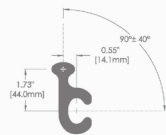


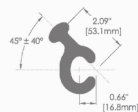
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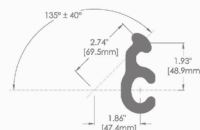
PilePro® Sheet Pile Connectors



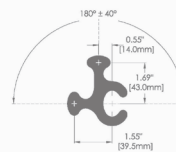
PZ 90



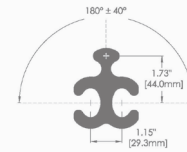
Colt



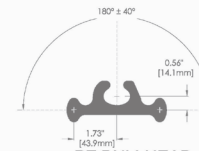
Cobra



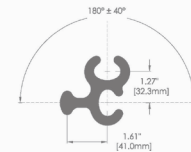
PZ Tee



Joker



Bullhead



PZT-S

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



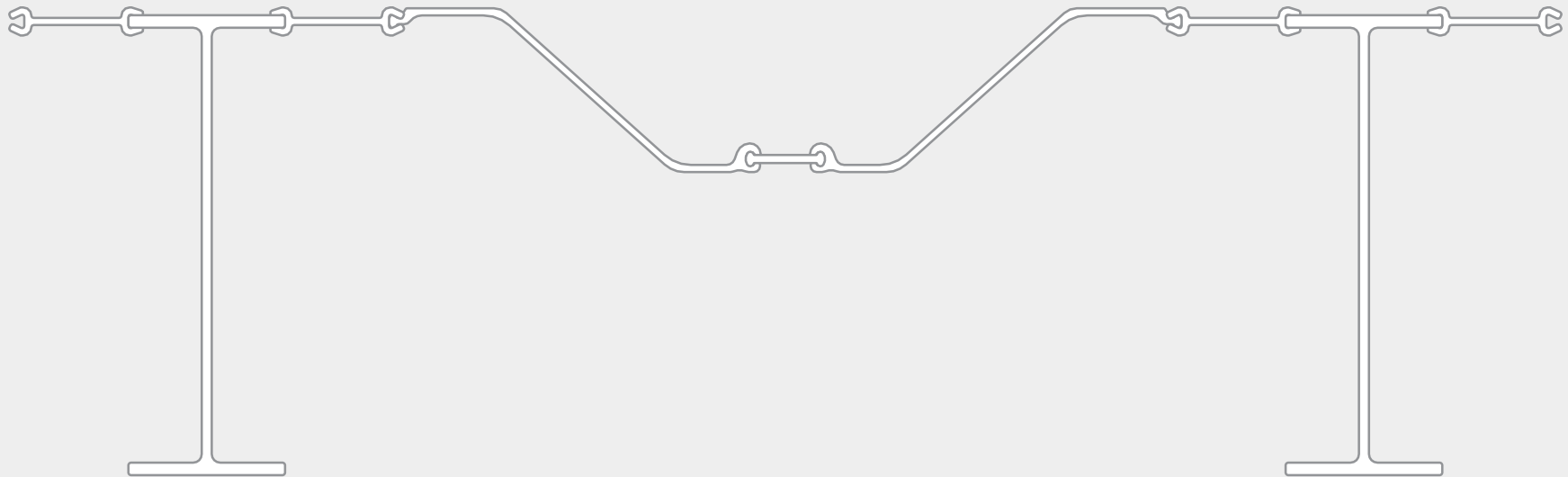
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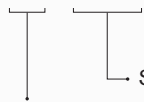


Configuration B2 (PZC 18)



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)	
27-1993	IZ®	50.5	78.5	17.8	22.4	27.1	320.5	20.87	W16X26	B2 (PZC 18)
		2716.7	1993	87.1	109.6	132.1	43771.9	6.36	W410X38.8	
28-1993	IZ®	52	78.5	18.6	23.2	27.8	332.7	20.87	W16X31	B2 (PZC 18)
		2796.2	1993	90.7	113.2	135.7	45439.3	6.36	W410X46.1	
28-2030	IZ®	52.6	79.9	19	23.5	28	338.4	21.36	W16X36	B2 (PZC 18)
		2825.6	2030	92.7	114.8	136.9	46206.1	6.51	W410X53	
29-2031	IZ®	53.9	80	19.6	24.1	28.6	349.5	21.4	W16X40	B2 (PZC 18)
		2896.4	2031	95.6	117.7	139.8	47722.2	6.52	W410X60	
29-2005	IZ®	54.1	78.9	19.1	23.7	28.2	357.1	21.33	W18X35	B2 (PZC 18)
		2906.4	2005	93.1	115.5	137.9	48758.6	6.5	W460X52	
30-2032	IZ®	55.1	80	20.3	24.9	29.4	360.2	21.43	W16X45	B2 (PZC 18)
		2961.5	2032	99.3	121.4	143.5	49194.1	6.53	W410X67	
30-2006	IZ®	56	79	19.8	24.4	29	374.5	21.4	W18X40	B2 (PZC 18)
		3011.7	2006	96.8	119.2	141.5	51136.2	6.52	W460X60	
30-2033	IZ®	56.4	80	21.1	25.6	30.1	371.8	21.46	W16X50	B2 (PZC 18)
		3031.7	2033	102.9	125	147.1	50768.5	6.54	W410X75	
31-2007	IZ®	57.8	79	20.7	25.3	29.9	391.3	21.43	W18X46	B2 (PZC 18)
		3106.3	2007	101.2	123.6	145.9	53435.6	6.53	W460X68	
31-2034	IZ®	58.2	80.1	22.1	26.6	31.1	387.6	21.5	W16X57	B2 (PZC 18)
		3127	2034	107.9	129.9	152	52934.5	6.55	W410X85	
31-2043	IZ®	58.5	80.4	20.9	25.4	29.9	398.1	21.89	W18X50	B2 (PZC 18)
		3145	2043	102.2	124.2	146.1	54369	6.67	W460X74	
32-2251	IZ®	59.5	88.6	24.1	28.2	32.3	396	24.12	HP16x88	B2 (PZC 18)
		3196.7	2251.5	117.8	137.7	157.7	54081.7	7.35	HP410x131	
32-2018	IZ®	60	79.4	20.3	24.9	29.4	422.9	21.99	W21X44	B2 (PZC 18)
		3227.3	2018	99.3	121.5	143.7	57748.4	6.7	W530X66	
32-2044	IZ®	60.1	80.5	21.7	26.2	30.7	413.3	21.89	W18X55	B2 (PZC 18)
		3229.5	2044	106.2	128.1	150.1	56439	6.67	W460X82	

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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)	
32-2113	IZ®	60.1	83.2	22.9	27.2	31.6	404.7	22.51	W16X67	B2 (PZC 18)
		3232.8	2113	111.6	132.9	154.1	55267.5	6.86	W410X100	
33-2060	IZ®	60.9	81.1	20.5	25	29.4	432.9	22.55	W21X48	B2 (PZC 18)
		3275.4	2060	100.1	121.9	143.6	59114.1	6.87	W530X72	
33-2045	IZ®	61.7	80.5	22.4	26.9	31.4	428.3	21.92	W18X60	B2 (PZC 18)
		3315.3	2045	109.6	131.5	153.4	58492.1	6.68	W460X89	
34-2019	IZ®	62.6	79.5	21.2	25.8	30.3	448	22.02	W21X50	B2 (PZC 18)
		3363	2019	103.6	125.8	148	61171.9	6.71	W530X74	
34-2253	IZ®	62.6	88.7	26	30.1	34.2	422.6	24.19	HP16x101	B2 (PZC 18)
		3366.7	2253	126.9	146.9	166.8	57712.9	7.37	HP410x151	
34-2114	IZ®	62.8	83.2	24.3	28.6	33	428.5	22.55	W16X77	B2 (PZC 18)
		3374	2114	118.6	139.8	161.1	58508.7	6.87	W410X114	
34-2046	IZ®	63.2	80.6	23.1	27.6	32.1	443	21.96	W18X65	B2 (PZC 18)
		3397.1	2046	113	134.9	156.8	60500.5	6.69	W460X97	
35-2062	IZ®	64.1	81.2	21.6	26	30.5	464.1	22.58	W21X55	B2 (PZC 18)
		3446.6	2062	105.2	127	148.8	63381.7	6.88	W530X82	
35-2047	IZ®	64.8	80.6	24.1	28.6	33	459.9	21.99	W18X71	B2 (PZC 18)
		3486.2	2047	117.5	139.4	161.4	62800.9	6.7	W460X106	
35-2133	IZ®	65.3	84	23.8	28.1	32.4	463.7	23.07	W18X76	B2 (PZC 18)
		3512.4	2133	116.1	137.1	158.2	63320.5	7.03	W460X113	
35-2019	IZ®	65.8	79.5	22.3	26.8	31.4	480.6	22.05	W21X57	B2 (PZC 18)
		3538.3	2019	108.7	130.9	153.1	65623.9	6.72	W530X85	
36-2116	IZ®	65.9	83.3	26	30.4	34.7	457.4	22.61	W16X89	B2 (PZC 18)
		3545.5	2116	127	148.2	169.4	62468.6	6.89	W410X132	
36-2256	IZ®	67.2	88.8	28.7	32.7	36.8	463.5	24.25	HP16x121	B2 (PZC 18)
		3612.3	2256.2	140	159.9	179.8	63299.9	7.39	HP410x181	
36-2062	IZ®	67.3	81.2	22.6	27	31.5	496.3	22.61	W21X62	B2 (PZC 18)
		3620.6	2062	110.2	131.9	153.7	67780.3	6.89	W530X92	

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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)	
37-2135	IZ®	68.5	84.1	25.2	29.5	33.8	493.8	23.14	W18X86	B2 (PZC 18)
		3681.3	2135	123	144	165	67430.4	7.05	W460X128	
37-2118	IZ®	69	83.4	27.6	31.9	36.3	486.3	22.64	W16X100	B2 (PZC 18)
		3710.3	2118	134.7	155.9	177.1	66411	6.9	W410X149	
37-2031	IZ®	69.4	80	21.9	26.4	30.9	528.3	22.64	W24X55	B2 (PZC 18)
		3729.8	2031	106.8	128.9	151	72147.9	6.9	W610X82	
38-2063	IZ®	69.8	81.2	23.4	27.9	32.3	522.3	22.64	W21X68	B2 (PZC 18)
		3755.2	2063	114.3	136.1	157.8	71322.4	6.9	W530X101	
39-2259	IZ®	71.7	89	31.3	35.4	39.5	502.3	24.28	HP16x141	B2 (PZC 18)
		3853.7	2259.4	153	172.9	192.8	68592.2	7.4	HP410x211	
39-2064	IZ®	71.7	81.3	24.2	28.6	33.1	542.7	22.68	W21X73	B2 (PZC 18)
		3857.5	2064	118.1	139.8	161.5	74106.2	6.91	W530X109	
39-2136	IZ®	72	84.1	26.8	31.1	35.4	528	23.17	W18X97	B2 (PZC 18)
		3868.4	2136	130.6	151.6	172.6	72107.4	7.06	W460X144	
39-2032	IZ®	72.8	80	22.9	27.4	31.9	565.9	22.68	W24X62	B2 (PZC 18)
		3914.2	2032	111.8	133.9	156	77281.3	6.91	W610X92	
40-2304	IZ®	74.2	90.7	29.9	33.9	37.9	545.9	25.14	HP18x135	B2 (PZC 18)
		3991.4	2303.8	146.1	165.6	185.1	74546.5	7.66	HP360x202	
40-2137	IZ®	74.5	84.1	28	32.3	36.6	554.1	23.2	W18X106	B2 (PZC 18)
		4004.8	2137	136.8	157.8	178.8	75673.7	7.07	W460X158	
41-2065	IZ®	75.4	81.3	25.6	30	34.5	582.2	22.71	W21X83	B2 (PZC 18)
		4053.5	2065	124.9	146.6	168.3	79505.3	6.92	W530X123	
41-2081	IZ®	75.5	81.9	23.2	27.6	32	595.4	23.33	W24X68	B2 (PZC 18)
		4061.3	2081	113.3	134.9	156.5	81304.8	7.11	W610X101	
41-2263	IZ®	76.5	89.1	34.1	38.1	42.2	547.3	24.38	HP16x162	B2 (PZC 18)
		4115.4	2262.6	166.3	186.1	205.9	74734.3	7.43	HP410x242	
42-2139	IZ®	78.7	84.2	29.9	34.2	38.5	597.2	23.23	W18X119	B2 (PZC 18)
		4232.3	2139	145.9	166.8	187.8	81547.6	7.08	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)	
43-2067	IZ®	79	81.4	27	31.5	35.9	622.7	22.74	W21X93	B2 (PZC 18)
		4247.3	2067	132	153.7	175.4	85038.1	6.93	W530X138	
43-2307	IZ®	79.6	90.8	32.7	36.7	40.7	597.2	25.2	HP18x157	B2 (PZC 18)
		4280.1	2307	159.8	179.2	198.7	81547	7.68	HP360x234	
43-2081	IZ®	79.8	81.9	24.4	28.8	33.2	642.9	23.37	W24X76	B2 (PZC 18)
		4291.4	2081	119	140.6	162.1	87789.9	7.12	W610X113	
44-2272	IZ®	81.1	89.5	36.8	40.9	44.9	590.3	24.51	HP16x183	B2 (PZC 18)
		4360.9	2272.1	179.8	199.6	219.3	80609	7.47	HP410x272	
44-2165	IZ®	81.3	85.2	27	31.2	35.5	644.7	24.02	W21X101	B2 (PZC 18)
		4369.4	2165	131.8	152.5	173.2	88041.7	7.32	W530X150	
44-2252	IZ®	81.9	88.7	38.4	42.5	46.5	574	24.12	W14X193	B2 (PZC 18)
		4401.8	2252	187.3	207.3	227.2	78381.8	7.35	W360X287	
45-2136	IZ®	82.8	84.1	31.5	35.8	40.1	639.8	23.27	W18X130	B2 (PZC 18)
		4452.9	2136	153.8	174.8	195.8	87369	7.09	W460X193	
45-2082	IZ®	83.9	82	25.5	29.9	34.3	688.8	23.4	W24X84	B2 (PZC 18)
		4508.4	2082	124.6	146.1	167.7	94062.9	7.13	W610X125	
46-2166	IZ®	84.7	85.3	28.4	32.6	36.9	682.7	24.06	W21X111	B2 (PZC 18)
		4551.9	2166	138.6	159.3	180	93229.3	7.33	W530X165	
46-2254	IZ®	86	88.7	40.8	44.8	48.9	611.6	24.15	W14X211	B2 (PZC 18)
		4621.3	2254	199	218.9	238.8	83523.1	7.36	W360X314	
46-2310	IZ®	86	91	35.8	39.8	43.8	659.6	25.27	HP18x181	B2 (PZC 18)
		4624.9	2310.2	174.9	194.3	213.7	90071.5	7.7	HP360x269	
47-2138	IZ®	87.1	84.2	33.3	37.6	41.9	684.7	23.3	W18X143	B2 (PZC 18)
		4681.3	2138	162.5	183.4	204.4	93507.8	7.1	W460X213	
48-2083	IZ®	88.5	82	27.1	31.5	35.9	745.3	23.43	W24X94	B2 (PZC 18)
		4760.4	2083	132.1	153.6	175.1	101773.4	7.14	W610X140	
48-2168	IZ®	88.7	85.4	29.8	34.1	38.3	728.2	24.09	W21X122	B2 (PZC 18)
		4767.9	2168	145.7	166.4	187.1	99443.6	7.34	W530X182	

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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)	
48-2183	IZ®	89.8	85.9	47.8	52	56.3	637	23.1	W12X252	B2 (PZC 18)
		4828.7	2183	233.5	254.1	274.6	86986.7	7.04	W310X375	
49-2177	IZ®	90.7	85.7	27.3	31.5	35.7	772.2	24.61	W24X104	B2 (PZC 18)
		4875.5	2177	133.2	153.8	174.4	105448.3	7.5	W610X155	
49-2106	IZ®	90.8	82.9	25.3	29.7	34	788.6	24.12	W27X84	B2 (PZC 18)
		4879.7	2106	123.5	144.8	166.1	107696.5	7.35	W690X125	
49-2257	IZ®	90.8	88.9	43.7	47.8	51.8	658.8	24.25	W14X233	B2 (PZC 18)
		4882.9	2257	213.4	233.2	253.1	89966.1	7.39	W360X347	
49-2140	IZ®	91.5	84.3	35.3	39.6	43.9	733.5	23.37	W18X158	B2 (PZC 18)
		4920.5	2140	172.6	193.5	214.5	100166.5	7.12	W460X235	
50-2313	IZ®	92.2	91.1	38.9	42.9	46.9	724.2	25.33	HP18x204	B2 (PZC 18)
		4957.5	2313.4	190	209.4	228.8	98895.5	7.72	HP460x304	
50-2169	IZ®	92.3	85.4	31.2	35.5	39.7	769.4	24.12	W21X132	B2 (PZC 18)
		4964.6	2169	152.5	173.2	193.9	105072.3	7.35	W530X196	
50-2082	IZ®	93.1	82	28.3	32.7	37.1	800	23.43	W24X103	B2 (PZC 18)
		5007.9	2082	138.2	159.7	181.3	109252.2	7.14	W610X153	
51-2187	IZ®	95.6	86.1	51.4	55.6	59.8	696.4	23.2	W12X279	B2 (PZC 18)
		5141	2187	251.1	271.6	292.1	95099.4	7.07	W310X415	
52-2259	IZ®	96.3	88.9	46.9	51	55.1	713.3	24.32	W14X257	B2 (PZC 18)
		5175	2259	229.2	249	268.9	97408.5	7.41	W360X382	
52-2178	IZ®	96.5	85.7	29	33.3	37.5	841.7	24.65	W24X117	B2 (PZC 18)
		5186.8	2178	141.8	162.4	183	114936.7	7.51	W610X174	
52-2107	IZ®	96.9	83	26.7	31	35.4	863.5	24.19	W27X94	B2 (PZC 18)
		5207.4	2107	130.2	151.5	172.8	117918.5	7.37	W690X140	
52-2142	IZ®	97.3	84.3	37.7	42	46.3	797.3	23.43	W18X175	B2 (PZC 18)
		5231	2142	184.1	205.1	226	108883	7.14	W460X260	
53-2171	IZ®	97.8	85.5	33.4	37.6	41.8	833.6	24.19	W21X147	B2 (PZC 18)
		5258.2	2171	162.9	183.5	204.2	113831.2	7.37	W530X219	

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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)	
55-2189	IZ®	101.7	86.2	55	59.2	63.4	760.2	23.3	W12X305	B2 (PZC 18)
		5465.5	2189	268.8	289.3	309.7	103818.6	7.1	W310X454	
55-2107	IZ®	101.8	83	27.9	32.2	36.6	925.8	24.22	W27X102	B2 (PZC 18)
		5470.7	2107	136.2	157.4	178.7	126431.4	7.38	W690X152	
55-2117	IZ®	102.3	83.3	25.9	30.3	34.6	953.7	24.74	W30X90	B2 (PZC 18)
		5501.8	2117	126.6	147.8	169	130241.3	7.54	W760X134	
55-2180	IZ®	102.6	85.8	31	35.2	39.4	918.7	24.71	W24X131	B2 (PZC 18)
		5517.9	2180	151.4	172	192.6	125451.4	7.53	W610X195	
55-2262	IZ®	102.7	89.1	50.4	54.4	58.5	777.5	24.38	W14X283	B2 (PZC 18)
		5520	2262	245.9	265.7	285.5	106172.5	7.43	W360X421	
57-2168	IZ®	106.7	85.4	36.1	40.3	44.6	937.7	24.19	W21X166	B2 (PZC 18)
		5737.6	2168	176.1	196.8	217.5	128047.6	7.37	W530X248	
58-2118	IZ®	107.1	83.4	27.3	31.6	36	1022.7	24.78	W30X99	B2 (PZC 18)
		5757.1	2118	133.2	154.4	175.6	139652.7	7.55	W760X147	
58-2109	IZ®	107.6	83	29.5	33.9	38.3	1004.3	24.25	W27X114	B2 (PZC 18)
		5783.6	2109	144.2	165.5	186.8	137148.1	7.39	W690X170	
58-2193	IZ®	108.5	86.3	59.3	63.5	67.7	834	23.4	W12X336	B2 (PZC 18)
		5833.9	2193	289.4	309.8	330.3	113887.6	7.13	W310X500	
59-2265	IZ®	109.1	89.2	54.1	58.1	62.2	845.5	24.48	W14X311	B2 (PZC 18)
		5863.2	2265	263.9	283.7	303.5	115465.8	7.46	W360X463	
59-2181	IZ®	110.1	85.9	33.1	37.3	41.5	1009.6	24.78	W24X146	B2 (PZC 18)
		5917.1	2181	161.4	182	202.5	137863.1	7.55	W610X217	
60-2171	IZ®	112.4	85.5	38.3	42.6	46.8	1008.5	24.25	W21X182	B2 (PZC 18)
		6043.9	2171	187.1	207.8	228.4	137723.2	7.39	W530X272	
61-2119	IZ®	113.2	83.4	28.6	32.9	37.2	1106.1	24.81	W30X108	B2 (PZC 18)
		6084.1	2119	139.5	160.6	181.8	151043.2	7.56	W760X161	
63-2107	IZ®	116.3	83	31.7	36.1	40.4	1121.6	24.28	W27X129	B2 (PZC 18)
		6252	2107	154.8	176.1	197.4	153165	7.4	W690X192	

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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)	
63-2269	IZ®	116.5	89.3	58.1	62.2	66.2	926.9	24.58	W14X342	B2 (PZC 18)
		6264.6	2269	283.8	303.6	323.4	126575.4	7.49	W360X509	
63-2182	IZ®	117.1	85.9	35.3	39.5	43.8	1101.7	24.81	W24X162	B2 (PZC 18)
		6294	2182	172.5	193	213.6	150449.6	7.56	W610X241	
64-2120	IZ®	118.8	83.5	29.8	34.1	38.4	1184.2	24.84	W30X116	B2 (PZC 18)
		6385.3	2120	145.3	166.5	187.6	161713.9	7.57	W760X173	
64-2172	IZ®	119.6	85.5	41	45.2	49.4	1099.2	24.32	W21X201	B2 (PZC 18)
		6430.4	2172	200	220.7	241.3	150104.9	7.41	W530X300	
66-2208	IZ®	122.3	86.9	32.7	36.9	41.1	1201.9	25.56	W27X146	B2 (PZC 18)
		6574.1	2208	159.8	180.1	200.4	164125.1	7.79	W690X217	
67-2180	IZ®	123.6	85.8	37.2	41.4	45.6	1186.7	24.81	W24X176	B2 (PZC 18)
		6646.4	2180	181.6	202.2	222.8	162053.3	7.56	W610X262	
67-2271	IZ®	123.7	89.4	61.8	65.9	69.9	1005.1	24.65	W14X370	B2 (PZC 18)
		6651	2271	301.9	321.7	341.4	137258.3	7.51	W360X551	
67-2120	IZ®	124.1	83.5	30.8	35.2	39.5	1258.1	24.88	W30X124	B2 (PZC 18)
		6669.6	2120	150.5	171.7	192.8	171806.7	7.58	W760X185	
69-2121	IZ®	128.7	83.5	32	36.4	40.7	1328.9	24.91	W30X132	B2 (PZC 18)
		6919.2	2121	156.4	177.5	198.7	181470.2	7.59	W760X196	
70-2209	IZ®	129.5	87	34.8	39	43.1	1305.3	25.6	W27X161	B2 (PZC 18)
		6963	2209	170	190.3	210.6	178250.8	7.8	W690X240	
70-2182	IZ®	129.9	85.9	39.4	43.6	47.8	1273.8	24.88	W24X192	B2 (PZC 18)
		6984.8	2182	192.3	212.8	233.4	173953.1	7.58	W610X285	
70-2274	IZ®	130.4	89.5	65.5	69.5	73.6	1083.6	24.71	W14X398	B2 (PZC 18)
		7010.8	2274	319.8	339.5	359.3	147978.9	7.53	W360X592	
70-2145	IZ®	130.6	84.4	29.6	33.9	38.2	1388.6	25.66	W33X118	B2 (PZC 18)
		7022.1	2145	144.7	165.6	186.6	189630.9	7.82	W840X176	
73-2183	IZ®	136.5	85.9	41.5	45.7	49.9	1364.6	24.91	W24X207	B2 (PZC 18)
		7337.5	2183	202.6	223.2	243.7	186347.1	7.59	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)	
74-2211	IZ®	137	87	37.1	41.3	45.4	1414.2	25.66	W27X178	B2 (PZC 18)
		7365.7	2211	181.2	201.5	221.8	193124	7.82	W690X265	
74-2277	IZ®	137.7	89.6	69.2	73.2	77.2	1168.2	24.81	W14X426	B2 (PZC 18)
		7405.2	2277	337.7	357.4	377.1	159534.8	7.56	W360X634	
75-2119	IZ®	139.3	83.4	34.3	38.7	43	1486.5	24.94	W30X148	B2 (PZC 18)
		7490.7	2119	167.6	188.8	210	202994.9	7.6	W760X220	
75-2145	IZ®	139.4	84.4	31.4	35.6	39.9	1523.6	25.7	W33X130	B2 (PZC 18)
		7495.7	2145	153.1	174.1	195	208062.3	7.83	W840X193	
78-2281	IZ®	144.3	89.8	72.9	76.9	81	1249.3	24.91	W14X455	B2 (PZC 18)
		7759.9	2281	356	375.7	395.3	170601.7	7.59	W360X677	
78-2186	IZ®	145.4	86.1	44.5	48.7	52.9	1491.6	25.01	W24X229	B2 (PZC 18)
		7816	2186	217.4	237.9	258.5	203694.1	7.62	W610X341	
79-2209	IZ®	146.4	87	39.3	43.5	47.7	1547.9	25.66	W27X194	B2 (PZC 18)
		7869.5	2209	192.1	212.4	232.7	211381.2	7.82	W690X289	
79-2146	IZ®	147.4	84.5	32.9	37.2	41.5	1650.2	25.73	W33X141	B2 (PZC 18)
		7923	2146	160.7	181.7	202.6	225353.1	7.84	W840X210	
80-2234	IZ®	149.2	88	36	40.1	44.2	1636.4	26.42	W30X173	B2 (PZC 18)
		8019.7	2234	175.9	195.9	216	223463.6	8.05	W760X257	
82-2157	IZ®	151.5	84.9	31.9	36.1	40.4	1758.6	26.25	W36X135	B2 (PZC 18)
		8145.7	2157	155.6	176.4	197.2	240156.4	8	W920X201	
83-2188	IZ®	154.4	86.1	47.4	51.6	55.8	1622.1	25.07	W24X250	B2 (PZC 18)
		8302.9	2188	231.6	252.1	272.6	221510.7	7.64	W610X372	
83-2147	IZ®	154.8	84.5	34.5	38.8	43	1771.6	25.79	W33X152	B2 (PZC 18)
		8321.1	2147	168.4	189.2	210.1	241933.4	7.86	W840X226	
84-2285	IZ®	156.1	90	78.8	82.8	86.8	1395.7	25.01	W14X500	B2 (PZC 18)
		8392.3	2285	384.6	404.2	423.8	190592.3	7.62	W360X744	
85-2212	IZ®	157.2	87.1	42.5	46.6	50.8	1711.3	25.76	W27X217	B2 (PZC 18)
		8450.6	2212	207.4	227.7	248	233691.7	7.85	W690X323	

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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)	
85-2235	IZ®	158.7	88	38.4	42.6	46.7	1786.3	26.45	W30X191	B2 (PZC 18)
		8530.1	2235	187.7	207.8	227.9	243940	8.06	W760X284	
88-2157	IZ®	163.9	84.9	34	38.3	42.5	1966.3	26.32	W36X150	B2 (PZC 18)
		8810	2157	166.1	186.9	207.7	268515.4	8.02	W920X223	
89-2213	IZ®	165	87.1	45	49.2	53.3	1834.8	25.79	W27X235	B2 (PZC 18)
		8872.4	2213	219.7	240	260.3	250556.5	7.86	W690X350	
89-2191	IZ®	165.8	86.3	51.4	55.6	59.8	1792.8	25.14	W24X279	B2 (PZC 18)
		8915.4	2191	251	271.4	291.9	244821.4	7.66	W610X415	
90-2145	IZ®	166.4	84.4	36.8	41	45.3	1962.7	25.79	W33X169	B2 (PZC 18)
		8947.6	2145	179.5	200.4	221.3	268018.9	7.86	W840X251	
91-2237	IZ®	168.9	88.1	41.1	45.3	49.4	1953.7	26.52	W30X211	B2 (PZC 18)
		9082.4	2237	200.9	220.9	241	266794.2	8.08	W760X314	
91-2290	IZ®	169.2	90.2	85.1	89.1	93.1	1565.1	25.17	W14X550	B2 (PZC 18)
		9098.9	2290	415.3	434.9	454.5	213732.7	7.67	W360X818	
92-2158	IZ®	170.7	85	35.4	39.7	43.9	2087.4	26.35	W36X160	B2 (PZC 18)
		9175.4	2158	173	193.7	214.5	285052.9	8.03	W920X238	
93-2153	IZ®	172.6	84.8	33.9	38.2	42.5	2167.3	26.65	W40X149	B2 (PZC 18)
		9280	2153	165.7	186.5	207.4	295969.7	8.12	W1000X222	
94-2215	IZ®	175.6	87.2	48	52.2	56.3	2000.7	25.86	W27X258	B2 (PZC 18)
		9442.7	2215	234.4	254.7	274.9	273219.6	7.88	W690X384	
95-2193	IZ®	177	86.3	55	59.2	63.4	1963.4	25.2	W24X306	B2 (PZC 18)
		9517.6	2193	268.6	289.1	309.5	268114.7	7.68	W610X455	
96-2159	IZ®	177.6	85	36.8	41.1	45.3	2211.3	26.38	W36X170	B2 (PZC 18)
		9546.6	2159	179.8	200.6	221.3	301971.5	8.04	W920X253	
97-2253	IZ®	179.8	88.7	39.5	43.6	47.7	2199.6	27.17	W33X201	B2 (PZC 18)
		9668.9	2253	192.8	212.7	232.7	300375	8.28	W840X299	
98-2235	IZ®	182.6	88	44.4	48.5	52.6	2174.7	26.55	W30X235	B2 (PZC 18)
		9814.5	2235	216.9	236.9	257	296981.4	8.09	W760X350	

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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)	
99-2295	IZ®	184.2	90.4	92.6	96.6	100.6	1764.8	25.3	W14X605	B2 (PZC 18)
		9901.4	2295	452	471.5	491.1	241001.8	7.71	W360X900	
99-2160	IZ®	184.8	85	38.5	42.8	47	2347.4	26.42	W36X182	B2 (PZC 18)
		9936.1	2160	188.1	208.8	229.6	320563	8.05	W920X271	
100-2217	IZ®	186.3	87.3	51.2	55.4	59.5	2173.5	25.93	W27X281	B2 (PZC 18)
		10018.4	2217	250.1	270.4	290.6	296808.5	7.9	W690X419	
102-2196	IZ®	188.7	86.5	59	63.2	67.4	2147	25.3	W24X335	B2 (PZC 18)
		10146	2196	288.3	308.7	329.1	293189.4	7.71	W610X498	
102-2153	IZ®	189.3	84.8	36.5	40.7	45	2466.1	26.71	W40X167	B2 (PZC 18)
		10176.6	2153	178.1	198.9	219.8	336774.4	8.14	W1000X249	
103-2254	IZ®	191.4	88.7	42.2	46.3	50.3	2403.9	27.24	W33X221	B2 (PZC 18)
		10289.6	2254	206	225.9	245.8	328271.5	8.3	W840X329	
103-2161	IZ®	191.7	85.1	40.1	44.4	48.6	2478.8	26.45	W36X194	B2 (PZC 18)
		10306.8	2161	196	216.7	237.5	338499.9	8.06	W920X289	
105-2238	IZ®	194.8	88.1	48	52.1	56.2	2387	26.61	W30X261	B2 (PZC 18)
		10474.6	2238	234.1	254.2	274.2	325970.9	8.11	W760X389	
106-2220	IZ®	197.3	87.4	54.6	58.8	62.9	2355.2	25.99	W27X307	B2 (PZC 18)
		10609.9	2220	266.8	287	307.2	321618.7	7.92	W690X457	
108-2301	IZ®	200.1	90.6	100	104	108	1991.3	25.47	W14X665	B2 (PZC 18)
		10760.4	2301	488.3	507.8	527.3	271934.9	7.76	W360X990	
108-2162	IZ®	200.9	85.1	42.4	46.7	50.9	2657.1	26.48	W36X210	B2 (PZC 18)
		10799.3	2162	207.1	227.9	248.6	362849.9	8.07	W920X313	
109-2256	IZ®	202.6	88.8	44.9	48.9	53	2604.5	27.3	W33X241	B2 (PZC 18)
		10889.9	2256	219	238.9	258.8	355664.9	8.32	W840X359	
109-2200	IZ®	202.7	86.6	63.8	68	72.2	2373.1	25.4	W24X370	B2 (PZC 18)
		10899	2200	311.7	332.1	352.4	324071.9	7.74	W610X551	
110-2153	IZ®	205	84.8	38.7	43	47.3	2753.6	26.78	W40X183	B2 (PZC 18)
		11020.5	2153	189	209.9	230.7	376035.1	8.16	W1000X272	

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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)	
112-2271	IZ®	208.2	89.4	43	47.1	51.1	2759.6	27.8	W36X230	B2 (PZC 18)
		11195.2	2271	210	229.7	249.5	376852.4	8.47	W920X342	
113-2253	IZ®	209.5	88.7	39.1	43.2	47.3	2853.7	28.02	W40X199	B2 (PZC 18)
		11266	2253	191.1	211	230.9	389691.6	8.54	W1000X296	
113-2223	IZ®	210.5	87.5	58.5	62.7	66.8	2576.5	26.09	W27X336	B2 (PZC 18)
		11316.3	2223	285.8	306	326.2	351849.5	7.95	W690X500	
113-2240	IZ®	210.6	88.2	52.1	56.2	60.3	2659.9	26.68	W30X292	B2 (PZC 18)
		11324.8	2240	254.2	274.3	294.3	363227.5	8.13	W760X434	
117-2254	IZ®	216.8	88.7	47.9	52	56	2860.8	27.3	W33X263	B2 (PZC 18)
		11654.7	2254	233.8	253.7	273.7	390673	8.32	W840X392	
117-2161	IZ®	216.8	85.1	45.4	49.7	53.9	2957.8	26.52	W36X232	B2 (PZC 18)
		11656.9	2161	221.8	242.5	263.3	403911.6	8.08	W920X345	
117-2272	IZ®	217.3	89.4	45	49.1	53.1	2929.6	27.83	W36X245	B2 (PZC 18)
		11681.8	2272	219.9	239.6	259.4	400064.7	8.48	W920X365	
118-2307	IZ®	218.6	90.8	108.1	112.1	116.1	2256.6	25.63	W14X730	B2 (PZC 18)
		11752.9	2307	527.9	547.4	566.8	308153.6	7.81	W360X1086	
120-2153	IZ®	222.5	84.8	42.7	46.9	51.2	3118.5	26.81	W40X211	B2 (PZC 18)
		11961.9	2153	208.4	229.2	250	425864.9	8.17	W1000X314	
121-2225	IZ®	224.3	87.6	62.9	67	71.2	2816	26.15	W27X368	B2 (PZC 18)
		12061.8	2225	307.1	327.3	347.4	384547	7.97	W690X548	
121-2253	IZ®	224.7	88.7	41.4	45.5	49.6	3139.6	28.09	W40X215	B2 (PZC 18)
		12079.4	2253	202.2	222.2	242.1	428743.1	8.56	W1000X321	
122-2273	IZ®	226.1	89.5	47	51	55.1	3100.2	27.86	W36X260	B2 (PZC 18)
		12158.5	2273	229.5	249.2	268.9	423364.2	8.49	W920X387	
122-2243	IZ®	226.5	88.3	56.6	60.7	64.8	2944.7	26.78	W30X326	B2 (PZC 18)
		12177.3	2243	276.3	296.3	316.3	402129.8	8.16	W760X484	
124-2163	IZ®	230.6	85.2	48.9	53.1	57.4	3237.7	26.58	W36X256	B2 (PZC 18)
		12397.5	2163	238.6	259.3	280.1	442136.9	8.1	W920X381	

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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)	
124-2257	IZ®	231.5	88.9	51.6	55.7	59.7	3138	27.4	W33X291	B2 (PZC 18)
		12443.8	2257	252	271.8	291.7	428527.1	8.35	W840X433	
125-2324	IZ®	233.3	91.5	117.7	121.7	125.6	2467.6	25.79	W14X808	B2 (PZC 18)
		12542	2324	574.7	594	613.3	336967.4	7.86	W360X1202	
128-2155	IZ®	237.2	84.8	46	50.3	54.5	3430.3	26.88	W40X235	B2 (PZC 18)
		12752.8	2155	224.6	245.4	266.2	468436.1	8.19	W1000X350	
128-2275	IZ®	238.5	89.6	49.7	53.8	57.8	3341.1	27.93	W36X280	B2 (PZC 18)
		12822.2	2275	242.7	262.4	282.2	456261.7	8.51	W920X417	
130-2246	IZ®	241.8	88.4	60.7	64.8	68.9	3224	26.88	W30X357	B2 (PZC 18)
		12997.9	2246	296.5	316.5	336.5	440271.7	8.19	W760X531	
132-2253	IZ®	245.7	88.7	46	50.1	54.1	3577.1	28.12	W40X249	B2 (PZC 18)
		13207.1	2253	224.5	244.5	264.4	488488.6	8.57	W1000X371	
132-2259	IZ®	245.9	88.9	55.2	59.3	63.3	3414.5	27.47	W33X318	B2 (PZC 18)
		13219.8	2259	269.5	289.3	309.2	466275.3	8.37	W840X473	
134-2276	IZ®	249.5	89.6	52.4	56.4	60.5	3559.1	27.96	W36X300	B2 (PZC 18)
		13414.9	2276	255.7	275.4	295.2	486028.7	8.52	W920X446	
136-2156	IZ®	252.2	84.9	50.1	54.3	58.6	3767.2	26.94	W40X264	B2 (PZC 18)
		13558.4	2156	244.5	265.3	286.1	514447.6	8.21	W1000X393	
137-2253	IZ®	254.6	88.7	43.4	47.5	51.6	3914.6	28.71	W44X230	B2 (PZC 18)
		13686.1	2253	212	231.9	251.8	534573.2	8.75	W1100X343	
139-2249	IZ®	257.7	88.5	65.4	69.5	73.5	3523.2	26.94	W30X391	B2 (PZC 18)
		13852.2	2249	319.2	339.1	359.1	481123.1	8.21	W760X582	
140-2157	IZ®	259.8	84.9	52.1	56.4	60.7	3939	26.94	W40X278	B2 (PZC 18)
		13965.8	2157	254.6	275.3	296.1	537898.7	8.21	W1000X415	
141-2255	IZ®	262.3	88.8	49.7	53.7	57.8	3932.4	28.19	W40X277	B2 (PZC 18)
		14101.9	2255	242.4	262.3	282.2	537006.8	8.59	W1000X412	
142-2262	IZ®	264.2	89.1	60	64	68.1	3774	27.53	W33X354	B2 (PZC 18)
		14202.4	2262	292.7	312.5	332.4	515375	8.39	W840X527	

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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)	
143-2275	IZ®	265.5	89.6	56.1	60.1	64.2	3882.1	27.99	W36X328	B2 (PZC 18)
		14275.6	2275	273.8	293.5	313.2	530136.9	8.53	W920X488	
146-2255	IZ®	271.3	88.8	52.4	56.5	60.6	4141.2	28.19	W40X297	B2 (PZC 18)
		14583.4	2255	256	275.9	295.8	565524.2	8.59	W1000X443	
150-2253	IZ®	278.3	88.7	47.8	51.9	55.9	4446.2	28.78	W44X262	B2 (PZC 18)
		14962.5	2253	233.3	253.2	273.1	607164	8.77	W1100X390	
151-2264	IZ®	280.9	89.1	64.4	68.4	72.5	4112.9	27.63	W33X387	B2 (PZC 18)
		15100.3	2264	314.3	334.1	353.9	561653.6	8.42	W840X576	
151-2278	IZ®	281.5	89.7	60.1	64.1	68.2	4213.1	28.06	W36X359	B2 (PZC 18)
		15133.9	2278	293.4	313.1	332.8	575329.9	8.55	W920X534	
155-2257	IZ®	288.5	88.9	56	60.1	64.2	4511.5	28.29	W40X324	B2 (PZC 18)
		15510.2	2257	273.5	293.4	313.3	616082.5	8.62	W1000X483	
155-2161	IZ®	288.7	85.1	58.8	63.1	67.3	4582.3	27.07	W40X327	B2 (PZC 18)
		15520.3	2161	287.1	307.9	328.7	625752.5	8.25	W1000X486	
156-2162	IZ®	290.1	85.1	59.5	63.8	68	4618.5	27.11	W40X331	B2 (PZC 18)
		15594.2	2162	290.6	311.4	332.1	630691.5	8.26	W1000X494	
160-2255	IZ®	297	88.8	51.7	55.7	59.8	4886.1	28.85	W44X290	B2 (PZC 18)
		15967	2255	252.2	272.1	292	667237.3	8.79	W1100X433	
161-2240	IZ®	298.9	88.2	85.5	89.6	93.7	4194.6	26.61	W27X539	B2 (PZC 18)
		16070.9	2240	417.5	437.6	457.6	572803.8	8.11	W690X802	
161-2280	IZ®	299.8	89.8	64.7	68.7	72.8	4601.9	28.16	W36X393	B2 (PZC 18)
		16120.3	2280	315.9	335.6	355.2	628435.3	8.58	W920X585	
166-2260	IZ®	309.1	89	61.1	65.1	69.2	4977.6	28.35	W40X362	B2 (PZC 18)
		16615.8	2260	298.2	318	337.9	679736.8	8.64	W1000X539	
169-2261	IZ®	313.6	89	62.4	66.5	70.5	5084.1	28.39	W40X372	B2 (PZC 18)
		16858.3	2261	304.6	324.5	344.3	694278.8	8.65	W1000X554	
172-2258	IZ®	320.6	88.9	57.4	61.4	65.5	5468.5	28.91	W44X335	B2 (PZC 18)
		17233.9	2258	280	299.9	319.8	746778	8.81	W1100X499	

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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)	
174-2284	IZ®	324.3	89.9	70.6	74.7	78.7	5122.4	28.25	W36X439	B2 (PZC 18)
		17433.4	2284	344.9	364.5	384.2	699505.6	8.61	W920X653	
175-2167	IZ®	326.1	85.3	67.9	72.2	76.4	5447.2	27.27	W40X392	B2 (PZC 18)
		17529.6	2167	331.6	352.3	373	743861	8.31	W1000X584	
177-2262	IZ®	329.5	89.1	65.7	69.8	73.8	5440.9	28.42	W40X397	B2 (PZC 18)
		17713.8	2262	320.8	340.7	360.5	742996.4	8.66	W1000X591	
187-2265	IZ®	347.6	89.2	70.2	74.3	78.3	5861.7	28.52	W40X431	B2 (PZC 18)
		18688.2	2265	342.9	362.7	382.5	800472.3	8.69	W1000X642	
200-2290	IZ®	371.1	90.2	82.1	86.1	90.1	6159	28.45	W36X527	B2 (PZC 18)
		19952.7	2290	400.9	420.5	440.1	841069.5	8.67	W920X784	
209-2270	IZ®	389.1	89.4	79.8	83.8	87.9	6841.2	28.68	W40X503	B2 (PZC 18)
		20919.1	2270	389.5	409.3	429.1	934228.8	8.74	W1000X748	
234-2299	IZ®	435.8	90.5	98	102	106	7656.1	28.71	W36X650	B2 (PZC 18)
		23430.3	2299	478.5	498	517.6	1045508	8.75	W920X967	
237-2277	IZ®	441.4	89.6	91.9	95.9	100	8115.7	28.88	W40X593	B2 (PZC 18)
		23732.9	2277	448.7	468.4	488.1	1108265.5	8.8	W1000X883	
277-2310	IZ®	515.7	90.9	117	121	125	9599.5	29.04	W36X798	B2 (PZC 18)
		27728.3	2310	571.4	590.8	610.2	1310898.7	8.85	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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