

# MAGNUM® MSC1040-175B Bond Bar Cap

## Allowable Capacity 27.5 Tons Compression & Tension

(3) #7 Reinforcing Steel Bars Vertical & 2.375-Inch I.D. Collar  
Fits MS175 Helical Piers

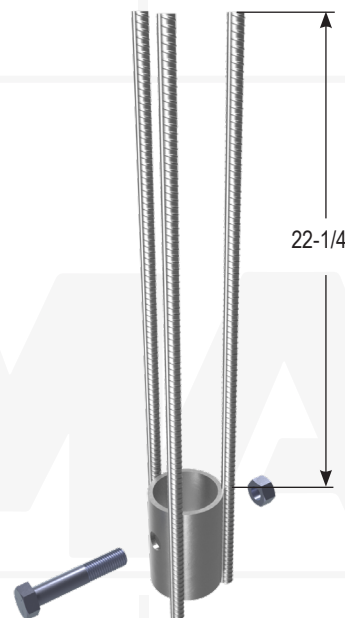
**Description:** MAGNUM® Bond Bar Cap consist of a collar tube with bolt hole for connection to MAGNUM® helical piles and vertical reinforcing steel bars for embedment in cast-in-place reinforced concrete. MAGNUM® products are manufactured in the USA according to our ISO 9001 approved quality program. 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 bearing plate cap is embedded in varies by project and is the responsibility of the registered design professional.

Specifications	
Collar Tube	0.25" x 2.375" I.D. ASTM A513, Fy = 65 ksi or Better
End Effector	(3) #7 ASTM A706 GR-60 Bars Vertical
Pile Connection	(1) 1" SAE J429 Grade 8 Zinc Coated to ASTM B695/F1941
Coating	Galvanized per ASTM A153/A123 (G), Bare Steel (NG), or Epoxy Coated per ICC-ES AC228 (EP)
Compatibility	MS175B
Capacity	
Ultimate Compression/ Tension	55 Tons / 55 Tons
Allowable Compression/ Tension	27.5 Tons / 27.5 Tons

**Notes:** Cap capacity is developed using the ASD design method and considers strength of collar, end effector, and pile connection. Capacity may be limited by the helical pile, bearing/pullout capacity of soil, or strength of the concrete the cap is embedded in.



A- Min. 4" per IBC



**Installation Notes:** After installation of a MAGNUM® Helical Pier to the correct depth, torque, and capacity, cut-off the pile shaft at the proper elevation. Drill (1) 1-1/16" diameter hole through the shaft using a MAGNUM® drill template, place the cap over the shaft and secure with (1) 1" bolt. Snug tighten nut. Reinforcing steel development length to be checked by registered design professional. Place reinforcing steel, cast concrete and consolidate around the pile cap per project requirements.

**MAGNUM®**  
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designed to support

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