SPBA Bracket Specifications & Capacities when used with the PP288 Push Pier System

Bracket:
Manufactured from ⅜"and ¾" ASTM A572 Grade 50 plate

Pier Tube:
Ø2.875" x 0.165" wall x 36" long
Triple-coated in-line galvanized
ASTM A500 Grade C
Yield strength = 50 ksi (min)
Tensile strength = 55 ksi (min)

Pier Tube Coupler:
Ø2.500" x 0.125" wall x 6" long
ASTM A500 Grade B
Yield strength = 50 ksi (min)
Tensile strength = 58 ksi (min)

Cap Plate:
0.75" x 4.00" x 7.50" ASTM A572 Grade 65

Bracket Hardware:
(2) - Ø⅝" x 14" long all-thread rod Grade B7
Tensile strength = 125 ksi (min)
Electrozinc plated per ASTM B633

Bracket Finish:
Available plain or hot-dip galvanized[2]

Allowable System Capacity = 15,000 lbs.[1, 3, 4]

(1) Capacity listed is a mechanical system capacity only. Local punching shear and slab strength should be checked separately. Underside of slabs should be void filled after any piering operation.

(2) Hot-dip galvanized coating in accordance with ASTM A123.

(3) Brackets shall be used for support of structures that are considered to be fixed from translation. Structures that are not fixed from translation shall be braced in some manner prior to installing retrofit bracket systems.

(4) Allowable capacities consider continuous lateral soil confinement of fully embedded piers. Piers with exposed unbraced lengths or piers placed in fluid soils should be evaluated on a case-by-case basis by the project engineer.