

# MAGNUM® MHC1688-7R15S130B3 Rebar Plate Cap

**ASD: 224 Kips Comp. / 226 Kips Tens.\* / 61 Kip-ft Moment\***

15" Dia. x 1-1/4" Bearing Plate w/ (8) #8 Headed Rebar Studs & 7-1/4" I.D. Collar

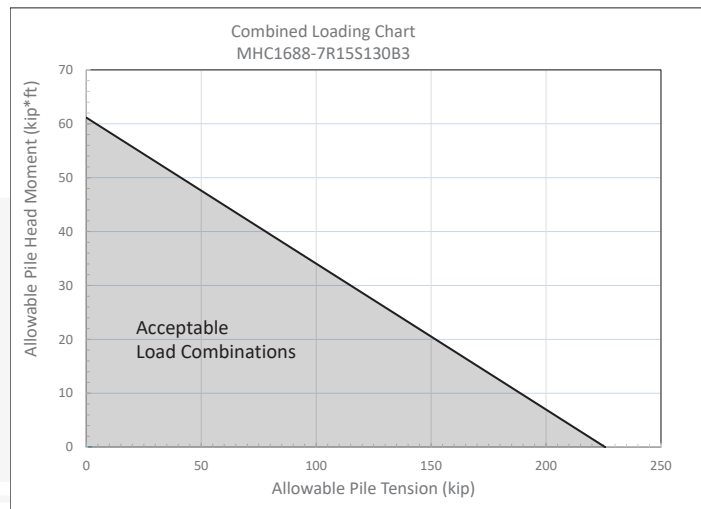
Fits MH736-6 & MH745-6 Helical Piles

**Description:** MAGNUM® Rebar Plate Caps provide superior embedment in concrete pile caps. Utilizing rigid bolted couplings to connect to helical screw 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.

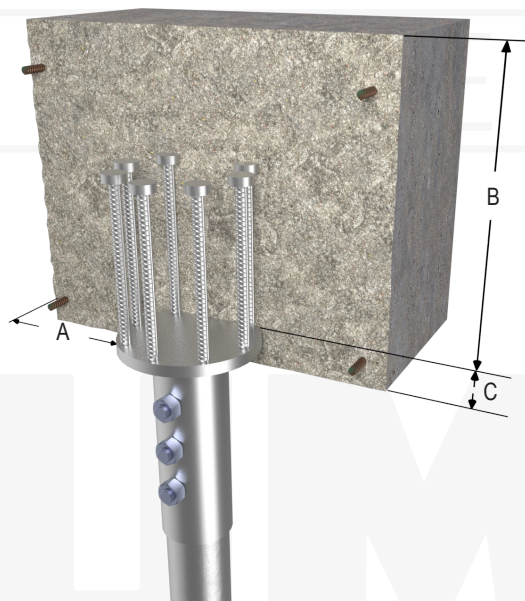
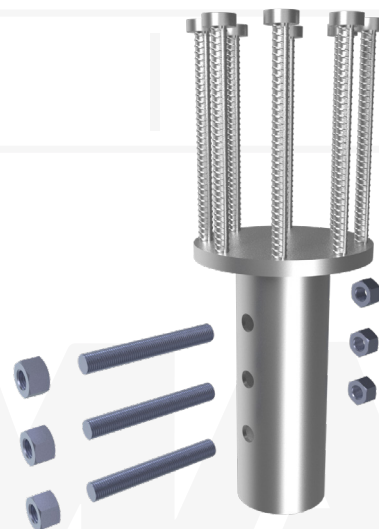
| Specifications             |   |
|----------------------------|---|
| Collar Tube                | 7-1/4" I.D. ASTM A252,<br>Fy = 65 ksi min.  |
| End Effector               | 15" Diameter x 1-1/4" Steel Bearing Plate<br>w/ (8) #8 Headed Rebar Studs, ASTM A706                      |
| Pile Connection            | (3) 1-1/2" ASTM A193 B7 Threaded Rod<br>Zinc Coated to ASTM B695/F1941<br>when used with Galvanized Piles |
| Coating                    | Bare Steel (NG), Galvanized per ASTM A153/A123 (G)  |
| Compatibility              | MH736-6 & MH745-6   |
| Capacity                   |   |
| Allowable Compression      | 224 Kips  |
| *Maximum Allowable Tension | 226 Kips  |
| *Maximum Allowable Moment  | 61 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 effector, 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  $f'_c \geq 3,000$  psi. Capacity may be limited by the helical pile, bearing/pullout capacity of soil, or strength of the concrete the cap is embedded in.



**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" thru holes using a MAGNUM® drill template, place the 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, cast concrete and consolidate around the pile cap per project requirements.



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

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