MAGNUM® MHC1600-13R13B3 Rebar Plate Cap

Allowable Capacity 61 Tons Compression / 42.5 Tons Tension

13″Ø x 1-1/2″ Bearing Plate w/ (4) #7 Rebar Hooks and 12-1/2-Inch O.D. Collar
Fits MH1338B-6 Magnum® Helical Piles

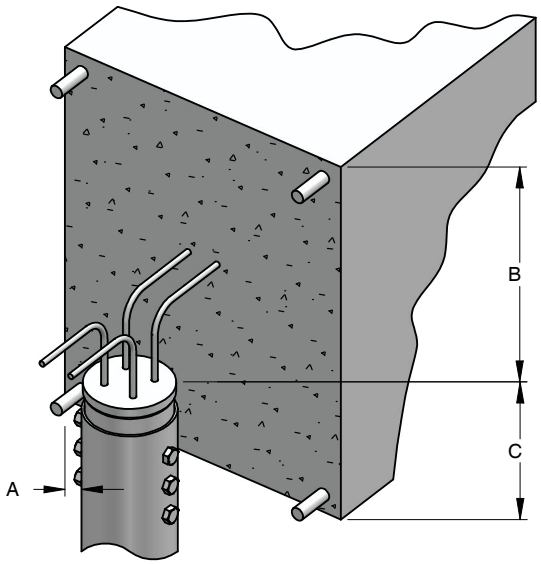
Description

Magnum MHC1600-13R13B3 rebar plate cap has 122 tons ultimate capacity, 61 tons allowable capacity in compression and 85 tons ultimate capacity, 42.5 tons allowable capacity in tension. The rebar plate cap consists of a collar tube with bolt holes for connection to Magnum helical piles and 13″Ø x 1-1/2″ plate with (4) #7 standard rebar hooks for attachment to concrete pile caps. The rebar plate cap is designed in accordance with ICC-ES document AC358 as well as IBC, ACI, and AISC codes. Application of the cap varies by project and is the responsibility of registered design professional including minimum embedment for two-way and one-way punching shear, reinforcement of concrete, and pile spacing.

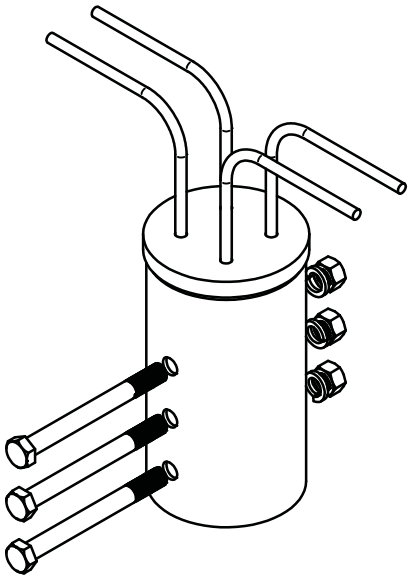
SPECIFICATIONS	
Collar Tube	0.375" x 12.5" O.D. ASTM A500 Gr. C 46 ksi
End Effecter	13″Ø x 1-1/2″ Steel Bearing Plate w/ (4) ASTM A706 #7 Standard Rebar Hooks
Pile Connection	(2) 1-1/4″ SAE J429 Grade 5 Zinc Coated to ASTM B695/F1941
Surface Coating	Galvanized per ASTM A153/A123 (G), Bare Steel (NG), or Epoxy Coated per ICC-ES AC228 (EP)
Compatibility	MH1338B-6

CAP CAPACITY	
Ultimate Compression / Tension	122 Tons / 85 Tons
Allowable Compression / Tension	61 Tons / 42.5 Tons

Note: Cap capacity takes into account strength of collar, end effector, and pile connection. Capacity may be limited by the helical pile itself, bearing/pullout capacity of soil, or strength of the structure to which the cap is attached, whichever is less.



A - As Required for Shear (Min. 4" per IBC)
B - As required for Compression (Min. 17")
C - As Required for Tension (Min. 3" per IBC).



Installation Notes:

After installation of a Magnum Helical Pile to the correct depth, torque, and capacity, cut-off the pile shaft at the proper elevation Drill (3) 1-9/16″ holes using a Magnum drill template. Place the pile cap over the shaft and secure with (3) 1-1/2″ bolts. Ensure direct bearing of plate on shaft. Snug tighten nut. Place reinforcing steel as required for the project and cast concrete over and around the pile cap. Cap capacity is based on embedment in concrete pile cap at least 4x larger than plate size and minimum 2,500 psi concrete. Alternatively, drilling through pile may be omitted and plug welds may be used to secure cap to pile in place of bolts, Magnum Technical Bulletin TB004.0.

All Magnum Products Made in U.S.A.
U.S. Patents 6,058,662 and 5,234,287; Other Patents Pending.

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