

HPSBML Helical Slab Bracket with HA150 Helical Pier System Technical Specifications

- Bracket:** Weldment manufactured from MC4 x 13.80 x 14.50" long steel channel and (2) - 0.50" thick x 2.50" x 6.00" steel plates. ASTM A36, yield strength = 36 ksi (min.).
- Guide Sleeve:** HSS 2.00" x 2.00" x 0.19" wall x 9.0" long. ASTM A500 Grade B, yield strength = 46 ksi (min.). 1.0" thick x 3.0" square tapped steel plate. ASTM A36, yield strength = 36 ksi (min.).
- Bracket Hardware:** \varnothing 1-1/4" x 6.00" long Grade 5 fully threaded bolt.
- Finish:** Available plain or with hot-dip galvanized coating in accordance with ASTM A123 and ASTM A153.
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- Shaft Material:** 1.5" Round Corner Square Bar, C1530, yield strength = 90 ksi (min.).
- Helix Plates:** ASTM A36 x 0.375" thick (standard).
Helix plate geometry in accordance with ICC-ES AC358.
Size, quantity and spacing of helix plates varies.
- Coupling Hardware:** \varnothing 3/4" mechanically galvanized Grade 8 bolt with nut.
- Finish:** Available plain or with hot-dip galvanized coating in accordance with ASTM A123.



Allowable System Capacity: 12,000 lbs.

Notes:

1. Capacity listed is a mechanical system capacity only. Local punching shear and slab strength should be checked separately. Reference FSI's slab pier spacing table for general spacing guidelines. Underside of slabs should be void filled after any piercing operation.
2. Capacity of the system may be governed by the capacity of the helical pier determined by torque correlation, field testing, or calculation by approved methods. See the FSI Technical Manual current edition for more information.
3. Mechanical capacity is based on continuous lateral soil confinement in soils with SPT blow counts ≥ 4 . Piles with exposed unbraced lengths or piles placed in weaker or fluid soils should be evaluated on a case by case basis by the project engineer.

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