# HP237 EZ Post™ System

## Technical Specifications

**Shaft Material:** Ø2.375" x 0.154" wall ASTM A500 Grade B or C, yield strength = 60 ksi (min.) Shafts available in 5', 7', or 10' lengths.

**Helix Plates:** ASTM A36 x 0.313" thick. Helix plate geometry in accordance with ICC-ES AC358. Size, quantity and spacing of helix plates varies.

**Coupler Material:** Ø2.75" x 0.156" wall ASTM A513 Type 5 Grade 1026, yield Strength = 70 ksi (min.)

**Coupling Hardware:** (2) - Ø5/8" Grade 5 bolts with nuts

**Bracket:** Multiple bracket options to accept lumber dimensions of 4x4 rough, 4x4 smooth, 6x6 rough, 6x6 smooth, (2) 2x's, or (3) 2x's. Brackets are manufactured from 10 Gauge steel plate. ASTM A1011 C1008-C1010, yield strength = 36 ksi (min.).

**All Thread Rod:** Ø1.00" x 6.00" long with welded jam nut, zinc plated. ASTM A108 Grade 1018, tensile strength = 85 ksi (min.). All thread rod is trumpet-flare fitted to bracket.

**Threaded Insert:** Ø2.50" x 1.00" thick machined and tapped insert, zinc plated. ASTM A108 Grade 1018, yield strength = 56 ksi (min.). Threaded insert is plug-welded to Ø2.00" x 0.125" wall x 3.75" long ASTM A513 Type 5 Grade 1026, yield strength = 70 ksi (min.).

**Finish:** Pile shafts available plain or with hot-dip galvanized coating in accordance with ASTM A123. All other components are zinc plated in accordance with ASTM B633.

## EZ Post™ Helical Pile Capacities:

**Bracket Axial Capacity:**
Allowable Compression = 12.5 kips

**Torque Limited Axial Design Capacities based on Practical Torsional Resistance of Pile Shaft = 2,500 ft-lbs:**
Ultimate Soil Capacity: 25.0 kips (with $K_t$=10 $ft^{-1}$)
Allowable Soil Capacity: 12.5 kips (FOS = 2)

Notes:

1. The EZ Post™ system is used to provide support of axial compression loads from timber deck posts.
2. Bracket capacity listed is a mechanical system capacity only. 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.