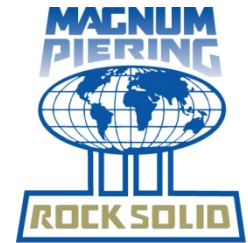


MAGNUM[®] MP431 Push Pier

63 Tons Allowable Structural Capacity in Compression

High-Strength 4.50" Diameter, 0.31" Wall, Round-Shaft
Push Piers with Male-Female Slip Connectors



Description

Magnum[®] MP431 push piers have a structural capacity in compression of 126 tons ultimate and 63 tons working. Push piers do not have tensile capacity unless the sections are welded together or a reinforcing steel bar and grout is placed in the pile casing. Sections couple together with male-female slip connectors. High strength steel offers increased buckling resistance compared to others. A friction reduction collar can be added to the pile to increase penetration depth. Sections are available in bare steel, epoxy powder coated, and galvanized. Galvanized coating extends average life expectancy to over 100 years even in highly corrosive environments. Custom lengths are available upon request. See Magnum[®] Technical Manual for additional information.



SPECIFICATIONS	
SHAFT	HSS 4.50" x 0.31" Wall ASTM A513 Grade 65 KSI, or Equiv.
I	8.62 in ⁴
Ag	3.91 in ²
S	3.84 in ³
COUPLING	Inner 0.25" Sleeve
COATING	Hot-Dip Galvanized (G), Bare Steel (NG), or Epoxy Powder Coated (EP)
STANDARD RAM	15.9 in ² Piston Area 10,000 Maximum P.S.I.
STRUCTURAL CAPACITY IN COMPRESSION* Bare Steel / Galvanized (Tons)	
126 / 135	Ultimate
63 / 67	Allowable
CAPACITY FROM LOAD TEST**	
80 Tons	Maximum Test Load
53 Tons	Allowable from Test (F.S.=1.5)

***Note1:** Structural capacity is based on buckling strength of shaft in firm soils with fixed head conditions. Push piers shall be installed to appropriate depth into suitable bearing stratum as determined by geotechnical engineer or local practice. For tension capacity, push pier sections must be welded together or a reinforcing steel bar and grout must be placed in the pile.

****Note2:** Push pier capacity is determined by load test using Magnum installation rams or lifting kit. All push piers shall be load tested to 1.5 times the desired working load. Test load is limited by maximum safe operating ram pressure or buckling capacity of shaft, whichever is less.

All Magnum Steel & Products Made in U.S.A.

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U.S. Patents 6,058,662 and 5,234,287; Other Patents Pending.