



PierTech Systems Helical Piles, Tiebacks & Anchors		Ultimate Capacity Based Upon Torque (kips - Kn) (1) (2)	Helix Bearing Plate Grade & Thickness (in - mm)	Section Coupling Method	Building Code Certifications
<b>Round Corner Square Bar (RCS)</b>					
Model S150	1.50 in - 38.1 mm ASTM A576, Grade 15V-30M Yield Strength = 90 ksi (min)	Comp = 70 kips - 311 kN Ten = 70 kips - 267 kN	ASTM A572 0.375 in - 9.5 mm 0.500 in - 12.7 mm 3 in. or 6 in Pitch	Patented Square Crossbolt (2) 0.75 in - 19.05 mm ASTM A325	None
Model S175	1.75 in - 44.5 mm ASTM A576 Grade 15V-30M Yield Strength = 90 ksi (min)	Comp = 110 kips - 489 kN Ten = 110 kips - 423 kN	ASTM A572 0.375 in - 9.5 mm 0.500 in - 12.7 mm 3 in. or 6 in Pitch	Patented Square Crossbolt (2) 0.875 in - 22.23 mm ASTM A325	None
<b>Round Shaft</b>					
Model RS2.88CL	O.D. = 2.875 in - 73.0 mm Wall = 0.217 in - 5.11 mm ASTM A500 Yield Strength = 60 ksi (min)	Comp = 80 kips - 356 kN Ten = Not-Rated	ASTM A572 0.375 in - 9.5 mm 0.500 in - 12.7 mm 3 in. Pitch	Patented Square Crossbolt (2) 0.75 in - 19.05 mm ASTM A325	ICC ESR-3969
Model RS2.88CL- HW	O.D. = 2.875 in - 73.0 mm Wall = 0.362 in - 9.20 mm API J55 Yield Strength = 60 ksi (min)	Comp = 140 kips - 623 kN Ten = 100kips - 445 kN	ASTM A572 0.375 in - 9.5 mm 0.500 in - 12.7 mm 3 in. or 6 in Pitch	Patented Square Crossbolt (2) 0.75 in - 19.05 mm ASTM A325	None
Model RS3.5	O.D. = 3.50 in - 88.9 mm Wall = 0.254 in - 6.45 mm API J55 Yield Strength = 80 ksi (min)	Comp = 77 kips - 343 kN Ten = 77 kips - 343 kN	ASTM A572 0.375 in - 9.5 mm 0.500 in - 12.7 mm 3 in. or 6 in Pitch	(3) 0.75 in - 19.05 mm ASTM A325	None
Model RS3.5-HW	O.D. = 3.50 in - 88.9 mm Wall = 0.30 in - 5.5 mm ASTM A500 Yield Strength = 45 ksi (min)	Comp = 91 kips - 405 kN Ten = Not Rated	ASTM A572 0.375 in - 9.5 mm 0.500 in - 12.7 mm 3 in. or 6 in Pitch	(3) 0.875 in - 22.23 mm ASTM A325	None
Model RS4.5.250	O.D. = 4.50 in - 114.3 mm Wall = 0.25 in - 6.35 mm API J55 Yield Strength = 80 ksi (min)	Comp = 136 kips - 605 kN Ten = 136 Kips - 605 kN	ASTM A572 0.375 in - 9.5 mm 0.500 in - 12.7 mm 3 in. or 6 in Pitch	(3) 0.875 in - 22.23 mm ASTM A325	None
Model RS4.5.337	O.D. = 4.50 in - 114.3 mm Wall = 0.337 in - 8.6 mm API J55 Yield Strength = 80 ksi (min)	Comp = 180 kips - 801 kN Ten = 136 Kips	ASTM A572 0.375 in - 9.5 mm 0.500 in - 12.7 mm 3 in. or 6 in Pitch	(3) 1.00 in - 25.40 mm ASTM A325	None
Model RS5.5.361	O.D. = 5.50 in - 139.7 mm Wall = 0.361 in - 9.14 mm API J55 Yield Strength = 80 ksi (min)	Comp = 250 kips - 1112 kN Ten = 150 kips - 667 kN	ASTM A572 0.500 in - 12.7 mm 0.750 in - 19.1 mm 3 in. or 6 in Pitch	Project Specific	Not applicable
Model RS6.625	O.D. = 6.625 in - 168.28 mm Project Specific	(2)	ASTM A572 0.500 in - 12.7 mm 0.750 in - 19.1 mm 3 in. or 6 in Pitch	Project Specific	Not applicable

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Model RS7.00	O.D. = 7.00 in - 177.8 mm Project Specific	(2)	ASTM A572 0.750 in - 12.7 mm 1.00 in - 25.4 mm 3 in. or 6 in Pitch	Project Specific	Not applicable
Model RS8.625	O.D. = 8.625 in - 219.08 mm Project Specific	(2)	ASTM A572 0.750 in - 12.7 mm 1.00 in - 33.02 mm 3 in. or 6 in Pitch	Project Specific	Not applicable
Model RS9.625	O.D. = 9.625 in - 228.6 mm Project Specific	(2)	ASTM A572 0.750 in - 12.7 mm 1.00 in - 33.02 mm 3 in. or 6 in Pitch	Project Specific	Not applicable
Model RS9.625	O.D. = 10.75 in - 273.05 mm Project Specific	(2)	ASTM A572 0.750 in - 12.7 mm 1.00 in - 33.02 mm 3 in. or 6 in Pitch	Project Specific	Not applicable
Model RS12.75	O.D. = 12.75 in - 323.85 mm Project Specific	(2)	ASTM A572 0.750 in - 12.7 mm 1.00 in - 33.02 mm 3 in. or 6 in Pitch	Project Specific	Not applicable
Model RS13.375	O.D. = 13.375 in - 339.73 mm Project Specific	(2)	ASTM A572 0.750 in - 12.7 mm 1.00 in - 33.02 mm 3 in. or 6 in Pitch	Project Specific	Not applicable
Model RS16.00	O.D. = 16.00 in - 406.4 mm Project Specific	(2)	ASTM A572 1.00 in - 33.02 mm 1.025 in - 31.75 mm 3 in. or 6 in Pitch	Project Specific	Not applicable
Model RS24.00	O.D. = 24.00 in - 609.6 mm Project Specific	(2)	ASTM A572 1.00 in - 33.02 mm 1.025 in - 31.75 mm 3 in. or 6 in Pitch	Project Specific	Not applicable

(1) The values shown only address torque correlated soil capacity. Other mechanical limit states of the pile/anchor, its couplers, and its connections to the structure (brackets) may also govern the design capacity. Refer to the manufacturer's technical manual for further information.

(2) Large diameter helical piles develop capacity by a combination of both end-bearing and skin friction. The ultimate pile capacity is calculated based on the site-specific soil profile on a case-by-case basis. Load tests are often recommended for larger shaft sizes to identify a site-specific torque correlation factor (Kt), to