	43.73	0.472	11.8	1537.3	376.8	452.1	489.8	388	470	524.6	830.7
		863.6	10	4861.8	164.3	188.92	213.53	12	300	209932.1	1676	2011.2	2178.9	1725.9	2090.6	2333.7	3695
49-859	O	22	0.75	91.3	53.81	61.67	69.53	0.472	11.8	1004.3	380.4	456.5	494.5	391.7	474.5	529.7	838.7
		558.8	19.05	4908.6	262.73	301.1	339.46	12	300	137145.5	1692.2	2030.6	2199.8	1742.5	2110.7	2356.1	3730.5
49-1062	O	30	0.472	91.4	38.64	44.38	50.13	0.472	11.8	1371.2	380.9	457.1	495.1	392.2	475.1	530.3	839.7
		762	12	4914.6	188.64	216.69	244.73	12	300	187245.8	1694.2	2033.1	2202.5	1744.7	2113.3	2359	3735.1
50-1113	O	32	0.438	92.5	36.54	41.98	47.42	0.472	11.8	1479.9	385.4	462.5	501	396.9	480.7	536.6	849.6
		812.8	11.112	4972.8	178.41	204.98	231.54	12	300	202093.8	1714.3	2057.2	2228.6	1765.3	2138.3	2386.9	3779.3
50-1214	O	36	0.375	92.9	32.52	37.39	42.25	0.472	11.8	1671.3	386.9	464.3	502.9	398.4	482.6	538.7	852.9
		914.4	9.525	4992	158.78	182.53	206.28	12	300	228232	1720.9	2065.1	2237.2	1772.1	2146.5	2396.1	3793.9
51-910	O	24	0.688	95.6	51.06	58.51	65.97	0.472	11.8	1147.2	398.3	478	517.8	410.2	496.9	554.6	878.2
		609.6	17.462	5139.8	249.31	285.7	322.08	12	300	156661.2	1771.9	2126.3	2303.4	1824.6	2210.1	2467.1	3906.2
52-1062	O	30	0.5	96.5	40.6	46.59	52.58	0.472	11.8	1447.1	402	482.4	522.6	413.9	501.4	559.7	886.2
		762	12.7	5186.9	198.23	227.47	256.72	12	300	197619.6	1788.1	2145.7	2324.5	1841.3	2230.4	2489.7	3942
52-1214	O	36	0.394	97.3	33.93	38.98	44.02	0.472	11.8	1751.9	405.5	486.6	527.2	417.6	505.8	564.7	894
		914.4	10	5232.7	165.68	190.3	214.92	12	300	239239.1	1803.9	2164.7	2345.1	1857.6	2250.1	2511.7	3976.9
53-1011	O	28	0.562	98.3	44.4	50.91	57.42	0.472	11.8	1375.9	409.5	491.4	532.3	421.7	510.8	570.1	902.7
		711.2	14.288	5283.7	216.79	248.58	280.37	12	300	187886.7	1821.5	2185.8	2367.9	1875.7	2272	2536.2	4015.6
54-1265	O	38	0.375	99.5	32.76	37.62	42.49	0.472	11.8	1889.8	414.4	497.3	538.8	426.8	516.9	577	913.6
		965.2	9.525	5347.5	159.95	183.69	207.43	12	300	258071.5	1843.5	2212.2	2396.5	1898.4	2299.4	2566.8	4064.1
54-1113	O	32	0.472	99.6	39.09	44.85	50.6	0.472	11.8	1592.8	414.8	497.8	539.2	427.2	517.4	577.6	914.5
		812.8	12	5352.3	190.84	218.95	247.07	12	300	217517.1	1845.1	2214.2	2398.7	1900.1	2301.5	2569.1	4067.7



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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)
54-1164	O	34	0.438	100.1	36.91	42.35	47.8	0.472	11.8	1701.7	417.1	500.5	542.2	429.5	520.2	580.7	919.5
		863.6	11.112	5381.8	180.19	206.79	233.4	12	300	232384	1855.3	2226.3	2411.9	1910.5	2314.2	2583.2	4090.1
56-910	O	24	0.75	103.5	55.11	63.06	71.02	0.472	11.8	1241.7	431.1	517.4	560.5	444	537.8	600.3	950.5
		609.6	19.05	5563	269.05	307.89	346.74	12	300	169561.3	1917.8	2301.3	2493.1	1974.9	2392.1	2670.3	4227.9
56-1265	O	38	0.394	104.3	34.19	39.24	44.28	0.472	11.8	1981.1	434.5	521.3	564.8	447.4	541.9	604.9	957.8
		965.2	10	5605.9	166.95	191.57	216.19	12	300	270539.8	1932.6	2319.1	2512.3	1990.1	2410.5	2690.8	4260.5
57-1113	O	32	0.5	105.1	41.09	47.1	53.11	0.472	11.8	1681.4	437.9	525.4	569.2	450.9	546.2	609.7	965.3
		812.8	12.7	5649.8	200.62	229.96	259.3	12	300	229609.1	1947.7	2337.2	2532	2005.7	2429.4	2711.9	4293.9
57-1316	O	40	0.375	106.1	32.98	37.84	42.7	0.472	11.8	2122.3	442.1	530.6	574.8	455.3	551.5	615.6	974.7
		1016	9.525	5705	161.03	184.76	208.49	12	300	289812.3	1966.7	2360.1	2556.7	2025.3	2453.1	2738.4	4335.8
58-1214	O	36	0.438	107.8	37.24	42.7	48.15	0.472	11.8	1939.7	449	538.8	583.7	462.4	560.1	625.2	989.9
		914.4	11.112	5793.6	181.83	208.46	235.1	12	300	264883.1	1997.3	2396.7	2596.5	2056.7	2491.2	2780.9	4403.1
58-1164	O	34	0.472	107.8	39.5	45.27	51.04	0.472	11.8	1831.9	449	538.8	583.7	462.4	560.1	625.2	989.9
		863.6	12	5793.6	192.84	221.02	249.21	12	300	250167.6	1997.3	2396.7	2596.5	2056.7	2491.2	2780.9	4403.1
58-1062	O	30	0.562	107.9	45.04	51.59	58.13	0.472	11.8	1617.8	449.4	539.3	584.2	462.8	560.5	625.7	990.7
		762	14.288	5798.7	219.9	251.86	283.82	12	300	220929.4	1999	2398.8	2598.7	2058.5	2493.4	2783.4	4407
58-1011	O	28	0.625	108.5	48.72	55.77	62.83	0.472	11.8	1518.5	451.9	542.3	587.5	465.4	563.7	629.2	996.3
		711.2	15.875	5831.3	237.89	272.31	306.74	12	300	207360.6	2010.3	2412.3	2613.3	2070.1	2507.5	2799	4431.8
60-910	O	24	0.812	111.2	59.12	67.58	76.04	0.472	11.8	1334.6	463.4	556.1	602.4	477.2	578	645.2	1021.6
		609.6	20.638	5979.3	288.67	329.97	371.27	12	300	182248.2	2061.3	2473.5	2679.7	2122.6	2571.1	2870.1	4544.2
60-1316	O	40	0.394	111.2	34.43	39.48	44.52	0.472	11.8	2225	463.5	556.2	602.6	477.3	578.2	645.4	1021.9
		1016	10	5981.1	168.12	192.74	217.36	12	300	303837.4	2061.9	2474.3	2680.5	2123.3	2571.9	2870.9	4545.6
61-1367	O	42	0.375	112.8	33.19	38.04	42.9	0.472	11.8	2368.6	470	564	611	484	586.2	654.4	1036.1
		1066.8	9.525	6064.1	162.03	185.75	209.47	12	300	323459.2	2090.5	2508.6	2717.7	2152.8	2607.6	2910.8	4608.7
61-1164	O	34	0.5	113.8	41.54	47.56	53.59	0.472	11.8	1934.1	474	568.8	616.2	488.1	591.3	660	1045.1
		863.6	12.7	6116.6	202.8	232.22	261.65	12	300	264114.8	2108.6	2530.3	2741.2	2171.4	2630.1	2936	4648.6
62-1265	O	38	0.438	115.5	37.55	43.01	48.47	0.472	11.8	2193.9	481.1	577.3	625.5	495.4	600.1	669.9	1060.7
		965.2	11.112	6208	183.33	209.99	236.66	12	300	299596.1	2140.1	2568.1	2782.2	2203.8	2669.4	2979.8	4718



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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)
62-960	O	26	0.75	115.6	56.26	64.31	72.35	0.472	11.8	1502.5	481.6	577.9	626	495.9	600.7	670.5	1061.6
		660.4	19.05	6213.7	274.7	313.97	353.25	12	300	205177.2	2142.1	2570.5	2784.7	2205.9	2671.9	2982.6	4722.4
62-1214	O	36	0.472	116	39.87	45.66	51.44	0.472	11.8	2088.5	483.4	580.1	628.5	497.8	603	673.1	1065.8
		914.4	12	6238	194.68	222.92	251.16	12	300	285202.6	2150.5	2580.6	2795.6	2214.5	2682.4	2994.3	4740.9
63-1113	O	32	0.562	117.5	45.62	52.2	58.77	0.472	11.8	1880.5	489.7	587.6	636.6	504.3	610.8	681.8	1079.6
		812.8	14.288	6318.7	222.73	254.84	286.94	12	300	256792.8	2178.3	2614	2831.8	2243.1	2717	3033	4802.2
64-1367	O	42	0.394	118.3	34.66	39.7	44.74	0.472	11.8	2483.4	492.7	591.3	640.6	507.4	614.6	686.1	1086.3
		1066.8	10	6358	169.21	193.83	218.45	12	300	339134.5	2191.8	2630.2	2849.4	2257.1	2733.9	3051.8	4832.1
64-1011	O	28	0.688	118.5	53.02	60.61	68.2	0.472	11.8	1659.1	493.8	592.5	641.9	508.5	615.9	687.5	1088.6
		711.2	17.462	6371.3	258.88	295.93	332.98	12	300	226563.5	2196.4	2635.7	2855.4	2261.8	2739.7	3058.2	4842.2
64-910	O	24	0.875	118.8	63.12	72.08	81.04	0.472	11.8	1425.9	495.1	594.1	643.7	509.9	617.6	689.4	1091.5
		609.6	22.225	6388.6	308.19	351.93	395.66	12	300	194724.1	2202.4	2642.9	2863.1	2267.9	2747.1	3066.5	4855.3
64-1062	O	30	0.625	119.1	49.46	56.56	63.66	0.472	11.8	1786.3	496.2	595.4	645.1	511	618.9	690.9	1093.9
		762	15.875	6402.6	241.49	276.14	310.79	12	300	243938.8	2207.2	2648.7	2869.4	2272.9	2753.1	3073.2	4866
64-1418	O	44	0.375	119.5	33.38	38.23	43.09	0.472	11.8	2629	497.9	597.5	647.3	512.7	621.1	693.3	1097.7
		1117.6	9.525	6424.7	162.95	186.67	210.39	12	300	359013.1	2214.8	2657.8	2879.3	2280.8	2762.6	3083.9	4882.8
66-922	O	24.5	0.875	122.4	63.49	72.48	81.47	0.472	11.8	1499.4	510	612	663	525.2	636.1	710.1	1124.3
		622.3	22.225	6580.7	309.98	353.87	397.76	12	300	204758.2	2268.6	2722.3	2949.2	2336.1	2829.7	3158.7	5001.3
66-1214	O	36	0.5	122.5	41.95	47.99	54.03	0.472	11.8	2205.2	510.5	612.6	663.6	525.7	636.7	710.8	1125.4
		914.4	12.7	6586.7	204.8	234.3	263.81	12	300	301143.8	2270.7	2724.8	2951.9	2338.3	2832.3	3161.6	5005.9
66-1316	O	40	0.438	123.2	37.83	43.3	48.77	0.472	11.8	2464.3	513.4	616.1	667.4	528.7	640.4	714.8	1131.8
		1016	11.112	6624.6	184.72	211.41	238.1	12	300	336528.1	2283.7	2740.5	2968.9	2351.7	2848.6	3179.8	5034.7
67-1265	O	38	0.472	124.3	40.22	46.01	51.81	0.472	11.8	2362.6	518.1	621.7	673.5	533.5	646.2	721.4	1142.2
		965.2	12	6685.2	196.37	224.66	252.96	12	300	322628.8	2304.7	2765.6	2996	2373.3	2874.6	3208.9	5080.8
67-1418	O	44	0.394	125.3	34.86	39.91	44.95	0.472	11.8	2756.6	522.1	626.5	678.7	537.6	651.2	726.9	1151
		1117.6	10	6736.5	170.21	194.84	219.46	12	300	376435.5	2322.3	2786.8	3019	2391.5	2896.7	3233.5	5119.7
68-910	O	24	0.938	126.3	67.1	76.55	86.01	0.472	11.8	1515.8	526.3	631.6	684.2	542	656.5	732.8	1160.3
		609.6	23.812	6791	327.59	373.76	419.92	12	300	206991	2341.1	2809.4	3043.5	2410.8	2920.1	3259.7	5161.2



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in³/ft (cm³/m)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in (mm)	in (mm)	in⁴/ft (cm⁴/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
68-1164	O	34	0.562	127.3	46.15	52.75	59.36	0.472	11.8	2163.8	530.3	636.4	689.4	546.1	661.5	738.4	1169.2
		863.6	14.288	6843.1	225.32	257.56	289.8	12	300	295486.4	2359.1	2830.9	3066.8	2429.3	2942.5	3284.7	5200.8
69-1011	O	28	0.75	128.4	57.3	65.43	73.55	0.472	11.8	1797.7	535	642	695.6	551	667.4	745	1179.5
		711.2	19.05	6903.8	279.78	319.44	359.11	12	300	245497.4	2380	2856	3094	2450.8	2968.6	3313.8	5246.9
70-1113	O	32	0.625	129.8	50.13	57.27	64.41	0.472	11.8	2077.1	540.9	649.1	703.2	557	674.7	753.2	1192.5
		812.8	15.875	6979.6	244.76	279.62	314.48	12	300	283649.4	2406.1	2887.3	3128	2477.7	3001.2	3350.2	5304.5
70-1062	O	30	0.688	130.2	53.86	61.51	69.16	0.472	11.8	1952.6	542.4	650.9	705.1	558.5	676.5	755.2	1195.8
		762	17.462	6998.7	262.98	300.32	337.66	12	300	266649.7	2412.7	2895.2	3136.5	2484.5	3009.4	3359.4	5319
70-1367	O	42	0.438	131	38.1	43.57	49.04	0.472	11.8	2751.1	545.8	655	709.6	562.1	680.8	760	1203.4
		1066.8	11.112	7043.2	186	212.72	239.44	12	300	375682.6	2428	2913.7	3156.5	2500.3	3028.6	3380.7	5352.8
71-1265	O	38	0.5	131.3	42.32	48.38	54.44	0.472	11.8	2494.9	547.1	656.6	711.3	563.4	682.5	761.8	1206.2
		965.2	12.7	7059.7	206.63	236.21	265.79	12	300	340703.4	2433.8	2920.5	3163.9	2506.2	3035.7	3388.7	5365.4
71-1316	O	40	0.472	132.7	40.54	46.34	52.15	0.472	11.8	2654.2	553	663.5	718.8	569.4	689.7	769.9	1219
		1016	12	7134.9	197.93	226.27	254.62	12	300	362450.6	2459.7	2951.6	3197.5	2532.9	3068	3424.7	5422.5
72-1519	O	48	0.375	133	33.72	38.57	43.43	0.472	11.8	3191.7	554.1	664.9	720.3	570.6	691.2	771.5	1221.6
		1219.2	9.525	7149.9	164.62	188.32	212.03	12	300	435855.7	2464.8	2957.8	3204.3	2538.2	3074.4	3431.9	5433.9
72-910	O	24	1	133.7	71.05	81	90.95	0.472	11.8	1604.1	557	668.4	724.1	573.6	694.7	775.5	1227.9
		609.6	25.4	7186.8	346.89	395.46	444.04	12	300	219052.3	2477.5	2973.1	3220.8	2551.3	3090.3	3449.6	5461.9
74-1214	O	36	0.562	137.1	46.63	53.26	59.89	0.472	11.8	2467.9	571.3	685.5	742.7	588.3	712.6	795.4	1259.4
		914.4	14.288	7371.4	227.68	260.05	292.42	12	300	337019.1	2541.2	3049.4	3303.5	2616.8	3169.7	3538.3	5602.2
74-1011	O	28	0.812	138.2	61.56	70.22	78.88	0.472	11.8	1934.4	575.7	690.9	748.4	592.9	718.1	801.6	1269.2
		711.2	20.638	7428.7	300.58	342.84	385.1	12	300	264165.3	2561	3073.2	3329.2	2637.2	3194.4	3565.8	5645.8
75-1418	O	44	0.438	138.8	38.34	43.82	49.3	0.472	11.8	3054.1	578.4	694.1	752	595.6	721.5	805.4	1275.2
		1117.6	11.112	7463.5	187.19	213.94	240.68	12	300	417062.6	2573	3087.6	3344.9	2649.6	3209.3	3582.5	5672.3
75-1519	O	48	0.394	139.5	35.23	40.28	45.32	0.472	11.8	3346.9	581.1	697.3	755.4	598.4	724.8	809.1	1281
		1219.2	10	7497.6	172.02	196.65	221.28	12	300	457055.7	2584.7	3101.7	3360.1	2661.7	3224	3598.9	5698.2
75-1570	O	50	0.375	139.8	33.87	38.72	43.58	0.472	11.8	3494.1	582.3	698.8	757.1	599.7	726.4	810.8	1283.8
		1270	9.525	7514.1	165.38	189.07	212.77	12	300	477147.8	2590.4	3108.5	3367.5	2667.5	3231.1	3606.8	5710.7



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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)
75-1316	O	40	0.5	140.2	42.67	48.74	54.81	0.472	11.8	2803.2	584	700.8	759.2	601.4	728.4	813.1	1287.5
		1016	12.7	7535.4	208.33	237.97	267.62	12	300	382797.9	2597.7	3117.3	3377.1	2675.1	3240.2	3617	5726.9
76-1164	O	34	0.625	140.6	50.74	57.92	65.1	0.472	11.8	2390.9	586	703.2	761.8	603.5	730.9	815.9	1291.9
		863.6	15.875	7561.4	247.75	282.8	317.84	12	300	326503.1	2606.7	3128.1	3388.7	2684.3	3251.4	3629.5	5746.7
76-1367	O	42	0.472	141.1	40.83	46.65	52.46	0.472	11.8	2963.3	588	705.6	764.4	605.5	733.4	818.7	1296.2
		1066.8	12	7586.6	199.37	227.76	256.15	12	300	404671.5	2615.4	3138.5	3400	2693.3	3262.3	3641.6	5765.8
76-1062	O	30	0.75	141.1	58.24	66.44	74.64	0.472	11.8	2116.8	588	705.6	764.4	605.5	733.4	818.7	1296.3
		762	19.05	7587	284.37	324.39	364.4	12	300	289064	2615.5	3138.6	3400.2	2693.4	3262.4	3641.8	5766.1
76-1113	O	32	0.688	142	54.62	62.33	70.03	0.472	11.8	2271.4	591.5	709.8	769	609.1	737.8	823.6	1304
		812.8	17.462	7632.4	266.7	304.3	341.9	12	300	310179.7	2631.2	3157.4	3420.5	2709.5	3281.9	3663.5	5800.6
79-1621	O	52	0.375	146.6	34.02	38.87	43.72	0.472	11.8	3810.5	610.7	732.8	793.8	628.8	761.7	850.3	1346.2
		1320.8	9.525	7879.4	166.08	189.77	213.46	12	300	520354.8	2716.3	3259.6	3531.2	2797.2	3388.1	3782.1	5988.3
79-1570	O	50	0.394	146.6	35.4	40.44	45.49	0.472	11.8	3664.2	610.7	732.8	793.9	628.9	761.7	850.3	1346.3
		1270	10	7880	172.84	197.47	222.1	12	300	500379	2716.5	3259.8	3531.5	2797.4	3388.4	3782.4	5988.8
79-1265	O	38	0.562	147	47.08	53.73	60.38	0.472	11.8	2792.9	612.5	735	796.2	630.7	764	852.8	1350.3
		965.2	14.288	7903	229.86	262.34	294.82	12	300	381396.6	2724.4	3269.3	3541.8	2805.5	3398.3	3793.4	6006.2
80-1011	O	28	0.875	147.8	65.8	74.99	84.18	0.472	11.8	2069.2	615.8	739	800.6	634.2	768.2	857.5	1357.7
		711.2	22.225	7946.3	321.28	366.13	410.98	12	300	282570.2	2739.4	3287.3	3561.2	2820.9	3416.9	3814.2	6039.2
80-1367	O	42	0.5	149	42.99	49.08	55.16	0.472	11.8	3130	621	745.2	807.3	639.5	774.6	864.7	1369.1
		1066.8	12.7	8013.3	209.9	239.61	269.32	12	300	427432	2762.5	3315	3591.3	2844.7	3445.7	3846.4	6090.1
80-1418	O	44	0.472	149.6	41.11	46.93	52.76	0.472	11.8	3290.1	623.1	747.8	810.1	641.7	777.2	867.6	1373.7
		1117.6	12	8040.4	200.71	229.14	257.58	12	300	449296	2771.8	3326.2	3603.4	2854.3	3457.4	3859.4	6110.7
82-1214	O	36	0.625	151.5	51.3	58.52	65.73	0.472	11.8	2727.8	631.4	757.7	820.9	650.2	787.6	879.2	1392.1
		914.4	15.875	8147.6	250.49	285.71	320.92	12	300	372509.9	2808.8	3370.6	3651.4	2892.4	3503.5	3910.9	6192.2
82-1062	O	30	0.812	151.9	62.61	71.35	80.09	0.472	11.8	2278.8	633	759.6	822.9	651.8	789.5	881.4	1395.5
		762	20.638	8167.6	305.68	348.35	391.03	12	300	311186.4	2815.7	3378.8	3660.4	2899.5	3512.1	3920.5	6207.4
83-1672	O	54	0.375	153.4	34.15	39	43.85	0.472	11.8	4140.9	639	766.8	830.7	658.1	797.1	889.8	1408.8
		1371.6	9.525	8245.5	166.75	190.43	214.11	12	300	565479.2	2842.6	3411.1	3695.3	2927.2	3545.6	3957.9	6266.6



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)		lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)				k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
83-1621	O	52	0.394	153.7	35.56	40.6	45.65	0.472	11.8	3996.2	640.4	768.5	832.5	659.5	798.8	891.7	1411.8
		1320.8	10	8263.4	173.61	198.24	222.86	12	300	545713.8	2848.7	3418.4	3703.3	2933.5	3553.3	3966.4	6280.2
83-1164	O	34	0.688	153.9	55.32	63.07	70.82	0.472	11.8	2615.5	641	769.3	833.4	660.1	799.6	892.6	1413.2
		863.6	17.462	8271.6	270.1	307.94	345.78	12	300	357166.6	2851.5	3421.8	3707	2936.4	3556.8	3970.4	6286.4
83-1113	O	32	0.75	154	59.1	67.36	75.62	0.472	11.8	2463.3	641.5	769.8	833.9	660.6	800.1	893.2	1414.2
		812.8	19.05	8277.2	288.55	328.88	369.21	12	300	336386.6	2853.5	3424.2	3709.5	2938.4	3559.2	3973.1	6290.7
83-1519	O	48	0.438	154.5	38.78	44.27	49.75	0.472	11.8	3709.1	643.9	772.7	837.1	663.1	803.2	896.6	1419.6
		1219.2	11.112	8308.9	189.33	216.12	242.91	12	300	506510.7	2864.4	3437.3	3723.7	2949.7	3572.8	3988.3	6314.8
84-1316	O	40	0.562	156.9	47.49	54.16	60.84	0.472	11.8	3138.8	653.9	784.7	850.1	673.4	815.6	910.5	1441.6
		1016	14.288	8437.5	231.87	264.46	297.04	12	300	428625.4	2908.7	3490.5	3781.3	2995.3	3628.1	4050	6412.5
85-1011	O	28	0.938	157.3	70.02	79.74	89.45	0.472	11.8	2202.1	655.4	786.5	852	674.9	817.5	912.5	1444.8
		711.2	23.812	8456.5	341.88	389.31	436.73	12	300	300714	2915.3	3498.3	3789.9	3002.1	3636.3	4059.1	6427
85-1418	O	44	0.5	158	43.29	49.39	55.48	0.472	11.8	3475.5	658.2	789.9	855.7	677.8	821	916.5	1451.1
		1117.6	12.7	8493.4	211.36	241.12	270.89	12	300	474609.2	2928	3513.6	3806.4	3015.1	3652.1	4076.8	6455
86-1722	O	56	0.375	160.2	34.28	39.13	43.98	0.472	11.8	4485.4	667.5	801	867.7	687.3	832.6	929.4	1471.5
		1422.4	9.525	8612.5	167.37	191.05	214.72	12	300	612523.2	2969.1	3562.9	3859.8	3057.4	3703.4	4134	6545.5
87-1672	O	54	0.394	160.8	35.71	40.75	45.79	0.472	11.8	4342.9	670.2	804.2	871.3	690.2	836	933.2	1477.5
		1371.6	10	8647.7	174.33	198.96	223.59	12	300	593061.1	2981.2	3577.4	3875.6	3069.9	3718.5	4150.9	6572.3
87-1570	O	50	0.438	162.4	38.98	44.47	49.96	0.472	11.8	4061.1	676.9	812.2	879.9	697	844.3	942.4	1492.2
		1270	11.112	8733.6	190.3	217.11	243.92	12	300	554582.8	3010.8	3613	3914	3100.4	3755.4	4192.1	6637.5
87-1265	O	38	0.625	162.5	51.82	59.07	66.31	0.472	11.8	3087.9	677.2	812.6	880.3	697.3	844.6	942.9	1492.9
		965.2	15.875	8737.6	253.01	288.38	323.76	12	300	421678	3012.2	3614.6	3915.8	3101.9	3757.2	4194.1	6640.6
87-1062	O	30	0.875	162.6	66.95	76.23	85.52	0.472	11.8	2438.6	677.4	812.9	880.6	697.6	844.9	943.2	1493.4
		762	22.225	8740.6	326.88	372.21	417.54	12	300	333017.9	3013.2	3615.9	3917.2	3102.9	3758.5	4195.5	6642.9
89-1113	O	32	0.812	165.8	63.56	72.37	81.19	0.472	11.8	2652.9	690.9	829	898.1	711.4	861.7	961.9	1523
		812.8	20.638	8914.2	310.31	353.36	396.41	12	300	362274.4	3073.1	3687.7	3995	3164.6	3833.1	4278.8	6774.8
89-1214	O	36	0.688	165.8	55.96	63.75	71.55	0.472	11.8	2984.9	691	829.1	898.2	711.5	861.8	962.1	1523.3
		914.4	17.462	8915.6	273.21	311.27	349.33	12	300	407620.2	3073.5	3688.2	3995.6	3165	3833.7	4279.5	6775.8



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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)
90-1519	O	48	0.472	166.5	41.6	47.44	53.28	0.472	11.8	3996.6	693.8	832.6	902	714.5	865.5	966.1	1529.6
		1219.2	12	8952.9	203.12	231.63	260.14	12	300	545766.2	3086.4	3703.7	4012.3	3178.3	3849.7	4297.4	6804.2
90-1011	O	28	1	166.6	74.22	84.46	94.7	0.472	11.8	2333.1	694.4	833.2	902.7	715	866.1	966.8	1530.8
		711.2	25.4	8959.5	362.38	412.37	462.36	12	300	318598.7	3088.7	3706.4	4015.3	3180.6	3852.6	4300.5	6809.2
90-1164	O	34	0.75	166.9	59.88	68.2	76.52	0.472	11.8	2837.5	695.5	834.5	904.1	716.2	867.5	968.3	1533.2
		863.6	19.05	8973.6	292.36	332.98	373.6	12	300	387479.4	3093.5	3712.2	4021.6	3185.6	3858.6	4307.3	6819.9
90-1367	O	42	0.562	166.9	47.87	54.57	61.26	0.472	11.8	3505.5	695.5	834.6	904.2	716.2	867.6	968.4	1533.4
		1066.8	14.288	8974.7	233.73	266.41	299.1	12	300	478710.9	3093.9	3712.7	4022.1	3186	3859.1	4307.9	6820.8
90-1722	O	56	0.394	168	35.84	40.89	45.93	0.472	11.8	4704.4	700.1	840.1	910.1	720.9	873.2	974.7	1543.3
		1422.4	10	9032.9	175	199.63	224.26	12	300	642423.4	3114	3736.8	4048.2	3206.7	3884.2	4335.8	6865
92-1621	O	52	0.438	170.4	39.16	44.66	50.15	0.472	11.8	4429.5	709.9	851.8	922.8	731	885.4	988.4	1564.9
		1320.8	11.112	9159.5	191.21	218.04	244.86	12	300	604890.2	3157.6	3789.1	4104.9	3251.6	3938.6	4396.5	6961.2
93-1062	O	30	0.938	173.1	71.28	81.1	90.92	0.472	11.8	2596.4	721.2	865.5	937.6	742.7	899.6	1004.2	1590
		762	23.812	9306.1	348	395.97	443.93	12	300	354562.1	3208.2	3849.8	4170.6	3303.7	4001.6	4466.9	7072.6
93-1316	O	40	0.625	173.6	52.3	59.57	66.85	0.472	11.8	3471.1	723.2	867.8	940.1	744.7	902	1006.9	1594.2
		1016	15.875	9331	255.33	290.85	326.37	12	300	474012.9	3216.7	3860.1	4181.8	3312.5	4012.3	4478.9	7091.5
94-1570	O	50	0.472	175.1	41.82	47.67	53.52	0.472	11.8	4376.3	729.4	875.3	948.2	751.1	909.8	1015.6	1608
		1270	12	9411.3	204.21	232.75	261.3	12	300	597617.2	3244.4	3893.3	4217.8	3341	4046.9	4517.4	7152.6
95-1519	O	48	0.5	175.9	43.83	49.94	56.06	0.472	11.8	4222.4	733.1	879.7	953	754.9	914.4	1020.7	1616.1
		1219.2	12.7	9458.8	213.98	243.85	273.72	12	300	576605.5	3260.8	3912.9	4239	3357.9	4067.3	4540.2	7188.7
95-1418	O	44	0.562	177	48.22	54.94	61.65	0.472	11.8	3893.2	737.4	884.8	958.6	759.3	919.7	1026.7	1625.6
		1117.6	14.288	9514.3	235.45	268.23	301.01	12	300	531656.3	3279.9	3935.9	4263.9	3377.6	4091.1	4566.8	7230.8
95-1113	O	32	0.875	177.5	67.99	77.37	86.74	0.472	11.8	2840.1	739.6	887.5	961.5	761.6	922.5	1029.8	1630.5
		812.8	22.225	9543.4	331.98	377.74	423.5	12	300	387844.2	3290	3948	4277	3387.9	4103.7	4580.8	7253
96-1265	O	38	0.688	177.9	56.54	64.38	72.22	0.472	11.8	3379.9	741.2	889.4	963.6	763.3	924.5	1032	1634
		965.2	17.462	9563.8	276.07	314.33	352.59	12	300	461550	3297	3956.4	4286.1	3395.2	4112.4	4590.6	7268.5
96-1672	O	54	0.438	178.3	39.34	44.84	50.33	0.472	11.8	4814.3	742.9	891.5	965.8	765.1	926.7	1034.5	1637.9
		1371.6	11.112	9586.4	192.06	218.91	245.75	12	300	657436	3304.8	3965.8	4296.2	3403.2	4122.2	4601.5	7285.7



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in³/ft (cm³/m)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in (mm)	in (mm)	in⁴/ft (cm⁴/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
97-1164	O	34	0.812	179.8	64.42	73.31	82.2	0.472	11.8	3056.9	749.2	899.1	974	771.5	934.5	1043.2	1651.7
		863.6	20.638	9667.5	314.54	357.93	401.33	12	300	417444.1	3332.8	3999.3	4332.6	3432	4157	4640.4	7347.3
97-1214	O	36	0.75	180	60.6	68.97	77.34	0.472	11.8	3239.3	749.8	899.8	974.8	772.2	935.3	1044	1653.1
		914.4	19.05	9675.2	295.85	336.74	377.63	12	300	442351.8	3335.4	4002.5	4336	3434.7	4160.4	4644.1	7353.2
99-1062	O	30	1	183.5	75.58	85.94	96.31	0.472	11.8	2752.1	764.5	917.4	993.8	787.2	953.5	1064.4	1685.3
		762	25.4	9864	369.02	419.61	470.21	12	300	375820.2	3400.5	4080.6	4420.7	3501.7	4241.5	4734.7	7496.7
99-1621	O	52	0.472	183.6	42.03	47.89	53.74	0.472	11.8	4773.6	765	918	994.5	787.8	954.2	1065.2	1686.5
		1320.8	12	9871	205.23	233.81	262.39	12	300	651881.8	3402.9	4083.5	4423.8	3504.2	4244.5	4738.1	7502
99-1367	O	42	0.625	184.6	52.74	60.04	67.34	0.472	11.8	3877.6	769.4	923.2	1000.2	792.3	959.6	1071.2	1696.1
		1066.8	15.875	9927.3	257.48	293.14	328.79	12	300	529520.8	3422.3	4106.8	4449	3524.2	4268.7	4765.1	7544.7
99-1570	O	50	0.5	185	44.07	50.2	56.32	0.472	11.8	4623.9	770.6	924.8	1001.8	793.6	961.2	1073	1698.9
		1270	12.7	9943.8	215.16	245.08	275	12	300	631429.9	3428	4113.6	4456.4	3530	4275.8	4773	7557.3
100-1722	O	56	0.438	186.3	39.5	45	50.5	0.472	11.8	5215.4	776.1	931.3	1008.9	799.2	968.1	1080.6	1711
		1422.4	11.112	10014.3	192.86	219.72	246.59	12	300	712215.5	3452.3	4142.8	4488	3555.1	4306.1	4806.9	7610.9
102-1113	O	32	0.938	189.1	72.41	82.34	92.26	0.472	11.8	3025.1	787.8	945.3	1024.1	811.2	982.6	1096.9	1736.7
		812.8	23.812	10164.8	353.56	402.02	450.48	12	300	413098.5	3504.2	4205	4555.5	3608.5	4370.9	4879.1	7725.3
102-1316	O	40	0.688	190	57.09	64.96	72.83	0.472	11.8	3800.3	791.7	950.1	1029.2	815.3	987.5	1102.4	1745.4
		1016	17.462	10215.8	278.72	317.16	355.61	12	300	518962.8	3521.8	4226.1	4578.3	3626.6	4392.8	4903.6	7764
103-1672	O	54	0.472	192.2	42.23	48.09	53.95	0.472	11.8	5188.7	800.7	960.9	1040.9	824.6	998.8	1114.9	1765.3
		1371.6	12	10331.9	206.18	234.8	263.41	12	300	708560.7	3561.8	4274.1	4630.3	3667.8	4442.7	4959.3	7852.2
104-1164	O	34	0.875	192.6	68.95	78.4	87.85	0.472	11.8	3273.8	802.4	962.9	1043.1	826.3	1000.9	1117.2	1768.9
		863.6	22.225	10353.5	336.63	382.78	428.94	12	300	447064.3	3569.2	4283.1	4640	3675.5	4452	4969.7	7868.7
104-1265	O	38	0.75	193.1	61.25	69.68	78.1	0.472	11.8	3668.9	804.6	965.5	1045.9	828.5	1003.6	1120.3	1773.7
		965.2	19.05	10381.6	299.06	340.2	381.33	12	300	501016.4	3578.9	4294.7	4652.6	3685.5	4464.1	4983.2	7890
104-1214	O	36	0.812	193.9	65.22	74.17	83.12	0.472	11.8	3490.9	808.1	969.7	1050.5	832.1	1007.9	1125.1	1781.5
		914.4	20.638	10426.7	318.41	362.12	405.83	12	300	476708.7	3594.5	4313.4	4672.8	3701.5	4483.5	5004.8	7924.3
104-1621	O	52	0.5	194	44.3	50.43	56.57	0.472	11.8	5044	808.3	970	1050.8	832.4	1008.3	1125.5	1782
		1320.8	12.7	10430.2	216.27	246.23	276.19	12	300	688808	3595.7	4314.8	4674.4	3702.7	4485	5006.5	7926.9



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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)
105-1418	O	44	0.625	195.8	53.15	60.47	67.8	0.472	11.8	4307.3	815.8	978.9	1060.5	840.1	1017.5	1135.9	1798.5
		1117.6	15.875	10526.2	259.48	295.26	331.04	12	300	588206.1	3628.8	4354.5	4717.4	3736.8	4526.3	5052.6	7999.9
106-1176	O	34.5	0.875	196.4	69.17	78.64	88.12	0.472	11.8	3387.2	818.2	981.8	1063.6	842.5	1020.5	1139.2	1803.7
		876.3	22.225	10557.1	337.73	383.98	430.23	12	300	462557.3	3639.4	4367.3	4731.2	3747.8	4539.5	5067.4	8023.4
106-1519	O	48	0.562	197.2	48.86	55.61	62.35	0.472	11.8	4731.6	821.5	985.8	1067.9	845.9	1024.6	1143.8	1811
		1219.2	14.288	10599.5	238.56	271.5	304.44	12	300	646143.4	3654	4384.8	4750.2	3762.8	4557.8	5087.7	8055.6
108-1113	O	32	1	200.5	76.82	87.29	97.77	0.472	11.8	3207.7	835.3	1002.4	1085.9	860.2	1041.9	1163.1	1841.6
		812.8	25.4	10778.6	375.05	426.2	477.34	12	300	438041	3715.8	4458.9	4830.5	3826.4	4634.8	5173.7	8191.7
108-1722	O	56	0.472	200.8	42.41	48.28	54.15	0.472	11.8	5621.4	836.5	1003.8	1087.5	861.4	1043.4	1164.7	1844.2
		1422.4	12	10793.8	207.09	235.73	264.37	12	300	767655.6	3721	4465.2	4837.3	3831.8	4641.3	5181	8203.3
109-1367	O	42	0.688	202.2	57.59	65.5	73.4	0.472	11.8	4246.3	842.5	1011	1095.3	867.6	1050.9	1173.1	1857.4
		1066.8	17.462	10871.1	281.16	319.78	358.39	12	300	579865.4	3747.7	4497.2	4872	3859.2	4674.6	5218.1	8262
109-1672	O	54	0.5	203.1	44.51	50.65	56.8	0.472	11.8	5482.9	846.1	1015.4	1100	871.3	1055.4	1178.1	1865.4
		1371.6	12.7	10917.8	217.31	247.32	277.32	12	300	748743.7	3763.8	4516.5	4892.9	3875.8	4694.7	5240.6	8297.5
110-1164	O	34	0.938	205.2	73.45	83.47	93.49	0.472	11.8	3488.2	854.9	1025.9	1111.4	880.4	1066.4	1190.4	1884.8
		863.6	23.812	11031.5	358.63	407.54	456.45	12	300	476341.5	3803	4563.6	4943.9	3916.2	4743.6	5295.1	8384
111-1316	O	40	0.75	206.3	61.86	70.33	78.8	0.472	11.8	4126.3	859.6	1031.6	1117.5	885.2	1072.2	1196.9	1895.1
		1016	19.05	11092.1	302.03	343.39	384.74	12	300	563478.7	3823.9	4588.6	4971	3937.7	4769.6	5324.2	8430
111-1570	O	50	0.562	207.3	49.15	55.91	62.67	0.472	11.8	5182.3	863.7	1036.5	1122.8	889.4	1077.3	1202.6	1904.1
		1270	14.288	11144.7	239.96	272.97	305.99	12	300	707687.9	3842	4610.4	4994.6	3956.4	4792.2	5349.5	8470
112-1214	O	36	0.875	207.8	69.82	79.35	88.87	0.472	11.8	3739.7	865.7	1038.8	1125.4	891.4	1079.8	1205.3	1908.4
		914.4	22.225	11170	340.89	387.41	433.92	12	300	510692.5	3850.7	4620.9	5005.9	3965.4	4803.1	5361.6	8489.2
112-1265	O	38	0.812	208.2	65.95	74.96	83.97	0.472	11.8	3954.9	867.3	1040.8	1127.5	893.1	1081.8	1207.6	1912
		965.2	20.638	11191	321.97	365.97	409.97	12	300	540079	3858	4629.6	5015.4	3972.8	4812.1	5371.7	8505.2
114-1722	O	56	0.5	212.2	44.71	50.86	57.02	0.472	11.8	5940.5	884	1060.8	1149.2	910.3	1102.6	1230.9	1948.9
		1422.4	12.7	11406.6	218.29	248.33	278.38	12	300	811234.3	3932.3	4718.7	5112	4049.3	4904.8	5475.1	8669
115-1418	O	44	0.688	214.4	58.05	65.99	73.94	0.472	11.8	4717.8	893.5	1072.2	1161.6	920.1	1114.5	1244.1	1969.9
		1117.6	17.462	11529.4	283.43	322.21	360.98	12	300	644262.8	3974.6	4769.5	5167	4092.9	4957.6	5534.1	8762.3



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BALL & SOCKET
HOT ROLLED / MULTI-USE

Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)		lb/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)
117-1621	O	52	0.562	217.5	49.42	56.19	62.97	0.472	11.8	5654.1	906.1	1087.3	1177.9	933.1	1130.2	1261.6	1997.6
		1320.8	14.288	11691.6	241.27	274.36	307.44	12	300	772112.5	4030.5	4836.6	5239.7	4150.5	5027.4	5612	8885.6
117-1164	O	34	1	217.7	77.94	88.52	99.1	0.472	11.8	3700.1	906.9	1088.3	1178.9	933.9	1131.2	1262.7	1999.3
		863.6	25.4	11701.7	380.55	432.2	483.85	12	300	505279.3	4034	4840.8	5244.2	4154.1	5031.7	5616.8	8893.3
117-1519	O	48	0.625	218.2	53.88	61.26	68.63	0.472	11.8	5236.8	909.2	1091	1181.9	936.2	1134	1265.9	2004.3
		1219.2	15.875	11731.1	263.07	299.08	335.08	12	300	715126.4	4044.1	4853	5257.4	4164.5	5044.4	5630.9	8915.6
118-1367	O	42	0.75	219.6	62.42	70.94	79.45	0.472	11.8	4611.5	915	1098	1189.5	942.2	1141.3	1274	2017.2
		1066.8	19.05	11806.3	304.77	346.34	387.91	12	300	629747.6	4070.1	4884.1	5291.1	4191.2	5076.7	5667	8972.8
119-1214	O	36	0.938	221.4	74.41	84.51	94.61	0.472	11.8	3985.9	922.7	1107.2	1199.5	950.1	1150.9	1284.7	2034.1
		914.4	23.812	11905.2	363.28	412.6	461.92	12	300	544305.8	4104.2	4925	5335.4	4226.3	5119.2	5714.5	9048
120-1316	O	40	0.812	222.5	66.62	75.68	84.75	0.472	11.8	4449.1	926.9	1112.3	1205	954.5	1156.1	1290.6	2043.4
		1016	20.638	11959.9	325.26	369.53	413.79	12	300	607563.1	4123	4947.6	5359.9	4245.8	5142.8	5740.8	9089.5
120-1265	O	38	0.875	223.1	70.62	80.22	89.81	0.472	11.8	4238	929.4	1115.3	1208.2	957.1	1159.3	1294.1	2048.9
		965.2	22.225	11992.1	344.81	391.66	438.51	12	300	578740.9	4134.1	4961	5374.4	4257.2	5156.6	5756.2	9114
122-1672	O	54	0.562	227.7	49.67	56.46	63.25	0.472	11.8	6146.8	948.6	1138.3	1233.2	976.8	1183.2	1320.8	2091.2
		1371.6	14.288	12239.8	242.51	275.66	308.81	12	300	839405.4	4219.5	5063.4	5485.4	4345.1	5263.1	5875.1	9302.2
123-1570	O	50	0.625	229.5	54.21	61.61	69	0.472	11.8	5736.5	956.1	1147.3	1242.9	984.5	1192.5	1331.2	2107.8
		1270	15.875	12336.5	264.69	300.8	336.91	12	300	783369.4	4252.9	5103.4	5528.7	4379.5	5304.7	5921.5	9375.8
124-1824	O	60	0.5	230.4	45.08	51.25	57.41	0.472	11.8	6912	960	1152	1248	988.6	1197.4	1336.7	2116.4
		1524	12.7	12387	220.09	250.2	280.32	12	300	943892.5	4270.3	5124.3	5551.4	4397.4	5326.4	5945.8	9414.2
125-1418	O	44	0.75	232.9	62.94	71.5	80.05	0.472	11.8	5124.7	970.6	1164.7	1261.8	999.5	1210.6	1351.4	2139.7
		1117.6	19.05	12523.8	307.32	349.08	390.84	12	300	699827.9	4317.4	5180.9	5612.6	4445.9	5385.2	6011.4	9518.1
126-1214	O	36	1	235	78.98	89.65	100.32	0.472	11.8	4229.3	979	1174.8	1272.7	1008.2	1221.1	1363.1	2158.3
		914.4	25.4	12632.4	385.6	437.7	489.81	12	300	577552.6	4354.9	5225.8	5661.3	4484.5	5431.9	6063.5	9600.6
127-1367	O	42	0.812	236.8	67.24	76.36	85.48	0.472	11.8	4973.5	986.8	1184.2	1282.8	1016.2	1230.9	1374	2175.5
		1066.8	20.638	12732.8	328.31	372.82	417.33	12	300	679169.6	4389.5	5267.4	5706.3	4520.2	5475.1	6111.8	9677
128-1265	O	38	0.938	237.8	75.28	85.46	95.64	0.472	11.8	4518.2	990.8	1189	1288.1	1020.3	1235.9	1379.6	2184.4
		965.2	23.812	12785	367.56	417.26	466.95	12	300	617005.2	4407.5	5289	5729.7	4538.7	5497.6	6136.8	9716.6



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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)	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)
128-1722	O	56	0.562	237.9	49.91	56.71	63.51	0.472	11.8	6660.7	991.2	1189.4	1288.5	1020.7	1236.3	1380.1	2185.1
		1422.4	14.288	12789.3	243.67	276.88	310.09	12	300	909573.9	4409	5290.7	5731.6	4540.2	5499.4	6138.9	9719.9
128-1316	O	40	0.875	238.4	71.36	81.02	90.68	0.472	11.8	4768.8	993.5	1192.2	1291.5	1023.1	1239.2	1383.3	2190.2
		1016	22.225	12819.3	348.42	395.58	442.74	12	300	651218.8	4419.3	5303.1	5745.1	4550.8	5512.3	6153.2	9742.6
129-1519	O	48	0.688	239.1	58.89	66.89	74.89	0.472	11.8	5737.9	996.2	1195.4	1295	1025.8	1242.5	1387	2196.1
		1219.2	17.462	12853.6	287.52	326.58	365.64	12	300	783557.1	4431.1	5317.4	5760.5	4563	5527.1	6169.7	9768.8
129-1621	O	52	0.625	240.8	54.52	61.94	69.35	0.472	11.8	6259.6	1003.1	1203.8	1304.1	1033	1251.2	1396.7	2211.5
		1320.8	15.875	12943.7	266.21	302.42	338.62	12	300	854800.1	4462.2	5354.6	5800.8	4595	5565.8	6213	9837.2
135-1418	O	44	0.812	251.3	67.82	76.98	86.15	0.472	11.8	5528	1047	1256.4	1361.1	1078.1	1305.9	1457.8	2308.1
		1117.6	20.638	13509.4	331.13	375.87	420.61	12	300	754902.7	4657.2	5588.6	6054.3	4795.8	5809	6484.5	10267.1
135-1570	O	50	0.688	251.5	59.27	67.29	75.32	0.472	11.8	6286.4	1047.7	1257.3	1362.1	1078.9	1306.9	1458.8	2309.8
		1270	17.462	13519.1	289.36	328.55	367.75	12	300	858465	4660.6	5592.7	6058.7	4799.3	5813.2	6489.2	10274.5
136-1672	O	54	0.625	252.1	54.82	62.25	69.68	0.472	11.8	6806.1	1050.3	1260.4	1365.4	1081.6	1310.1	1462.4	2315.5
		1371.6	15.875	13552.4	267.64	303.93	340.23	12	300	929426.9	4672	5606.4	6073.7	4811.1	5827.6	6505.2	10299.9
136-1265	O	38	1	252.4	79.93	90.69	101.44	0.472	11.8	4795.5	1051.7	1262	1367.2	1083	1311.8	1464.3	2318.5
		965.2	25.4	13569.7	390.24	442.77	495.3	12	300	654874.3	4678	5613.6	6081.4	4817.2	5835	6513.5	10313
137-1367	O	42	0.875	253.9	72.05	81.77	91.48	0.472	11.8	5332	1057.9	1269.5	1375.3	1089.4	1319.6	1473	2332.3
		1066.8	22.225	13650.8	351.77	399.21	446.66	12	300	728135.1	4706	5647.1	6117.7	4846	5869.9	6552.4	10374.6
137-1316	O	40	0.938	254.3	76.09	86.34	96.59	0.472	11.8	5085.3	1059.4	1271.3	1377.3	1091	1321.5	1475.1	2335.6
		1016	23.812	13670.3	371.51	421.55	471.59	12	300	694449.1	4712.7	5655.2	6126.4	4852.9	5878.2	6561.7	10389.4
139-1824	O	60	0.562	258.4	50.34	57.17	63.99	0.472	11.8	7751.6	1076.6	1291.9	1399.6	1108.7	1342.9	1499	2373.5
		1524	14.288	13891.8	245.8	279.12	312.45	12	300	1058552.6	4789	5746.8	6225.7	4931.6	5973.5	6668	10557.7
140-1519	O	48	0.75	259.8	63.88	72.51	81.13	0.472	11.8	6235	1082.5	1299	1407.2	1114.7	1350.2	1507.2	2386.4
		1219.2	19.05	13967.2	311.9	354.01	396.12	12	300	851441.5	4815	5778	6259.5	4958.4	6005.9	6704.3	10615.1
142-1722	O	56	0.625	263.4	55.09	62.54	69.99	0.472	11.8	7376	1097.6	1317.1	1426.9	1130.3	1369.1	1528.3	2419.8
		1422.4	15.875	14162.7	268.98	305.36	341.74	12	300	1007251.5	4882.4	5858.9	6347.1	5027.8	6090	6798.1	10763.7
142-1621	O	52	0.688	263.9	59.62	67.67	75.72	0.472	11.8	6860.7	1099.5	1319.4	1429.3	1132.2	1371.4	1530.9	2423.8
		1320.8	17.462	14186.6	291.09	330.4	369.72	12	300	936883	4890.7	5868.8	6357.9	5036.2	6100.2	6809.6	10781.8



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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)
145-1418	O	44	0.875	269.4	72.68	82.46	92.23	0.472	11.8	5927.8	1122.7	1347.2	1459.5	1156.1	1400.4	1563.2	2475.1
		1117.6	22.225	14486.3	354.88	402.58	450.29	12	300	809494.9	4994	5992.8	6492.2	5142.6	6229.1	6953.4	11009.6
145-1316	O	40	1	269.9	80.8	91.64	102.48	0.472	11.8	5398.8	1124.8	1349.7	1462.2	1158.2	1402.9	1566.1	2479.6
		1016	25.4	14512.9	394.52	447.44	500.36	12	300	737255.7	5003.2	6003.8	6504.1	5152.1	6240.5	6966.2	11029.8
146-1367	O	42	0.938	270.8	76.84	87.15	97.47	0.472	11.8	5687.3	1128.4	1354.1	1467	1162	1407.5	1571.2	2487.7
		1066.8	23.812	14560.3	375.16	425.53	475.89	12	300	776646.2	5019.5	6023.4	6525.3	5168.9	6260.9	6988.9	11065.8
147-1570	O	50	0.75	273.3	64.31	72.96	81.62	0.472	11.8	6832.1	1138.7	1366.4	1480.3	1172.6	1420.3	1585.5	2510.3
		1270	19.05	14692.7	313.97	356.24	398.51	12	300	932987.3	5065.1	6078.2	6584.7	5215.9	6317.9	7052.5	11166.5
149-1672	O	54	0.688	276.3	59.95	68.03	76.1	0.472	11.8	7460.6	1151.3	1381.6	1496.7	1185.6	1436.1	1603.1	2538.2
		1371.6	17.462	14855.9	292.71	332.14	371.57	12	300	1018814.3	5121.4	6145.6	6657.8	5273.8	6388	7130.8	11290.4
151-1519	O	48	0.812	280.3	68.86	78.11	87.36	0.472	11.8	6728.1	1168.1	1401.7	1518.5	1202.8	1457	1626.4	2575.1
		1219.2	20.638	15071.8	336.22	381.37	426.52	12	300	918779.6	5195.8	6235	6754.6	5350.5	6480.9	7234.5	11454.6
154-1824	O	60	0.625	286.2	55.6	63.08	70.56	0.472	11.8	8586	1192.5	1431	1550.2	1228	1487.4	1660.4	2628.9
		1524	15.875	15387	271.45	307.98	344.51	12	300	1172489	5304.5	6365.4	6895.8	5462.4	6616.4	7385.8	11694.1
154-1621	O	52	0.75	286.8	64.7	73.39	82.08	0.472	11.8	7457.3	1195.1	1434.1	1553.6	1230.7	1490.7	1664	2634.6
		1320.8	19.05	15420.4	315.91	358.32	400.74	12	300	1018361.3	5316	6379.2	6910.8	5474.2	6630.8	7401.8	11719.5
155-1418	O	44	0.938	287.5	77.53	87.91	98.29	0.472	11.8	6324.1	1197.7	1437.3	1557.1	1233.4	1494	1667.7	2640.5
		1117.6	23.812	15454.7	378.55	429.22	479.88	12	300	863607.5	5327.8	6393.4	6926.2	5486.4	6645.5	7418.2	11745.6
155-1367	O	42	1	287.6	81.61	92.53	103.44	0.472	11.8	6039.2	1198.3	1437.9	1557.7	1233.9	1494.6	1668.4	2641.6
		1066.8	25.4	15461.3	398.48	451.76	505.04	12	300	824706.9	5330.1	6396.1	6929.1	5488.8	6648.4	7421.4	11750.6
155-1722	O	56	0.688	288.8	60.27	68.36	76.46	0.472	11.8	8086.3	1203.3	1444	1564.3	1239.1	1500.9	1675.5	2652.8
		1422.4	17.462	15526.7	294.24	333.78	373.31	12	300	1104255.7	5352.6	6423.1	6958.4	5512	6676.5	7452.8	11800.3
157-1380	O	42.5	1	292	81.81	92.74	103.67	0.472	11.8	6205.1	1216.7	1460	1581.7	1252.9	1517.6	1694.1	2682.3
		1079.5	25.4	15699.2	399.42	452.79	506.16	12	300	847362.9	5412.1	6494.5	7035.7	5573.2	6750.6	7535.6	11931.4
159-1570	O	50	0.812	294.9	69.33	78.62	87.9	0.472	11.8	7373.6	1228.9	1474.7	1597.6	1265.5	1532.9	1711.1	2709.3
		1270	20.638	15857.3	338.51	383.85	429.18	12	300	1006936.3	5466.6	6559.9	7106.6	5629.3	6818.6	7611.5	12051.5
162-1672	O	54	0.75	300.4	65.08	73.79	82.51	0.472	11.8	8110.5	1251.6	1501.9	1627.1	1288.9	1561.2	1742.7	2759.3
		1371.6	19.05	16149.9	317.73	360.28	402.84	12	300	1107561.6	5567.5	6681	7237.7	5733.2	6944.5	7752	12273.9

* 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)	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)
162-1519	O	48	0.875	300.7	73.83	83.7	93.57	0.472	11.8	7217.2	1253	1503.6	1628.9	1290.3	1562.9	1744.6	2762.3
		1219.2	22.225	16167.6	360.47	408.65	456.83	12	300	985577.9	5573.6	6688.3	7245.7	5739.5	6952.1	7760.5	12287.4
164-1418	O	44	1	305.3	82.37	93.35	104.33	0.472	11.8	6716.8	1272.1	1526.5	1653.7	1310	1586.7	1771.2	2804.5
		1117.6	25.4	16414.3	402.16	455.77	509.39	12	300	917233.4	5658.6	6790.4	7356.2	5827.1	7058.2	7878.9	12474.9
166-1545	O	49	0.875	308.2	74.09	83.98	93.87	0.472	11.8	7552	1284.3	1541.2	1669.7	1322.6	1602	1788.3	2831.4
		1244.6	22.225	16572.2	361.75	410.04	458.33	12	300	1031288.2	5713.1	6855.7	7427	5883.1	7126	7954.7	12594.9
166-1621	O	52	0.812	309.6	69.77	79.09	88.42	0.472	11.8	8049.5	1290	1548	1677	1328.4	1609	1796.1	2843.9
		1320.8	20.638	16645	340.66	386.17	431.68	12	300	1099234.9	5738.2	6885.8	7459.6	5909	7157.3	7989.6	12650.2
169-1824	O	60	0.688	313.8	60.84	68.98	77.11	0.472	11.8	9415	1307.6	1569.2	1699.9	1346.6	1631.1	1820.7	2882.8
		1524	17.462	16872.7	297.04	336.77	376.51	12	300	1285701.8	5816.7	6980	7561.7	5989.8	7255.3	8098.9	12823.3
169-1722	O	56	0.75	314	65.43	74.17	82.91	0.472	11.8	8791.8	1308.3	1570	1700.8	1347.3	1631.9	1821.6	2884.3
		1422.4	19.05	16881.4	319.44	362.13	404.81	12	300	1200603.8	5819.7	6983.6	7565.5	5992.9	7259	8103.1	12829.8
170-1570	O	50	0.875	316.4	74.35	84.26	94.17	0.472	11.8	7911	1318.5	1582.2	1714	1357.7	1644.6	1835.8	2906.7
		1270	22.225	17012.8	362.99	411.39	459.79	12	300	1080312.1	5865	7037.9	7624.4	6039.5	7315.5	8166.1	12929.7
173-1519	O	48	0.938	320.9	78.78	89.27	99.76	0.472	11.8	7702.4	1337.2	1604.7	1738.4	1377	1668	1861.9	2948
		1219.2	23.812	17254.5	384.65	435.86	487.06	12	300	1051836.5	5948.3	7137.9	7732.8	6125.4	7419.5	8282.2	13113.4
174-1595	O	51	0.875	324	74.59	84.53	94.46	0.472	11.8	8261.2	1349.9	1619.8	1754.8	1390.1	1683.7	1879.5	2975.9
		1295.4	22.225	17417.7	364.19	412.69	461.19	12	300	1128145.7	6004.5	7205.4	7805.9	6183.3	7489.6	8360.5	13237.5
174-1672	O	54	0.812	324.3	70.19	79.54	88.9	0.472	11.8	8755.8	1351.2	1621.4	1756.6	1391.4	1685.4	1881.4	2978.8
		1371.6	20.638	17434.8	342.69	388.36	434.03	12	300	1195680.8	6010.4	7212.5	7813.6	6189.4	7497	8368.7	13250.5
179-1621	O	52	0.875	332.2	74.83	84.78	94.74	0.472	11.8	8637.3	1384.2	1661	1799.4	1425.4	1726.5	1927.3	3051.5
		1320.8	22.225	17860.4	365.36	413.96	462.55	12	300	1179503.9	6157.2	7388.6	8004.3	6340.5	7680	8573	13573.9
182-1570	O	50	0.938	337.8	79.35	89.89	100.42	0.472	11.8	8444.1	1407.4	1688.8	1829.6	1449.2	1755.4	1959.5	3102.6
		1270	23.812	18159.4	387.41	438.86	490.31	12	300	1153121	6260.2	7512.3	8138.3	6446.6	7808.5	8716.5	13801.1
182-1722	O	56	0.812	339	70.58	79.96	89.35	0.472	11.8	9492.5	1412.6	1695.1	1836.3	1454.6	1761.9	1966.8	3114.1
		1422.4	20.638	18226.7	344.59	390.41	436.24	12	300	1296284.3	6283.4	7540.1	8168.5	6470.5	7837.5	8748.8	13852.3
183-1646	O	53	0.875	339.7	75.06	85.04	95.01	0.472	11.8	9003.2	1415.6	1698.7	1840.3	1457.7	1765.7	1971	3120.8
		1346.2	22.225	18265.7	366.49	415.18	463.87	12	300	1229465.4	6296.9	7556.3	8185.9	6484.3	7854.3	8767.5	13881.9



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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)
183-1519	O	48	1	341	83.72	94.83	105.93	0.472	11.8	8183.7	1420.8	1704.9	1847	1463.1	1772.2	1978.2	3132.2
		1219.2	25.4	18332.6	408.78	463	517.22	12	300	1117557.6	6320	7583.9	8215.9	6508.1	7883	8799.7	13932.8
184-1824	O	60	0.75	341.3	66.07	74.86	83.65	0.472	11.8	10238.7	1422	1706.5	1848.7	1464.4	1773.8	1980	3135
		1524	19.05	18349	322.59	365.51	408.43	12	300	1398190.8	6325.6	7590.7	8223.3	6513.9	7890.1	8807.5	13945.2
187-1672	O	54	0.875	348	75.29	85.28	95.27	0.472	11.8	9396.5	1450.1	1740.1	1885.1	1493.2	1808.7	2019	3196.8
		1371.6	22.225	18710.6	367.58	416.37	465.15	12	300	1283171.8	6450.2	7740.3	8385.3	6642.3	8045.6	8981.1	14220
188-1545	O	49	1	349.9	84.03	95.17	106.3	0.472	11.8	8573.8	1458.1	1749.7	1895.6	1501.5	1818.8	2030.2	3214.5
		1244.6	25.4	18814.4	410.29	464.65	519.01	12	300	1170822	6486	7783.2	8431.9	6679.1	8090.2	9030.9	14299
191-1621	O	52	0.938	354.6	79.88	90.46	101.04	0.472	11.8	9220.8	1477.7	1773.2	1921	1521.7	1843.2	2057.5	3257.7
		1320.8	23.812	19067	389.99	441.67	493.34	12	300	1259186.8	6573.1	7887.7	8545.1	6768.8	8198.8	9152.2	14490.9
191-1697	O	55	0.875	355.6	75.5	85.51	95.53	0.472	11.8	9777.8	1481.5	1777.8	1925.9	1525.6	1847.9	2062.8	3266.1
		1397	22.225	19116	368.64	417.52	466.39	12	300	1335250.7	6590	7908	8567	6786.2	8219.9	9175.7	14528.1
193-1570	O	50	1	358.9	84.34	95.5	106.66	0.472	11.8	8973.1	1495.5	1794.6	1944.2	1540	1865.4	2082.3	3297
		1270	25.4	19297	411.76	466.26	520.75	12	300	1225361.4	6652.4	7982.9	8648.1	6850.4	8297.7	9262.6	14665.7
196-1722	O	56	0.875	363.9	75.71	85.74	95.77	0.472	11.8	10188.3	1516.1	1819.3	1971	1561.3	1891.1	2111	3342.4
		1422.4	22.225	19562.8	369.67	418.64	467.6	12	300	1391308.6	6744.1	8092.9	8767.3	6944.8	8412	9390.2	14867.8
198-1595	O	51	1	367.9	84.63	95.81	107	0.472	11.8	9381.9	1533	1839.6	1992.9	1578.6	1912.1	2134.5	3379.6
		1295.4	25.4	19780.4	413.19	467.81	522.43	12	300	1281176.2	6819.1	8182.9	8864.8	7022	8505.6	9494.6	15033.1
198-1824	O	60	0.812	368.6	71.29	80.73	90.18	0.472	11.8	11057.2	1535.7	1842.9	1996.4	1581.4	1915.5	2138.3	3385.6
		1524	20.638	19815.7	348.07	394.18	440.29	12	300	1509956.1	6831.2	8197.5	8880.6	7034.6	8520.7	9511.5	15059.9
200-1672	O	54	0.938	371.6	80.37	91	101.63	0.472	11.8	10032.6	1548.2	1857.9	2012.7	1594.3	1931.2	2155.7	3413.2
		1371.6	23.812	19977.2	392.42	444.31	496.2	12	300	1370034.7	6886.9	8264.3	8953	7091.9	8590.2	9589	15182.7
203-1621	O	52	1	376.9	84.91	96.12	107.34	0.472	11.8	9799.9	1570.5	1884.6	2041.7	1617.3	1958.9	2186.7	3462.3
		1320.8	25.4	20264.5	414.56	469.31	524.06	12	300	1338267.1	6985.9	8383.1	9081.7	7193.9	8713.7	9727	15401
208-1646	O	53	1	385.9	85.18	96.42	107.66	0.472	11.8	10227.3	1608.1	1929.7	2090.5	1655.9	2005.8	2239	3545.1
		1346.2	25.4	20749.3	415.9	470.77	525.64	12	300	1396634.5	7153.1	8583.7	9299	7366	8922.2	9959.7	15769.5
209-1722	O	56	0.938	388.6	80.84	91.51	102.18	0.472	11.8	10879.4	1619	1942.8	2104.7	1667.2	2019.4	2254.2	3569.1
		1422.4	23.812	20889.8	394.7	446.79	498.88	12	300	1485682.8	7201.5	8641.8	9362	7415.9	8982.6	10027.1	15876.3



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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)
212-1672	O	54	1	395	85.45	96.71	107.97	0.472	11.8	10664.1	1645.7	1974.8	2139.4	1694.7	2052.7	2291.4	3628.1
		1371.6	25.4	21234.7	417.19	472.18	527.17	12	300	1456279	7320.4	8784.5	9516.5	7538.3	9130.9	10192.7	16138.4
213-1824	O	60	0.875	395.7	76.5	86.6	96.69	0.472	11.8	11870.4	1648.7	1978.4	2143.3	1697.8	2056.4	2295.5	3634.6
		1524	22.225	21273.2	373.51	422.79	472.08	12	300	1621014.3	7333.7	8800.4	9533.8	7552	9147.5	10211.1	16167.6
217-1697	O	55	1	404	85.71	96.99	108.28	0.472	11.8	11110.2	1683.4	2020	2188.4	1733.5	2099.7	2343.9	3711.1
		1397	25.4	21720.8	418.45	473.55	528.66	12	300	1517200.9	7488	8985.6	9734.4	7710.9	9340	10426	16507.8
222-1722	O	56	1	413.1	85.96	97.26	108.57	0.472	11.8	11565.7	1721.1	2065.3	2237.4	1772.3	2146.8	2396.4	3794.3
		1422.4	25.4	22207.5	419.67	474.88	530.1	12	300	1579400.8	7655.8	9186.9	9952.5	7883.7	9549.2	10659.6	16877.7
227-1824	O	60	0.938	422.6	81.7	92.44	103.19	0.472	11.8	12678.4	1760.9	2113.1	2289.2	1813.3	2196.4	2451.8	3882
		1524	23.812	22721.2	398.88	451.34	503.81	12	300	1731354.2	7832.9	9399.4	10182.7	8066	9770.1	10906.2	17268.1
242-1824	O	60	1	449.4	86.88	98.28	109.67	0.472	11.8	13481.3	1872.4	2246.9	2434.1	1928.1	2335.5	2607.1	4127.8
		1524	25.4	24159.9	424.21	479.83	535.46	12	300	1840986.8	8328.8	9994.6	10827.5	8576.8	10388.8	11596.8	18361.5

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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