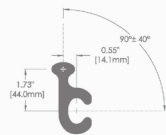


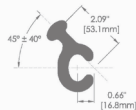
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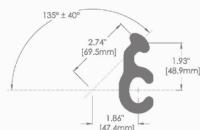
PilePro® Sheet Pile Connectors



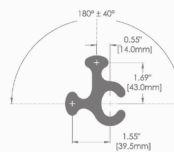
PZ 90



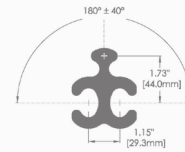
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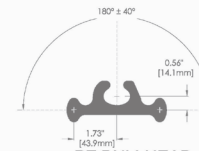
Cobra



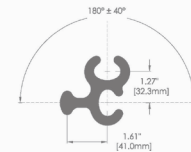
PZ Tee



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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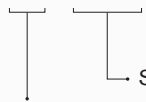


Configuration C2 (PZC 18)



SECTION NAME:

79 - 2045



Section width in mm

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

These are examples from a large variety of possible IZ[®] solutions.

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

*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 IP, that may be related to this sheet pile solution.*



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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area	Diameter	Configuration
				60%	80%	100%				
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	in (mm)	
30-1626	IZ®	56.3	64	21.5	27	32.6	434.5	19.68	W16X26	C2 (PZC 18)
		3027.3	1626.2	105	132	159	59339.1	6	W410X38.8	
31-1626	IZ®	58.3	64	22.4	27.9	33.5	452	19.68	W16X31	C2 (PZC 18)
		3133.4	1626.2	109.4	136.4	163.4	61722.9	6	W410X46.1	
32-1663	IZ®	58.7	65.5	22.8	28.2	33.6	455.6	20.17	W16X36	C2 (PZC 18)
		3156.5	1663.2	111.4	137.8	164.2	62214.8	6.15	W410X53	
33-1664	IZ®	60.5	65.5	23.6	29	34.4	471.6	20.2	W16X40	C2 (PZC 18)
		3250.3	1664.2	115	141.4	167.8	64396.2	6.16	W410X60	
33-1665	IZ®	62.1	65.6	24.5	29.9	35.3	486.3	20.24	W16X45	C2 (PZC 18)
		3337.2	1665.2	119.5	145.8	172.2	66403.1	6.17	W410X67	
34-1638	IZ®	63.5	64.5	23	28.5	34	519.1	20.14	W18X35	C2 (PZC 18)
		3415	1638.2	112.2	139	165.8	70893.7	6.14	W460X52	
34-1666	IZ®	63.8	65.6	25.4	30.8	36.2	501.9	20.27	W16X50	C2 (PZC 18)
		3428.9	1666.2	123.9	150.2	176.6	68533.3	6.18	W410X75	
35-1885	IZ®	65.2	74.2	28.5	33.3	38.1	498.3	22.93	HP16x88	C2 (PZC 18)
		3507.5	1884.7	139.2	162.5	185.8	68050.4	6.99	HP410x131	
36-1639	IZ®	66	64.5	23.9	29.4	34.9	543.5	20.2	W18X40	C2 (PZC 18)
		3547.6	1639.2	116.7	143.5	170.3	74222.1	6.16	W460X60	
36-1667	IZ®	66.1	65.6	26.6	32	37.4	523.2	20.3	W16X57	C2 (PZC 18)
		3553.1	1667.2	129.9	156.2	182.5	71453.3	6.19	W410X85	
36-1746	IZ®	67.6	68.7	27.3	32.5	37.6	535.2	21.32	W16X67	C2 (PZC 18)
		3636.9	1746.2	133.4	158.6	183.7	73083.8	6.5	W410X100	
37-1640	IZ®	68.2	64.6	25	30.5	36	566	20.24	W18X46	C2 (PZC 18)
		3667.8	1640.2	122.1	148.9	175.6	77296.3	6.17	W460X68	
37-1676	IZ®	68.5	66	25.2	30.5	35.9	568	20.7	W18X50	C2 (PZC 18)
		3682.7	1676.2	122.9	149.1	175.3	77564.5	6.31	W460X74	
37-1886	IZ®	69.2	74.3	30.7	35.5	40.3	532.3	22.99	HP16x101	C2 (PZC 18)
		3720.4	1886.2	150.1	173.4	196.7	72686	7.01	HP410x151	

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				60%	80%	100%				
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	in (mm)	
38-1677	IZ®	70.5	66	26.2	31.5	36.9	587.6	20.7	W18X55	C2 (PZC 18)
		3787.7	1677.2	127.7	153.9	180.1	80246.6	6.31	W460X82	
38-1747	IZ®	71	68.8	29.1	34.2	39.4	566.2	21.35	W16X77	C2 (PZC 18)
		3815.7	1747.2	141.9	167	192.2	77314.6	6.51	W410X114	
39-1678	IZ®	72.4	66.1	27	32.4	37.7	607.3	20.73	W18X60	C2 (PZC 18)
		3892.6	1678.2	131.8	158	184.2	82929.8	6.32	W460X89	
40-1679	IZ®	74.3	66.1	27.8	33.2	38.6	626.5	20.76	W18X65	C2 (PZC 18)
		3993.4	1679.2	136	162.1	188.3	85557.4	6.33	W460X97	
40-1889	IZ®	74.9	74.4	33.9	38.7	43.5	583.9	23.06	HP16x121	C2 (PZC 18)
		4024.9	1889.4	165.7	188.9	212.2	79732.9	7.03	HP410x181	
40-1651	IZ®	74.9	65	24.5	29.9	35.4	667.3	20.79	W21X44	C2 (PZC 18)
		4028.9	1651.2	119.6	146.2	172.8	91131.4	6.34	W530X66	
40-1749	IZ®	74.9	68.9	31.1	36.3	41.4	603.2	21.42	W16X89	C2 (PZC 18)
		4029.1	1749.2	152.1	177.2	202.3	82369.9	6.53	W410X132	
40-1693	IZ®	75.1	66.7	24.6	29.9	35.2	670.6	21.35	W21X48	C2 (PZC 18)
		4040	1693.2	120.1	146	172	91582	6.51	W530X72	
41-1766	IZ®	75.6	69.5	28.4	33.5	38.6	638	21.88	W18X76	C2 (PZC 18)
		4064.3	1766.2	138.6	163.5	188.3	87118	6.67	W460X113	
41-1680	IZ®	76.3	66.1	29	34.3	39.7	648	20.79	W18X71	C2 (PZC 18)
		4104.6	1680.2	141.5	167.6	193.7	88492.9	6.34	W460X106	
42-1652	IZ®	77.8	65	25.6	31	36.5	699.2	20.83	W21X50	C2 (PZC 18)
		4183.1	1652.2	124.8	151.4	178	95482.8	6.35	W530X74	
42-1695	IZ®	78.7	66.7	25.9	31.2	36.5	709.2	21.38	W21X55	C2 (PZC 18)
		4229.8	1695.2	126.3	152.2	178.1	96846	6.52	W530X82	
42-1751	IZ®	78.8	68.9	33	38.2	43.3	640.8	21.45	W16X100	C2 (PZC 18)
		4235.7	1751.2	161.3	186.4	211.4	87502.5	6.54	W410X149	
43-1768	IZ®	79.3	69.6	30.1	35.2	40.3	675.3	21.94	W18X86	C2 (PZC 18)
		4264.8	1768.2	146.9	171.7	196.5	92215.9	6.69	W460X128	

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				60%	80%	100%				
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	in (mm)	
43-1893	IZ®	80.4	74.5	37.1	41.9	46.6	631.9	23.09	HP16x141	C2 (PZC 18)
		4320.8	1892.6	181.2	204.4	227.6	86290.8	7.04	HP410x211	
44-1652	IZ®	81.6	65	26.8	32.3	37.7	742	20.86	W21X57	C2 (PZC 18)
		4386.6	1652.2	131	157.6	184.2	101331.8	6.36	W530X85	
44-1695	IZ®	82.4	66.7	27.1	32.4	37.7	750.4	21.42	W21X62	C2 (PZC 18)
		4428.3	1695.2	132.4	158.3	184.2	102472	6.53	W530X92	
45-1769	IZ®	83.5	69.7	32	37.1	42.1	718.3	21.98	W18X97	C2 (PZC 18)
		4489.7	1769.2	156.1	180.9	205.7	98089.2	6.7	W460X144	
45-1937	IZ®	84	76.3	35.3	39.9	44.6	701.5	23.94	HP18x135	C2 (PZC 18)
		4514.2	1937	172.3	195	217.7	95790.5	7.3	HP360x202	
46-1696	IZ®	85.2	66.8	28.1	33.4	38.7	783.3	21.45	W21X68	C2 (PZC 18)
		4582.6	1696.2	137.4	163.3	189.1	106964.4	6.54	W530X101	
46-1896	IZ®	86.3	74.6	40.3	45.1	49.8	688.4	23.19	HP16x162	C2 (PZC 18)
		4642.3	1895.8	196.9	220.1	243.2	94005.7	7.07	HP410x242	
47-1770	IZ®	86.6	69.7	33.5	38.6	43.7	751.1	22.01	W18X106	C2 (PZC 18)
		4656	1770.2	163.6	188.4	213.2	102571.2	6.71	W460X158	
47-1884	IZ®	87.1	74.2	42.8	47.6	52.4	663.6	22.86	W14X176	C2 (PZC 18)
		4683.4	1884.2	209.1	232.4	255.7	90624.3	6.97	W360X262	
47-1697	IZ®	87.4	66.8	29.1	34.4	39.7	807.7	21.48	W21X73	C2 (PZC 18)
		4697.9	1697.2	141.9	167.8	193.7	110303.6	6.55	W530X109	
48-1664	IZ®	89.5	65.5	26.4	31.8	37.2	869.3	21.45	W24X55	C2 (PZC 18)
		4809.6	1664.2	128.7	155.1	181.5	118708.7	6.54	W610X82	
49-1940	IZ®	90.3	76.4	38.6	43.2	47.9	763.3	24.01	HP18x157	C2 (PZC 18)
		4857.4	1940.2	188.5	211.1	233.8	104237.5	7.32	HP360x234	
49-1698	IZ®	91.6	66.9	30.8	36	41.3	856.7	21.52	W21X83	C2 (PZC 18)
		4923.4	1698.2	150.1	176	201.9	116995.3	6.56	W530X123	
49-1772	IZ®	91.7	69.8	35.7	40.8	45.9	805	22.04	W18X119	C2 (PZC 18)
		4928.5	1772.2	174.4	199.2	224	109925.3	6.72	W460X177	

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				60%	80%	100%				
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	in (mm)	
49-1905	IZ®	91.8	75	43.6	48.3	53.1	740.4	23.32	HP16x183	C2 (PZC 18)
		4937.8	1905.3	212.9	236	259	101108.7	7.11	HP410x272	
50-1885	IZ®	92.1	74.2	45.5	50.3	55.1	709.5	22.93	W14X193	C2 (PZC 18)
		4953.4	1885.2	222.3	245.6	268.9	96894.5	6.99	W360X287	
50-1665	IZ®	93.1	65.6	27.6	33	38.4	914.9	21.48	W24X62	C2 (PZC 18)
		5005.7	1665.2	134.7	161.1	187.5	124931	6.55	W610X92	
51-1714	IZ®	94.8	67.5	27.8	33.1	38.3	936.9	22.14	W24X68	C2 (PZC 18)
		5098	1714.2	135.9	161.5	187.2	127945.3	6.75	W610X101	
52-1700	IZ®	95.7	66.9	32.5	37.8	43.1	906.6	21.55	W21X93	C2 (PZC 18)
		5147.7	1700.2	158.7	184.6	210.4	123809.6	6.57	W530X138	
52-1798	IZ®	96.3	70.8	32.2	37.2	42.2	909.9	22.83	W21X101	C2 (PZC 18)
		5179.6	1798.2	157.1	181.5	205.9	124248.8	6.96	W530X150	
52-1769	IZ®	96.7	69.7	37.7	42.8	47.9	860	22.07	W18X130	C2 (PZC 18)
		5196.7	1769.2	184.1	208.9	233.7	117438.7	6.73	W460X193	
52-1887	IZ®	97.2	74.3	48.4	53.1	57.9	756.7	22.96	W14X211	C2 (PZC 18)
		5224	1887.2	236.2	259.5	282.7	103337.1	7	W360X314	
53-1943	IZ®	98	76.5	42.3	46.9	51.5	840	24.07	HP18x181	C2 (PZC 18)
		5270	1943.4	206.4	229	251.6	114707.6	7.34	HP360x269	
54-1714	IZ®	99.5	67.5	29.2	34.5	39.7	995.2	22.17	W24X76	C2 (PZC 18)
		5347.5	1714.2	142.8	168.4	194	135899.5	6.76	W610X113	
54-1799	IZ®	100.2	70.8	33.9	38.9	43.8	955	22.86	W21X111	C2 (PZC 18)
		5388.4	1799.2	165.3	189.7	214.1	130411.9	6.97	W530X165	
55-1771	IZ®	101.7	69.7	39.8	44.9	50	916.2	22.11	W18X143	C2 (PZC 18)
		5469.7	1771.2	194.5	219.3	244.1	125120.9	6.74	W460X213	
55-1816	IZ®	102.7	71.5	57.2	62.1	67.1	788.2	21.91	W12X252	C2 (PZC 18)
		5520	1816.2	279.1	303.3	327.5	107637.4	6.68	W310X375	
56-1890	IZ®	103.2	74.4	51.9	56.6	61.4	816	23.06	W14X233	C2 (PZC 18)
		5547.8	1890.2	253.3	276.5	299.7	111427.5	7.03	W360X347	

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				60%	80%	100%				
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	in (mm)	
56-1715	IZ®	103.8	67.5	30.6	35.9	41.1	1050.4	22.2	W24X84	C2 (PZC 18)
		5581.9	1715.2	149.6	175.2	200.8	143436.5	6.77	W610X125	
56-1801	IZ®	104.9	70.9	35.6	40.6	45.6	1010.6	22.89	W21X122	C2 (PZC 18)
		5637.4	1801.2	173.8	198.2	222.6	138002.9	6.98	W530X182	
57-1947	IZ®	105.4	76.6	45.9	50.6	55.2	918.6	24.14	HP18x204	C2 (PZC 18)
		5666	1946.6	224.3	246.9	269.4	125439.7	7.36	HP460x304	
58-1773	IZ®	107.1	69.8	42.3	47.4	52.5	976.8	22.17	W18X158	C2 (PZC 18)
		5757.7	1773.2	206.7	231.4	256.2	133385.9	6.76	W460X235	
59-1716	IZ®	109	67.6	32.5	37.7	43	1118.1	22.24	W24X94	C2 (PZC 18)
		5859.6	1716.2	158.6	184.2	209.8	152679.7	6.78	W610X140	
59-1802	IZ®	109	71	37.3	42.3	47.3	1059.8	22.93	W21X132	C2 (PZC 18)
		5862.4	1802.2	182	206.4	230.7	144718.7	6.99	W530X196	
59-1810	IZ®	109.2	71.3	32.5	37.5	42.4	1120.4	23.42	W24X104	C2 (PZC 18)
		5869.7	1810.2	158.6	182.9	207.2	153007.1	7.14	W610X155	
59-1892	IZ®	109.9	74.5	55.7	60.5	65.2	884.4	23.12	W14X257	C2 (PZC 18)
		5908.7	1892.2	272.1	295.3	318.5	120767.3	7.05	W360X382	
59-1820	IZ®	110	71.7	61.5	66.4	71.3	864.2	22.01	W12X279	C2 (PZC 18)
		5912.5	1820.2	300.1	324.2	348.3	118016.7	6.71	W310X415	
61-1775	IZ®	114	69.9	45.2	50.2	55.3	1056.5	22.24	W18X175	C2 (PZC 18)
		6129	1775.2	220.6	245.3	270.1	144276.6	6.78	W460X260	
61-1739	IZ®	114.1	68.5	30.3	35.5	40.6	1239.1	22.93	W27X84	C2 (PZC 18)
		6136.7	1739.2	148	173.2	198.5	169205.7	6.99	W690X125	
61-1715	IZ®	114.2	67.5	34	39.3	44.5	1186.4	22.24	W24X103	C2 (PZC 18)
		6137.7	1715.2	166.1	191.7	217.3	162017.2	6.78	W610X153	
62-1804	IZ®	115.4	71	39.8	44.8	49.8	1137.5	22.99	W21X147	C2 (PZC 18)
		6203.3	1804.2	194.4	218.7	243.1	155329.6	7.01	W530X219	
62-1811	IZ®	115.6	71.3	34.6	39.6	44.5	1202.9	23.45	W24X117	C2 (PZC 18)
		6213.5	1811.2	169	193.2	217.4	164263	7.15	W610X174	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area	Diameter	Configuration
				60%	80%	100%				
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	in (mm)	
63-1822	IZ®	117.5	71.7	65.8	70.7	75.7	945.6	22.11	W12X305	C2 (PZC 18)
		6318.4	1822.2	321.3	345.4	369.5	129135.5	6.74	W310X454	
63-1895	IZ®	117.7	74.6	59.8	64.5	69.3	964.1	23.19	W14X283	C2 (PZC 18)
		6328	1895.2	291.9	315.1	338.3	131655.1	7.07	W360X421	
65-1740	IZ®	120.6	68.5	32	37.1	42.3	1329	22.99	W27X94	C2 (PZC 18)
		6482.6	1740.2	156	181.2	206.5	181489.6	7.01	W690X140	
66-1813	IZ®	122.5	71.4	37	41.9	46.9	1294.6	23.52	W24X131	C2 (PZC 18)
		6584.2	1813.2	180.5	204.7	228.9	176791	7.17	W610X195	
68-1898	IZ®	125.5	74.7	64.2	68.9	73.7	1048.7	23.29	W14X311	C2 (PZC 18)
		6748.3	1898.2	313.4	336.5	359.7	143215.7	7.1	W360X463	
68-1801	IZ®	125.8	70.9	43.1	48.1	53.1	1267.2	22.99	W21X166	C2 (PZC 18)
		6761.6	1801.2	210.4	234.8	259.2	173042.9	7.01	W530X248	
68-1740	IZ®	125.8	68.5	33.4	38.6	43.8	1402.8	23.02	W27X102	C2 (PZC 18)
		6763.1	1740.2	163.2	188.4	213.7	191565.1	7.02	W690X152	
68-1826	IZ®	126	71.9	70.9	75.8	80.7	1038.5	22.2	W12X336	C2 (PZC 18)
		6774.9	1826.2	346	370	394	141817.7	6.77	W310X500	
70-1750	IZ®	129.6	68.9	31	36.2	41.3	1519.3	23.55	W30X90	C2 (PZC 18)
		6966.2	1750.2	151.5	176.6	201.7	207474.8	7.18	W760X134	
70-1814	IZ®	130.7	71.4	39.4	44.4	49.3	1403.3	23.58	W24X146	C2 (PZC 18)
		7029.4	1814.2	192.5	216.7	240.9	191630.9	7.19	W610X217	
71-1742	IZ®	132.1	68.6	35.4	40.6	45.7	1494.7	23.06	W27X114	C2 (PZC 18)
		7100	1742.2	172.9	198.1	223.3	204115.1	7.03	W690X170	
71-1804	IZ®	132.4	71	45.8	50.8	55.8	1352.7	23.06	W21X182	C2 (PZC 18)
		7119.2	1804.2	223.6	247.9	272.2	184721.7	7.03	W530X272	
72-1751	IZ®	134.4	68.9	32.7	37.8	42.9	1596.5	23.58	W30X99	C2 (PZC 18)
		7226.8	1751.2	159.5	184.6	209.6	218022.2	7.19	W760X147	
72-1902	IZ®	134.6	74.9	69	73.8	78.5	1149.4	23.39	W14X342	C2 (PZC 18)
		7235.8	1902.2	337.1	360.2	383.3	156963	7.13	W360X509	

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				60%	80%	100%				
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	in (mm)	
75-1815	IZ®	138.8	71.5	42.1	47.1	52.1	1514	23.62	W24X162	C2 (PZC 18)
		7459.7	1815.2	205.8	230	254.2	206750.7	7.2	W610X241	
76-1752	IZ®	140.8	69	34.2	39.3	44.5	1694.7	23.62	W30X108	C2 (PZC 18)
		7567.4	1752.2	167	192.1	217.1	231428.9	7.2	W760X161	
76-1805	IZ®	140.9	71.1	49	54	58.9	1463.4	23.12	W21X201	C2 (PZC 18)
		7572.9	1805.2	239.1	263.4	287.7	199844	7.05	W530X300	
76-1740	IZ®	141.7	68.5	38	43.2	48.4	1637.4	23.09	W27X129	C2 (PZC 18)
		7618.3	1740.2	185.8	211	236.2	223595.9	7.04	W690X192	
77-1904	IZ®	143.2	75	73.4	78.2	82.9	1245.7	23.45	W14X370	C2 (PZC 18)
		7701.5	1904.2	358.6	381.6	404.7	170109.7	7.15	W360X551	
78-1841	IZ®	145.5	72.5	38.9	43.8	48.7	1688.5	24.37	W27X146	C2 (PZC 18)
		7824.3	1841.2	190.1	213.9	237.8	230583.1	7.43	W690X217	
79-1813	IZ®	146.2	71.4	44.4	49.4	54.3	1617.2	23.62	W24X176	C2 (PZC 18)
		7862.9	1813.2	216.8	241	265.3	220842.7	7.2	W610X262	
79-1753	IZ®	146.6	69	35.7	40.8	45.9	1786.1	23.65	W30X116	C2 (PZC 18)
		7883.1	1753.2	174.1	199.1	224.2	243901.6	7.21	W760X173	
81-1907	IZ®	151.4	75.1	77.8	82.5	87.2	1342.5	23.52	W14X398	C2 (PZC 18)
		8137.6	1907.2	379.8	402.9	425.9	183334.4	7.17	W360X592	
82-1753	IZ®	152.2	69	36.9	42.1	47.2	1873.8	23.68	W30X124	C2 (PZC 18)
		8185.4	1753.2	180.4	205.4	230.5	255879.1	7.22	W760X185	
83-1815	IZ®	153.5	71.5	47	52	56.9	1721.3	23.68	W24X192	C2 (PZC 18)
		8253	1815.2	229.6	253.7	277.9	235065.1	7.22	W610X285	
83-1842	IZ®	153.6	72.5	41.4	46.3	51.2	1810.4	24.4	W27X161	C2 (PZC 18)
		8259.1	1842.2	202.3	226.2	250	247224.7	7.44	W690X240	
85-1754	IZ®	157.3	69.1	38.4	43.5	48.6	1956.6	23.71	W30X132	C2 (PZC 18)
		8455.3	1754.2	187.4	212.5	237.5	267193	7.23	W760X196	
86-1910	IZ®	160.2	75.2	82.1	86.8	91.6	1446.1	23.62	W14X426	C2 (PZC 18)
		8610.4	1910.2	401	424	447	197482.9	7.2	W360X634	

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				60%	80%	100%				
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	in (mm)	
87-1816	IZ®	161.1	71.5	49.6	54.5	59.5	1830.4	23.71	W24X207	C2 (PZC 18)
		8659.8	1816.2	242	266.1	290.3	249958	7.23	W610X307	
87-1778	IZ®	161.4	70	35.4	40.5	45.5	2113.2	24.47	W33X118	C2 (PZC 18)
		8679.7	1778.2	173	197.7	222.4	288575	7.46	W840X176	
87-1844	IZ®	162	72.6	44.2	49.1	53.9	1937.3	24.47	W27X178	C2 (PZC 18)
		8710.7	1844.2	215.7	239.5	263.4	264551.9	7.46	W690X265	
90-1914	IZ®	168.1	75.4	86.6	91.3	96	1545.2	23.71	W14X455	C2 (PZC 18)
		9038.1	1914.2	422.7	445.7	468.6	211011.9	7.23	W360X677	
91-1752	IZ®	168.9	69	41.2	46.3	51.4	2145.8	23.75	W30X148	C2 (PZC 18)
		9081.5	1752.2	201.1	226.1	251.2	293025	7.24	W760X220	
92-1778	IZ®	170.6	70	37.5	42.6	47.6	2269.1	24.5	W33X130	C2 (PZC 18)
		9173.9	1778.2	183.1	207.8	232.5	309870.6	7.47	W840X193	
92-1819	IZ®	171.4	71.6	53.2	58.1	63.1	1982.3	23.81	W24X229	C2 (PZC 18)
		9213.9	1819.2	259.7	283.8	308	270702.8	7.26	W610X341	
93-1842	IZ®	172.6	72.5	46.9	51.7	56.6	2098.5	24.47	W27X194	C2 (PZC 18)
		9279.9	1842.2	228.7	252.6	276.4	286571.5	7.46	W690X289	
95-1867	IZ®	176.3	73.5	42.8	47.6	52.4	2262	25.22	W30X173	C2 (PZC 18)
		9478.8	1867.2	208.9	232.4	255.9	308890	7.69	W760X257	
96-1779	IZ®	179.1	70	39.4	44.4	49.5	2417.6	24.53	W33X141	C2 (PZC 18)
		9628.3	1779.2	192.3	217	241.6	330137.9	7.48	W840X210	
98-1821	IZ®	181.9	71.7	56.7	61.6	66.5	2139.1	23.88	W24X250	C2 (PZC 18)
		9778.5	1821.2	276.6	300.8	324.9	292114.2	7.28	W610X372	
98-1918	IZ®	182.2	75.5	93.5	98.2	102.9	1724.2	23.81	W14X500	C2 (PZC 18)
		9795.8	1918.2	456.6	479.5	502.4	235448.7	7.26	W360X744	
99-1845	IZ®	184.9	72.6	50.6	55.5	60.4	2291.2	24.57	W27X217	C2 (PZC 18)
		9940.3	1845.2	247.1	270.9	294.7	312886.5	7.49	W690X323	
100-1790	IZ®	185.4	70.5	38.1	43.1	48.1	2623.4	25.06	W36X135	C2 (PZC 18)
		9967.6	1790.2	185.8	210.4	234.9	358249	7.64	W920X201	

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				60%	80%	100%				
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	in (mm)	
101-1868	IZ®	186.9	73.6	45.7	50.5	55.3	2436.6	25.26	W30X191	C2 (PZC 18)
		10046.9	1868.2	223	246.5	270.1	332745	7.7	W760X284	
101-1780	IZ®	187	70.1	41.3	46.3	51.4	2558.9	24.6	W33X152	C2 (PZC 18)
		10055.9	1780.2	201.4	226.1	250.8	349440.6	7.5	W840X226	
104-1846	IZ®	193.9	72.7	53.6	58.5	63.4	2437.3	24.6	W27X235	C2 (PZC 18)
		10426.9	1846.2	261.8	285.6	309.4	332828.6	7.5	W690X350	
105-1824	IZ®	195.2	71.8	61.4	66.3	71.3	2343.7	23.94	W24X279	C2 (PZC 18)
		10494.1	1824.2	299.9	323.9	348	320051.3	7.3	W610X415	
106-1923	IZ®	197.9	75.7	101	105.7	110.3	1930.5	23.98	W14X550	C2 (PZC 18)
		10638.8	1923.2	493	515.8	538.7	263628.4	7.31	W360X818	
107-1870	IZ®	198.4	73.6	48.9	53.7	58.5	2632.2	25.32	W30X211	C2 (PZC 18)
		10667.6	1870.2	238.8	262.2	285.7	359456.3	7.72	W760X314	
107-1790	IZ®	198.5	70.5	40.7	45.7	50.7	2865.8	25.12	W36X150	C2 (PZC 18)
		10669.6	1790.2	198.6	223.1	247.6	391350.7	7.66	W920X223	
107-1778	IZ®	199.8	70	44	49.1	54.1	2785.3	24.6	W33X169	C2 (PZC 18)
		10740.7	1778.2	214.9	239.6	264.3	380359.6	7.5	W840X251	
111-1791	IZ®	205.7	70.5	42.4	47.4	52.4	3005.1	25.16	W36X160	C2 (PZC 18)
		11060.5	1791.2	206.8	231.3	255.8	410369.3	7.67	W920X238	
111-1848	IZ®	206.1	72.8	57.2	62.1	67	2634.5	24.67	W27X258	C2 (PZC 18)
		11081.7	1848.2	279.4	303.2	326.9	359768.5	7.52	W690X384	
112-1826	IZ®	208.3	71.9	65.8	70.7	75.6	2549.2	24.01	W24X306	C2 (PZC 18)
		11198	1826.2	321	345.1	369.1	348120.9	7.32	W610X455	
113-1786	IZ®	210	70.3	40.6	45.6	50.6	3190.5	25.45	W40X149	C2 (PZC 18)
		11288.8	1786.2	198.1	222.7	247.3	435689	7.76	W1000X222	
114-1886	IZ®	211.2	74.3	46.9	51.6	56.4	2992.3	25.98	W33X201	C2 (PZC 18)
		11354.5	1886.2	228.8	252.1	275.4	408629.2	7.92	W840X299	
115-1792	IZ®	213.2	70.6	44	49	54.1	3148.1	25.19	W36X170	C2 (PZC 18)
		11460.7	1792.2	215	239.5	264	429906.7	7.68	W920X253	

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		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	in (mm)	
115-1868	IZ®	213.9	73.6	52.8	57.6	62.5	2894.3	25.35	W30X235	C2 (PZC 18)
		11497.7	1868.2	257.9	281.4	304.9	395236.7	7.73	W760X350	
116-1928	IZ®	215.7	75.9	109.9	114.5	119.2	2172.8	24.11	W14X605	C2 (PZC 18)
		11596	1928.2	536.5	559.3	582	296709.1	7.35	W360X900	
118-1850	IZ®	218.5	72.8	61.1	65.9	70.8	2839.7	24.73	W27X281	C2 (PZC 18)
		11747.4	1850.2	298.2	321.9	345.7	387792.4	7.54	W690X419	
119-1793	IZ®	221.1	70.6	46.1	51.1	56.1	3304.3	25.22	W36X182	C2 (PZC 18)
		11886.9	1793.2	224.9	249.4	273.9	451230.7	7.69	W920X271	
119-1829	IZ®	222	72	70.6	75.5	80.4	2769.6	24.11	W24X335	C2 (PZC 18)
		11935.2	1829.2	344.5	368.5	392.5	378215.1	7.35	W610X498	
121-1887	IZ®	224.1	74.3	50.1	54.8	59.6	3230	26.04	W33X221	C2 (PZC 18)
		12048.4	1887.2	244.5	267.8	291	441090.3	7.94	W840X329	
122-1786	IZ®	227.7	70.3	43.6	48.7	53.7	3540.5	25.52	W40X167	C2 (PZC 18)
		12240.6	1786.2	213.1	237.7	262.2	483492.1	7.78	W1000X249	
123-1871	IZ®	227.9	73.7	57	61.8	66.7	3142.6	25.42	W30X261	C2 (PZC 18)
		12253.3	1871.2	278.5	301.9	325.4	429147.1	7.75	W760X389	
123-1794	IZ®	228.7	70.6	48	53	58	3455.7	25.26	W36X194	C2 (PZC 18)
		12295.9	1794.2	234.4	258.9	283.4	471910.6	7.7	W920X289	
124-1853	IZ®	231.3	73	65.1	70	74.8	3055.2	24.8	W27X307	C2 (PZC 18)
		12433.5	1853.2	318	341.7	365.4	417208.4	7.56	W690X457	
126-1934	IZ®	234.7	76.1	118.7	123.3	128	2447.2	24.27	W14X665	C2 (PZC 18)
		12616.8	1934.2	579.5	602.2	624.9	334193.3	7.4	W360X990	
127-1889	IZ®	236.6	74.4	53.3	58	62.8	3462.7	26.11	W33X241	C2 (PZC 18)
		12722.8	1889.2	260	283.3	306.5	472864.2	7.96	W840X359	
128-1833	IZ®	238.4	72.2	76.3	81.2	86.1	3041.1	24.21	W24X370	C2 (PZC 18)
		12819.5	1833.2	372.5	396.4	420.4	415286.4	7.38	W610X551	
129-1795	IZ®	238.9	70.7	50.8	55.8	60.8	3661.2	25.29	W36X210	C2 (PZC 18)
		12845.2	1795.2	247.9	272.3	296.8	499974	7.71	W920X313	

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		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	in (mm)	
131-1904	IZ®	243	75	51	55.7	60.4	3690.9	26.6	W36X230	C2 (PZC 18)
		13061.8	1904.2	248.9	272	295	504019.2	8.11	W920X342	
132-1786	IZ®	244.6	70.3	46.3	51.4	56.4	3880.9	25.58	W40X183	C2 (PZC 18)
		13150.1	1786.2	226.3	250.8	275.4	529968.1	7.8	W1000X272	
132-1886	IZ®	245.9	74.3	46.4	51.2	56	3914.3	26.83	W40X199	C2 (PZC 18)
		13218.5	1886.2	226.7	250	273.3	534529.3	8.18	W1000X296	
132-1873	IZ®	246	73.7	62	66.8	71.6	3464.5	25.49	W30X292	C2 (PZC 18)
		13228.2	1873.2	302.5	325.9	349.4	473105.6	7.77	W760X434	
133-1856	IZ®	246.5	73.1	69.8	74.6	79.5	3318.9	24.9	W27X336	C2 (PZC 18)
		13254.7	1856.2	340.8	364.4	388.1	453222.9	7.59	W690X500	
136-1887	IZ®	252.8	74.3	56.9	61.7	66.4	3766.2	26.11	W33X263	C2 (PZC 18)
		13590.9	1887.2	277.8	301.1	324.3	514307.9	7.96	W840X392	
136-1905	IZ®	253.1	75	53.4	58.1	62.8	3887	26.63	W36X245	C2 (PZC 18)
		13607.2	1905.2	260.7	283.8	306.8	530801	8.12	W920X365	
138-1940	IZ®	256.5	76.4	128.3	132.9	137.5	2767.3	24.44	W14X730	C2 (PZC 18)
		13790.9	1940.2	626.2	648.9	671.5	377893.2	7.45	W360X1086	
138-1794	IZ®	256.8	70.6	54.4	59.4	64.4	4019	25.32	W36X232	C2 (PZC 18)
		13805.6	1794.2	265.5	290	314.4	548828.5	7.72	W920X345	
141-1886	IZ®	262.4	74.3	49.2	53.9	58.7	4248.8	26.9	W40X215	C2 (PZC 18)
		14107	1886.2	240.1	263.3	286.6	580215.7	8.2	W1000X321	
141-1858	IZ®	262.8	73.2	75	79.8	84.7	3604.2	24.96	W27X368	C2 (PZC 18)
		14127.2	1858.2	366.2	389.8	413.5	492179.6	7.61	W690X548	
142-1906	IZ®	263.1	75	55.7	60.5	65.2	4085.6	26.67	W36X260	C2 (PZC 18)
		14145.1	1906.2	272.1	295.2	318.2	557928.6	8.13	W920X387	
142-1786	IZ®	264.1	70.3	51.1	56.1	61.2	4302.4	25.62	W40X211	C2 (PZC 18)
		14199.1	1786.2	249.5	274.1	298.7	587532.2	7.81	W1000X314	
142-1876	IZ®	264.4	73.9	67.3	72.1	76.9	3800	25.58	W30X326	C2 (PZC 18)
		14214.5	1876.2	328.8	352.2	375.6	518925.5	7.8	W760X484	

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BALL & SOCKET
HOT ROLLED / MULTI-USE

Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area	Diameter	Configuration
				60%	80%	100%				
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	in (mm)	
145-1890	IZ®	269.6	74.4	61.3	66.1	70.8	4089.2	26.21	W33X291	C2 (PZC 18)
		14491.9	1890.2	299.4	322.6	345.8	558410.3	7.99	W840X433	
147-1796	IZ®	272.4	70.7	58.5	63.5	68.5	4345	25.39	W36X256	C2 (PZC 18)
		14647.6	1796.2	285.7	310.2	334.6	593347.9	7.74	W920X381	
147-1957	IZ®	273.8	77.1	139.5	144.1	148.7	3015.7	24.6	W14X808	C2 (PZC 18)
		14718.2	1957.2	681	703.4	725.8	411820.9	7.5	W360X1202	
149-1908	IZ®	277.1	75.1	59	63.7	68.4	4366.5	26.73	W36X280	C2 (PZC 18)
		14896.6	1908.2	287.9	310.9	333.9	596285.2	8.15	W920X417	
151-1788	IZ®	280.6	70.4	55.1	60.1	65.2	4663.1	25.68	W40X235	C2 (PZC 18)
		15086.9	1788.2	269	293.6	318.1	636785.6	7.83	W1000X350	
152-1879	IZ®	282.1	74	72.3	77.1	81.9	4130.4	25.68	W30X357	C2 (PZC 18)
		15165.1	1879.2	352.9	376.3	399.6	564040.4	7.83	W760X531	
154-1886	IZ®	286	74.3	54.6	59.4	64.2	4753.3	26.93	W40X249	C2 (PZC 18)
		15376.6	1886.2	266.7	290	313.3	649109.5	8.21	W1000X371	
154-1892	IZ®	286.1	74.5	65.6	70.3	75.1	4413.1	26.27	W33X318	C2 (PZC 18)
		15382.9	1892.2	320.2	343.4	366.6	602641.6	8.01	W840X473	
156-1909	IZ®	289.7	75.2	62.1	66.8	71.6	4619.7	26.77	W36X300	C2 (PZC 18)
		15574	1909.2	303.4	326.4	349.4	630856	8.16	W920X446	
160-1886	IZ®	297	74.3	51.6	56.3	61.1	5276.6	27.52	W44X230	C2 (PZC 18)
		15969.1	1886.2	251.7	275	298.3	720569.4	8.39	W1100X343	
160-1789	IZ®	297.8	70.4	60	65	70.1	5052.2	25.75	W40X264	C2 (PZC 18)
		16012	1789.2	293	317.5	342.1	689920.5	7.85	W1000X393	
162-1882	IZ®	300.6	74.1	77.8	82.6	87.4	4483.9	25.75	W30X391	C2 (PZC 18)
		16161.3	1882.2	379.9	403.2	426.5	612310.4	7.85	W760X582	
164-1888	IZ®	304.9	74.3	59	63.8	68.5	5164	26.99	W40X277	C2 (PZC 18)
		16391.2	1888.2	288	311.3	334.5	705187.6	8.23	W1000X412	
165-1790	IZ®	306.6	70.5	62.5	67.5	72.5	5251	25.75	W40X278	C2 (PZC 18)
		16481.5	1790.2	305.1	329.6	354.2	717070.3	7.85	W1000X415	

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				60%	80%	100%				
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	in (mm)	
165-1895	IZ®	307.2	74.6	71.2	76	80.7	4834.5	26.34	W33X354	C2 (PZC 18)
		16518.5	1895.2	347.9	371	394.2	660190.8	8.03	W840X527	
166-1908	IZ®	308.1	75.1	66.5	71.3	76	4999.7	26.8	W36X328	C2 (PZC 18)
		16565.5	1908.2	324.9	347.9	370.9	682758.8	8.17	W920X488	
170-1888	IZ®	315.4	74.3	62.3	67.1	71.8	5403.3	26.99	W40X297	C2 (PZC 18)
		16955.3	1888.2	304.2	327.5	350.8	737862.7	8.23	W1000X443	
174-1886	IZ®	323.6	74.3	56.8	61.5	66.3	5890	27.59	W44X262	C2 (PZC 18)
		17396.6	1886.2	277.1	300.4	323.7	804335.1	8.41	W1100X390	
176-1911	IZ®	326.5	75.2	71.3	76	80.7	5385.6	26.86	W36X359	C2 (PZC 18)
		17555.9	1911.2	348.2	371.2	394.2	735445.9	8.19	W920X534	
176-1897	IZ®	326.7	74.7	76.5	81.3	86	5233.7	26.44	W33X387	C2 (PZC 18)
		17562.9	1897.2	373.6	396.7	419.8	714709.6	8.06	W840X576	
180-1890	IZ®	335	74.4	66.6	71.3	76.1	5834.8	27.09	W40X324	C2 (PZC 18)
		18012.3	1890.2	325.1	348.3	371.6	796798.3	8.26	W1000X483	
183-1794	IZ®	339.8	70.6	70.5	75.5	80.5	6005.6	25.88	W40X327	C2 (PZC 18)
		18267	1794.2	344.2	368.7	393.2	820118.4	7.89	W1000X486	
184-1795	IZ®	341.4	70.7	71.4	76.4	81.4	6045	25.91	W40X331	C2 (PZC 18)
		18355.7	1795.2	348.4	372.9	397.4	825494.6	7.9	W1000X494	
185-1888	IZ®	344.8	74.3	61.4	66.1	70.9	6396.3	27.65	W44X290	C2 (PZC 18)
		18536.4	1888.2	299.7	322.9	346.2	873477.5	8.43	W1100X433	
187-1913	IZ®	347.8	75.3	76.8	81.5	86.2	5841.9	26.96	W36X393	C2 (PZC 18)
		18700.7	1913.2	374.9	397.9	420.8	797760.9	8.22	W920X585	
188-1873	IZ®	350.2	73.7	102	106.8	111.6	5249.3	25.42	W27X539	C2 (PZC 18)
		18829.2	1873.2	497.8	521.2	544.7	716843.2	7.75	W690X802	
193-1893	IZ®	358.8	74.5	72.6	77.3	82.1	6377.1	27.16	W40X362	C2 (PZC 18)
		19291.7	1893.2	354.4	377.6	400.8	870848.8	8.28	W1000X539	
196-1894	IZ®	364.1	74.6	74.2	78.9	83.7	6500.1	27.19	W40X372	C2 (PZC 18)
		19575.6	1894.2	362.1	385.3	408.5	887641.5	8.29	W1000X554	

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				60%	80%	100%				
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	in (mm)	
200-1891	IZ®	372	74.5	68.2	72.9	77.7	7066	27.72	W44X335	C2 (PZC 18)
		19997.9	1891.2	332.8	356	379.3	964930.8	8.45	W1100X499	
202-1917	IZ®	376.2	75.5	83.8	88.5	93.2	6452.4	27.06	W36X439	C2 (PZC 18)
		20223.6	1917.2	409.4	432.3	455.2	881126.4	8.25	W920X653	
206-1895	IZ®	382.5	74.6	78.1	82.9	87.6	6919.9	27.22	W40X397	C2 (PZC 18)
		20563.1	1895.2	381.4	404.6	427.7	944978.2	8.3	W1000X591	
206-1800	IZ®	383.2	70.9	81.4	86.4	91.4	7022.7	26.08	W40X392	C2 (PZC 18)
		20600.6	1800.2	397.6	422	446.4	959005.8	7.95	W1000X584	
217-1898	IZ®	403.6	74.7	83.5	88.2	93	7411.1	27.32	W40X431	C2 (PZC 18)
		21697.8	1898.2	407.7	430.8	454	1012057.3	8.33	W1000X642	
232-1923	IZ®	430.8	75.7	97.5	102.1	106.8	7673.5	27.26	W36X527	C2 (PZC 18)
		23161.2	1923.2	475.9	498.7	521.5	1047890.3	8.31	W920X784	
243-1903	IZ®	451.9	74.9	94.9	99.6	104.3	8563.1	27.49	W40X503	C2 (PZC 18)
		24297.5	1903.2	463.1	486.2	509.3	1169368	8.38	W1000X748	
272-1932	IZ®	506.5	76.1	116.3	121	125.6	9439.7	27.52	W36X650	C2 (PZC 18)
		27229.6	1932.2	567.9	590.6	613.3	1289072.7	8.39	W920X967	
276-1910	IZ®	513.1	75.2	109.2	113.9	118.7	10064.1	27.68	W40X593	C2 (PZC 18)
		27586.7	1910.2	533.3	556.3	579.3	1374342.9	8.44	W1000X883	
323-1943	IZ®	600.1	76.5	138.8	143.5	148.1	11735.2	27.85	W36X798	C2 (PZC 18)
		32261.8	1943.2	677.8	700.4	723	1602542.2	8.49	W920X1188	

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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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