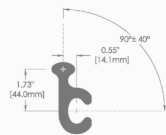


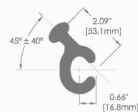
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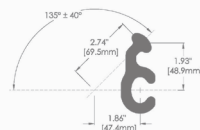
PilePro® Sheet Pile Connectors



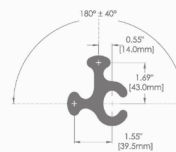
PZ 90



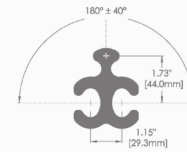
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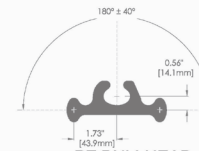
Cobra



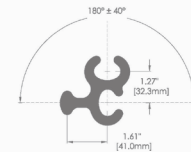
PZ Tee



Joker



Bullhead



PZT-S

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



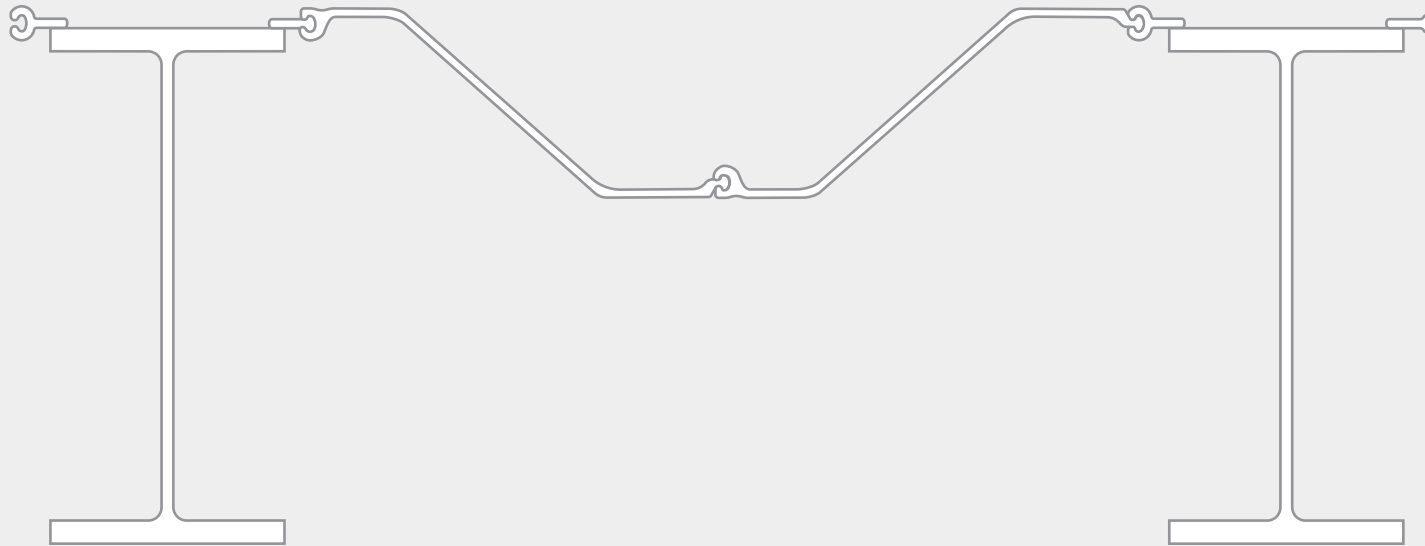
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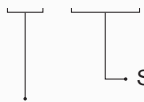


Configuration W2 (PZC 18)



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)	
27-1472	IZ®	51	57.9	21.2	25.8	30.4	372.4	16.11	W18X35	W2 (PZC 18)
		2740.3	1471.6	103.3	125.9	148.6	50858.5	4.91	W460X52	
27-1498	IZ®	51	59	21.8	26.4	30.9	363.8	16.17	W16X40	W2 (PZC 18)
		2741.2	1497.6	106.5	128.8	151	49680.4	4.93	W410X60	
28-1499	IZ®	52.6	59	22.8	27.4	31.9	377.7	16.21	W16X45	W2 (PZC 18)
		2828.3	1498.6	111.5	133.7	155.9	51584.2	4.94	W410X67	
29-1473	IZ®	53.5	58	22.2	26.8	31.4	395	16.17	W18X40	W2 (PZC 18)
		2876	1472.6	108.3	130.9	153.5	53941.4	4.93	W460X60	
29-1500	IZ®	54.3	59	23.8	28.4	32.9	392.7	16.24	W16X50	W2 (PZC 18)
		2921.5	1499.6	116.4	138.6	160.8	53624.4	4.95	W410X75	
30-1474	IZ®	55.8	58	23.4	28	32.7	416.7	16.21	W18X46	W2 (PZC 18)
		3000.1	1473.6	114.3	136.9	159.5	56898.6	4.94	W460X68	
31-1501	IZ®	56.7	59.1	25.2	29.8	34.3	413.2	16.27	W16X57	W2 (PZC 18)
		3047.8	1500.6	123.1	145.3	167.4	56429.7	4.96	W410X85	
31-1510	IZ®	56.7	59.4	23.6	28.1	32.7	424.9	16.67	W18X50	W2 (PZC 18)
		3048.9	1509.6	115.4	137.4	159.5	58019.3	5.08	W460X74	
31-1485	IZ®	58.2	58.4	22.8	27.4	32	454.6	16.77	W21X44	W2 (PZC 18)
		3127.4	1484.6	111.5	134	156.4	62083.5	5.11	W530X66	
32-1718	IZ®	58.7	67.6	27.5	31.5	35.4	421.6	18.9	HP16x88	W2 (PZC 18)
		3153.3	1718.1	134.2	153.6	173	57570.5	5.76	HP410x131	
32-1511	IZ®	58.8	59.5	24.7	29.2	33.7	444.3	16.67	W18X55	W2 (PZC 18)
		3159.2	1510.6	120.7	142.7	164.8	60671.7	5.08	W460X82	
32-1580	IZ®	59.2	62.2	26.1	30.4	34.7	434.1	17.29	W16X67	W2 (PZC 18)
		3183.2	1579.6	127.3	148.4	169.5	59274.5	5.27	W410X100	
32-1527	IZ®	59.2	60.1	23	27.5	31.9	466.3	17.32	W21X48	W2 (PZC 18)
		3184.8	1526.6	112.3	134.1	156	63678.7	5.28	W530X72	
33-1512	IZ®	60.8	59.5	25.7	30.2	34.7	463.6	16.7	W18X60	W2 (PZC 18)
		3270	1511.6	125.3	147.3	169.3	63313.5	5.09	W460X89	

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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)	
33-1486	IZ®	61.4	58.5	24	28.6	33.2	486.7	16.8	W21X50	W2 (PZC 18)
		3299.3	1485.6	117.4	139.8	162.2	66469.9	5.12	W530X74	
34-1581	IZ®	62.6	62.2	28	32.3	36.6	464.5	17.32	W16X77	W2 (PZC 18)
		3367.8	1580.6	136.7	157.8	178.8	63435.6	5.28	W410X114	
34-1720	IZ®	62.7	67.7	29.9	33.9	37.9	455.4	18.96	HP16x101	W2 (PZC 18)
		3373.5	1719.6	146.1	165.5	184.9	62191.6	5.78	HP410x151	
34-1513	IZ®	62.8	59.6	26.6	31.1	35.6	482.5	16.73	W18X65	W2 (PZC 18)
		3375.8	1512.6	129.9	151.9	173.9	65891.9	5.1	W460X97	
34-1529	IZ®	63.2	60.2	24.4	28.9	33.4	506.2	17.36	W21X55	W2 (PZC 18)
		3400.3	1528.6	119.3	141.1	162.8	69130.2	5.29	W530X82	
35-1514	IZ®	65	59.6	27.9	32.4	36.9	504	16.77	W18X71	W2 (PZC 18)
		3492.6	1513.6	136	158	180	68831.6	5.11	W460X106	
35-1600	IZ®	65.4	63	27.3	31.5	35.8	506.8	17.85	W18X76	W2 (PZC 18)
		3516.3	1599.6	133.1	153.9	174.8	69204.1	5.44	W460X113	
35-1486	IZ®	65.5	58.5	25.5	30.1	34.6	528.6	16.83	W21X57	W2 (PZC 18)
		3520.5	1485.6	124.3	146.7	169.1	72189.8	5.13	W530X85	
36-1583	IZ®	66.8	62.3	30.3	34.6	38.9	501.8	17.39	W16X89	W2 (PZC 18)
		3591.9	1582.6	147.9	169	190	68524.8	5.3	W410X132	
36-1529	IZ®	67.3	60.2	25.8	30.3	34.7	547.5	17.39	W21X62	W2 (PZC 18)
		3618.8	1528.6	125.9	147.7	169.5	74761.9	5.3	W530X92	
37-1723	IZ®	68.6	67.8	33.4	37.4	41.3	507.2	19.03	HP16x121	W2 (PZC 18)
		3690.1	1722.8	163.2	182.6	201.9	69256.6	5.8	HP410x181	
37-1498	IZ®	69.3	59	24.9	29.5	34	586.7	17.42	W24X55	W2 (PZC 18)
		3725.3	1497.6	121.7	144	166.2	80116.3	5.31	W610X82	
37-1602	IZ®	69.4	63.1	29.1	33.4	37.7	545.2	17.91	W18X86	W2 (PZC 18)
		3732.8	1601.6	142.3	163.1	183.8	74447	5.46	W460X128	
38-1530	IZ®	70.5	60.2	26.9	31.4	35.9	580.6	17.42	W21X68	W2 (PZC 18)
		3788.2	1529.6	131.5	153.3	175	79279.3	5.31	W530X101	

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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)	
38-1585	IZ®	70.8	62.4	32.4	36.7	41	538.8	17.42	W16X100	W2 (PZC 18)
		3805.7	1584.6	158.2	179.2	200.2	73575.5	5.31	W410X149	
39-1531	IZ®	72.9	60.3	28	32.4	36.9	606.5	17.45	W21X73	W2 (PZC 18)
		3918.5	1530.6	136.6	158.3	180.1	82821.8	5.32	W530X109	
40-1499	IZ®	73.6	59	26.3	30.9	35.4	634.5	17.45	W24X62	W2 (PZC 18)
		3954.9	1498.6	128.5	150.7	172.9	86653.1	5.32	W610X92	
40-1603	IZ®	73.9	63.1	31.2	35.5	39.7	588.8	17.95	W18X97	W2 (PZC 18)
		3972.8	1602.6	152.5	173.2	194	80411.8	5.47	W460X144	
40-1726	IZ®	74.4	68	36.9	40.9	44.8	556.5	19.06	HP16x141	W2 (PZC 18)
		4002.5	1726	180.2	199.5	218.8	75998	5.81	HP410x211	
41-1548	IZ®	76.7	60.9	26.6	31	35.4	669.9	18.11	W24X68	W2 (PZC 18)
		4125.4	1547.6	130	151.5	173	91484.3	5.52	W610X101	
41-1770	IZ®	76.9	69.7	34.9	38.8	42.6	606.8	19.91	HP18x135	W2 (PZC 18)
		4136.1	1770.4	170.6	189.4	208.2	82857.4	6.07	HP360x202	
42-1604	IZ®	77.2	63.1	32.9	37.2	41.4	622	17.98	W18X106	W2 (PZC 18)
		4148.4	1603.6	160.7	181.5	202.2	84943.3	5.48	W460X158	
42-1532	IZ®	77.5	60.3	29.8	34.3	38.7	656.9	17.49	W21X83	W2 (PZC 18)
		4167.1	1531.6	145.7	167.4	189.2	89700.7	5.33	W530X123	
43-1729	IZ®	80.7	68.1	40.4	44.4	48.3	613.4	19.16	HP16x162	W2 (PZC 18)
		4338	1729.2	197.5	216.7	236	83771.7	5.84	HP410x242	
44-1548	IZ®	82	60.9	28.2	32.6	37	730.3	18.14	W24X76	W2 (PZC 18)
		4410.5	1547.6	137.6	159.1	180.6	99735.1	5.53	W610X113	
44-1534	IZ®	82.1	60.4	31.8	36.2	40.7	708.4	17.52	W21X93	W2 (PZC 18)
		4413.5	1533.6	155.2	176.9	198.7	96732	5.34	W530X138	
44-1606	IZ®	82.6	63.2	35.4	39.6	43.9	676.9	18.01	W18X119	W2 (PZC 18)
		4439.5	1605.6	172.7	193.4	214.2	92433	5.49	W460X177	
45-1718	IZ®	82.7	67.6	43.2	47.1	51.1	604.6	18.83	W14X176	W2 (PZC 18)
		4447.8	1717.6	210.8	230.2	249.6	82569.3	5.74	W360X262	

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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)	
45-1774	IZ®	83.8	69.8	38.6	42.4	46.2	671.3	19.98	HP18x157	W2 (PZC 18)
		4503.7	1773.6	188.2	207	225.8	91671.8	6.09	HP360x234	
45-1632	IZ®	84.5	64.2	31.5	35.6	39.8	731.6	18.8	W21X101	W2 (PZC 18)
		4542.7	1631.6	153.6	174	194.4	99911.4	5.73	W530X150	
47-1739	IZ®	86.5	68.5	44	48	51.9	667.6	19.29	HP16x183	W2 (PZC 18)
		4653	1738.7	215	234.2	253.3	91170.1	5.88	HP410x272	
47-1549	IZ®	87.1	61	29.7	34.1	38.5	788.8	18.18	W24X84	W2 (PZC 18)
		4680.4	1548.6	145.1	166.6	188.1	107711.3	5.54	W610X125	
47-1603	IZ®	87.8	63.1	37.5	41.8	46.1	731.5	18.04	W18X130	W2 (PZC 18)
		4720.9	1602.6	183.3	204.1	224.9	99888.3	5.5	W460X193	
47-1719	IZ®	88	67.7	46.1	50.1	54.1	651.1	18.9	W14X193	W2 (PZC 18)
		4730.4	1718.6	225.3	244.7	264.1	88918.3	5.76	W360X287	
48-1633	IZ®	88.8	64.3	33.3	37.5	41.7	779.6	18.83	W21X111	W2 (PZC 18)
		4774.1	1632.6	162.6	183	203.4	106463.4	5.74	W530X165	
49-1777	IZ®	91.9	70	42.6	46.4	50.2	749.9	20.05	HP18x181	W2 (PZC 18)
		4940.7	1776.8	207.9	226.6	245.3	102410.4	6.11	HP360x269	
50-1550	IZ®	92.9	61	31.8	36.2	40.6	860.3	18.21	W24X94	W2 (PZC 18)
		4995.7	1549.6	155.1	176.6	198.1	117478.3	5.55	W610X140	
50-1605	IZ®	93.2	63.2	39.9	44.2	48.4	788.8	18.08	W18X143	W2 (PZC 18)
		5012.4	1604.6	194.8	215.6	236.3	107719.9	5.51	W460X213	
50-1721	IZ®	93.2	67.7	49.3	53.2	57.2	699	18.93	W14X211	W2 (PZC 18)
		5013.3	1720.6	240.6	259.9	279.3	95457.4	5.77	W360X314	
51-1635	IZ®	93.8	64.4	35.2	39.4	43.6	837.1	18.86	W21X122	W2 (PZC 18)
		5045.3	1634.6	172	192.4	212.8	114308	5.75	W530X182	
51-1573	IZ®	94.5	61.9	29.4	33.7	38	909.6	18.9	W27X84	W2 (PZC 18)
		5079.8	1572.6	143.4	164.6	185.7	124216	5.76	W690X125	
51-1644	IZ®	95.1	64.7	31.8	36	40.1	887.5	19.39	W24X104	W2 (PZC 18)
		5111.4	1643.6	155.3	175.6	195.9	121195.7	5.91	W610X155	

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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)	
53-1636	IZ®	98.5	64.4	37.1	41.3	45.4	889.3	18.9	W21X132	W2 (PZC 18)
		5294.5	1635.6	181.1	201.4	221.8	121447	5.76	W530X196	
53-1549	IZ®	98.7	61	33.5	37.9	42.3	930.2	18.21	W24X103	W2 (PZC 18)
		5304.1	1548.6	163.4	184.9	206.4	127020.9	5.55	W610X153	
53-1607	IZ®	98.9	63.3	42.7	46.9	51.1	850.9	18.14	W18X158	W2 (PZC 18)
		5319.5	1606.6	208.3	229	249.7	116203.4	5.53	W460X235	
53-1650	IZ®	99.2	64.9	59	63.1	67.3	737	17.88	W12X252	W2 (PZC 18)
		5334.4	1649.6	288	308.2	328.4	100640.3	5.45	W310X375	
54-1724	IZ®	99.5	67.9	53.1	57.1	61	758.8	19.03	W14X233	W2 (PZC 18)
		5349.7	1723.6	259.3	278.6	297.9	103620.5	5.8	W360X347	
54-1780	IZ®	99.7	70.1	46.6	50.4	54.2	830.9	20.11	HP18x204	W2 (PZC 18)
		5361.2	1780	227.4	246.1	264.8	113468.1	6.13	HP460x304	
55-1574	IZ®	101.9	62	31.2	35.5	39.9	1004.5	18.96	W27X94	W2 (PZC 18)
		5481	1573.6	152.3	173.4	194.6	137166.8	5.78	W690X140	
55-1645	IZ®	102.3	64.7	34.1	38.3	42.4	975.1	19.42	W24X117	W2 (PZC 18)
		5498.3	1644.6	166.7	187	207.2	133152	5.92	W610X174	
57-1638	IZ®	105.4	64.5	39.9	44.1	48.2	970.4	18.96	W21X147	W2 (PZC 18)
		5665.7	1637.6	194.7	215.1	235.4	132522.1	5.78	W530X219	
57-1609	IZ®	106.3	63.3	45.8	50	54.3	932.4	18.21	W18X175	W2 (PZC 18)
		5715.6	1608.6	223.6	244.3	265	127328.8	5.55	W460X260	
57-1726	IZ®	106.5	67.9	57.3	61.3	65.2	827.8	19.09	W14X257	W2 (PZC 18)
		5724.6	1725.6	279.9	299.2	318.5	113047	5.82	W360X382	
57-1654	IZ®	106.7	65.1	63.7	67.8	72	812.6	17.98	W12X279	W2 (PZC 18)
		5737.5	1653.6	311.1	331.2	351.3	110967.8	5.48	W310X415	
58-1584	IZ®	107.5	62.3	30.2	34.5	38.8	1113	19.52	W30X90	W2 (PZC 18)
		5778.8	1583.6	147.4	168.4	189.4	151992.3	5.95	W760X134	
58-1574	IZ®	108	62	32.8	37.2	41.5	1083.5	19	W27X102	W2 (PZC 18)
		5806.2	1573.6	160.3	181.4	202.6	147958.3	5.79	W690X152	

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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)	
59-1647	IZ®	109.9	64.8	36.7	40.9	45	1071.9	19.49	W24X131	W2 (PZC 18)
		5910.7	1646.6	179.4	199.6	219.8	146374.1	5.94	W610X195	
61-1585	IZ®	113.3	62.4	32	36.3	40.6	1199	19.55	W30X99	W2 (PZC 18)
		6092.3	1584.6	156.2	177.2	198.2	163736	5.96	W760X147	
62-1656	IZ®	114.5	65.2	68.5	72.6	76.7	893.9	18.08	W12X305	W2 (PZC 18)
		6155.9	1655.6	334.4	354.5	374.6	122075.8	5.51	W310X454	
62-1729	IZ®	114.7	68.1	61.8	65.7	69.7	909.2	19.16	W14X283	W2 (PZC 18)
		6165.4	1728.6	301.7	320.9	340.2	124164.5	5.84	W360X421	
62-1576	IZ®	115.2	62	35	39.4	43.7	1182.4	19.03	W27X114	W2 (PZC 18)
		6194.3	1575.6	171	192.2	213.3	161466.7	5.8	W690X170	
63-1635	IZ®	116.6	64.4	43.5	47.7	51.8	1103.2	18.96	W21X166	W2 (PZC 18)
		6268.4	1634.6	212.4	232.8	253.1	150653.1	5.78	W530X248	
64-1648	IZ®	119.2	64.9	39.4	43.6	47.7	1187.1	19.55	W24X146	W2 (PZC 18)
		6408.1	1647.6	192.6	212.8	233	162104.1	5.96	W610X217	
65-1586	IZ®	120.7	62.4	33.7	38	42.3	1304.3	19.59	W30X108	W2 (PZC 18)
		6491.4	1585.6	164.5	185.5	206.5	178112.2	5.97	W760X161	
66-1732	IZ®	122.8	68.2	66.6	70.5	74.5	995.3	19.26	W14X311	W2 (PZC 18)
		6604	1731.6	325.2	344.4	363.6	135910.8	5.87	W360X463	
66-1660	IZ®	123.3	65.3	74	78.1	82.3	987.8	18.18	W12X336	W2 (PZC 18)
		6630.3	1659.6	361.5	381.6	401.6	134891.7	5.54	W310X500	
67-1638	IZ®	123.8	64.5	46.5	50.6	54.8	1192.8	19.03	W21X182	W2 (PZC 18)
		6656.7	1637.6	226.9	247.2	267.5	162892.1	5.8	W530X272	
68-1574	IZ®	126	62	37.9	42.3	46.6	1331.5	19.06	W27X129	W2 (PZC 18)
		6776.1	1573.6	185.2	206.4	227.5	181834.7	5.81	W690X192	
69-1587	IZ®	127.6	62.5	35.3	39.6	43.9	1403.1	19.62	W30X116	W2 (PZC 18)
		6860.9	1586.6	172.3	193.3	214.3	191602.3	5.98	W760X173	
69-1649	IZ®	128	64.9	42.4	46.6	50.7	1303.3	19.59	W24X162	W2 (PZC 18)
		6880.4	1648.6	207.3	227.4	247.6	177982.2	5.97	W610X241	

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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)	
71-1736	IZ®	132.3	68.3	71.9	75.8	79.8	1098	19.36	W14X342	W2 (PZC 18)
		7114.9	1735.6	351.1	370.3	389.5	149945	5.9	W360X509	
71-1675	IZ®	132.6	65.9	38.9	43	47.1	1420.4	20.34	W27X146	W2 (PZC 18)
		7128.6	1674.6	190	209.9	229.7	193965.5	6.2	W690X217	
72-1639	IZ®	132.9	64.5	50	54.1	58.3	1308	19.09	W21X201	W2 (PZC 18)
		7146.6	1638.6	244	264.3	284.6	178615.8	5.82	W530X300	
72-1587	IZ®	134.1	62.5	36.7	41	45.3	1496.9	19.65	W30X124	W2 (PZC 18)
		7210.4	1586.6	179.2	200.2	221.2	204418.7	5.99	W760X185	
73-1647	IZ®	136.2	64.8	44.9	49.1	53.2	1411.5	19.59	W24X176	W2 (PZC 18)
		7323	1646.6	219.4	239.6	259.9	192748.5	5.97	W610X262	
75-1588	IZ®	139.9	62.5	38.3	42.6	46.9	1585.9	19.69	W30X132	W2 (PZC 18)
		7519.2	1587.6	187	208	229	216571.5	6	W760X196	
76-1612	IZ®	140.4	63.4	35	39.3	43.5	1650.7	20.44	W33X118	W2 (PZC 18)
		7546.1	1611.6	171.1	191.8	212.4	225413.9	6.23	W840X176	
76-1738	IZ®	141.5	68.4	76.7	80.7	84.6	1197.2	19.42	W14X370	W2 (PZC 18)
		7607.2	1737.6	374.6	393.8	413	163490.8	5.92	W360X551	
76-1676	IZ®	141.6	66	41.7	45.7	49.8	1550.1	20.37	W27X161	W2 (PZC 18)
		7612.2	1675.6	203.4	223.3	243.2	211681.8	6.21	W690X240	
78-1649	IZ®	144.1	64.9	47.8	51.9	56.1	1521.4	19.65	W24X192	W2 (PZC 18)
		7749.5	1648.6	233.4	253.6	273.8	207756.7	5.99	W610X285	
81-1741	IZ®	150	68.5	81.5	85.4	89.3	1296.2	19.49	W14X398	W2 (PZC 18)
		8063.9	1740.6	397.9	417	436.2	177008.2	5.94	W360X592	
81-1678	IZ®	151	66	44.7	48.8	52.8	1686.8	20.44	W27X178	W2 (PZC 18)
		8116	1677.6	218.2	238	257.9	230352.3	6.23	W690X265	
81-1612	IZ®	151.1	63.4	37.3	41.6	45.8	1821	20.47	W33X130	W2 (PZC 18)
		8126.3	1611.6	182.3	203	223.6	248672.3	6.24	W840X193	
82-1650	IZ®	152.4	64.9	50.6	54.7	58.9	1636.3	19.69	W24X207	W2 (PZC 18)
		8194.1	1649.6	247.1	267.3	287.5	223453.2	6	W610X307	

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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)	
82-1586	IZ®	153	62.4	41.4	45.7	50	1786.4	19.72	W30X148	W2 (PZC 18)
		8227.9	1585.6	202.1	223.1	244.1	243949.4	6.01	W760X220	
86-1744	IZ®	159.3	68.6	86.2	90.2	94.1	1403.2	19.59	W14X426	W2 (PZC 18)
		8564.3	1743.6	421.1	440.2	459.3	191623.7	5.97	W360X634	
87-1613	IZ®	160.9	63.5	39.4	43.6	47.9	1980.5	20.51	W33X141	W2 (PZC 18)
		8649.8	1612.6	192.4	213.1	233.7	270453.3	6.25	W840X210	
87-1676	IZ®	162.6	66	47.6	51.7	55.8	1856.3	20.44	W27X194	W2 (PZC 18)
		8743.2	1675.6	232.5	252.4	272.2	253496.4	6.23	W690X289	
88-1653	IZ®	163.7	65.1	54.6	58.7	62.9	1796.9	19.78	W24X229	W2 (PZC 18)
		8798.7	1652.6	266.6	286.7	306.9	245379.6	6.03	W610X341	
88-1701	IZ®	163.9	67	43.1	47.1	51.2	1954.6	21.19	W30X173	W2 (PZC 18)
		8811.8	1700.6	210.6	230.2	249.8	266922.7	6.46	W760X257	
88-1624	IZ®	164.4	63.9	38	42.2	46.4	2106.7	21.03	W36X135	W2 (PZC 18)
		8840.2	1623.6	185.3	205.8	226.3	287687.2	6.41	W920X201	
90-1748	IZ®	167.7	68.8	91.1	95	98.9	1505.2	19.69	W14X455	W2 (PZC 18)
		9013.8	1747.6	444.8	463.9	482.9	205549.2	6	W360X677	
91-1614	IZ®	170	63.5	41.5	45.7	49.9	2133.5	20.57	W33X152	W2 (PZC 18)
		9140.7	1613.6	202.5	223.1	243.8	291346.8	6.27	W840X226	
94-1655	IZ®	175.1	65.1	58.4	62.5	66.7	1962.3	19.85	W24X250	W2 (PZC 18)
		9413.9	1654.6	285.3	305.4	325.5	267970.9	6.05	W610X372	
95-1702	IZ®	175.7	67	46.3	50.3	54.3	2142.7	21.23	W30X191	W2 (PZC 18)
		9446.3	1701.6	226.2	245.7	265.3	292600.2	6.47	W760X284	
95-1679	IZ®	176.2	66.1	51.7	55.8	59.9	2062.1	20.54	W27X217	W2 (PZC 18)
		9471.6	1678.6	252.7	272.5	292.3	281592	6.26	W690X323	
97-1624	IZ®	179.5	63.9	40.8	45	49.2	2368.6	21.1	W36X150	W2 (PZC 18)
		9653	1623.6	199.3	219.8	240.3	323451.2	6.43	W920X223	
98-1752	IZ®	182.5	69	98.7	102.6	106.5	1690	19.78	W14X500	W2 (PZC 18)
		9814	1751.6	481.9	500.9	519.9	230778.8	6.03	W360X744	

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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)	
99-1612	IZ®	184.5	63.4	44.5	48.8	53	2376.1	20.57	W33X169	W2 (PZC 18)
		9917.8	1611.6	217.4	238	258.7	324481.6	6.27	W840X251	
100-1680	IZ®	186.1	66.1	55.1	59.1	63.2	2217.7	20.57	W27X235	W2 (PZC 18)
		10004.3	1679.6	268.9	288.7	308.5	302845.7	6.27	W690X350	
101-1625	IZ®	187.9	64	42.7	46.9	51.1	2520.7	21.13	W36X160	W2 (PZC 18)
		10103.7	1624.6	208.4	228.9	249.4	344222.9	6.44	W920X238	
101-1704	IZ®	188.5	67.1	49.9	53.9	57.9	2352.4	21.29	W30X211	W2 (PZC 18)
		10134.4	1703.6	243.4	263	282.5	321244.6	6.49	W760X314	
102-1620	IZ®	188.9	63.8	40.7	44.9	49.1	2613.9	21.42	W40X149	W2 (PZC 18)
		10156.2	1619.6	198.8	219.4	240	356944.4	6.53	W1000X222	
102-1658	IZ®	189.6	65.3	63.7	67.8	71.9	2178.5	19.91	W24X279	W2 (PZC 18)
		10190.9	1657.6	310.8	330.9	351	297495.5	6.07	W610X415	
106-1626	IZ®	196.5	64	44.5	48.7	52.9	2676.6	21.16	W36X170	W2 (PZC 18)
		10562.7	1625.6	217.4	237.9	258.4	365517.8	6.45	W920X253	
107-1757	IZ®	199.1	69.2	106.8	110.7	114.6	1903.6	19.95	W14X550	W2 (PZC 18)
		10706	1756.6	521.6	540.6	559.5	259958.6	6.08	W360X818	
107-1682	IZ®	199.4	66.2	59	63.1	67.1	2427.4	20.64	W27X258	W2 (PZC 18)
		10721.7	1681.6	288.1	307.9	327.7	331485	6.29	W690X384	
107-1720	IZ®	199.6	67.7	47.6	51.6	55.5	2646.4	21.95	W33X201	W2 (PZC 18)
		10732	1719.6	232.5	251.8	271.2	361386.1	6.69	W840X299	
110-1660	IZ®	203.7	65.3	68.4	72.5	76.6	2395.1	19.98	W24X306	W2 (PZC 18)
		10953.9	1659.6	334.1	354.1	374.2	327071.7	6.09	W610X455	
111-1627	IZ®	205.5	64	46.8	51	55.2	2847.6	21.19	W36X182	W2 (PZC 18)
		11048.7	1626.6	228.4	248.9	269.3	388869.5	6.46	W920X271	
111-1702	IZ®	205.5	67	54.2	58.2	62.2	2631.9	21.33	W30X235	W2 (PZC 18)
		11050.8	1701.6	264.5	284	303.6	359406.7	6.5	W760X350	
113-1620	IZ®	209.3	63.8	44.1	48.3	52.5	2992.1	21.49	W40X167	W2 (PZC 18)
		11255.3	1619.6	215.3	235.9	256.4	408603.6	6.55	W1000X249	

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115-1684	IZ®	212.9	66.3	63.2	67.3	71.3	2645.7	20.7	W27X281	W2 (PZC 18)
		11448.7	1683.6	308.8	328.6	348.3	361296.7	6.31	W690X419	
115-1721	IZ®	214	67.7	51.1	55.1	59.1	2902.2	22.01	W33X221	W2 (PZC 18)
		11503.6	1720.6	249.7	269	288.4	396319.4	6.71	W840X329	
115-1628	IZ®	214.1	64.1	48.9	53.1	57.3	3012.8	21.23	W36X194	W2 (PZC 18)
		11512.1	1627.6	238.9	259.3	279.8	411422.6	6.47	W920X289	
117-1762	IZ®	218	69.4	116.6	120.4	124.3	2155.5	20.08	W14X605	W2 (PZC 18)
		11720.6	1761.6	569.2	588.1	607	294349	6.12	W360X900	
118-1663	IZ®	218.6	65.5	73.7	77.8	81.9	2628	20.08	W24X335	W2 (PZC 18)
		11752.1	1662.6	359.9	379.9	400	358879.3	6.12	W610X498	
119-1705	IZ®	221	67.1	58.8	62.8	66.8	2898.4	21.39	W30X261	W2 (PZC 18)
		11881.1	1704.6	287	306.6	326.1	395801	6.52	W760X389	
121-1629	IZ®	225.6	64.1	52	56.1	60.3	3237.2	21.26	W36X210	W2 (PZC 18)
		12131.6	1628.6	253.7	274.1	294.6	442075	6.48	W920X313	
122-1687	IZ®	226.9	66.4	67.7	71.8	75.8	2875.2	20.77	W27X307	W2 (PZC 18)
		12196.6	1686.6	330.6	350.3	370.1	392631.5	6.33	W690X457	
123-1723	IZ®	227.9	67.8	54.6	58.6	62.5	3153.6	22.08	W33X241	W2 (PZC 18)
		12252.8	1722.6	266.7	286	305.4	430653	6.73	W840X359	
123-1620	IZ®	228.7	63.8	47.1	51.3	55.5	3357.4	21.56	W40X183	W2 (PZC 18)
		12293.4	1619.6	229.9	250.4	271	458479.5	6.57	W1000X272	
125-1720	IZ®	232.4	67.7	47.1	51.1	55.1	3446.5	22.8	W40X199	W2 (PZC 18)
		12497.1	1719.6	230.2	249.6	268.9	470646	6.95	W1000X296	
125-1738	IZ®	233.1	68.4	52.1	56	60	3335	22.57	W36X230	W2 (PZC 18)
		12530	1737.6	254.5	273.6	292.8	455429.1	6.88	W920X342	
127-1667	IZ®	236.4	65.6	80	84.1	88.2	2914.8	20.18	W24X370	W2 (PZC 18)
		12708.4	1666.6	390.6	410.6	430.6	398046.9	6.15	W610X551	
128-1768	IZ®	238.1	69.6	126.2	130	133.9	2440.5	20.24	W14X665	W2 (PZC 18)
		12801.1	1767.6	616.1	634.9	653.8	333265.7	6.17	W360X990	

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130-1707	IZ®	240.9	67.2	64.2	68.2	72.2	3242.7	21.46	W30X292	W2 (PZC 18)
		12950.9	1706.6	313.4	332.9	352.4	442826	6.54	W760X434	
131-1690	IZ®	243.5	66.5	72.8	76.9	80.9	3155.1	20.87	W27X336	W2 (PZC 18)
		13089.3	1689.6	355.5	375.3	395	430861.6	6.36	W690X500	
131-1739	IZ®	244.4	68.4	54.8	58.7	62.6	3548.1	22.6	W36X245	W2 (PZC 18)
		13137.4	1738.6	267.4	286.6	305.7	484518.2	6.89	W920X365	
132-1628	IZ®	245.6	64.1	55.9	60.1	64.3	3619.5	21.29	W36X232	W2 (PZC 18)
		13203.7	1627.6	273.1	293.6	314	494278.1	6.49	W920X345	
132-1721	IZ®	245.7	67.7	58.6	62.6	66.5	3477.4	22.08	W33X263	W2 (PZC 18)
		13209.1	1720.6	286.2	305.5	324.9	474868.9	6.73	W840X392	
135-1620	IZ®	250.7	63.8	52.3	56.6	60.8	3817.2	21.59	W40X211	W2 (PZC 18)
		13477.2	1619.6	255.6	276.1	296.7	521276.3	6.58	W1000X314	
135-1720	IZ®	251	67.7	50.1	54.1	58.1	3806.5	22.87	W40X215	W2 (PZC 18)
		13497	1719.6	244.8	264.2	283.5	519811.2	6.97	W1000X321	
137-1740	IZ®	255.4	68.5	57.3	61.2	65.2	3761.8	22.64	W36X260	W2 (PZC 18)
		13731.8	1739.6	279.9	299	318.2	513705.9	6.9	W920X387	
140-1710	IZ®	260.9	67.3	70.1	74.1	78.1	3601.9	21.56	W30X326	W2 (PZC 18)
		14028.4	1709.6	342.2	361.7	381.2	491876.4	6.57	W760X484	
140-1692	IZ®	261.1	66.6	78.5	82.6	86.6	3458.5	20.93	W27X368	W2 (PZC 18)
		14036.5	1691.6	383.4	403.1	422.8	472294.7	6.38	W690X548	
141-1774	IZ®	261.3	69.8	136.6	140.5	144.3	2774.7	20.41	W14X730	W2 (PZC 18)
		14050.4	1773.6	667.1	685.9	704.7	378912.1	6.22	W360X1086	
141-1630	IZ®	263	64.2	60.5	64.7	68.9	3973.2	21.36	W36X256	W2 (PZC 18)
		14141.4	1629.6	295.4	315.8	336.3	542569.3	6.51	W920X381	
142-1724	IZ®	264.1	67.9	63.5	67.4	71.4	3825.5	22.18	W33X291	W2 (PZC 18)
		14201	1723.6	309.8	329.1	348.5	522403.9	6.76	W840X433	
145-1622	IZ®	269.2	63.8	56.7	60.9	65.2	4210.6	21.65	W40X235	W2 (PZC 18)
		14474.5	1621.6	277	297.6	318.1	574993.5	6.6	W1000X350	

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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)	
146-1742	IZ®	270.8	68.6	60.9	64.8	68.7	4063.7	22.7	W36X280	W2 (PZC 18)
		14560.2	1741.6	297.1	316.3	335.4	554931.8	6.92	W920X417	
149-1720	IZ®	277.3	67.7	56.1	60.1	64.1	4354.8	22.9	W40X249	W2 (PZC 18)
		14910.1	1719.6	274	293.4	312.7	594684.3	6.98	W1000X371	
150-1791	IZ®	279.7	70.5	148.8	152.6	156.4	3037.2	20.57	W14X808	W2 (PZC 18)
		15039.2	1790.6	726.5	745.1	763.7	414763.3	6.27	W360X1202	
151-1713	IZ®	280.2	67.4	75.5	79.5	83.5	3954.5	21.65	W30X357	W2 (PZC 18)
		15064.4	1712.6	368.6	388.1	407.5	540021.5	6.6	W760X531	
152-1726	IZ®	282.3	67.9	68.1	72.1	76	4173.6	22.24	W33X318	W2 (PZC 18)
		15178.6	1725.6	332.7	352	371.3	569938	6.78	W840X473	
153-1743	IZ®	284.7	68.6	64.3	68.2	72.2	4337.6	22.74	W36X300	W2 (PZC 18)
		15306.8	1742.6	314.1	333.2	352.3	592338.3	6.93	W920X446	
153-1720	IZ®	285.2	67.7	52.8	56.7	60.7	4755.1	23.49	W44X230	W2 (PZC 18)
		15331.6	1719.6	257.6	276.9	296.3	649344.3	7.16	W1100X343	
155-1623	IZ®	288.4	63.9	62.2	66.4	70.6	4635.6	21.72	W40X264	W2 (PZC 18)
		15504.1	1622.6	303.5	324	344.5	633031.9	6.62	W1000X393	
160-1624	IZ®	298.1	63.9	64.9	69.1	73.3	4852.4	21.72	W40X278	W2 (PZC 18)
		16025.3	1623.6	316.8	337.3	357.8	662643.2	6.62	W1000X415	
160-1722	IZ®	298.2	67.8	60.9	64.9	68.8	4800.2	22.97	W40X277	W2 (PZC 18)
		16033.9	1721.6	297.4	316.8	336.1	655516.4	7	W1000X412	
162-1716	IZ®	300.3	67.5	81.6	85.5	89.5	4332.3	21.72	W30X391	W2 (PZC 18)
		16147.6	1715.6	398.2	417.6	437	591608.8	6.62	W760X582	
164-1742	IZ®	304.9	68.6	69.2	73.1	77	4745	22.77	W36X328	W2 (PZC 18)
		16392.1	1741.6	337.7	356.8	376	647966.4	6.94	W920X488	
164-1729	IZ®	305.4	68.1	74.3	78.3	82.2	4626.4	22.31	W33X354	W2 (PZC 18)
		16420.5	1728.6	363	382.2	401.5	631780.3	6.8	W840X527	
167-1722	IZ®	309.7	67.8	64.6	68.5	72.5	5061.4	22.97	W40X297	W2 (PZC 18)
		16652.2	1721.6	315.2	334.5	353.9	691180.9	7	W1000X443	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area	Diameter	Configuration
				60%	80%	100%				
		in ³ /ft (cm ³ /m)	in (mm)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	in ⁴ /ft (cm ⁴ /m)	ft ² /ft (m ² /m)	in (mm)	
169-1720	IZ [®]	314.8	67.7	58.5	62.4	66.4	5422.7	23.56	W44X262	W2 (PZC 18)
		16927.2	1719.6	285.4	304.8	324.2	740524.5	7.18	W1100X390	
175-1745	IZ [®]	325.1	68.7	74.4	78.3	82.2	5160.7	22.83	W36X359	W2 (PZC 18)
		17475.9	1744.6	363.2	382.3	401.4	704736.4	6.96	W920X534	
176-1731	IZ [®]	326.6	68.1	80.1	84	88	5053.7	22.41	W33X387	W2 (PZC 18)
		17557.3	1730.6	391.1	410.4	429.6	690128.6	6.83	W840X576	
178-1724	IZ [®]	331.4	67.9	69.2	73.2	77.2	5527.9	23.06	W40X324	W2 (PZC 18)
		17818.6	1723.6	338.1	357.4	376.7	754883.5	7.03	W1000X483	
180-1628	IZ [®]	334.9	64.1	73.7	77.9	82.1	5669.1	21.85	W40X327	W2 (PZC 18)
		18002.8	1627.6	359.9	380.4	400.8	774162	6.66	W1000X486	
181-1629	IZ [®]	336.7	64.1	74.7	78.8	83	5714	21.88	W40X331	W2 (PZC 18)
		18101.4	1628.6	364.5	385	405.4	780296.4	6.67	W1000X494	
182-1722	IZ [®]	338.4	67.8	63.5	67.5	71.5	5974.1	23.62	W44X290	W2 (PZC 18)
		18191.8	1721.6	310.2	329.5	348.9	815819.1	7.2	W1100X433	
187-1747	IZ [®]	348.3	68.8	80.4	84.3	88.2	5650.3	22.93	W36X393	W2 (PZC 18)
		18723.6	1746.6	392.5	411.5	430.6	771596.2	6.99	W920X585	
191-1707	IZ [®]	355.7	67.2	108.1	112.1	116.1	5205.7	21.39	W27X539	W2 (PZC 18)
		19123.8	1706.6	527.7	547.2	566.7	710890.7	6.52	W690X802	
192-1727	IZ [®]	357.5	68	75.8	79.8	83.7	6113.9	23.13	W40X362	W2 (PZC 18)
		19220.5	1726.6	370.2	389.5	408.8	834908.8	7.05	W1000X539	
195-1728	IZ [®]	363.3	68	77.5	81.5	85.4	6247.4	23.16	W40X372	W2 (PZC 18)
		19530.5	1727.6	378.6	397.9	417.2	853136.8	7.06	W1000X554	
198-1725	IZ [®]	368.3	67.9	71	74.9	78.9	6703.6	23.69	W44X335	W2 (PZC 18)
		19801.6	1724.6	346.5	365.8	385.1	915437.8	7.22	W1100X499	
204-1751	IZ [®]	379.2	68.9	88.1	92	95.9	6306.3	23.03	W36X439	W2 (PZC 18)
		20384.4	1750.6	430.1	449.2	468.2	861185	7.02	W920X653	
206-1634	IZ [®]	382.6	64.3	85.7	89.9	94.1	6768.7	22.05	W40X392	W2 (PZC 18)
		20572.2	1633.6	418.7	439.1	459.4	924326.8	6.72	W1000X584	

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				60%	80%	100%				
		in ³ /ft (cm ³ /m)	in (mm)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	lb/ft ² (kg/m ²)	in ⁴ /ft (cm ⁴ /m)	ft ² /ft (m ² /m)	in (mm)	
206-1729	IZ [®]	383.4	68.1	81.9	85.8	89.8	6698.6	23.2	W40X397	W2 (PZC 18)
		20611.9	1728.6	399.7	419	438.3	914755.2	7.07	W1000X591	
219-1732	IZ [®]	406.4	68.2	87.8	91.7	95.6	7229.3	23.29	W40X431	W2 (PZC 18)
		21851.7	1731.6	428.5	447.7	467	987226.1	7.1	W1000X642	
236-1757	IZ [®]	438.5	69.2	103	106.9	110.8	7615.3	23.23	W36X527	W2 (PZC 18)
		23576.9	1756.6	502.9	521.8	540.8	1039936.1	7.08	W920X784	
247-1737	IZ [®]	459.1	68.4	100.2	104.1	108.1	8467.8	23.46	W40X503	W2 (PZC 18)
		24685.1	1736.6	489.2	508.4	527.6	1156359.8	7.15	W1000X748	
280-1766	IZ [®]	520.6	69.5	123.6	127.5	131.3	9507.4	23.49	W36X650	W2 (PZC 18)
		27987.9	1765.6	603.4	622.3	641.2	1298323.4	7.16	W920X967	
283-1744	IZ [®]	525.7	68.6	115.9	119.8	123.8	10081.3	23.65	W40X593	W2 (PZC 18)
		28263.2	1743.6	566	585.1	604.2	1376687.4	7.21	W1000X883	
334-1777	IZ [®]	621.9	69.9	148.2	152	155.8	11965.5	23.82	W36X798	W2 (PZC 18)
		33435.9	1776.6	723.4	742.2	760.9	1633997	7.26	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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