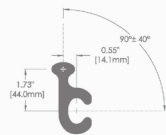


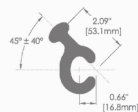
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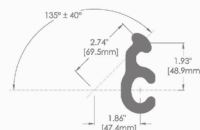
PilePro® Sheet Pile Connectors



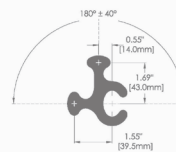
PZ 90



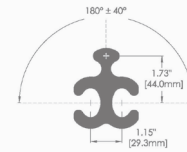
Colt



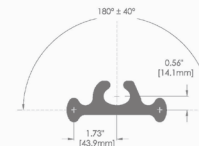
Cobra



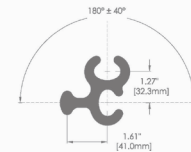
PZ Tee



Joker



Bullhead



PZT-S

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



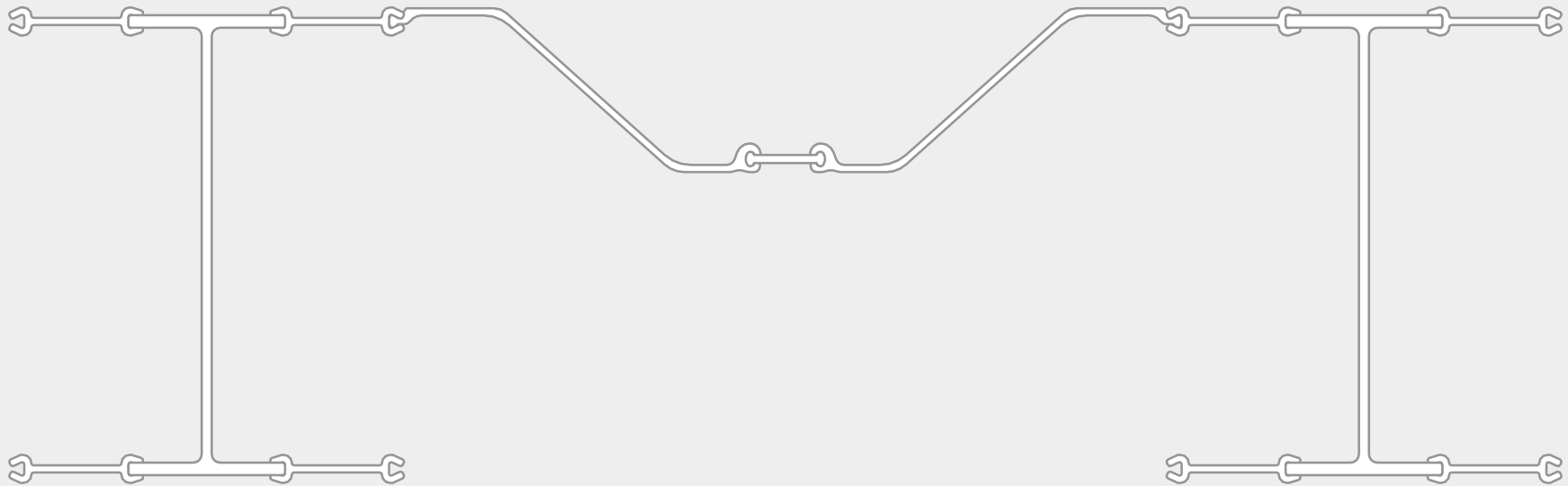
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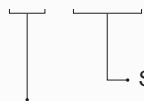


Configuration A2 (PZC 18)



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)	
30-1993	IZ®	55.7	78.5	21.5	27.3	33.1	448.3	24.95	W16X26	A2 (PZC 18)
		2992.3	1993	104.8	133.2	161.6	61219	7.6	W410X38.8	
31-1993	IZ®	57.4	78.5	22.2	28	33.9	464	24.95	W16X31	A2 (PZC 18)
		3083.7	1993	108.4	136.9	165.3	63360.2	7.6	W410X46.1	
31-2030	IZ®	57.7	79.9	22.5	28.3	34	466.7	25.44	W16X36	A2 (PZC 18)
		3103.1	2030	110.1	138	165.9	63733.2	7.75	W410X53	
32-2031	IZ®	59.2	80	23.1	28.9	34.6	481.2	25.47	W16X40	A2 (PZC 18)
		3184.6	2031	113	140.9	168.8	65713.4	7.76	W410X60	
33-2032	IZ®	60.6	80	23.9	29.6	35.3	494.3	25.51	W16X45	A2 (PZC 18)
		3259.8	2032	116.7	144.5	172.4	67503	7.77	W410X67	
33-2033	IZ®	62.1	80	24.6	30.3	36	508.2	25.54	W16X50	A2 (PZC 18)
		3338.8	2033	120.3	148.1	176	69394.8	7.78	W410X75	
34-2005	IZ®	62.8	78.9	22.7	28.5	34.3	537.2	25.41	W18X35	A2 (PZC 18)
		3376.2	2005	110.7	139	167.2	73366	7.74	W460X52	
34-2251	IZ®	63	88.6	27.3	32.5	37.6	497.1	28.2	HP16x88	A2 (PZC 18)
		3387.5	2251.5	133.5	158.6	183.8	67881	8.59	HP410x131	
35-2034	IZ®	64.1	80.1	25.6	31.3	37.1	527.1	25.57	W16X57	A2 (PZC 18)
		3445.8	2034	125.2	153.1	180.9	71984	7.79	W410X85	
35-2006	IZ®	64.9	79	23.4	29.2	35	559.2	25.47	W18X40	A2 (PZC 18)
		3490.9	2006	114.4	142.6	170.9	76367.1	7.76	W460X60	
35-2113	IZ®	65.4	83.2	26.3	31.8	37.3	536.1	26.59	W16X67	A2 (PZC 18)
		3514.4	2113	128.3	155.1	181.9	73211.1	8.1	W410X100	
36-2253	IZ®	66.4	88.7	29.2	34.4	39.5	527	28.26	HP16x101	A2 (PZC 18)
		3571.4	2253	142.6	167.8	192.9	71971.5	8.61	HP410x151	
36-2007	IZ®	66.9	79	24.3	30.1	35.9	579.2	25.51	W18X46	A2 (PZC 18)
		3594.8	2007	118.8	147	175.2	79101.4	7.77	W460X68	
36-2043	IZ®	67	80.4	24.5	30.2	35.8	579.7	25.97	W18X50	A2 (PZC 18)
		3604	2043	119.5	147.2	174.9	79163.9	7.91	W460X74	

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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)	
37-2114	IZ®	68.2	83.2	27.7	33.2	38.7	563.4	26.62	W16X77	A2 (PZC 18)
		3668.3	2114	135.3	162.1	188.9	76942.4	8.11	W410X114	
37-2044	IZ®	68.7	80.5	25.3	31	36.6	597	25.97	W18X55	A2 (PZC 18)
		3694.4	2044	123.4	151.2	178.9	81526.3	7.91	W460X82	
38-2045	IZ®	70.4	80.5	26	31.7	37.3	614.3	26	W18X60	A2 (PZC 18)
		3784.3	2045	126.8	154.5	182.2	83892.6	7.92	W460X89	
38-2256	IZ®	71.3	88.8	31.9	37	42.2	572.5	28.33	HP16x121	A2 (PZC 18)
		3834.5	2256.2	155.7	180.8	205.9	78177.3	8.63	HP410x181	
39-2116	IZ®	71.6	83.3	29.4	34.9	40.4	595.8	26.69	W16X89	A2 (PZC 18)
		3850.8	2116	143.7	170.5	197.3	81357.1	8.13	W410X132	
39-2046	IZ®	72	80.6	26.7	32.3	38	631.3	26.03	W18X65	A2 (PZC 18)
		3871.1	2046	130.2	157.9	185.6	86214.6	7.93	W460X97	
39-2133	IZ®	73	84	27.2	32.6	38	639.2	27.15	W18X76	A2 (PZC 18)
		3927.2	2133	132.6	159.2	185.7	87289	8.27	W460X113	
40-2047	IZ®	73.8	80.6	27.6	33.3	38.9	650.2	26.06	W18X71	A2 (PZC 18)
		3966.8	2047	134.8	162.4	190.1	88787.2	7.94	W460X106	
40-2018	IZ®	74.3	79.4	23.9	29.7	35.4	694.1	26.06	W21X44	A2 (PZC 18)
		3994	2018	116.7	144.8	172.9	94783.7	7.94	W530X66	
40-2060	IZ®	74.4	81.1	24	29.6	35.3	695.6	26.62	W21X48	A2 (PZC 18)
		3999.9	2060	117.2	144.7	172.2	94984.3	8.11	W530X72	
40-2118	IZ®	74.9	83.4	31	36.5	42	629	26.72	W16X100	A2 (PZC 18)
		4029.1	2118	151.4	178.1	204.9	85889.1	8.14	W410X149	
41-2259	IZ®	76	89	34.5	39.7	44.8	614.3	28.36	HP16x141	A2 (PZC 18)
		4088.4	2259.4	168.7	193.7	218.8	83887.2	8.64	HP410x211	
41-2135	IZ®	76.2	84.1	28.6	34	39.4	671.6	27.21	W18X86	A2 (PZC 18)
		4098.1	2135	139.5	166	192.6	91716.1	8.29	W460X128	
41-2019	IZ®	76.7	79.5	24.8	30.5	36.3	722	26.1	W21X50	A2 (PZC 18)
		4125.3	2019	121	149.1	177.1	98597.4	7.95	W530X74	

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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)	
42-2062	IZ®	77.4	81.2	25.1	30.7	36.3	729	26.65	W21X55	A2 (PZC 18)
		4160.3	2062	122.4	149.8	177.3	99550.4	8.12	W530X82	
43-2136	IZ®	79.8	84.1	30.1	35.6	41	709.2	27.25	W18X97	A2 (PZC 18)
		4290.6	2136	147.2	173.7	200.2	96842.9	8.3	W460X144	
43-2304	IZ®	79.8	90.7	33.1	38.1	43.1	685.3	29.21	HP18x135	A2 (PZC 18)
		4292.3	2303.8	161.5	186	210.6	93584.2	8.9	HP360x202	
43-2019	IZ®	80	79.5	25.8	31.6	37.3	760	26.13	W21X57	A2 (PZC 18)
		4299.7	2019	126.1	154.2	182.2	103783	7.96	W530X85	
43-2062	IZ®	80.5	81.2	26.1	31.7	37.3	765.2	26.69	W21X62	A2 (PZC 18)
		4329.4	2062	127.3	154.8	182.2	104494.7	8.13	W530X92	
44-2263	IZ®	81.2	89.1	37.2	42.4	47.5	664	28.46	HP16x162	A2 (PZC 18)
		4366.3	2262.6	181.9	206.9	231.9	90671.2	8.67	HP410x242	
44-2137	IZ®	82.5	84.1	31.4	36.8	42.3	737.9	27.28	W18X106	A2 (PZC 18)
		4433.9	2137	153.3	179.8	206.3	100767.8	8.31	W460X158	
45-2063	IZ®	83	81.2	26.9	32.5	38.2	794.1	26.72	W21X68	A2 (PZC 18)
		4461.6	2063	131.4	158.9	186.3	108443.7	8.14	W530X101	
46-2064	IZ®	84.8	81.3	27.7	33.3	38.9	815.1	26.75	W21X73	A2 (PZC 18)
		4558.9	2064	135.2	162.6	190.1	111305.6	8.15	W530X109	
46-2307	IZ®	85.3	90.8	35.9	40.9	45.9	739	29.28	HP18x157	A2 (PZC 18)
		4587	2307	175.1	199.6	224.2	100916.8	8.92	HP360x234	
46-2252	IZ®	85.7	88.7	41.6	46.7	51.9	675.3	28.2	W14X193	A2 (PZC 18)
		4605.4	2252	203	228.2	253.3	92218.8	8.59	W360X287	
46-2272	IZ®	85.9	89.5	40	45.1	50.2	709.2	28.59	HP16x183	A2 (PZC 18)
		4620.8	2272.1	195.4	220.3	245.2	96847.4	8.71	HP410x272	
47-2139	IZ®	86.8	84.2	33.3	38.7	44.1	784.9	27.31	W18X119	A2 (PZC 18)
		4667.3	2139	162.4	188.8	215.3	107184.1	8.32	W460X177	
48-2065	IZ®	88.4	81.3	29.1	34.7	40.3	857.7	26.79	W21X83	A2 (PZC 18)
		4751.2	2065	142	169.4	196.8	117123.2	8.16	W530X123	

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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)	
48-2031	IZ®	88.5	80	25.4	31.2	36.9	901.7	26.72	W24X55	A2 (PZC 18)
		4759.5	2031	124.2	152.1	180	123138	8.14	W610X82	
48-2254	IZ®	90	88.7	44	49.1	54.3	716.6	28.23	W14X211	A2 (PZC 18)
		4838.3	2254	214.7	239.8	264.9	97851.9	8.6	W360X314	
49-2136	IZ®	91.1	84.1	34.9	40.3	45.7	833.3	27.34	W18X130	A2 (PZC 18)
		4898	2136	170.3	196.8	223.3	113793.1	8.33	W460X193	
49-2032	IZ®	91.6	80	26.5	32.2	37.9	941.1	26.75	W24X62	A2 (PZC 18)
		4924.8	2032	129.2	157.1	184.9	128511.7	8.15	W610X92	
49-2067	IZ®	91.9	81.4	30.5	36.1	41.7	901	26.82	W21X93	A2 (PZC 18)
		4942.9	2067	149	176.4	203.8	123045.8	8.17	W530X138	
49-2310	IZ®	91.9	91	38.9	44	49	806.1	29.35	HP18x181	A2 (PZC 18)
		4943.2	2310.2	190.2	214.7	239.2	110086.6	8.94	HP360x269	
50-2165	IZ®	92.3	85.2	30.3	35.7	41	900.7	28.1	W21X101	A2 (PZC 18)
		4963.1	2165	148.1	174.2	200.4	122994.7	8.56	W530X150	
50-2081	IZ®	92.9	81.9	26.7	32.3	37.8	958.2	27.41	W24X68	A2 (PZC 18)
		4997.2	2081	130.3	157.5	184.7	130856.6	8.35	W610X101	
51-2183	IZ®	94.3	85.9	51.1	56.5	61.8	739.1	27.18	W12X252	A2 (PZC 18)
		5072.4	2183	249.7	275.7	301.6	100936.7	8.28	W310X375	
51-2257	IZ®	95.2	88.9	46.9	52	57.2	768.6	28.33	W14X233	A2 (PZC 18)
		5118.5	2257	229	254.1	279.2	104953.5	8.63	W360X347	
51-2138	IZ®	95.5	84.2	36.7	42.1	47.5	882.4	27.38	W18X143	A2 (PZC 18)
		5132.1	2138	179	205.5	231.9	120494.8	8.34	W460X213	
51-2166	IZ®	95.6	85.3	31.7	37.1	42.4	939.4	28.13	W21X111	A2 (PZC 18)
		5140.6	2166	154.9	181.1	207.2	128283.5	8.57	W530X165	
52-2081	IZ®	96.9	81.9	27.8	33.4	39	1008.8	27.44	W24X76	A2 (PZC 18)
		5208.6	2081	136	163.2	190.4	137762.6	8.36	W610X113	
53-2313	IZ®	98.3	91.1	42	47	52.1	874.9	29.41	HP18x204	A2 (PZC 18)
		5285.4	2313.4	205.2	229.7	254.2	119471.2	8.96	HP460x304	

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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)	
54-2168	IZ®	99.6	85.4	33.2	38.5	43.9	987.9	28.16	W21X122	A2 (PZC 18)
		5354.2	2168	162	188.1	214.3	134900.5	8.58	W530X182	
54-2140	IZ®	100.1	84.3	38.7	44.1	49.6	935	27.44	W18X158	A2 (PZC 18)
		5379.1	2140	189.1	215.5	242	127683.2	8.36	W460X235	
54-2082	IZ®	100.6	82	29	34.6	40.1	1056.3	27.48	W24X84	A2 (PZC 18)
		5406.1	2082	141.6	168.8	196	144245.7	8.37	W610X125	
54-2187	IZ®	100.7	86.1	54.7	60	65.3	806	27.28	W12X279	A2 (PZC 18)
		5411.9	2187	267.2	293.1	319	110064.8	8.31	W310X415	
54-2259	IZ®	101	88.9	50.1	55.3	60.4	828.6	28.39	W14X257	A2 (PZC 18)
		5430.8	2259	244.8	269.9	294.9	113149.8	8.65	W360X382	
55-2169	IZ®	103.1	85.4	34.6	39.9	45.3	1030	28.2	W21X132	A2 (PZC 18)
		5544.9	2169	168.8	194.9	221	140657.4	8.59	W530X196	
56-2083	IZ®	104.9	82	30.5	36.1	41.7	1114.6	27.51	W24X94	A2 (PZC 18)
		5641.5	2083	149	176.2	203.4	152206.9	8.38	W610X140	
56-2177	IZ®	105	85.7	30.6	35.9	41.3	1112.7	28.69	W24X104	A2 (PZC 18)
		5643.5	2177	149.4	175.5	201.5	151948.3	8.74	W610X155	
57-2142	IZ®	106	84.3	41.1	46.5	51.9	1004.5	27.51	W18X175	A2 (PZC 18)
		5697.6	2142	200.6	227.1	253.5	137174.9	8.38	W460X260	
58-2189	IZ®	107.2	86.2	58.4	63.6	68.9	877.5	27.38	W12X305	A2 (PZC 18)
		5762.8	2189	284.9	310.8	336.6	119824.9	8.34	W310X454	
58-2262	IZ®	107.7	89.1	53.6	58.7	63.8	898.2	28.46	W14X283	A2 (PZC 18)
		5792	2262	261.5	286.5	311.5	122659.1	8.67	W360X421	
58-2171	IZ®	108.6	85.5	36.7	42	47.4	1097.3	28.26	W21X147	A2 (PZC 18)
		5836.8	2171	179.1	205.2	231.3	149851.6	8.61	W530X219	
59-2082	IZ®	109.3	82	31.8	37.3	42.9	1174.3	27.51	W24X103	A2 (PZC 18)
		5878.7	2082	155.1	182.3	209.5	160354.6	8.38	W610X153	
59-2178	IZ®	110.4	85.7	32.4	37.7	43	1183.7	28.72	W24X117	A2 (PZC 18)
		5935.3	2178	158	184	210	161638.4	8.75	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)	
60-2106	IZ®	111.3	82.9	28.7	34.2	39.8	1255.6	28.2	W27X84	A2 (PZC 18)
		5984.1	2106	140.3	167.2	194.1	171468.9	8.59	W690X125	
62-2265	IZ®	114.5	89.2	57.2	62.4	67.5	972.4	28.56	W14X311	A2 (PZC 18)
		6156.1	2265	279.5	304.5	329.5	132790.6	8.7	W360X463	
62-2193	IZ®	114.5	86.3	62.6	67.9	73.1	958.7	27.48	W12X336	A2 (PZC 18)
		6157	2193	305.5	331.3	357.1	130919.3	8.37	W310X500	
63-2180	IZ®	116.3	85.8	34.3	39.6	45	1263	28.79	W24X131	A2 (PZC 18)
		6251.8	2180	167.6	193.6	219.6	172472.2	8.77	W610X195	
63-2107	IZ®	116.7	83	30.1	35.6	41.1	1333.4	28.26	W27X94	A2 (PZC 18)
		6276.4	2107	147	173.8	200.7	182090.6	8.61	W690X140	
63-2168	IZ®	117.4	85.4	39.4	44.8	50.1	1210.4	28.26	W21X166	A2 (PZC 18)
		6314.5	2168	192.4	218.5	244.7	165288.7	8.61	W530X248	
65-2107	IZ®	121.1	83	31.3	36.8	42.3	1396.6	28.3	W27X102	A2 (PZC 18)
		6512.3	2107	152.9	179.8	206.7	190716	8.62	W690X152	
66-2269	IZ®	122.4	89.3	61.3	66.4	71.5	1060.5	28.66	W14X342	A2 (PZC 18)
		6578.1	2269	299.4	324.4	349.3	144823.3	8.73	W360X509	
66-2171	IZ®	123.2	85.5	41.7	47	52.3	1284.4	28.33	W21X182	A2 (PZC 18)
		6621	2171	203.4	229.5	255.5	175395.4	8.63	W530X272	
66-2181	IZ®	123.3	85.9	36.4	41.7	47	1356.5	28.85	W24X146	A2 (PZC 18)
		6629.2	2181	177.6	203.6	229.5	185237.9	8.79	W610X217	
68-2109	IZ®	126.4	83	33	38.5	44	1475.3	28.33	W27X114	A2 (PZC 18)
		6797.2	2109	161	187.8	214.7	201464.6	8.63	W690X170	
68-2117	IZ®	126.6	83.3	29.3	34.8	40.3	1540.8	28.82	W30X90	A2 (PZC 18)
		6804.1	2117	143.3	170	196.8	210404.6	8.78	W760X134	
70-2271	IZ®	129.8	89.4	65	70.1	75.2	1144.3	28.72	W14X370	A2 (PZC 18)
		6979.1	2271	317.5	342.4	367.3	156269.8	8.75	W360X551	
70-2182	IZ®	130.2	85.9	38.6	44	49.3	1452.3	28.89	W24X162	A2 (PZC 18)
		6997.4	2182	188.7	214.6	240.6	198325.2	8.8	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)	
70-2172	IZ®	130.4	85.5	44.3	49.6	55	1380.4	28.39	W21X201	A2 (PZC 18)
		7009.9	2172	216.3	242.4	268.4	188507.4	8.65	W530X300	
70-2118	IZ®	130.6	83.4	30.7	36.2	41.7	1606	28.85	W30X99	A2 (PZC 18)
		7022.4	2118	149.9	176.6	203.4	219319	8.79	W760X147	
72-2107	IZ®	134.6	83	35.1	40.6	46.1	1598.7	28.36	W27X129	A2 (PZC 18)
		7237.5	2107	171.5	198.4	225.3	218313.9	8.64	W690X192	
73-2119	IZ®	136	83.4	32	37.5	42.9	1690.4	28.89	W30X108	A2 (PZC 18)
		7309.4	2119	156.1	182.8	209.6	230836.3	8.8	W760X161	
73-2180	IZ®	136.5	85.8	40.5	45.8	51.2	1541.4	28.89	W24X176	A2 (PZC 18)
		7340.6	2180	197.8	223.8	249.8	210486.3	8.8	W610X262	
74-2274	IZ®	136.9	89.5	68.7	73.8	78.9	1229.2	28.79	W14X398	A2 (PZC 18)
		7357.6	2274	335.3	360.2	385.2	167852.2	8.77	W360X592	
74-2208	IZ®	137.8	86.9	36	41.3	46.5	1637.4	29.64	W27X146	A2 (PZC 18)
		7406	2208	175.8	201.4	227.1	223606.7	9.03	W690X217	
76-2120	IZ®	140.9	83.5	33.2	38.6	44.1	1768.4	28.92	W30X116	A2 (PZC 18)
		7574.5	2120	162	188.7	215.4	241490.4	8.81	W760X173	
77-2182	IZ®	142.8	85.9	42.7	48	53.3	1631.3	28.95	W24X192	A2 (PZC 18)
		7674.8	2182	208.5	234.4	260.4	222774.4	8.82	W610X285	
78-2277	IZ®	144.4	89.6	72.3	77.4	82.5	1319.4	28.89	W14X426	A2 (PZC 18)
		7765.6	2277	353.2	378	402.9	180179	8.8	W360X634	
78-2209	IZ®	144.7	87	38.1	43.3	48.6	1742.5	29.67	W27X161	A2 (PZC 18)
		7777.4	2209	186	211.6	237.3	237957.3	9.04	W690X240	
78-2120	IZ®	145.6	83.5	34.2	39.7	45.2	1843.6	28.95	W30X124	A2 (PZC 18)
		7828.8	2120	167.2	193.9	220.6	251754.4	8.82	W760X185	
80-2183	IZ®	149.2	85.9	44.8	50.1	55.4	1725.5	28.98	W24X207	A2 (PZC 18)
		8022.5	2183	218.8	244.7	270.7	235629	8.83	W610X307	
81-2121	IZ®	149.9	83.5	35.4	40.9	46.4	1914.7	28.98	W30X132	A2 (PZC 18)
		8057.8	2121	173	199.7	226.4	261468.7	8.83	W760X196	

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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)	
81-2281	IZ®	151.3	89.8	76.1	81.2	86.3	1406.1	28.98	W14X455	A2 (PZC 18)
		8137.1	2281	371.5	396.3	421.1	192011.3	8.83	W360X677	
82-2211	IZ®	151.8	87	40.4	45.6	50.9	1851.2	29.74	W27X178	A2 (PZC 18)
		8161.6	2211	197.2	222.8	248.4	252799.1	9.06	W690X265	
84-2145	IZ®	155.8	84.4	33	38.4	43.8	2101.1	29.74	W33X118	A2 (PZC 18)
		8377.8	2145	161.2	187.6	214	286925.7	9.06	W840X176	
85-2186	IZ®	158	86.1	47.8	53.1	58.5	1856.6	29.08	W24X229	A2 (PZC 18)
		8496.9	2186	233.6	259.5	285.4	253532.4	8.86	W610X341	
86-2119	IZ®	159.7	83.4	37.7	43.2	48.7	2077.3	29.02	W30X148	A2 (PZC 18)
		8587.4	2119	184.3	211	237.7	283677.9	8.84	W760X220	
87-2209	IZ®	160.8	87	42.6	47.9	53.1	1990.6	29.74	W27X194	A2 (PZC 18)
		8647.1	2209	208	233.7	259.3	271833.9	9.06	W690X289	
88-2145	IZ®	163.5	84.4	34.7	40.1	45.6	2233.7	29.77	W33X130	A2 (PZC 18)
		8791.5	2145	169.6	196	222.4	305026.2	9.07	W840X193	
88-2285	IZ®	163.5	90	81.9	87	92.1	1562.2	29.08	W14X500	A2 (PZC 18)
		8792.9	2285	400	424.8	449.6	213334.2	8.86	W360X744	
89-2234	IZ®	166	88	39.3	44.4	49.6	2172	30.49	W30X173	A2 (PZC 18)
		8923.8	2234	191.7	217	242.4	296605.8	9.29	W760X257	
90-2188	IZ®	167	86.1	50.7	56	61.3	1991.9	29.15	W24X250	A2 (PZC 18)
		8979.8	2188	247.7	273.6	299.5	272008.4	8.88	W610X372	
92-2146	IZ®	170.7	84.5	36.3	41.7	47.1	2361.1	29.8	W33X141	A2 (PZC 18)
		9175.9	2146	177.2	203.6	230	322432.1	9.08	W840X210	
92-2212	IZ®	171.3	87.1	45.8	51	56.2	2156.4	29.84	W27X217	A2 (PZC 18)
		9210.9	2212	223.4	249	274.6	294474.2	9.09	W690X323	
94-2235	IZ®	175	88	41.7	46.9	52.1	2321.9	30.53	W30X191	A2 (PZC 18)
		9407.4	2235	203.5	228.9	254.2	317072.9	9.3	W760X284	
95-2290	IZ®	177.1	90.2	88.2	93.3	98.3	1742.2	29.25	W14X550	A2 (PZC 18)
		9522.7	2290	430.7	455.4	480.2	237913.6	8.91	W360X818	

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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)	
95-2147	IZ®	177.4	84.5	37.8	43.3	48.7	2482	29.87	W33X152	A2 (PZC 18)
		9536.9	2147	184.8	211.2	237.6	338934.1	9.1	W840X226	
96-2157	IZ®	178.1	84.9	35.2	40.6	46	2585.9	30.33	W36X135	A2 (PZC 18)
		9576.2	2157	171.9	198.2	224.4	353129.1	9.24	W920X201	
96-2191	IZ®	178.4	86.3	54.7	60	65.3	2168.4	29.21	W24X279	A2 (PZC 18)
		9592.8	2191	267.1	292.9	318.8	296108.9	8.9	W610X415	
96-2213	IZ®	179.1	87.1	48.3	53.5	58.8	2282	29.87	W27X235	A2 (PZC 18)
		9627	2213	235.7	261.3	286.9	311631.6	9.1	W690X350	
99-2237	IZ®	184.8	88.1	44.4	49.6	54.7	2490.2	30.59	W30X211	A2 (PZC 18)
		9937.4	2237	216.7	242	267.3	340052.8	9.32	W760X314	
101-2145	IZ®	188.1	84.4	40.1	45.5	50.9	2675.7	29.87	W33X169	A2 (PZC 18)
		10114.7	2145	195.9	222.4	248.8	365392.1	9.1	W840X251	
102-2157	IZ®	189.1	84.9	37.4	42.8	48.1	2793.4	30.4	W36X150	A2 (PZC 18)
		10167.8	2157	182.5	208.7	235	381459.4	9.26	W920X223	
102-2215	IZ®	189.5	87.2	51.3	56.5	61.8	2452	29.94	W27X258	A2 (PZC 18)
		10186.6	2215	250.4	275.9	301.5	334837.7	9.12	W690X384	
102-2193	IZ®	189.6	86.3	58.3	63.6	68.9	2345.9	29.28	W24X306	A2 (PZC 18)
		10195.7	2193	284.7	310.6	336.4	320346.6	8.92	W610X455	
104-2295	IZ®	192.5	90.4	95.7	100.8	105.8	1953.2	29.38	W14X605	A2 (PZC 18)
		10351.3	2295	467.4	492.1	516.7	266724.3	8.95	W360X900	
105-2158	IZ®	195.2	85	38.8	44.1	49.5	2912	30.43	W36X160	A2 (PZC 18)
		10497.2	2158	189.3	215.6	241.8	397664.3	9.27	W920X238	
106-2253	IZ®	197.9	88.7	42.7	47.9	53	2849	31.25	W33X201	A2 (PZC 18)
		10641.7	2253	208.5	233.6	258.8	389063	9.52	W840X299	
106-2235	IZ®	198	88	47.7	52.8	58	2715.3	30.62	W30X235	A2 (PZC 18)
		10644.3	2235	232.7	258	283.3	370797.7	9.33	W760X350	
108-2217	IZ®	200.1	87.3	54.5	59.7	65	2628.7	30	W27X281	A2 (PZC 18)
		10756	2217	266.1	291.6	317.2	358969.1	9.14	W690X419	

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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)	
108-2153	IZ®	200.9	84.8	37.3	42.7	48.1	3122.7	30.72	W40X149	A2 (PZC 18)
		10802.2	2153	182.1	208.4	234.7	426425.9	9.36	W1000X222	
108-2196	IZ®	201.4	86.5	62.3	67.6	72.9	2536	29.38	W24X335	A2 (PZC 18)
		10827.5	2196	304.4	330.1	355.9	346309	8.95	W610X498	
108-2159	IZ®	201.5	85	40.2	45.5	50.9	3034	30.46	W36X170	A2 (PZC 18)
		10834.7	2159	196.1	222.4	248.6	414314.7	9.28	W920X253	
112-2160	IZ®	208.2	85	41.9	47.2	52.6	3166.7	30.49	W36X182	A2 (PZC 18)
		11194.2	2160	204.4	230.6	256.8	432442.5	9.29	W920X271	
112-2254	IZ®	208.9	88.7	45.4	50.5	55.7	3053.3	31.31	W33X221	A2 (PZC 18)
		11233.5	2254	221.6	246.8	271.9	416955.3	9.54	W840X329	
112-2301	IZ®	209	90.6	103.2	108.2	113.2	2192.8	29.54	W14X665	A2 (PZC 18)
		11237.4	2301	503.7	528.3	552.9	299441	9	W360X990	
113-2238	IZ®	210	88.1	51.2	56.4	61.5	2928.7	30.69	W30X261	A2 (PZC 18)
		11290.3	2238	249.9	275.2	300.5	399945.9	9.35	W760X389	
113-2220	IZ®	211	87.4	57.9	63.1	68.3	2814.2	30.07	W27X307	A2 (PZC 18)
		11343.3	2220	282.7	308.2	333.7	384298.7	9.16	W690X457	
115-2161	IZ®	214.6	85.1	43.5	48.8	54.2	3295.7	30.53	W36X194	A2 (PZC 18)
		11539.9	2161	212.3	238.5	264.7	450056.6	9.3	W920X289	
116-2200	IZ®	215.5	86.6	67.1	72.4	77.7	2770.3	29.48	W24X370	A2 (PZC 18)
		11586.2	2200	327.7	353.5	379.2	378313.9	8.98	W610X551	
116-2153	IZ®	215.8	84.8	39.8	45.2	50.6	3421.9	30.79	W40X167	A2 (PZC 18)
		11603.1	2153	194.5	220.8	247.1	467288.9	9.38	W1000X249	
118-2256	IZ®	219.6	88.8	48.1	53.2	58.3	3252.8	31.38	W33X241	A2 (PZC 18)
		11808.1	2256	234.7	259.8	284.9	444193.3	9.56	W840X359	
120-2162	IZ®	223.3	85.1	45.8	51.1	56.5	3470.4	30.56	W36X210	A2 (PZC 18)
		12003.7	2162	223.5	249.7	275.8	473916.4	9.31	W920X313	
121-2223	IZ®	224.1	87.5	61.8	67	72.2	3041.6	30.17	W27X336	A2 (PZC 18)
		12047	2223	301.7	327.2	352.7	415362	9.19	W690X500	

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121-2240	IZ®	225.5	88.2	55.3	60.5	65.7	3205.4	30.76	W30X292	A2 (PZC 18)
		12122.6	2240	270	295.3	320.6	437726.1	9.37	W760X434	
122-2271	IZ®	226.5	89.4	46.2	51.3	56.4	3485	31.87	W36X230	A2 (PZC 18)
		12178.9	2271	225.5	250.5	275.4	475901	9.71	W920X342	
123-2307	IZ®	227.9	90.8	111.3	116.3	121.3	2471.2	29.71	W14X730	A2 (PZC 18)
		12253.5	2307	543.2	567.8	592.3	337468.9	9.05	W360X1086	
124-2153	IZ®	230.1	84.8	42.1	47.5	52.9	3713.6	30.85	W40X183	A2 (PZC 18)
		12370.7	2153	205.4	231.7	258	507122.7	9.4	W1000X272	
124-2253	IZ®	231.4	88.7	42.3	47.5	52.6	3739.7	32.1	W40X199	A2 (PZC 18)
		12439.5	2253	206.8	231.9	257	510691.7	9.78	W1000X296	
126-2254	IZ®	233.4	88.7	51.1	56.2	61.4	3513.8	31.38	W33X263	A2 (PZC 18)
		12548.4	2254	249.5	274.6	299.8	479845.7	9.56	W840X392	
126-2272	IZ®	235.1	89.4	48.2	53.3	58.4	3652.6	31.9	W36X245	A2 (PZC 18)
		12642.4	2272	235.4	260.4	285.3	498792.9	9.72	W920X365	
128-2225	IZ®	238	87.6	66.1	71.4	76.6	3287.2	30.23	W27X368	A2 (PZC 18)
		12793.7	2225	323	348.4	373.9	448896	9.21	W690X548	
128-2161	IZ®	238.4	85.1	48.8	54.1	59.5	3777.3	30.59	W36X232	A2 (PZC 18)
		12818.1	2161	238.1	264.3	290.5	515822.6	9.32	W920X345	
130-2243	IZ®	241.2	88.3	59.8	65	70.2	3493.9	30.85	W30X326	A2 (PZC 18)
		12966	2243	292	317.3	342.5	477117.1	9.4	W760X484	
131-2324	IZ®	242.9	91.5	120.8	125.8	130.8	2687.8	29.87	W14X808	A2 (PZC 18)
		13061.2	2324	589.9	614.3	638.6	367038	9.1	W360X1202	
131-2273	IZ®	243.7	89.5	50.2	55.3	60.4	3823.4	31.94	W36X260	A2 (PZC 18)
		13101.9	2273	245	269.9	294.8	522118	9.73	W920X387	
132-2253	IZ®	245.4	88.7	44.6	49.8	54.9	4026.9	32.17	W40X215	A2 (PZC 18)
		13194	2253	217.9	243.1	268.2	549915.6	9.8	W1000X321	
133-2153	IZ®	246.6	84.8	46	51.4	56.8	4072.1	30.89	W40X211	A2 (PZC 18)
		13256.5	2153	224.8	251.1	277.4	556085.5	9.41	W1000X314	

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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)	
133-2257	IZ®	247.7	88.9	54.8	60	65.1	3791	31.48	W33X291	A2 (PZC 18)
		13317.5	2257	267.6	292.7	317.8	517689.6	9.59	W840X433	
135-2163	IZ®	251.7	85.2	52.2	57.6	62.9	4055.3	30.66	W36X256	A2 (PZC 18)
		13531.4	2163	254.9	281.1	307.3	553784.3	9.34	W920X381	
137-2275	IZ®	255.6	89.6	52.9	58	63.1	4065.1	32	W36X280	A2 (PZC 18)
		13744.6	2275	258.2	283.1	308	555124.8	9.75	W920X417	
138-2246	IZ®	256.3	88.4	64	69.1	74.3	3778.4	30.95	W30X357	A2 (PZC 18)
		13780	2246	312.3	337.5	362.7	515971.4	9.43	W760X531	
140-2155	IZ®	260.5	84.8	49.3	54.7	60.1	4379	30.95	W40X235	A2 (PZC 18)
		14006.7	2155	240.9	267.2	293.5	597991.3	9.43	W1000X350	
141-2259	IZ®	261.9	88.9	58.4	63.5	68.7	4069.1	31.54	W33X318	A2 (PZC 18)
		14078.4	2259	285.1	310.2	335.2	555667.1	9.61	W840X473	
143-2253	IZ®	265.5	88.7	49.2	54.3	59.5	4458	32.2	W40X249	A2 (PZC 18)
		14272.7	2253	240.2	265.4	290.5	608775.2	9.81	W1000X371	
143-2276	IZ®	266.4	89.6	55.6	60.7	65.7	4281.7	32.04	W36X300	A2 (PZC 18)
		14321.5	2276	271.2	296.1	321	584709.9	9.76	W920X446	
146-2249	IZ®	272.2	88.5	68.6	73.7	78.9	4082.5	31.02	W30X391	A2 (PZC 18)
		14632.9	2249	334.9	360.1	385.2	557504	9.45	W760X582	
148-2156	IZ®	275.1	84.9	53.4	58.8	64.2	4709.5	31.02	W40X264	A2 (PZC 18)
		14788.7	2156	260.9	287.1	313.4	643124	9.45	W1000X393	
150-2253	IZ®	278	88.7	46.6	51.8	56.9	4994.8	32.79	W44X230	A2 (PZC 18)
		14947.5	2253	227.7	252.8	277.9	682089.8	9.99	W1100X343	
151-2262	IZ®	279.9	89.1	63.1	68.3	73.4	4431	31.61	W33X354	A2 (PZC 18)
		15048.7	2262	308.3	333.4	358.4	605087.7	9.63	W840X527	
151-2255	IZ®	281.5	88.8	52.9	58	63.2	4809.4	32.27	W40X277	A2 (PZC 18)
		15136.5	2255	258.1	283.2	308.3	656760	9.83	W1000X412	
152-2275	IZ®	282.1	89.6	59.3	64.4	69.5	4608.3	32.07	W36X328	A2 (PZC 18)
		15167.9	2275	289.3	314.2	339.1	629300.8	9.77	W920X488	

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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)	
152-2157	IZ®	282.5	84.9	55.5	60.9	66.2	4878.5	31.02	W40X278	A2 (PZC 18)
		15185.7	2157	270.9	297.2	323.4	666205.3	9.45	W1000X415	
156-2255	IZ®	290.5	88.8	55.6	60.8	65.9	5013.3	32.27	W40X297	A2 (PZC 18)
		15616.2	2255	271.7	296.8	321.9	684604.3	9.83	W1000X443	
159-2264	IZ®	296.5	89.1	67.6	72.7	77.8	4774.5	31.71	W33X387	A2 (PZC 18)
		15942.7	2264	329.9	354.9	379.9	652000.5	9.66	W840X576	
160-2278	IZ®	297.9	89.7	63.3	68.4	73.5	4939.6	32.13	W36X359	A2 (PZC 18)
		16014.5	2278	308.9	333.8	358.6	674539.9	9.79	W920X534	
162-2253	IZ®	300.5	88.7	51	56.1	61.3	5518.3	32.86	W44X262	A2 (PZC 18)
		16157.3	2253	248.9	274.1	299.2	753568.7	10.01	W1100X390	
165-2257	IZ®	307.2	88.9	59.2	64.4	69.5	5382.7	32.36	W40X324	A2 (PZC 18)
		16515.9	2257	289.2	314.3	339.4	735061	9.86	W1000X483	
167-2161	IZ®	310.6	85.1	62.2	67.5	72.9	5522.1	31.15	W40X327	A2 (PZC 18)
		16698	2161	303.5	329.7	355.9	754092.5	9.49	W1000X486	
168-2162	IZ®	312	85.1	62.9	68.2	73.6	5554.9	31.18	W40X331	A2 (PZC 18)
		16772.2	2162	307	333.2	359.4	758570.8	9.5	W1000X494	
168-2240	IZ®	313	88.2	88.7	93.9	99.1	4706	30.69	W27X539	A2 (PZC 18)
		16826.6	2240	433.3	458.6	483.9	642639.8	9.35	W690X802	
170-2280	IZ®	316.1	89.8	67.9	73	78	5332	32.23	W36X393	A2 (PZC 18)
		16994	2280	331.4	356.2	381	728128.1	9.82	W920X585	
171-2255	IZ®	318.5	88.8	54.9	60	65.1	5950.7	32.92	W44X290	A2 (PZC 18)
		17125.7	2255	267.9	293	318.1	812624.7	10.03	W1100X433	
176-2260	IZ®	327.5	89	64.3	69.4	74.5	5847.4	32.43	W40X362	A2 (PZC 18)
		17607.1	2260	313.8	338.9	363.9	798516.7	9.88	W1000X539	
179-2261	IZ®	332	89	65.6	70.7	75.9	5952.6	32.46	W40X372	A2 (PZC 18)
		17849.3	2261	320.3	345.3	370.4	812885.6	9.89	W1000X554	
183-2284	IZ®	340.3	89.9	73.8	78.9	84	5856.5	32.33	W36X439	A2 (PZC 18)
		18296.1	2284	360.3	385.1	409.9	799754.4	9.85	W920X653	

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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)	
184-2258	IZ®	341.7	88.9	60.6	65.7	70.8	6522.7	32.99	W44X335	A2 (PZC 18)
		18368.7	2258	295.7	320.7	345.8	890735.3	10.05	W1100X499	
187-2167	IZ®	347.4	85.3	71.3	76.6	82	6389.7	31.35	W40X392	A2 (PZC 18)
		18676.2	2167	347.9	374.1	400.2	872571	9.55	W1000X584	
187-2262	IZ®	347.7	89.1	68.9	74	79.2	6312.9	32.49	W40X397	A2 (PZC 18)
		18691.4	2262	336.4	361.5	386.5	862077.3	9.9	W1000X591	
197-2265	IZ®	365.7	89.2	73.4	78.5	83.7	6733.6	32.59	W40X431	A2 (PZC 18)
		19658.8	2265	358.5	383.5	408.5	919528	9.93	W1000X642	
208-2290	IZ®	387.1	90.2	85.3	90.3	95.4	6906.8	32.53	W36X527	A2 (PZC 18)
		20810.4	2290	416.3	441	465.8	943189.3	9.91	W920X784	
219-2270	IZ®	406.9	89.4	83	88.1	93.2	7722.2	32.76	W40X503	A2 (PZC 18)
		21878.4	2270	405.1	430	455	1054534.5	9.98	W1000X748	
243-2299	IZ®	451.9	90.5	101.2	106.2	111.2	8426.6	32.79	W36X650	A2 (PZC 18)
		24295.3	2299	493.9	518.5	543.2	1150721.1	9.99	W920X967	
247-2277	IZ®	459.2	89.6	95.1	100.2	105.3	9010.5	32.95	W40X593	A2 (PZC 18)
		24687.9	2277	464.2	489.1	513.9	1230461.6	10.04	W1000X883	
286-2310	IZ®	532.1	90.9	120.2	125.2	130.2	10402.7	33.12	W36X798	A2 (PZC 18)
		28609.6	2310	586.7	611.2	635.7	1420578.6	10.09	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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