

GERDAU: Wide Flange Beams for Solar Posts

Driven wide flange beam piles are the most efficient foundation for ground mounted solar systems. Due to their quicker installation, beam piles save you time versus other solutions.

In addition to standard shapes, Gerdau has developed two new sections specifically for solar posts:

The **W6x7.75** and **W6x10.4** sections have been added to increase flexibility in design and minimize project costs by leveraging incremental weight reduction with economy of scale.

Shape Depth x Linear Weight	Dimensions						Properties							
	Cross- Section Area (A) in. ²	Depth (d) in.	Flange		Web Thickness (t _w) in.	Surface Area, in. ² /ft	Moment of Inertia (I)		Section Modulus (S)		Plastic Modulus (Z)		Radius of Gyration (r)	
			Width (b _f) in.	Thickness (t _f) in.			X-X Axis in. ⁴	Y-Y Axis in. ⁴	X-X Axis in. ³	Y-Y Axis in. ³	X-X Axis in. ³	Y-Y Axis in. ³	X-X Axis in.	Y-Y Axis in.
W6x7*	2.07	5.79	3.905	0.160	0.135	316.98	12.30	1.59	4.25	0.82	4.73	1.26	2.44	0.878
W6x7.75*	2.29	5.82	3.921	0.177	0.151	318.18	13.70	1.78	4.70	0.91	5.25	1.40	2.44	0.882
W6x8.5	2.52	5.83	3.940	0.195	0.170	318.78	14.90	1.98	5.14	1.01	5.77	1.56	2.43	0.880
W6x9	2.68	5.90	3.940	0.215	0.170	320.46	16.40	2.19	5.56	1.11	6.29	1.72	2.47	0.905
W6x10.4*	3.13	5.96	3.970	0.247	0.200	322.72	19.30	2.58	6.48	1.30	7.31	2.01	2.48	0.908
W6x12	3.55	6.03	4.000	0.280	0.230	325.02	22.10	2.99	7.31	1.50	8.37	2.33	2.49	0.918
W6x15	4.43	5.99	5.990	0.260	0.230	419.58	29.10	9.32	9.72	3.11	10.85	4.75	2.56	1.460
W6x16	4.74	6.28	4.030	0.405	0.260	331.74	32.10	4.43	10.20	2.20	11.74	3.40	2.60	0.966
W6x20	5.87	6.20	6.020	0.365	0.260	425.34	41.40	13.30	13.40	4.41	14.97	6.72	2.66	1.500
W6x25	7.34	6.38	6.080	0.455	0.320	431.10	53.40	17.10	16.70	5.61	18.99	8.57	2.70	1.520
W8x10	2.96	7.89	3.940	0.205	0.170	368.22	30.80	2.09	7.81	1.06	8.87	1.66	3.22	0.841
W8x13	3.84	7.99	4.000	0.255	0.230	372.06	39.60	2.73	9.91	1.37	11.39	2.15	3.21	0.843

Steel Grades:

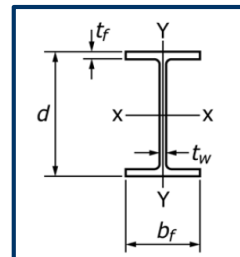
Wide Flange Beams are available in all standard structural steel grades. Please inquire for other high-strength grades.

Lengths:

Available in standard lengths of 20', 25', 30', 35', 40', 45', 50', 55', 60', and 65'. Non-standard lengths are also available subject to mill tonnage minimums. Inquire for lengths >65'.

Tolerances:

All structural sections listed in this document shall comply to the general requirements determined by ASTM A6/A6M. * W6x7, W6x7.75 and W6x10.4 are not listed in ASTM A6/A6M Table A1.2 (nor in AISC Steel Construction Manual) and therefore dimensions may vary slightly depending on the producing steel mill.



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