

Magnum® Piering Helical Pile Cap Specifications



Magnum® Helical Pile Caps	System Ratings & Specifications								
	Name	Fits Helical Pile Diam. (in)	No. Bolts / Thru Holes	Bolt Hole Diam. (in)	Structural Capacity*		Description	Surface Coating**	Schematic
					Ultimate (tons) Comp / Tens	Allowable (tons) Comp / Tens			
MHC1000-3	Grade Beam Cap	3.00	1	0.875	50 / 32	25 / 16	4.00" x 6.00" x 1.00" Plate w/ (2) #7 Bars Horiz.	G, NG, EP	
MHC1000-3R	Grade Beam Cap	3.00	2	1.00	50 / 50	25 / 25	4.00" x 6.00" x 1.00" Plate w/ (2) #7 Bars Horiz.	G, NG, EP	
MHC1040-3	Bond Bar Cap	3.00	1	0.875	32 / 32	16 / 16	(2) #7 Bars Vertical	G, NG, EP	
MHC1040-3R	Bond Bar Cap	3.00	2	1.00	50 / 50	25 / 25	(3) #7 Bars Vertical	G, NG, EP	
MHC1040-4	Bond Bar Cap	4.50	2	1.25	72 / 72	36 / 36	(4) #7 Bars Vertical	G, NG, EP	
MHC1080-31024	Tie-Back Cap	3.00	1	0.875	50 / 32	16 / 16	Threaded Cap w/ 0.875" Thru Bolt, #10 Thread Bar x 24.00" with (1) #10 Nut	G, NG, EP	
MHC1080-3R1024	Tie-Back Cap	3.00	2	1.00	50 / 50	25 / 25	Threaded Cap w/ 1.00" Thru Bolt, #10 Thread Bar x 24.00" with (1) #10 Nut	G, NG, EP	
MHC1080-41424	Tie-Back Cap	4.50	2	1.25	97 / 97	48 / 48	Threaded Cap w/ (2) 1.25" Thru Bolts, #14 Thread Bar x 24.00" with (1) #14 Nut	G, NG, EP	
MHC1080-62024	Tie-Back Cap	5.72	3	1.50	191 / 191	95 / 95	Threaded Cap w/ (3) 1.50" Thru Bolts, #20 Thread Bar x 24.00" with (1) #20 Nut	G, NG, EP	
MHC1100-316	Slab Lift Cap	3.00	0	n/a	32 / 0	16 / 0	6.00" x 3.50" x .375" x 16.00" Long Channel with (1) 1.125" Lifting Bolt	G, NG, EP	
MHC1100-336	Slab Lift Cap	3.00	0	n/a	32 / 0	16 / 0	6.00" x 3.50" x .375" x 36.00" Long Channel with (1) 1.125" Lifting Bolt	G, NG, EP	
MHC1120-3	Wood Beam Cap	3.00	1	0.875	16 / 16	8 / 8	L 3.50" x 3.50" x 0.25" x 11.00" Long Angle	G, NG, EP	
MHC1121-3	Wood Beam Cap	3.00	1	0.875	32 / 32	16 / 16	L 4.00" x 4.00" x 0.375" x 21.00" Long Angle	G, NG, EP	
MHC1122-3	Wood Beam Cap	3.00	(4) Hilti EDS PAF		12 / 12	6 / 6	L 8.00" x 4.00" x 0.125" x 8.00" Long Formed Angle	G, NG, EP	
MHC1123-3	Wood Beam Cap	3.00	1	0.875	16 / 16	8 / 8	L 8.00" x 3.75" x 0.125" x 6.00" Long Formed Angle	G, NG, EP	
MHC1130-3	Wood Corner Cap	3.00	1	0.875	16 / 16	8 / 8	(2) L3.50" x 3.50" x 0.25" - 7.25" Long Angles Oriented 90 degrees	G, NG, EP	
MHC1160-3	4.00" x 4.00" Post Cap	3.00	1	0.875	16 / 16	8 / 8	0.188" x 2.00" tall x 3.625" x 3.625" Post Base	G, NG, EP	
MHC1161-3	6.00" x 6.00" Post Cap	3.00	1	0.875	32 / 32	16 / 16	0.188" x 3.00" tall x 5.63" x 5.63" Post Base	G, NG, EP	

Magnum® Piering Helical Pile Cap Specifications (Cont.)



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MHC1206-3	ID Plate Cap	3.00	1	0.875	32 / 32	16 / 16	6.00" x 6.00" x .375" Plate with 0.50" Threaded Hole	G, NG, EP	
MHC1207-3	OD Plate Cap	3.00	1	0.875	32 / 32	16 / 16	6.00" x 6.00" x .375" Plate with 0.50" Threaded Hole	G, NG, EP	
MHC1300-3J55	Bearing Plate Cap	3.00	1	0.875	50 / 32	25 / 16	Bolted or Welded Cap with 5.00" x 5.00" x 0.25" Plate	G, NG, EP	
MHC1300-3K66	Bearing Plate Cap	3.00	2	1.00	50 / 41	25 / 20	Bolted or Welded Cap with 6.00" x 6.00" x .375" Plate	G, NG, EP	
MHC1300-4L88	Bearing Plate Cap	4.50	2	1.25	97 / 73	48 / 36	Bolted or Welded Cap with 8.00" x 8.00" x 0.50" Plate	G, NG, EP	
MHC1300-6L8585	Bearing Plate Cap	5.72	3	1.50	104 / 63	52 / 31	Bolted or Welded Cap with 8.50" x 8.50" x 0.50" Plate	G, NG, EP	
MHC1300-6M1010	Bearing Plate Cap	5.72	3	1.50	150 / 108	75 / 54	Bolted or Welded Cap with 10.00" x 10.00" x 0.625" Plate	G, NG, EP	
MHC1300-6N1111	Bearing Plate Cap	5.72	3	1.50	191 / 146	95 / 73	Bolted or Welded Cap with 11.00" x 11.00" x 0.75" Plate	G, NG, EP	
MHC1420-3N1212R	Tilted Plate Cap	3.00	2	1.00	50 / 50	25 / 25	Bolted or Welded Cap with 12.00" x 12.00" x 0.75" Plate Tilted 20 Degrees	G, NG, EP	
MHC1420-6N1616	Tilted Plate Cap	5.72	3	1.50	191 / 146	95 / 73	Bolted or Welded Cap with 16.00" x 16.00" x 0.75" Plate Tilted 20 Degrees	G, NG, EP	
MHC1530-3N68	Tilt-Up Panel Brace Cap	3.00	1	0.875	32 / 32	16 / 16	Bolted or Welded Cap with 6.00" x 8.00" Plate with 0.75" Stud Tilted 30 Degrees to Receive Brace	G, NG, EP	
MHC1545-3N68	Tilt-Up Panel Brace Cap	3.00	1	0.875	32 / 32	16 / 16	Bolted or Welded Cap with 6.00" x 8.00" Plate with 0.75" Stud Tilted 45 Degrees to Receive Brace	G, NG, EP	

***Note 1**

Structural capacity of cap and pile system may be limited by the capacity of the pile and the structure to which the cap is connected. See Magnum® Helical Pile Specifications for more information. Capacity of the structure shall be determined by an engineer.

****Note 2**

G = Hot-Dip Zinc Galvanized per ASTM A123/A153, NG = Bare Steel, EP = Epoxy Powder Coated per ICC-ES AC228

Notes and Specifications

All Magnum helical pile products are manufactured using minimum 65 ksi minimum yield strength structural tubing, or better, for the collar and ASTM A36 plate steel, or better, for the bearing plates. As Magnum is committed to testing and improving products, these specifications are subject to change. Additional product specifications available at www.magnumpiering.com and in the Magnum Helical Pile Engineering Manual available upon request.