MAGNUM® MHC1666-5P12S105B1 Rebar Plate Cap

ASD: 151 Kips Comp. / 79 Kips Tens.* / 20.8 Kip-ft Moment*

12” Dia. x 1” Bearing Plate w/ (6) #6 Headed Rebar Studs & 5-3/4” I.D. Collar

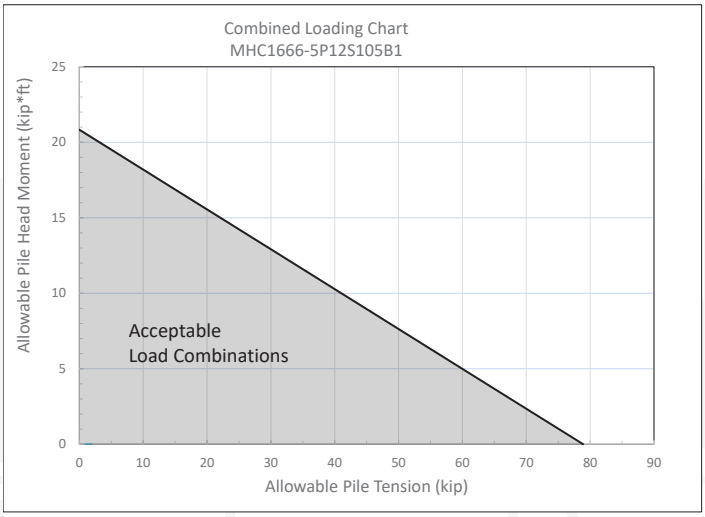
Fits MH530-6, MH536-6, MH542-6 & MH547-6 Helical Piles

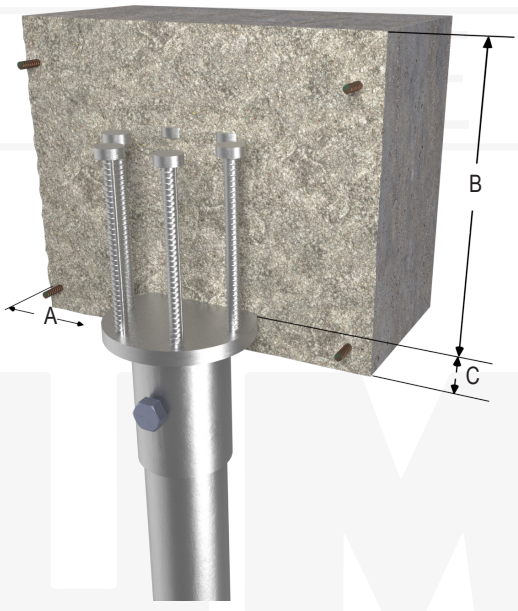
Description: MAGNUM® Rebar Plate Caps provide superior embedment in concrete pile caps. Utilizing rigid bolted couplings to connect to helical piles and headed rebar studs to transfer tension and moment from the concrete pile cap into the pile. MAGNUM® products are manufactured in the USA according to our ISO 9001 approved Quality Program. Structural capacities are developed according to AISC 360 and ACI 318 considering an average design life of 75 years for bare steel in most soil conditions. Hot-dip galvanizing is available upon request. Design and detailing of the structure to which rebar plate cap is embedded in varies by project and is the responsibility of the registered design professional.

Specifications	
Collar Tube	5-3/4” I.D. ASTM A252, Fy = 50 ksi min.
End Effecter	12” Diameter x 1” Steel Bearing Plate w/ (6) #6 Headed Rebar Studs, ASTM A706
Pile Connection	(1) 1-1/2″ SAE J429 Grade 5 Bolt Zinc Coated to ASTM B695/F1941 when used with Galvanized Piles
Coating	Bare Steel (NG), Galvanized per ASTM A153/A123 (G)
Compatibility	MH530-6, MH536-6, MH542-6 & MH547-6
Capacity	
Allowable Compression	151 Kips
*Maximum Allowable Tension	79 Kips
*Maximum Allowable Moment	20.8 Kip-Ft

*Tension & Moment capacity are interactive. Utilize the Combined Loading Chart below.

Notes: Cap capacity is developed using the ASD design method and considers strength of collar, end effecter, and pile connection. Rebar studs conform to ACI 318 dimensions and are designed to have full tension development in normal weight concrete with 28-day f’c ≥ 3,000 psi. Capacity may be limited by the helical pile, bearing/pullout capacity of soil, or strength of the concrete the cap is embedded in.





A - As Required for Shear (Min. 4” per IBC)
B - As required for Compression
C - 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 (1) 1-9/16” thru hole using a MAGNUM® drill template, place the cap over the shaft and secure with (1) 1-1/2” bolt. Ensure direct bearing of plate on shaft. Snug tighten nut. Tighten set screw to prevent wobble during concrete placement. Place reinforcing steel, cast concrete and consolidate around the pile cap per project requirements.

MAGNUM PIERING
designed to support

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