

SPBA Push Pier Slab Bracket with PP288 Push Pier System Technical Specifications

- Bracket:** Manufactured from a 0.75" thick x 7.00" x 10.00" steel central plate and 0.38" thick x 4.00" x 10.00" steel side plates. ASTM A572 Grade 50.
- Pier Cap:** 4.00" wide x 7.50" long x 0.75" thick plate with pier confining ring welded to one side. ASTM A572 Grade 50.
- All-Thread Rod:** (2) - $\varnothing 5/8"$ x 14" long, zinc plated rod with nuts. AISI 1541, tensile strength = 120 ksi (min.).
- Pier Tube:** $\varnothing 2.875"$ x 0.165" wall x 36" long, triple-coated in-line galvanized. Yield strength = 50 ksi (min.). $\varnothing 2.50"$ x 0.180" wall x 6" long internal coupler at one end with 3" extending out of pier tube.



Allowable System Capacity: 15,000 lbs. ^{1,2}

Slab Pier Spacing ³

		Live Load				
		30 psf	40 psf	50 psf	60 psf	80 psf
Slab Thickness	3.50"	5'-0"	4'-6"	4'-3"	4'-0"	3'-9"
	4.00"	5'-6"	5'-0"	4'-9"	4'-6"	4'-3"
	4.50"	6'-0"	5'-6"	5'-3"	5'-0"	4'-6"
	5.00"	6'-6"	6'-0"	5'-9"	5'-6"	5'-0"
	6.00"	7'-3"	7'-0"	6'-6"	6'-3"	5'-9"
	8.00"	8'-9"	8'-6"	8'-3"	7'-9"	7'-3"

Notes:

- 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 piercing operation.
- 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.
- Slab pier spacing table offers general spacing guidelines for estimation purposes only. Actual system design and pier spacing shall be based on project conditions.