

# MAGNUM® MHC1080-3514B Tie-Back Cap

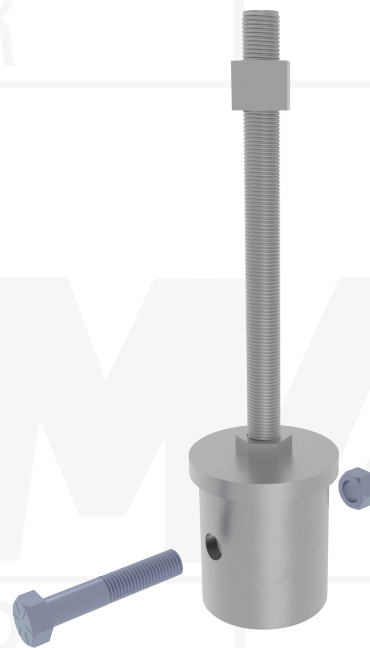
## Allowable Capacity - 27 Tons Tension

(1) 24" #14, Gr. 75 Thread Bar with (1) #14 Nut & 3.63-Inch I.D. Collar  
Fits MH3521 & MH3530 Helical Piles

**Description:** MAGNUM® Tie-Back Caps consist of a collar tube with bolt hole for connection to MAGNUM® helical piers and a thread bar & nut for attachment to various earth retention structures and foundations. The tie-back caps are manufactured in the USA according to our ISO 9001 approved quality program. Structural capacities are developed according to AISC 360 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 the helical tie-back cap is attached varies by project and is the responsibility of registered design professional including but not limited to waler size, bearing plate or wall facing (if any), and concrete cover as applicable.

Specifications	
Collar Tube	0.31" x 3.63" I.D. ASTM A513, F <sub>y</sub> = 65 ksi or Better
End Effector	(1) #14 x 24" Gr. 75 Thread Bar & (1) #14 Nut - Plates & Washers Sold Separately
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	MH3521 & MH3530
Capacity	
Ultimate Compression/ Tension	NA / 49 Tons
Allowable Compression/ Tension	NA / 27 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 itself, bearing/pullout capacity of soil, or strength of the structure to which the cap is attached.



**Installation Notes:** After installation of a MAGNUM® Helical Pile to the correct depth, torque, and capacity, begin by cutting-off the pile shaft at the proper elevation. Drill (1) 1-1/16" hole using the MAGNUM® drill template. Place the pile cap over the shaft and secure with (1) 1" bolt. Snug tighten nuts. Alternatively, drilling through pile may be omitted and plug welds may be used to secure cap to pile in place of bolts, see MAGNUM® Technical Bulletin TB004. Snug tighten or post-tension thread bar nut against bearing plate as required for the project.



Bearing Plate & Washers Sold Separately

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156 Circle Freeway Dr.  
Cincinnati, OH. 45246  
800-822-7437  
www.MagnumPiering.com