



Hubbell-Chance 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 SS125	1.25 in - 31.8 mm ASTM A29; Modified AISI 1530, Yield Strength = 90 ksi (min)	Comp = 40 kips - 178 kN Ten = 40 kips - 178 kN	ASTM A572 Grade 50 0.375 in - 9.5 mm	(1) 0.63 in - 15.9 mm ASTM A325 Bolt	none
Model SS5	1.50 in - 38.1 mm ASTM A29; Modified AISI 1044 Yield Strength = 70 ksi (min)	Comp = 57 kips - 254 kN Ten = 57 kips - 254 kN	ASTM A572 Grade 50 0.375 in - 9.5 mm	(1) 0.75 in - 19.1 mm ASTM A325 Type 1 Bolt	ICC-ES ESR-2794 LA RR 25984
Model SS150	1.50 in - 38.1 mm ASTM A29; Modified AISI 1530, Yield Strength = 90 ksi (min)	Comp = 70 kips - 311 kN Ten = 70 kips - 311 kN	ASTM A656 Grade 80 0.375 in - 9.5 mm	(1) 0.75 in - 19.1 mm ASTM A325 Type 1 Bolt	none
Model SS175	1.75 in - 44.5 mm ASTM A29; Modified AISI 1530, Yield Strength = 90 ksi (min)	Comp = 105 kips - 467 kN Ten = 100 kips - 445 kN	ASTM A656 Grade 80 0.375 in - 9.5 mm std 0.50 in - 12.7 mm opt	(1) 0.875 in - 22.2 mm ASTM A193 Grade B7 Bolts	ICC-ES ESR-2794 LA RR 25984 CCMC-13193-R
Model SS200	2.00 in - 50.8 mm ASTM A29; Modified AISI 1530, Yield Strength = 90 ksi (min)	Comp = 160 kips - 712 kN Ten = 150 kips - 667 kN	ASTM A656 or A1018 Grade 80 0.50 in - 12.7 mm	(1) 1.25 in - 28.58 mm ASTM A193 Grade B7 Bolts	none
Model SS225	2.25 in - 57.2 mm ASTM A29; Modified AISI 1530, Yield Strength = 90 ksi (min)	Comp = 210 kips - 934 kN Ten = 200 kips - 890 kN	ASTM A656 or A1018 Grade 80 0.50 in - 12.7 mm	(1) 1.25 in - 28.6 mm ASTM A193 Grade B7 Bolts	none
<b>Round Shaft</b>					
Model RS2875.203	O.D. = 2.88 in - 73.0 mm Wall = 0.20 in - 5.2 mm ASTM A500 Grade B or C Yield Strength = 50 ksi (min)	Comp = 49.5 kips - 220 kN Ten = 49.5 kips - 220 kN	ASTM A572 Grade 50 0.375 in - 9.5 mm	(2) 0.75 in - 19.1 mm SAE J429 Grd 5 Bolts	none
Model RS2875.276	O.D. = 2.88 in - 73.0 mm Wall = 0.28 in - 7.0 mm ASTM A500 Grade B or C Yield Strength = 50 ksi (min)	Comp = 80.1 kips - 356 kN Ten = 76 kips - 338 kN	ASTM A656 Grade 80 0.375 in - 9.5 mm	(2) 0.75 in - 19.1 mm SAE J429 Grd 5 Bolts	ESR-2794
Model RS3500.300	O.D. = 3.50 in - 88.9 mm Wall = 0.30 in - 7.6 mm ASTM A500 Grade B or C Yield Strength = 50 ksi (min)	Comp = 87.5 kips - 389 kN Ten = 87.5 kips - 389 kN	ASTM A572 Grade 50 0.50 in - 12.7 mm	(3) 0.75 in - 19.1 mm SAE J429 Grd 5 Bolts	ESR-2794
Model RS4500.337	O.D. = 4.50 in - 114.3 mm Wall = 0.34 in - 8.6 mm ASTM A500 Grade B or C Yield Strength = 50 ksi (min)	Comp = 150 kips - 667 kN Ten = 150 kips - 667 kN	ASTM A572 Grade 80 0.50 in - 12.7 mm	(2) 1.00 in - 25.4 mm SAE J429 Grd 8 Bolts	none
Model RS6625.280	O.D. = 6.63 in - 168.3 mm Wall = 0.28 in - 7.1 mm ASTM A500 Grade B or C Yield Strength = 50 ksi (min)	Comp = 200 kips - 890 kN Ten = 200 kips - 890 kN	ASTM A572 Grade 80 0.50 in - 12.7 mm	(4) 1.0 in - 25.4 mm Grd 2 Studs	none

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Model RS8625.250	O.D. = 8.625 in - 219.1 mm Wall = 0.250 in - 6.4 mm ASTM A500 Grade B or C Yield Strength = 50 ksi (min)	Comp = 300 kips - 1335 kN Ten = 300 kips - 1335 kN	ASTM A572 Grade 80 0.50 in - 12.7 mm, or 0.75 in - 18.4 mm	(4) 1.25 in - 25.4 mm Grd 2 Studs	none

(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 determine the pile displacement versus load, and to verify the helical pile configuration.