

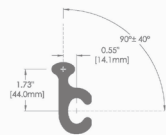
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-Pile

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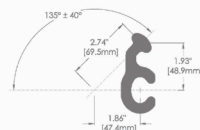
PilePro® Sheet Pile Connectors



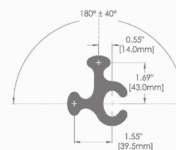
PZ 90



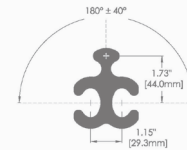
Colt



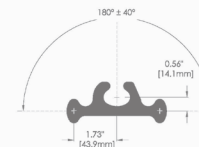
Cobra



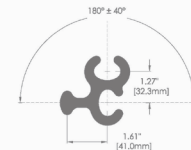
PZ Tee



Joker



Bullhead



PZT-S

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



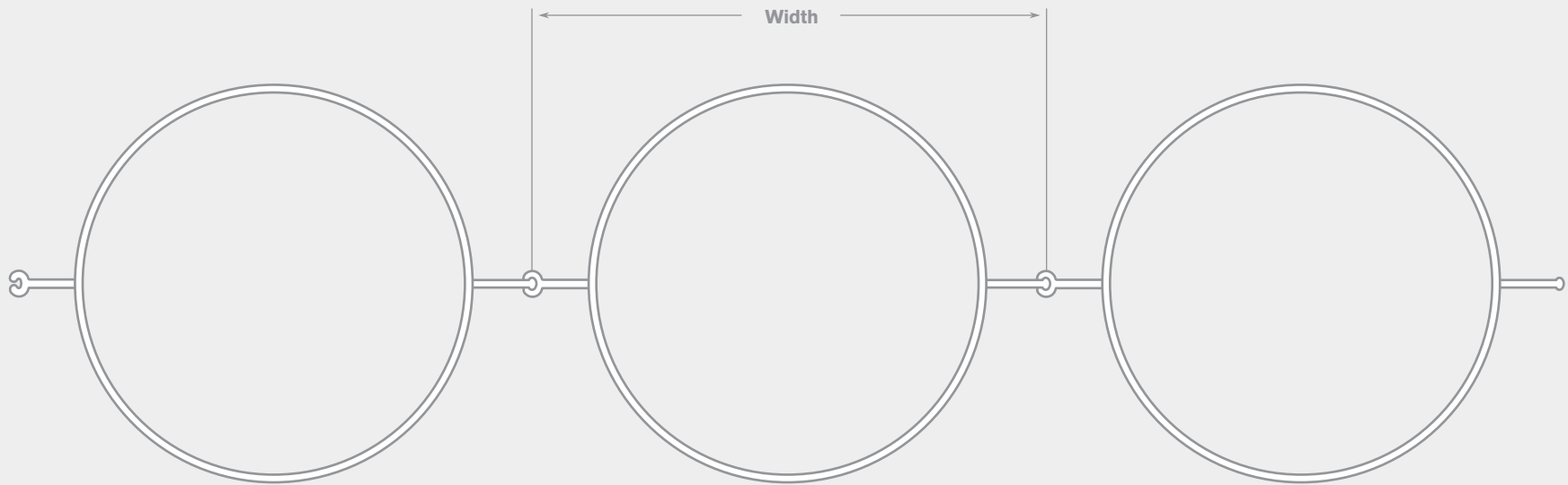
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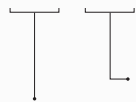


W: 203mm (8in)



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)		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)
26-711	O	20	0.375	47.7	31.82	36.8	41.78	0.472	8	477.3	198.9	238.7	258.6	204.8	248.1	276.9	438.5
		508	9.525	2566.3	155.34	179.67	204	12	203	65184.4	884.7	1061.6	1150.1	911	1103.5	1231.8	1950.4
27-711	O	20	0.394	50	33.13	38.28	43.43	0.472	8	499.7	208.2	249.9	270.7	214.4	259.7	289.9	459
		508	10	2686.7	161.78	186.91	212.05	12	203	68242.3	926.2	1111.4	1204.1	953.8	1155.3	1289.6	2041.9
29-762	O	22	0.375	54	32.26	37.23	42.21	0.472	8	594.5	225.2	270.2	292.8	231.9	280.9	313.6	496.5
		558.8	9.525	2905.9	157.51	181.79	206.06	12	203	81189.7	1001.8	1202.1	1302.3	1031.6	1249.5	1394.8	2208.5
30-711	O	20	0.438	55.2	36.21	41.75	47.28	0.472	8	551.7	229.9	275.8	298.8	236.7	286.7	320	506.7
		508	11.112	2965.9	176.81	203.82	230.84	12	203	75334.4	1022.5	1227	1329.2	1052.9	1275.3	1423.6	2254.1
31-762	O	22	0.394	56.7	33.62	38.76	43.9	0.472	8	624.1	236.4	283.7	307.3	243.5	294.9	329.2	521.2
		558.8	10	3050.6	164.15	189.25	214.36	12	203	85232.5	1051.6	1262	1367.1	1082.9	1311.7	1464.3	2318.4
32-711	O	20	0.472	59.3	38.66	44.5	50.34	0.472	8	592.6	246.9	296.3	321	254.3	308	343.8	544.3
		508	12	3185.9	188.75	217.26	245.77	12	203	80922.8	1098.3	1318	1427.8	1131	1370	1529.2	2421.3
33-813	O	24	0.375	60.7	32.65	37.61	42.57	0.472	8	728.5	253	303.6	328.9	260.5	315.5	352.2	557.7
		609.6	9.525	3264.1	159.41	183.64	207.87	12	203	99488.8	1125.2	1350.3	1462.8	1158.7	1403.5	1566.8	2480.7
34-711	O	20	0.5	62.5	40.58	46.66	52.74	0.472	8	624.5	260.2	312.3	338.3	268	324.6	362.3	573.7
		508	12.7	3357.8	198.14	227.82	257.5	12	203	85287.3	1157.6	1389.1	1504.8	1192	1443.8	1611.7	2551.9
34-813	O	24	0.394	63.6	34.04	39.18	44.32	0.472	8	763.1	265	317.9	344.4	272.8	330.5	368.9	584.1
		609.6	10	3418.8	166.22	191.3	216.37	12	203	104205	1178.6	1414.3	1532.2	1213.7	1470.1	1641	2598.3
36-762	O	22	0.472	67.4	39.31	45.17	51.02	0.472	8	740.9	280.7	336.8	364.8	289	350.1	390.8	618.7
		558.8	12	3621.3	191.95	220.53	249.11	12	203	101180	1248.4	1498.1	1622.9	1285.6	1557.2	1738.2	2752.2
37-711	O	20	0.562	69.6	44.92	51.54	58.16	0.472	8	696	290	348	377	298.6	361.7	403.8	639.3
		508	14.288	3742	219.33	251.66	283.99	12	203	95045.7	1290	1548	1677	1328.4	1609	1796.1	2843.9
38-813	O	24	0.438	70.3	37.3	42.84	48.39	0.472	8	843.3	292.8	351.4	380.7	301.5	365.2	407.7	645.5
		609.6	11.112	3778.3	182.11	209.18	236.24	12	203	115162.2	1302.5	1563	1693.3	1341.3	1624.7	1813.6	2871.5
38-762	O	22	0.5	71	41.3	47.4	53.5	0.472	8	781.2	295.9	355.1	384.7	304.7	369.1	412	652.3
		558.8	12.7	3818.1	201.63	231.42	261.21	12	203	106677.8	1316.2	1579.5	1711.1	1355.4	1641.8	1832.7	2901.8
40-914	O	28	0.375	73.9	33.3	38.24	43.19	0.472	8	1035.3	308.1	369.7	400.5	317.3	384.3	429	679.3
		711.2	9.525	3975.7	162.58	186.73	210.87	12	203	141375	1370.6	1644.7	1781.7	1411.4	1709.5	1908.3	3021.5



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in ³ /ft (cm ³ /m)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	in (mm)	in (mm)	in ⁴ /ft (cm ⁴ /m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
41-813	O	24	0.472	75.6	39.89	45.75	51.62	0.472	8	906.7	314.8	377.8	409.3	324.2	392.7	438.3	694
		609.6	12	4062.2	194.75	223.39	252.04	12	203	123814.9	1400.4	1680.5	1820.5	1442.1	1746.7	1949.8	3087.2
41-711	O	20	0.625	76.6	49.23	56.39	63.55	0.472	8	766.1	319.2	383	414.9	328.7	398.1	444.4	703.7
		508	15.875	4118.6	240.37	275.34	310.3	12	203	104612.1	1419.8	1703.8	1845.8	1462.1	1771	1976.9	3130.1
42-914	O	28	0.394	77.5	34.75	39.88	45	0.472	8	1084.7	322.8	387.4	419.7	332.4	402.7	449.5	711.7
		711.2	10	4165.5	169.67	194.7	219.73	12	203	148126.2	1436	1723.2	1866.8	1478.8	1791.2	1999.5	3165.8
43-813	O	24	0.5	79.7	41.92	48.05	54.17	0.472	8	956.2	332	398.4	431.6	341.9	414.1	462.3	732
		609.6	12.7	4284.2	204.69	234.58	264.46	12	203	130583.3	1476.9	1772.3	1920	1520.9	1842.2	2056.4	3256
43-965	O	30	0.375	80.6	33.57	38.51	43.45	0.472	8	1209.6	336	403.2	436.8	346	419.1	467.8	740.7
		762	9.525	4335.3	163.91	188.03	212.14	12	203	165175.1	1494.5	1793.5	1942.9	1539	1864.2	2080.9	3294.8
45-965	O	30	0.394	84.5	35.05	40.17	45.29	0.472	8	1267.5	352.1	422.5	457.7	362.6	439.2	490.2	776.2
		762	10	4542.9	171.13	196.14	221.15	12	203	173086	1566.1	1879.3	2036	1612.7	1953.5	2180.6	3452.6
46-914	O	28	0.438	85.7	38.14	43.7	49.25	0.472	8	1199.7	357.1	428.5	464.2	367.7	445.4	497.2	787.2
		711.2	11.112	4607.2	186.24	213.34	240.44	12	203	163831.8	1588.3	1905.9	2064.8	1635.6	1981.1	2211.5	3501.5
47-1016	O	32	0.375	87.4	33.82	38.75	43.68	0.472	8	1397.8	364	436.8	473.2	374.9	454	506.8	802.5
		812.8	9.525	4696.9	165.12	189.19	213.27	12	203	190884	1619.2	1943.1	2105	1667.4	2019.7	2254.5	3569.7
47-762	O	22	0.625	87.4	50.23	57.45	64.66	0.472	8	961.2	364.1	436.9	473.3	374.9	454.2	507	802.7
		558.8	15.875	4698.1	245.23	280.47	315.71	12	203	131264.7	1619.6	1943.5	2105.5	1667.8	2020.2	2255.1	3570.5
48-813	O	24	0.562	88.9	46.52	53.22	59.92	0.472	8	1067.3	370.6	444.7	481.8	381.6	462.3	516	817
		609.6	14.288	4782	227.15	259.84	292.53	12	203	145755.6	1648.5	1978.2	2143.1	1697.6	2056.3	2295.4	3634.3
49-711	O	20	0.75	90.2	57.77	66	74.22	0.472	8	902	375.8	451	488.6	387	468.8	523.3	828.6
		508	19.05	4849.6	282.05	322.22	362.4	12	203	123179.2	1671.8	2006.2	2173.4	1721.6	2085.3	2327.8	3685.7
49-1016	O	32	0.394	91.6	35.32	40.44	45.56	0.472	8	1464.9	381.5	457.8	495.9	392.9	475.8	531.2	841
		812.8	10	4922.5	172.43	197.43	222.42	12	203	200051.2	1697	2036.4	2206.1	1747.5	2116.7	2362.8	3741.1
50-914	O	28	0.472	92.2	40.84	46.73	52.62	0.472	8	1290.7	384.1	461	499.4	395.6	479.1	534.8	846.8
		711.2	12	4956.5	199.42	228.17	256.92	12	203	176251.4	1708.7	2050.4	2221.3	1759.5	2131.3	2379.1	3766.9
50-965	O	30	0.438	93.5	38.5	44.05	49.61	0.472	8	1402.3	389.5	467.4	506.4	401.1	485.9	542.4	858.8
		762	11.112	5026.2	187.98	215.09	242.21	12	203	191498.4	1732.7	2079.3	2252.5	1784.3	2161.3	2412.6	3819.9



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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)
51-1067	O	34	0.375	94.1	34.04	38.97	43.89	0.472	8	1600.1	392.2	470.6	509.8	403.9	489.2	546.1	864.6
		863.6	9.525	5060.4	166.2	190.25	214.3	12	203	218507.4	1744.5	2093.4	2267.9	1796.4	2176	2429	3845.9
52-914	O	28	0.5	97.3	42.97	49.12	55.28	0.472	8	1361.9	405.3	486.4	526.9	417.4	505.6	564.4	893.6
		711.2	12.7	5230	209.79	239.83	269.88	12	203	185979	1803	2163.6	2343.9	1856.7	2248.9	2510.4	3974.8
53-813	O	24	0.625	98.1	51.1	58.37	65.63	0.472	8	1176.6	408.6	490.3	531.1	420.7	509.6	568.9	900.7
		609.6	15.875	5271.7	249.48	284.97	320.45	12	203	160680.5	1817.3	2180.8	2362.5	1871.4	2266.8	2530.4	4006.5
53-1067	O	34	0.394	98.7	35.56	40.68	45.79	0.472	8	1677.1	411.1	493.3	534.4	423.3	512.7	572.3	906.2
		863.6	10	5303.9	173.62	198.6	223.57	12	203	229024	1828.5	2194.2	2377	1882.9	2280.7	2545.9	4031
54-965	O	30	0.472	100.6	41.25	47.14	53.04	0.472	8	1509	419.2	503	544.9	431.6	522.8	583.6	924.1
		762	12	5408.6	201.38	230.18	258.97	12	203	206067.4	1864.5	2237.5	2423.9	1920.1	2325.7	2596.1	4110.5
54-1117	O	36	0.375	100.9	34.24	39.16	44.08	0.472	8	1816.4	420.5	504.6	546.6	433	524.5	585.4	926.9
		914.4	9.525	5425.3	167.19	191.21	215.24	12	203	248044.6	1870.3	2244.4	2431.4	1926	2332.9	2604.1	4123.2
55-1016	O	32	0.438	101.3	38.82	44.38	49.94	0.472	8	1621.2	422.2	506.6	548.9	434.8	526.6	587.8	930.8
		812.8	11.112	5447.6	189.54	216.67	243.8	12	203	221392	1878	2253.6	2441.4	1933.9	2342.5	2614.9	4140.2
55-762	O	22	0.75	102.9	59.05	67.37	75.69	0.472	8	1132.2	428.9	514.6	557.5	441.6	534.9	597.1	945.4
		558.8	19.05	5533.6	288.31	328.93	369.56	12	203	154608.2	1907.6	2289.2	2479.9	1964.4	2379.4	2656.1	4205.5
57-1117	O	36	0.394	105.8	35.78	40.89	46.01	0.472	8	1904	440.7	528.9	573	453.9	549.7	613.7	971.6
		914.4	10	5686.9	174.69	199.66	224.62	12	203	260007.2	1960.5	2352.6	2548.7	2018.9	2445.4	2729.7	4322.1
57-965	O	30	0.5	106.2	43.41	49.58	55.74	0.472	8	1592.6	442.4	530.9	575.1	455.6	551.8	616	975.3
		762	12.7	5708.2	211.94	242.05	272.16	12	203	217483.9	1967.8	2361.4	2558.2	2026.4	2454.5	2740	4338.3
58-813	O	24	0.688	107	55.65	63.48	71.32	0.472	8	1284.1	445.9	535.1	579.6	459.2	556.2	620.8	983
		609.6	17.462	5753.3	271.69	309.95	348.21	12	203	175361.8	1983.4	2380.1	2578.4	2042.4	2473.9	2761.6	4372.5
58-1168	O	38	0.375	107.7	34.43	39.34	44.26	0.472	8	2046.7	448.8	538.6	583.5	462.2	559.9	625	989.5
		965.2	9.525	5791.5	168.09	192.09	216.1	12	203	279500.1	1996.6	2395.9	2595.5	2056	2490.4	2779.9	4401.6
58-914	O	28	0.562	108.7	47.77	54.52	61.28	0.472	8	1521.9	452.9	543.5	588.8	466.4	565	630.6	998.5
		711.2	14.288	5844.3	233.23	266.21	299.18	12	203	207822.1	2014.7	2417.7	2619.2	2074.7	2513	2805.2	4441.6
59-1016	O	32	0.472	109.1	41.61	47.51	53.42	0.472	8	1744.9	454.4	545.3	590.7	467.9	566.8	632.7	1001.8
		812.8	12	5863.4	203.15	231.99	260.82	12	203	238288	2021.3	2425.6	2627.7	2081.5	2521.3	2814.4	4456.2



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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)
59-1067	O	34	0.438	109.2	39.11	44.67	50.23	0.472	8	1856.5	455	546	591.5	468.6	567.6	633.5	1003.1
		863.6	11.112	5871.2	190.95	218.1	245.25	12	203	253517.7	2024	2428.8	2631.2	2084.3	2524.6	2818.2	4462.1
61-1168	O	38	0.394	112.9	35.98	41.09	46.2	0.472	8	2145.6	470.5	564.6	611.7	484.5	586.9	655.1	1037.3
		965.2	10	6071.4	175.68	200.63	225.58	12	203	293003.8	2093	2511.6	2720.9	2155.3	2610.7	2914.3	4614.2
62-1219	O	40	0.375	114.6	34.6	39.51	44.42	0.472	8	2291.1	477.3	572.8	620.5	491.5	595.4	664.6	1052.3
		1016	9.525	6158.9	168.92	192.9	216.88	12	203	312873.7	2123.2	2547.9	2760.2	2186.4	2648.3	2956.3	4680.8
62-1016	O	32	0.5	115.1	43.8	49.98	56.16	0.472	8	1842	479.7	575.6	623.6	494	598.3	667.9	1057.5
		812.8	12.7	6189.3	213.87	244.04	274.21	12	203	251534.8	2133.7	2560.4	2773.8	2197.2	2661.4	2970.9	4703.9
62-813	O	24	0.75	115.8	60.17	68.57	76.97	0.472	8	1389.9	482.6	579.1	627.4	497	602	672	1063.9
		609.6	19.05	6227.1	293.78	334.8	375.82	12	203	189801.9	2146.7	2576.1	2790.7	2210.6	2677.7	2989	4732.6
63-1117	O	36	0.438	117.1	39.37	44.94	50.5	0.472	8	2108.1	488	585.6	634.4	502.5	608.7	679.4	1075.8
		914.4	11.112	6296.5	192.24	219.4	246.56	12	203	287877.2	2170.7	2604.8	2821.8	2235.3	2707.5	3022.3	4785.4
63-1067	O	34	0.472	117.6	41.94	47.85	53.76	0.472	8	1998.5	489.8	587.8	636.8	504.4	611	682	1079.9
		863.6	12	6320.5	204.75	233.62	262.49	12	203	272918.6	2178.9	2614.7	2832.6	2243.8	2717.8	3033.8	4803.6
64-965	O	30	0.562	118.7	48.29	55.07	61.85	0.472	8	1780.5	494.6	593.5	642.9	509.3	616.9	688.6	1090.3
		762	14.288	6381.5	235.79	268.89	301.98	12	203	243136.8	2200	2639.9	2859.9	2265.4	2744.1	3063.1	4850
65-914	O	28	0.625	120	52.55	59.9	67.25	0.472	8	1679.6	499.9	599.9	649.8	514.8	623.5	696	1102
		711.2	15.875	6450	256.56	292.45	328.35	12	203	229362.3	2223.6	2668.3	2890.6	2289.8	2773.5	3096	4902
65-1219	O	40	0.394	120.1	36.17	41.27	46.38	0.472	8	2402	500.4	600.5	650.5	515.3	624.2	696.8	1103.2
		1016	10	6457	176.58	201.52	226.45	12	203	328014.8	2226	2671.2	2893.8	2292.2	2776.5	3099.4	4907.3
65-1270	O	42	0.375	121.4	34.75	39.66	44.57	0.472	8	2549.6	505.9	607	657.6	520.9	631	704.4	1115.2
		1066.8	9.525	6527.3	169.68	193.64	217.6	12	203	348168.2	2250.2	2700.3	2925.3	2317.2	2806.8	3133.1	4960.8
67-1067	O	34	0.5	124.1	44.16	50.35	56.54	0.472	8	2110	517.1	620.6	672.3	532.5	645.1	720.1	1140.1
		863.6	12.7	6672.9	215.61	245.84	276.07	12	203	288134.3	2300.4	2760.5	2990.5	2368.9	2869.3	3203	5071.4
67-813	O	24	0.812	124.5	64.67	73.63	82.6	0.472	8	1493.9	518.7	622.5	674.3	534.2	647	722.2	1143.5
		609.6	20.638	6693	315.75	359.51	403.28	12	203	204003.2	2307.3	2768.8	2999.5	2376	2878	3212.6	5086.7
67-1168	O	38	0.438	125.1	39.61	45.18	50.74	0.472	8	2376.1	521.1	625.3	677.4	536.6	649.9	725.5	1148.7
		965.2	11.112	6723.4	193.41	220.58	247.75	12	203	324472.7	2317.8	2781.4	3013.2	2386.8	2891.1	3227.2	5109.8



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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)
68-1117	O	36	0.472	126.1	42.23	48.15	54.07	0.472	8	2269.8	525.4	630.5	683	541.1	655.4	731.6	1158.3
		914.4	12	6779.5	206.21	235.11	264.01	12	203	309960.6	2337.2	2804.6	3038.3	2406.7	2915.2	3254.2	5152.5
68-1270	O	42	0.394	127.3	36.34	41.44	46.55	0.472	8	2673.1	530.4	636.5	689.5	546.2	661.6	738.5	1169.3
		1066.8	10	6843.7	177.41	202.33	227.26	12	203	365041	2359.3	2831.1	3067	2429.5	2942.8	3285	5201.2
69-1321	O	44	0.375	128.3	34.9	39.8	44.7	0.472	8	2822.1	534.5	641.4	694.8	550.4	666.7	744.2	1178.3
		1117.6	9.525	6896.6	170.38	194.32	218.27	12	203	385383.2	2377.5	2853	3090.8	2448.3	2965.5	3310.4	5241.4
69-863	O	26	0.75	128.6	61.16	69.63	78.11	0.472	8	1671.3	535.7	642.8	696.4	551.6	668.2	745.8	1180.9
		660.4	19.05	6911.8	298.61	339.98	381.35	12	203	228228.2	2382.8	2859.3	3097.6	2453.7	2972.1	3317.7	5253
69-1016	O	32	0.562	128.8	48.77	55.57	62.37	0.472	8	2060	536.5	643.8	697.4	552.4	669.1	747	1182.7
		812.8	14.288	6922.1	238.1	271.3	304.5	12	203	281314.2	2386.3	2863.6	3102.2	2457.3	2976.5	3322.6	5260.8
71-965	O	30	0.625	131.1	53.16	60.55	67.93	0.472	8	1965.9	546.1	655.3	709.9	562.3	681.1	760.3	1203.9
		762	15.875	7046.2	259.54	295.61	331.67	12	203	268459.1	2429.1	2914.9	3157.8	2501.4	3029.9	3382.2	5355.1
71-914	O	28	0.688	131.1	57.3	65.25	73.2	0.472	8	1835.1	546.2	655.4	710	562.4	681.2	760.5	1204.1
		711.2	17.462	7047.3	279.79	318.58	357.38	12	203	250602.7	2429.5	2915.4	3158.3	2501.8	3030.3	3382.7	5356
72-813	O	24	0.875	133	69.14	78.67	88.19	0.472	8	1596.1	554.2	665.1	720.5	570.7	691.3	771.7	1221.8
		609.6	22.225	7151.2	337.59	384.09	430.59	12	203	217968.3	2465.3	2958.3	3204.9	2538.7	3075	3432.6	5434.9
72-1219	O	40	0.438	133	39.83	45.4	50.97	0.472	8	2660.4	554.3	665.1	720.5	570.8	691.3	771.7	1221.9
		1016	11.112	7151.7	194.49	221.67	248.85	12	203	363306.8	2465.5	2958.6	3205.1	2538.9	3075.2	3432.8	5435.3
72-1117	O	36	0.5	133.1	44.49	50.69	56.89	0.472	8	2396.7	554.8	665.7	721.2	571.3	692	772.5	1223.1
		914.4	12.7	7158.5	217.2	247.48	277.76	12	203	327285.7	2467.8	2961.4	3208.1	2541.3	3078.1	3436.1	5440.4
72-1321	O	44	0.394	134.5	36.49	41.6	46.7	0.472	8	2959.1	560.4	672.5	728.6	577.1	699	780.3	1235.5
		1117.6	10	7231.3	178.17	203.09	228.01	12	203	404085.3	2492.9	2991.5	3240.8	2567.1	3109.5	3471	5495.8
72-1168	O	38	0.472	134.7	42.51	48.43	54.36	0.472	8	2558.7	561.1	673.4	729.5	577.8	699.9	781.3	1237
		965.2	12	7240.3	207.54	236.47	265.4	12	203	349417.9	2496	2995.2	3244.8	2570.3	3113.3	3475.4	5502.6
74-825	O	24.5	0.875	136.8	69.46	79.01	88.56	0.472	8	1675.6	569.9	683.9	740.9	586.9	710.9	793.6	1256.5
		622.3	22.225	7354.1	339.14	385.77	432.4	12	203	228824.1	2535.3	3042.3	3295.8	2610.7	3162.3	3530	5589.1
75-1067	O	34	0.562	138.9	49.19	56.01	62.83	0.472	8	2360.6	578.6	694.3	752.1	595.8	721.7	805.6	1275.5
		863.6	14.288	7465.5	240.18	273.48	306.78	12	203	322358.9	2573.6	3088.4	3345.7	2650.2	3210.2	3583.4	5673.8



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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)
76-1270	O	42	0.438	141	40.04	45.61	51.17	0.472	8	2961.2	587.5	705.1	763.8	605	732.9	818.1	1295.3
		1066.8	11.112	7581.2	195.48	222.67	249.86	12	203	404381	2613.5	3136.2	3397.6	2691.3	3259.9	3639	5761.7
76-813	O	24	0.938	141.4	73.59	83.67	93.75	0.472	8	1696.7	589.1	707	765.9	606.7	734.8	820.3	1298.8
		609.6	23.812	7601.7	359.31	408.53	457.74	12	203	231699.5	2620.6	3144.7	3406.8	2698.6	3268.7	3648.8	5777.3
76-914	O	28	0.75	142	62.04	70.58	79.11	0.472	8	1988.5	591.8	710.2	769.4	609.4	738.2	824	1304.7
		711.2	19.05	7636.3	302.9	344.58	386.27	12	203	271545.6	2632.5	3159	3422.3	2710.9	3283.6	3665.4	5803.6
76-1422	O	48	0.375	142.1	35.15	40.05	44.95	0.472	8	3409.4	591.9	710.3	769.5	609.5	738.3	824.2	1304.9
		1219.2	9.525	7637.5	171.63	195.54	219.45	12	203	465582.9	2632.9	3159.5	3422.8	2711.3	3284.1	3666	5804.5
77-1168	O	38	0.5	142.2	44.78	50.99	57.21	0.472	8	2702.1	592.6	711.1	770.3	610.2	739.1	825.1	1306.3
		965.2	12.7	7645.9	218.65	248.98	279.3	12	203	368993.3	2635.8	3163	3426.6	2714.3	3287.8	3670.1	5810.9
77-1016	O	32	0.625	142.2	53.71	61.13	68.54	0.472	8	2275.5	592.6	711.1	770.3	610.2	739.1	825.1	1306.4
		812.8	15.875	7646	262.23	298.45	334.66	12	203	310735.4	2635.9	3163.1	3426.6	2714.3	3287.8	3670.1	5811
77-965	O	30	0.688	143.3	58	65.99	73.99	0.472	8	2148.9	596.9	716.3	776	614.7	744.6	831.1	1316
		762	17.462	7702.2	283.19	322.21	361.23	12	203	293452.8	2655.2	3186.3	3451.8	2734.3	3311.9	3697	5853.7
77-1219	O	40	0.472	143.3	42.76	48.69	54.62	0.472	8	2865.4	597	716.3	776	614.7	744.6	831.2	1316
		1016	12	7702.6	208.75	237.71	266.67	12	203	391292	2655.4	3186.4	3452	2734.4	3312.1	3697.2	5854
80-1473	O	50	0.375	149	35.27	40.16	45.06	0.472	8	3724.2	620.7	744.8	806.9	639.2	774.2	864.2	1368.4
		1270	9.525	8009	172.19	196.09	219.99	12	203	508568.9	2761	3313.2	3589.3	2843.2	3443.9	3844.3	6086.8
80-1422	O	48	0.394	149	36.77	41.87	46.97	0.472	8	3575.2	620.7	744.8	806.9	639.2	774.2	864.2	1368.4
		1219.2	10	8009	179.54	204.44	229.34	12	203	488228.8	2761	3313.2	3589.3	2843.2	3443.9	3844.3	6086.8
80-1117	O	36	0.562	149	49.58	56.42	63.26	0.472	8	2682.2	620.9	745	807.1	639.4	774.4	864.5	1368.8
		914.4	14.288	8011.3	242.08	275.46	308.85	12	203	366275.3	2761.8	3314.1	3590.3	2844	3444.8	3845.4	6088.6
80-1321	O	44	0.438	149	40.22	45.79	51.36	0.472	8	3278.4	620.9	745.1	807.2	639.4	774.5	864.5	1368.8
		1117.6	11.112	8011.7	196.4	223.59	250.79	12	203	447696.5	2762	3314.3	3590.5	2844.2	3445.1	3845.6	6088.9
80-813	O	24	1	149.6	78.02	88.65	99.28	0.472	8	1795.6	623.5	748.2	810.5	642	777.7	868.1	1374.5
		609.6	25.4	8044.6	380.91	432.82	484.74	12	203	245200.6	2773.3	3327.9	3605.3	2855.8	3459.2	3861.4	6113.9
81-1219	O	40	0.5	151.3	45.06	51.28	57.49	0.472	8	3026.2	630.5	756.6	819.6	649.2	786.4	877.8	1389.9
		1016	12.7	8135	219.98	250.35	280.71	12	203	413258.4	2804.4	3365.3	3645.8	2887.9	3498.1	3904.8	6182.6



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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)
82-1270	O	42	0.472	151.9	42.99	48.92	54.86	0.472	8	3189.7	632.9	759.5	822.7	651.7	789.4	881.2	1395.2
		1066.8	12	8166.2	209.87	238.86	267.84	12	203	435584.3	2815.2	3378.2	3659.7	2899	3511.5	3919.8	6206.3
82-914	O	28	0.812	152.8	66.75	75.88	85	0.472	8	2139.7	636.8	764.2	827.9	655.8	794.3	886.7	1403.9
		711.2	20.638	8216.9	325.91	370.47	415.03	12	203	292194.3	2832.7	3399.2	3682.5	2917	3533.3	3944.1	6244.9
83-1067	O	34	0.625	153.4	54.21	61.65	69.1	0.472	8	2608.4	639.3	767.2	831.1	658.3	797.4	890.1	1409.4
		863.6	15.875	8249.1	264.65	301.01	337.37	12	203	356196.3	2843.8	3412.5	3696.9	2928.4	3547.1	3959.6	6269.3
84-965	O	30	0.75	155.3	62.83	71.42	80.01	0.472	8	2329.5	647.1	776.5	841.2	666.4	807.1	901	1426.6
		762	19.05	8349.6	306.74	348.7	390.67	12	203	318120.2	2878.4	3454.1	3742	2964.1	3590.3	4007.8	6345.7
84-1016	O	32	0.688	155.5	58.63	66.66	74.7	0.472	8	2488.3	648	777.6	842.4	667.3	808.3	902.2	1428.6
		812.8	17.462	8361.2	286.26	325.48	364.7	12	203	339799.2	2882.4	3458.9	3747.1	2968.2	3595.3	4013.4	6354.5
84-1524	O	52	0.375	155.9	35.38	40.27	45.16	0.472	8	4053	649.5	779.4	844.4	668.9	810.2	904.4	1431.9
		1320.8	9.525	8381	172.72	196.6	220.48	12	203	553478.8	2889.2	3467.1	3756	2975.2	3603.8	4022.9	6369.5
84-1473	O	50	0.394	156.2	36.9	42	47.09	0.472	8	3905.5	650.9	781.1	846.2	670.3	811.9	906.3	1435
		1270	10	8398.9	180.15	205.04	229.93	12	203	533329.9	2895.4	3474.5	3764	2981.6	3611.5	4031.5	6383.2
86-1168	O	38	0.562	159.2	49.94	56.79	63.65	0.472	8	3024.8	663.3	796	862.3	683.1	827.4	923.6	1462.4
		965.2	14.288	8559.2	243.81	277.28	310.74	12	203	413065.4	2950.7	3540.8	3835.9	3038.5	3680.4	4108.4	6505
86-1270	O	42	0.5	160.4	45.31	51.53	57.76	0.472	8	3369.1	668.5	802.2	869	688.4	833.8	930.8	1473.7
		1066.8	12.7	8625.5	221.21	251.61	282.01	12	203	460083.5	2973.5	3568.2	3865.6	3062	3709	4140.2	6555.4
86-1321	O	44	0.472	160.5	43.2	49.14	55.08	0.472	8	3531.8	668.9	802.7	869.6	688.8	834.3	931.4	1474.6
		1117.6	12	8630.9	210.91	239.92	268.93	12	203	482297.4	2975.4	3570.5	3868	3064	3711.3	4142.9	6559.5
88-1575	O	54	0.375	162.8	35.48	40.36	45.25	0.472	8	4396	678.4	814.1	881.9	698.6	846.2	944.6	1495.6
		1371.6	9.525	8753.5	173.21	197.08	220.95	12	203	600314.4	3017.7	3621.2	3923	3107.5	3764	4201.7	6652.7
88-1524	O	52	0.394	163.5	37.01	42.11	47.21	0.472	8	4250.6	681.2	817.4	885.5	701.5	849.7	948.4	1501.7
		1320.8	10	8789.4	180.72	205.6	230.49	12	203	580452.2	3030	3636	3939	3120.2	3779.4	4218.9	6679.9
88-914	O	28	0.875	163.5	71.44	81.15	90.87	0.472	8	2288.8	681.2	817.4	885.5	701.5	849.7	948.5	1501.7
		711.2	22.225	8789.4	348.8	396.22	443.65	12	203	312552	3030	3636.1	3939.1	3120.2	3779.5	4218.9	6680
89-1117	O	36	0.625	164.7	54.66	62.13	69.6	0.472	8	2964.6	686.3	823.5	892.1	706.7	856	955.5	1512.9
		914.4	15.875	8854.9	266.86	303.35	339.83	12	203	404847	3052.6	3663.1	3968.4	3143.5	3807.6	4250.4	6729.7



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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)
89-1422	O	48	0.438	165.1	40.56	46.13	51.71	0.472	8	3962.1	687.9	825.4	894.2	708.3	858	957.8	1516.4
		1219.2	11.112	8875.6	198.03	225.24	252.45	12	203	541056.8	3059.8	3671.7	3977.7	3150.8	3816.5	4260.3	6745.5
90-965	O	30	0.812	167.2	67.63	76.82	86.02	0.472	8	2507.8	696.6	835.9	905.6	717.4	868.9	969.9	1535.7
		762	20.638	8988.6	330.18	375.08	419.97	12	203	342466.3	3098.7	3718.5	4028.3	3191	3865.1	4314.5	6831.3
90-1067	O	34	0.688	167.8	59.2	67.27	75.34	0.472	8	2853.3	699.3	839.2	909.2	720.2	872.3	973.7	1541.8
		863.6	17.462	9023.8	289.03	328.44	367.85	12	203	389648.4	3110.9	3733	4044.1	3203.5	3880.2	4331.4	6858.1
91-1016	O	32	0.75	168.7	63.53	72.18	80.83	0.472	8	2698.5	702.7	843.3	913.6	723.7	876.5	978.5	1549.2
		812.8	19.05	9067.6	310.2	352.41	394.62	12	203	368508.6	3126	3751.1	4063.7	3219	3899.1	4352.5	6891.4
91-1219	O	40	0.562	169.4	50.26	57.13	64	0.472	8	3388.5	705.9	847.1	917.7	727	880.5	982.9	1556.3
		1016	14.288	9108.9	245.39	278.94	312.48	12	203	462732.6	3140.2	3768.2	4082.2	3233.7	3916.8	4372.3	6922.8
91-1321	O	44	0.5	169.6	45.54	51.77	58.01	0.472	8	3730.8	706.6	847.9	918.6	727.6	881.3	983.8	1557.7
		1117.6	12.7	9117.2	222.34	252.77	283.21	12	203	509469.9	3143.1	3771.7	4086	3236.6	3920.4	4376.3	6929.1
91-1625	O	56	0.375	169.8	35.57	40.46	45.34	0.472	8	4753.1	707.3	848.8	919.5	728.4	882.2	984.8	1559.3
		1422.4	9.525	9126.5	173.67	197.53	221.39	12	203	649077.2	3146.3	3775.5	4090.1	3239.9	3924.4	4380.7	6936.1
92-1575	O	54	0.394	170.8	37.12	42.22	47.31	0.472	8	4610.4	711.5	853.8	924.9	732.7	887.5	990.6	1568.5
		1371.6	10	9180.5	181.26	206.13	231.01	12	203	629595.5	3164.9	3797.8	4114.3	3259.1	3947.6	4406.6	6977.1
93-1473	O	50	0.438	173.1	40.71	46.28	51.86	0.472	8	4328.6	721.4	865.7	937.9	742.9	899.9	1004.5	1590.4
		1270	11.112	9308.7	198.76	225.98	253.19	12	203	591103.2	3209.1	3850.9	4171.8	3304.6	4002.7	4468.2	7074.6
94-914	O	28	0.938	174	76.11	86.4	96.7	0.472	8	2435.7	724.9	869.9	942.4	746.5	904.2	1009.4	1598.1
		711.2	23.812	9353.8	371.59	421.86	472.13	12	203	332620.9	3224.6	3869.5	4192	3320.6	4022.1	4489.8	7108.9
95-1168	O	38	0.625	176	55.07	62.57	70.06	0.472	8	3344.3	733.4	880.1	953.4	755.2	914.8	1021.2	1616.8
		965.2	15.875	9463.1	268.88	305.48	342.08	12	203	456691.5	3262.3	3914.8	4241	3359.4	4069.2	4542.3	7192
96-1422	O	48	0.472	177.9	43.58	49.53	55.48	0.472	8	4269.1	741.2	889.4	963.5	763.2	924.5	1032	1634
		1219.2	12	9563.5	212.75	241.8	270.86	12	203	582989.7	3296.9	3956.3	4286	3395	4112.3	4590.5	7268.2
96-1625	O	56	0.394	178	37.23	42.32	47.41	0.472	8	4985.1	741.8	890.2	964.4	763.9	925.3	1032.9	1635.4
		1422.4	10	9572	181.76	206.63	231.5	12	203	680761.7	3299.8	3959.8	4289.8	3398.1	4116	4594.6	7274.7
96-965	O	30	0.875	178.9	72.41	82.2	91.99	0.472	8	2683.8	745.5	894.6	969.1	767.7	929.9	1038	1643.5
		762	22.225	9619.2	353.52	401.33	449.15	12	203	366492.2	3316.1	3979.3	4310.9	3414.8	4136.3	4617.2	7310.6



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in ³ /ft (cm ³ /m)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	in (mm)	in (mm)	in ⁴ /ft (cm ⁴ /m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
97-1270	O	42	0.562	179.7	50.56	57.44	64.33	0.472	8	3773.3	748.7	898.4	973.3	771	933.8	1042.4	1650.5
		1066.8	14.288	9660.3	246.85	280.46	314.07	12	203	515279.6	3330.3	3996.3	4329.3	3429.4	4153.9	4636.9	7341.8
97-1117	O	36	0.688	180.2	59.72	67.82	75.93	0.472	8	3244.1	750.9	901.1	976.2	773.3	936.7	1045.6	1655.5
		914.4	17.462	9689.5	291.56	331.13	370.7	12	203	443005.2	3340.3	4008.4	4342.4	3439.8	4166.5	4651	7364
97-1524	O	52	0.438	181.2	40.85	46.42	52	0.472	8	4711.5	755	906.1	981.6	777.5	941.8	1051.3	1664.6
		1320.8	11.112	9742.5	199.44	226.66	253.89	12	203	643395.5	3358.6	4030.3	4366.2	3458.6	4189.3	4676.4	7404.3
98-1016	O	32	0.812	181.6	68.42	77.67	86.93	0.472	8	2906.2	756.8	908.2	983.9	779.4	944	1053.8	1668.5
		812.8	20.638	9765.5	334.03	379.23	424.42	12	203	396868.5	3366.5	4039.8	4376.5	3466.7	4199.1	4687.4	7421.8
98-1067	O	34	0.75	182.1	64.17	72.87	81.56	0.472	8	3095.5	758.7	910.4	986.3	781.3	946.3	1056.4	1672.6
		863.6	19.05	9789.7	313.32	355.76	398.2	12	203	422718	3374.9	4049.8	4387.3	3475.3	4209.6	4699	7440.1
99-914	O	28	1	184.3	80.75	91.63	102.51	0.472	8	2580.6	768	921.6	998.4	790.9	958	1069.4	1693.2
		711.2	25.4	9910.1	394.27	447.38	500.48	12	203	352403.2	3416.4	4099.7	4441.3	3518.1	4261.3	4756.8	7531.7
100-1473	O	50	0.472	186.6	43.74	49.7	55.65	0.472	8	4664.4	777.4	932.9	1010.6	800.5	969.7	1082.4	1713.9
		1270	12	10031	213.58	242.65	271.72	12	203	636971.5	3458.1	4149.7	4495.5	3561	4313.4	4814.9	7623.6
101-1219	O	40	0.625	187.4	55.45	62.97	70.49	0.472	8	3747.3	780.7	936.8	1014.9	803.9	973.8	1087	1721.1
		1016	15.875	10073.5	270.72	307.43	344.14	12	203	511731.7	3472.7	4167.2	4514.5	3576.1	4331.6	4835.3	7655.8
101-1422	O	48	0.5	187.9	45.95	52.2	58.45	0.472	8	4510.4	783.1	939.7	1018	806.4	976.7	1090.3	1726.3
		1219.2	12.7	10103.9	224.35	254.85	285.35	12	203	615932.4	3483.2	4179.8	4528.1	3586.9	4344.7	4849.9	7678.9
102-1575	O	54	0.438	189.3	40.98	46.56	52.13	0.472	8	5110.9	788.7	946.5	1025.3	812.2	983.8	1098.2	1738.8
		1371.6	11.112	10177	200.08	227.31	254.54	12	203	697936	3508.4	4210.1	4560.9	3612.8	4376.1	4884.9	7734.5
102-1321	O	44	0.562	190	50.84	57.73	64.63	0.472	8	4179.2	791.5	949.8	1029	815.1	987.3	1102.1	1745
		1117.6	14.288	10213.1	248.2	281.87	315.54	12	203	570707.3	3520.8	4225	4577.1	3625.6	4391.6	4902.3	7761.9
102-965	O	30	0.938	190.5	77.17	87.55	97.94	0.472	8	2857.4	793.7	952.5	1031.8	817.3	990	1105.1	1749.8
		762	23.812	10241.5	376.76	427.48	478.19	12	203	390202.1	3530.6	4236.8	4589.8	3635.7	4403.9	4915.9	7783.6
104-1168	O	38	0.688	192.7	60.19	68.32	76.46	0.472	8	3660.5	802.7	963.3	1043.6	826.6	1001.3	1117.7	1769.7
		965.2	17.462	10357.9	293.86	333.58	373.31	12	203	499874.2	3570.8	4284.9	4642	3677.1	4453.9	4971.8	7872
105-1016	O	32	0.875	194.5	73.28	83.14	93.01	0.472	8	3111.3	810.2	972.3	1053.3	834.4	1010.6	1128.2	1786.2
		812.8	22.225	10454.7	357.77	405.93	454.09	12	203	424879.9	3604.1	4325	4685.4	3711.4	4495.5	5018.3	7945.6



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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)
105-1524	O	52	0.472	195.3	43.9	49.86	55.82	0.472	8	5077.5	813.7	976.4	1057.8	837.9	1015	1133	1793.9
		1320.8	12	10499.4	214.35	243.44	272.53	12	203	693378.4	3619.5	4343.4	4705.4	3727.3	4514.7	5039.7	7979.5
105-1117	O	36	0.75	195.6	64.76	73.49	82.23	0.472	8	3520.5	814.9	977.9	1059.4	839.2	1016.5	1134.7	1796.6
		914.4	19.05	10515.1	316.16	358.81	401.46	12	203	480751.7	3625	4350	4712.5	3732.9	4521.5	5047.3	7991.5
106-1067	O	34	0.812	196.2	69.13	78.44	87.75	0.472	8	3334.9	817.4	980.8	1062.6	841.7	1019.5	1138.1	1802
		863.6	20.638	10546.7	337.52	382.98	428.45	12	203	455407.8	3635.9	4363	4726.6	3744.1	4535.1	5062.4	8015.5
106-1473	O	50	0.5	197.1	46.14	52.39	58.64	0.472	8	4928.4	821.4	985.7	1067.8	845.8	1024.5	1143.7	1810.8
		1270	12.7	10598.6	225.26	255.79	286.31	12	203	673010.9	3653.7	4384.5	4749.9	3762.5	4557.4	5087.3	8054.9
106-1625	O	56	0.438	197.4	41.1	46.68	52.26	0.472	8	5526.7	822.4	986.9	1069.2	846.9	1025.8	1145.1	1813.1
		1422.4	11.112	10611.9	200.68	227.91	255.15	12	203	754718.8	3658.3	4390	4755.8	3767.2	4563.1	5093.7	8065
107-1270	O	42	0.625	198.8	55.8	63.33	70.87	0.472	8	4173.8	828.1	993.8	1076.6	852.8	1033	1153.1	1825.7
		1066.8	15.875	10685.6	272.42	309.23	346.03	12	203	569970.9	3683.7	4420.5	4788.9	3793.4	4594.8	5129.1	8121.1
109-965	O	30	1	201.9	81.9	92.88	103.86	0.472	8	3028.7	841.3	1009.6	1093.7	866.4	1049.4	1171.4	1854.7
		762	25.4	10855.6	399.89	453.5	507.11	12	203	413596.9	3742.3	4490.8	4865	3853.7	4667.9	5210.7	8250.2
110-1575	O	54	0.472	204	44.05	50.01	55.97	0.472	8	5508.3	850	1020.1	1105.1	875.4	1060.3	1183.6	1874
		1371.6	12	10968.4	215.08	244.18	273.28	12	203	752210.1	3781.2	4537.4	4915.6	3893.8	4716.4	5264.8	8336
110-1219	O	40	0.688	205.1	60.62	68.78	76.95	0.472	8	4102.7	854.7	1025.7	1111.1	880.2	1066.1	1190.1	1884.3
		1016	17.462	11028.7	295.97	335.83	375.7	12	203	560258.4	3802	4562.4	4942.6	3915.2	4742.3	5293.8	8381.8
111-1524	O	52	0.5	206.4	46.31	52.57	58.83	0.472	8	5365.1	859.8	1031.8	1117.7	885.4	1072.4	1197.1	1895.5
		1320.8	12.7	11094.1	226.1	256.66	287.21	12	203	732655.2	3824.6	4589.5	4971.9	3938.4	4770.5	5325.2	8431.5
111-1016	O	32	0.938	207.1	78.12	88.59	99.06	0.472	8	3313.9	863	1035.6	1121.9	888.7	1076.4	1201.6	1902.5
		812.8	23.812	11135.5	381.41	432.53	483.65	12	203	452545.8	3838.8	4606.6	4990.5	3953.1	4788.3	5345	8463
112-1168	O	38	0.75	209.1	65.29	74.06	82.83	0.472	8	3973.5	871.4	1045.7	1132.8	897.3	1086.9	1213.3	1921
		965.2	19.05	11243.6	318.76	361.6	404.43	12	203	542617.7	3876.1	4651.3	5038.9	3991.5	4834.8	5396.9	8545.2
113-1067	O	34	0.875	210.1	74.06	83.99	93.92	0.472	8	3571.5	875.4	1050.4	1138	901.4	1091.9	1218.8	1929.8
		863.6	22.225	11295.1	361.62	410.09	458.57	12	203	487721.7	3893.8	4672.6	5062	4009.8	4856.9	5421.6	8584.3
113-1321	O	44	0.625	210.2	56.12	63.67	71.23	0.472	8	4623.7	875.7	1050.8	1138.4	901.8	1092.3	1219.3	1930.6
		1117.6	15.875	11299.4	273.99	310.89	347.78	12	203	631410.7	3895.3	4674.4	5063.9	4011.3	4858.7	5423.7	8587.5



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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)
113-1422	O	48	0.562	210.6	51.33	58.25	65.17	0.472	8	5054.3	877.5	1053	1140.7	903.6	1094.5	1221.8	1934.5
		1219.2	14.288	11322.4	250.61	284.39	318.17	12	203	690213.1	3903.3	4683.9	5074.2	4019.4	4868.6	5434.7	8605
113-1117	O	36	0.812	210.8	69.78	79.14	88.5	0.472	8	3793.9	878.2	1053.9	1141.7	904.4	1095.4	1222.8	1936.1
		914.4	20.638	11331.8	340.68	386.39	432.11	12	203	518091.1	3906.5	4687.8	5078.5	4022.8	4872.7	5439.3	8612.2
114-1625	O	56	0.472	212.7	44.19	50.15	56.12	0.472	8	5956.9	886.4	1063.7	1152.4	912.8	1105.7	1234.3	1954.2
		1422.4	12	11438	215.75	244.87	273.99	12	203	813467.5	3943.1	4731.7	5126	4060.5	4918.3	5490.2	8692.8
115-1079	O	34.5	0.875	214	74.25	84.19	94.14	0.472	8	3691.7	891.7	1070	1159.2	918.2	1112.2	1241.6	1965.8
		876.3	22.225	11505.8	362.52	411.07	459.63	12	203	504128.8	3966.5	4759.8	5156.4	4084.6	4947.5	5522.8	8744.4
116-1575	O	54	0.5	215.6	46.47	52.73	59	0.472	8	5820.7	898.3	1077.9	1167.7	925	1120.4	1250.7	1980.3
		1371.6	12.7	11590.4	226.89	257.47	288.05	12	203	794868.5	3995.6	4794.8	5194.3	4114.6	4983.9	5563.4	8808.7
117-1270	O	42	0.688	217.6	61.02	69.21	77.4	0.472	8	4570.6	906.9	1088.2	1178.9	933.9	1131.2	1262.7	1999.3
		1066.8	17.462	11701.6	297.91	337.91	377.9	12	203	624161.3	4034	4840.8	5244.2	4154.1	5031.7	5616.7	8893.2
118-1016	O	32	1	219.6	82.94	94.01	105.09	0.472	8	3514	915.1	1098.1	1189.6	942.3	1141.4	1274.2	2017.4
		812.8	25.4	11807.8	404.96	459.02	513.08	12	203	479870.1	4070.6	4884.7	5291.8	4191.8	5077.4	5667.8	8973.9
119-1473	O	50	0.562	220.9	51.55	58.48	65.41	0.472	8	5523.6	920.6	1104.7	1196.8	948	1148.3	1281.8	2029.5
		1270	14.288	11878.6	251.69	285.52	319.35	12	203	754290.6	4095	4914	5323.5	4216.9	5107.8	5701.7	9027.7
120-1219	O	40	0.75	222.7	65.77	74.58	83.39	0.472	8	4454.6	928	1113.7	1206.5	955.7	1157.6	1292.2	2045.9
		1016	19.05	11974.7	321.14	364.15	407.16	12	203	608316.7	4128.1	4953.8	5366.6	4251	5149.1	5747.9	9100.8
120-1067	O	34	0.938	223.8	78.98	89.53	100.07	0.472	8	3805.4	932.7	1119.2	1212.5	960.5	1163.4	1298.7	2056.2
		863.6	23.812	12034.8	385.62	437.1	488.58	12	203	519661.5	4148.8	4978.6	5393.5	4272.3	5175	5776.7	9146.4
121-1625	O	56	0.5	224.8	46.62	52.89	59.16	0.472	8	6295.1	936.8	1124.1	1217.8	964.7	1168.5	1304.3	2065.2
		1422.4	12.7	12087.3	227.63	258.23	288.84	12	203	859646.9	4166.9	5000.3	5417	4291	5197.5	5801.9	9186.3
121-1168	O	38	0.812	225.4	70.37	79.78	89.19	0.472	8	4283.3	939.3	1127.2	1221.1	967.3	1171.6	1307.9	2070.8
		965.2	20.638	12120.3	343.57	389.51	435.45	12	203	584923.8	4178.3	5014	5431.8	4302.7	5211.7	5817.7	9211.4
121-1117	O	36	0.875	225.8	74.78	84.77	94.76	0.472	8	4064.4	940.8	1129	1223.1	968.8	1173.5	1310	2074.1
		914.4	22.225	12139.7	365.11	413.88	462.64	12	203	555025.1	4185	5022	5440.5	4309.6	5220.1	5827	9226.1
124-1321	O	44	0.688	230.2	61.38	69.6	77.81	0.472	8	5064.4	959.2	1151	1246.9	987.7	1196.4	1335.5	2114.5
		1117.6	17.462	12376.3	299.71	339.82	379.93	12	203	691584.9	4266.6	5119.9	5546.5	4393.6	5321.8	5940.6	9406



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BALL & SOCKET
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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)
124-1524	O	52	0.562	231.3	51.76	58.69	65.63	0.472	8	6014	963.8	1156.5	1252.9	992.5	1202.1	1341.9	2124.7
		1320.8	14.288	12435.8	252.69	286.57	320.45	12	203	821262.6	4287.1	5144.5	5573.2	4414.7	5347.4	5969.2	9451.2
125-1422	O	48	0.625	233.1	56.69	64.28	71.87	0.472	8	5593.9	971.2	1165.4	1262.5	1000.1	1211.4	1352.2	2141
		1219.2	15.875	12531.2	276.79	313.85	350.91	12	203	763901	4320	5184	5616	4448.6	5388.4	6015	9523.7
127-1270	O	42	0.75	236.4	66.22	75.06	83.91	0.472	8	4963.8	984.9	1181.9	1280.4	1014.2	1228.5	1371.3	2171.3
		1066.8	19.05	12708.2	323.33	366.49	409.66	12	203	677854	4381	5257.2	5695.3	4511.4	5464.5	6099.9	9658.2
128-1067	O	34	1	237.4	83.88	95.04	106.19	0.472	8	4036.6	989.4	1187.2	1286.2	1018.8	1234.1	1377.5	2181.1
		863.6	25.4	12765.9	409.54	464.01	518.47	12	203	551231	4400.9	5281.1	5721.1	4531.9	5489.3	6127.6	9702.1
129-1219	O	40	0.812	240.2	70.91	80.36	89.81	0.472	8	4803.1	1000.7	1200.8	1300.8	1030.4	1248.1	1393.3	2206
		1016	20.638	12911.6	346.22	392.37	438.51	12	203	655908.9	4451.1	5341.3	5786.4	4583.6	5552	6197.6	9812.8
129-1117	O	36	0.938	240.7	79.77	90.38	100.99	0.472	8	4331.9	1002.7	1203.3	1303.6	1032.6	1250.8	1396.2	2210.6
		914.4	23.812	12938.7	389.45	441.26	493.07	12	203	591556.3	4460.5	5352.5	5798.6	4593.2	5563.6	6210.6	9833.4
130-1168	O	38	0.875	241.6	75.43	85.48	95.52	0.472	8	4589.9	1006.6	1207.9	1308.5	1036.5	1255.5	1401.5	2219
		965.2	22.225	12987.9	368.3	417.33	466.36	12	203	626795.9	4477.4	5372.9	5820.6	4610.7	5584.8	6234.2	9870.8
130-1575	O	54	0.562	241.7	51.95	58.9	65.84	0.472	8	6525.5	1007	1208.4	1309.1	1037	1256.1	1402.1	2220.1
		1371.6	14.288	12993.8	253.63	287.56	321.48	12	203	891115.2	4479.5	5375.3	5823.3	4612.8	5587.3	6237	9875.3
131-1727	O	60	0.5	243.3	46.9	53.18	59.45	0.472	8	7300.2	1013.9	1216.7	1318.1	1044.1	1264.7	1411.7	2235.3
		1524	12.7	13082.8	228.98	259.62	290.27	12	203	996907.9	4510.1	5412.2	5863.2	4644.4	5625.6	6279.7	9942.9
132-1473	O	50	0.625	244.6	56.95	64.55	72.16	0.472	8	6114.3	1019	1222.8	1324.8	1049.4	1271.1	1418.9	2246.6
		1270	15.875	13148.9	278.05	315.18	352.31	12	203	834955.9	4532.9	5439.5	5892.8	4667.9	5654	6311.5	9993.2
134-1321	O	44	0.75	250.1	66.64	75.51	84.38	0.472	8	5501.2	1041.9	1250.3	1354.4	1072.9	1299.6	1450.7	2296.9
		1117.6	19.05	13443.7	325.35	368.66	411.98	12	203	751231.3	4634.5	5561.4	6024.9	4772.5	5780.8	6453	10217.2
136-1625	O	56	0.562	252.1	52.13	59.09	66.04	0.472	8	7058.2	1050.3	1260.4	1365.4	1081.6	1310.1	1462.4	2315.5
		1422.4	14.288	13552.5	254.52	288.48	322.45	12	203	963855.1	4672.1	5606.5	6073.7	4811.1	5827.6	6505.2	10299.9
137-1270	O	42	0.812	254.9	71.41	80.9	90.39	0.472	8	5353.4	1062.2	1274.6	1380.8	1093.8	1324.9	1478.9	2341.7
		1066.8	20.638	13705.5	348.66	395	441.33	12	203	731051.3	4724.8	5669.8	6142.2	4865.5	5893.4	6578.6	10416.2
137-1117	O	36	1	255.4	84.73	95.96	107.2	0.472	8	4596.5	1064	1276.8	1383.2	1095.7	1327.2	1481.5	2345.7
		914.4	25.4	13729	413.7	468.54	523.38	12	203	627689.1	4732.9	5679.5	6152.8	4873.8	5903.5	6589.9	10434



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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)
137-1422	O	48	0.688	255.4	62.04	70.3	78.56	0.472	8	6129.2	1064.1	1276.9	1383.3	1095.8	1327.3	1481.6	2345.9
		1219.2	17.462	13730.3	302.91	343.23	383.55	12	203	836999	4733.4	5680	6153.4	4874.3	5904	6590.5	10435
138-1524	O	52	0.625	256.1	57.19	64.81	72.43	0.472	8	6658	1067	1280.4	1387.1	1098.8	1330.9	1485.6	2352.3
		1320.8	15.875	13767.6	279.22	316.42	353.61	12	203	909213.8	4746.2	5695.5	6170.1	4887.5	5920.1	6608.5	10463.4
138-1219	O	40	0.875	257.4	76.03	86.12	96.22	0.472	8	5148.2	1072.6	1287.1	1394.3	1104.5	1337.8	1493.4	2364.5
		1016	22.225	13839.3	371.23	420.5	469.77	12	203	703038.6	4770.9	5725.1	6202.2	4913	5950.9	6642.9	10517.9
139-1168	O	38	0.938	257.5	80.48	91.15	101.83	0.472	8	4893.4	1073.1	1287.7	1395	1105.1	1338.5	1494.2	2365.8
		965.2	23.812	13846.6	392.94	445.05	497.16	12	203	668237.5	4773.5	5728.1	6205.5	4915.5	5954	6646.4	10523.4
144-1575	O	54	0.625	267.6	57.41	65.04	72.68	0.472	8	7225.3	1115	1338	1449.5	1148.2	1390.8	1552.5	2458.1
		1371.6	15.875	14387.3	280.32	317.58	354.83	12	203	986682.3	4959.9	5951.8	6447.8	5107.5	6186.5	6905.9	10934.4
144-1473	O	50	0.688	268	62.33	70.61	78.89	0.472	8	6700.4	1116.7	1340.1	1451.7	1150	1392.9	1554.9	2461.9
		1270	17.462	14409.4	304.34	344.76	385.17	12	203	914996.6	4967.5	5961	6457.7	5115.3	6196	6916.5	10951.1
145-1321	O	44	0.812	269.7	71.87	81.4	90.92	0.472	8	5934.1	1123.9	1348.7	1461	1157.3	1401.8	1564.8	2477.7
		1117.6	20.638	14501.6	350.91	397.42	443.93	12	203	810351.4	4999.3	5999.1	6499	5148.1	6235.7	6960.8	11021.2
147-1727	O	60	0.562	272.9	52.46	59.43	66.4	0.472	8	8187	1137.1	1364.5	1478.2	1170.9	1418.3	1583.2	2506.8
		1524	14.288	14672	256.13	290.17	324.21	12	203	1118008.1	5058	6069.6	6575.4	5208.6	6309	7042.6	11150.7
147-1270	O	42	0.875	273.3	76.58	86.72	96.86	0.472	8	5739.3	1138.8	1366.5	1480.4	1172.7	1420.4	1585.6	2510.5
		1066.8	22.225	14693.6	373.92	423.41	472.9	12	203	783757.3	5065.4	6078.5	6585.1	5216.2	6318.3	7052.9	11167.1
147-1168	O	38	1	273.4	85.51	96.81	108.11	0.472	8	5193.7	1139	1366.8	1480.7	1172.9	1420.7	1585.9	2511
		965.2	25.4	14696.5	417.5	472.68	527.86	12	203	709251	5066.4	6079.7	6586.3	5217.2	6319.5	7054.3	11169.3
148-1219	O	40	0.938	274.5	81.14	91.87	102.6	0.472	8	5490	1143.8	1372.5	1486.9	1177.8	1426.6	1592.5	2521.5
		1016	23.812	14758	396.15	448.53	500.92	12	203	749708.8	5087.7	6105.2	6614	5239.1	6346	7083.9	11216.1
149-1422	O	48	0.75	277.5	67.38	76.3	85.23	0.472	8	6660.2	1156.3	1387.5	1503.2	1190.7	1442.3	1610	2549.1
		1219.2	19.05	14919.8	328.95	372.53	416.11	12	203	909513.4	5143.4	6172.1	6686.5	5296.5	6415.5	7161.5	11339.1
150-1625	O	56	0.625	279.1	57.62	65.27	72.91	0.472	8	7816.1	1163.1	1395.7	1512	1197.7	1450.8	1619.5	2564.2
		1422.4	15.875	15007.9	281.34	318.66	355.98	12	203	1067361.9	5173.8	6208.5	6725.9	5327.8	6453.4	7203.8	11406
151-1524	O	52	0.688	280.7	62.61	70.9	79.2	0.472	8	7297.4	1169.5	1403.3	1520.3	1204.3	1458.7	1628.3	2578.1
		1320.8	17.462	15089.7	305.68	346.19	386.69	12	203	996521.9	5202	6242.4	6762.6	5356.8	6488.6	7243	11468.1



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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/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)				k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)	k-ft/ft (kN·m/m)
156-1321	O	44	0.875	289.2	77.09	87.27	97.45	0.472	8	6363.2	1205.2	1446.2	1566.7	1241	1503.2	1678	2656.9
		1117.6	22.225	15550.3	376.4	426.1	475.79	12	203	868953.5	5360.8	6432.9	6969	5520.4	6686.7	7464.2	11818.3
157-1473	O	50	0.75	291.3	67.71	76.66	85.6	0.472	8	7282	1213.7	1456.4	1577.8	1249.8	1513.8	1689.9	2675.6
		1270	19.05	15660.3	330.57	374.26	417.96	12	203	994426.3	5398.7	6478.4	7018.3	5559.4	6733.9	7516.9	11901.8
157-1219	O	40	1	291.4	86.22	97.59	108.96	0.472	8	5828.4	1214.3	1457.1	1578.5	1250.4	1514.6	1690.7	2676.9
		1016	25.4	15667.7	420.99	476.48	531.97	12	203	795921.6	5401.3	6481.5	7021.6	5562.1	6737.1	7520.5	11907.5
157-1270	O	42	0.938	291.5	81.74	92.52	103.3	0.472	8	6121.7	1214.6	1457.5	1579	1250.8	1515	1691.2	2677.7
		1066.8	23.812	15672.6	399.09	451.73	504.37	12	203	835974.2	5402.9	6483.5	7023.8	5563.8	6739.2	7522.8	11911.1
158-1575	O	54	0.688	293.3	62.87	71.18	79.49	0.472	8	7920.2	1222.3	1466.7	1588.9	1258.6	1524.6	1701.8	2694.6
		1371.6	17.462	15771	306.94	347.52	388.11	12	203	1081576.3	5436.9	6524.2	7067.9	5598.7	6781.5	7570.1	11986
161-1422	O	48	0.812	299.5	72.7	82.29	91.88	0.472	8	7187	1247.7	1497.3	1622.1	1284.9	1556.3	1737.3	2750.7
		1219.2	20.638	16099.8	354.93	401.75	448.58	12	203	981444.2	5550.2	6660.2	7215.3	5715.4	6922.9	7727.9	12235.9
163-1727	O	60	0.625	302.3	58.01	65.67	73.34	0.472	8	9068.2	1259.5	1511.4	1637.3	1297	1571	1753.6	2776.6
		1524	15.875	16251.2	283.22	320.64	358.07	12	203	1238343.9	5602.4	6722.9	7283.1	5769.2	6988	7800.6	12350.9
164-1524	O	52	0.75	305.1	68.02	76.99	85.96	0.472	8	7932	1271.2	1525.4	1652.5	1309	1585.5	1769.9	2802.4
		1320.8	19.05	16402	332.08	375.88	419.69	12	203	1083186.8	5654.4	6785.3	7350.7	5822.7	7052.9	7873	12465.5
165-1625	O	56	0.688	306	63.11	71.43	79.76	0.472	8	8568.9	1275.1	1530.2	1657.7	1313.1	1590.5	1775.4	2811.1
		1422.4	17.462	16453.2	308.11	348.77	389.44	12	203	1170155	5672.1	6806.5	7373.7	5840.9	7074.9	7897.6	12504.5
166-1321	O	44	0.938	308.6	82.3	93.13	103.96	0.472	8	6788.6	1285.7	1542.9	1671.4	1324	1603.7	1790.2	2834.5
		1117.6	23.812	16589.8	401.81	454.69	507.56	12	203	927040.7	5719.2	6863	7434.9	5889.4	7133.6	7963.1	12608.3
166-1270	O	42	1	309.5	86.88	98.31	109.73	0.472	8	6500.5	1289.8	1547.7	1676.7	1328.2	1608.8	1795.9	2843.4
		1066.8	25.4	16642.4	424.19	479.97	535.75	12	203	887706.3	5737.3	6884.7	7458.4	5908.1	7156.2	7988.4	12648.2
169-1283	O	42.5	1	314.1	87.04	98.48	109.91	0.472	8	6674.4	1308.7	1570.5	1701.3	1347.7	1632.4	1822.2	2885.1
		1079.5	25.4	16886.6	424.95	480.8	536.64	12	203	911451.9	5821.4	6985.7	7567.9	5994.7	7261.2	8105.5	12833.8
169-1473	O	50	0.812	314.4	73.06	82.68	92.3	0.472	8	7859.2	1309.9	1571.8	1702.8	1348.9	1633.8	1823.8	2887.7
		1270	20.638	16901.5	356.73	403.69	450.66	12	203	1073245.1	5826.6	6991.9	7574.6	6000	7267.6	8112.7	12845.1
171-1575	O	54	0.75	318.9	68.3	77.3	86.29	0.472	8	8610.1	1328.7	1594.5	1727.3	1368.3	1657.4	1850.1	2929.3
		1371.6	19.05	17144.8	333.49	377.4	421.3	12	203	1175790.7	5910.5	7092.5	7683.6	6086.4	7372.3	8229.5	13030.1

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



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Section	Solution Type	Pipe		Section Modulus	Panel Weight by Ratio			Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness		60%	80%	100%				G50	G60	G65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)		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)
173-1422	O	48	0.875	321.2	78	88.25	98.51	0.472	8	7709.5	1338.5	1606.1	1740	1378.3	1669.5	1863.6	2950.7
		1219.2	22.225	17270.3	380.84	430.9	480.96	12	203	1052798.5	5953.7	7144.5	7739.8	6131	7426.2	8289.8	13125.4
176-1321	O	44	1	327.7	87.49	98.97	110.44	0.472	8	7210.1	1365.6	1638.7	1775.2	1406.2	1703.3	1901.3	3010.5
		1117.6	25.4	17620	427.15	483.19	539.23	12	203	984605.5	6074.3	7289.1	7896.6	6255.1	7576.6	8457.6	13391.2
177-1448	O	49	0.875	328.9	78.21	88.48	98.75	0.472	8	8058	1370.4	1644.5	1781.5	1411.2	1709.3	1908.1	3021.2
		1244.6	22.225	17682.7	381.85	431.99	482.14	12	203	1100392.3	6095.9	7315.1	7924.6	6277.3	7603.5	8487.7	13438.8
177-1524	O	52	0.812	329.3	73.41	83.05	92.7	0.472	8	8561.9	1372.1	1646.5	1783.7	1413	1711.5	1910.5	3024.9
		1320.8	20.638	17704.6	358.41	405.51	452.6	12	203	1169208.6	6103.4	7324.1	7934.5	6285.1	7613	8498.2	13455.5
178-1727	O	60	0.688	331.5	63.54	71.9	80.26	0.472	8	9943.8	1381.1	1657.3	1795.4	1422.2	1722.7	1923	3044.7
		1524	17.462	17820.4	310.25	351.06	391.86	12	203	1357915.5	6143.4	7372	7986.4	6326.2	7662.8	8553.8	13543.5
179-1625	O	56	0.75	332.7	68.58	77.59	86.6	0.472	8	9316.5	1386.4	1663.7	1802.3	1427.7	1729.3	1930.4	3056.4
		1422.4	19.05	17888.8	334.82	378.82	422.82	12	203	1272253	6167	7400.3	8017	6350.5	7692.2	8586.6	13595.5
181-1473	O	50	0.875	337.3	78.41	88.7	98.98	0.472	8	8431.9	1405.3	1686.4	1826.9	1447.2	1752.9	1956.7	3098.1
		1270	22.225	18133.1	382.82	433.05	483.27	12	203	1151452.8	6251.2	7501.4	8126.5	6437.3	7797.2	8703.9	13781.2
184-1422	O	48	0.938	342.8	83.29	94.21	105.12	0.472	8	8227.8	1428.4	1714.1	1857	1471	1781.7	1988.9	3149.1
		1219.2	23.812	18431.4	406.67	459.96	513.25	12	203	1123576.1	6354	7624.8	8260.2	6543.1	7925.5	8847.1	14007.8
185-1575	O	54	0.812	344.3	73.73	83.4	93.07	0.472	8	9295.2	1434.4	1721.3	1864.8	1477.1	1789.2	1997.3	3162.3
		1371.6	20.638	18508.9	359.98	407.2	454.42	12	203	1269338.2	6380.7	7656.8	8294.9	6570.6	7958.8	8884.3	14066.7
186-1498	O	51	0.875	344.9	78.6	88.9	99.21	0.472	8	8796	1437.3	1724.7	1868.4	1480	1792.7	2001.2	3168.5
		1295.4	22.225	18545.3	383.77	434.07	484.37	12	203	1201177	6393.3	7671.9	8311.2	6583.6	7974.5	8901.7	14094.4
190-1524	O	52	0.875	353.4	78.79	89.11	99.42	0.472	8	9187.2	1472.3	1766.8	1914	1516.1	1836.4	2050	3245.8
		1320.8	22.225	18997.4	384.68	435.06	485.43	12	203	1254587.2	6549.1	7858.9	8513.8	6744.1	8168.9	9118.7	14438
193-1625	O	56	0.812	359.2	74.03	83.73	93.42	0.472	8	10059	1496.9	1796.2	1945.9	1541.4	1867.1	2084.2	3300
		1422.4	20.638	19314.4	361.46	408.79	456.12	12	203	1373643.4	6658.4	7990.1	8655.9	6856.6	8305.2	9270.9	14679
194-1473	O	50	0.938	360	83.74	94.69	105.65	0.472	8	9000.2	1500	1800	1950	1544.7	1871	2088.6	3306.9
		1270	23.812	19355.2	408.85	462.33	515.8	12	203	1229056.3	6672.5	8007	8674.2	6871.1	8322.7	9290.5	14710
194-1727	O	60	0.75	360.5	69.07	78.12	87.17	0.472	8	10813.8	1501.9	1802.3	1952.5	1546.6	1873.4	2091.2	3311.1
		1524	19.05	19379.6	337.23	381.41	425.58	12	203	1476722.6	6680.9	8017	8685.1	6879.7	8333.2	9302.2	14728.5



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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)
194-1549	O	53	0.875	361	78.97	89.3	99.64	0.472	8	9566.9	1504.2	1805.1	1955.5	1549	1876.3	2094.4	3316.2
		1346.2	22.225	19409.4	385.56	436.01	486.46	12	203	1306445.8	6691.2	8029.4	8698.5	6890.3	8346	9316.5	14751.1
196-1422	O	48	1	364.2	88.57	100.14	111.72	0.472	8	8741.9	1517.7	1821.2	1973	1562.9	1893	2113.2	3345.8
		1219.2	25.4	19583	432.44	488.95	545.46	12	203	1193779.8	6751	8101.2	8776.3	6952	8420.7	9399.8	14883.1
199-1575	O	54	0.875	369.5	79.14	89.49	99.84	0.472	8	9975.3	1539.4	1847.3	2001.2	1585.2	1920.1	2143.4	3393.7
		1371.6	22.225	19863.2	386.41	436.94	487.46	12	203	1362219	6847.6	8217.1	8901.9	7051.4	8541.2	9534.3	15096
201-1448	O	49	1	373.4	88.82	100.41	112.01	0.472	8	9148.3	1555.8	1867	2022.6	1602.1	1940.6	2166.3	3429.9
		1244.6	25.4	20075.1	433.64	490.26	546.88	12	203	1249275.9	6920.7	8304.8	8996.9	7126.7	8632.3	9636.1	15257.1
203-1600	O	55	0.875	377.1	79.31	89.67	100.04	0.472	8	10370.6	1571.3	1885.6	2042.7	1618.1	1959.9	2187.8	3464.1
		1397	22.225	20274.9	387.24	437.83	488.42	12	203	1416200.3	6989.5	8387.4	9086.4	7197.6	8718.2	9731.9	15408.9
203-1524	O	52	0.938	377.2	84.15	95.14	106.13	0.472	8	9807.8	1571.8	1886.1	2043.3	1618.6	1960.5	2188.5	3465.1
		1320.8	23.812	20280.8	410.88	464.53	518.19	12	203	1339342.4	6991.6	8389.9	9089	7199.7	8720.7	9734.8	15413.4
206-1473	O	50	1	382.6	89.06	100.67	112.29	0.472	8	9564	1594	1912.8	2072.2	1641.5	1988.2	2219.4	3514.1
		1270	25.4	20567.8	434.81	491.53	548.25	12	203	1306053.9	7090.5	8508.6	9217.6	7301.6	8844.1	9872.5	15631.5
207-1625	O	56	0.875	385.6	79.48	89.85	100.23	0.472	8	10796.4	1606.6	1927.9	2088.6	1654.4	2004	2237	3541.9
		1422.4	22.225	20730.3	388.04	438.7	489.35	12	203	1474338.6	7146.5	8575.8	9290.5	7359.3	8914	9950.5	15755
209-1727	O	60	0.812	389.3	74.58	84.32	94.06	0.472	8	11678.2	1622	1946.4	2108.6	1670.3	2023.1	2258.4	3575.8
		1524	20.638	20928.7	364.15	411.69	459.23	12	203	1594765.5	7214.9	8657.9	9379.4	7429.7	8999.3	10045.8	15905.8
211-1498	O	51	1	391.7	89.29	100.92	112.56	0.472	8	9989.2	1632.2	1958.7	2121.9	1680.8	2035.9	2272.6	3598.4
		1295.4	25.4	21060.9	435.93	492.75	549.58	12	203	1364114.1	7260.5	8712.6	9438.6	7476.6	9056.2	10109.2	16006.3
212-1575	O	54	0.938	394.5	84.54	95.57	106.59	0.472	8	10650.6	1643.6	1972.3	2136.7	1692.5	2050.1	2288.5	3623.5
		1371.6	23.812	21207.8	412.78	466.6	520.41	12	203	1454432.9	7311.1	8773.4	9504.5	7528.8	9119.4	10179.8	16117.9
216-1524	O	52	1	400.9	89.51	101.17	112.82	0.472	8	10423.8	1670.5	2004.6	2171.6	1720.2	2083.6	2325.9	3682.7
		1320.8	25.4	21554.5	437.02	493.94	550.86	12	203	1423456.7	7430.6	8916.8	9659.8	7651.8	9268.4	10346.1	16381.4
221-1549	O	53	1	410.1	89.72	101.4	113.08	0.472	8	10867.7	1708.8	2050.5	2221.4	1759.6	2131.4	2379.2	3767.1
		1346.2	25.4	22048.5	438.07	495.08	552.1	12	203	1484081.9	7600.9	9121.1	9881.2	7827.2	9480.8	10583.3	16756.8
221-1625	O	56	0.938	411.7	84.91	95.96	107.02	0.472	8	11528.7	1715.6	2058.7	2230.3	1766.6	2139.9	2388.7	3782.1
		1422.4	23.812	22136.5	414.56	468.53	522.5	12	203	1574344.8	7631.3	9157.5	9920.7	7858.4	9518.7	10625.5	16823.7



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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)
225-1727	O	60	0.875	417.9	80.08	90.51	100.94	0.472	8	12537.2	1741.3	2089.5	2263.7	1793.1	2171.9	2424.5	3838.8
		1524	22.225	22468	391.01	441.91	492.81	12	203	1712061.4	7745.6	9294.7	10069.2	7976.1	9661.2	10784.6	17075.7
225-1575	O	54	1	419.3	89.93	101.63	113.32	0.472	8	11321.1	1747.1	2096.5	2271.2	1799.1	2179.2	2432.6	3851.6
		1371.6	25.4	22542.9	439.08	496.19	553.29	12	203	1545990.1	7771.4	9325.6	10102.8	8002.7	9693.4	10820.6	17132.6
230-1600	O	55	1	428.5	90.13	101.85	113.56	0.472	8	11783.8	1785.4	2142.5	2321	1838.6	2227	2486	3936.1
		1397	25.4	23037.7	440.07	497.26	554.45	12	203	1609181.2	7942	9530.3	10324.5	8178.4	9906.2	11058.1	17508.6
235-1625	O	56	1	437.7	90.33	102.06	113.79	0.472	8	12255.9	1823.8	2188.6	2370.9	1878.1	2274.9	2539.4	4020.7
		1422.4	25.4	23532.8	441.02	498.3	555.58	12	203	1673655.7	8112.7	9735.2	10546.5	8354.2	10119.1	11295.8	17885
240-1727	O	60	0.938	446.4	85.57	96.69	107.8	0.472	8	13390.6	1859.8	2231.8	2417.7	1915.2	2319.8	2589.5	4100.1
		1524	23.812	23997.4	417.81	472.06	526.31	12	203	1828598.7	8272.8	9927.3	10754.6	8519.1	10318.9	11518.7	18238
255-1727	O	60	1	474.6	91.05	102.85	114.64	0.472	8	14238.5	1977.6	2373.1	2570.8	2036.4	2466.7	2753.5	4359.7
		1524	25.4	25516.9	444.56	502.15	559.75	12	203	1944389.1	8796.7	10556	11435.6	9058.5	10972.3	12248.1	19392.9

Specifications

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

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

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

Available Steel Grades

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

ENGINEERING DISCLAIMER

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

LEGAL DISCLAIMER

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