

SS175 (SQUARE-SHAFT) ANCHORS HOLDING CAPACITY CHART FOR SS175 (SQUARE-SHAFT) ANCHORS

LOAD (1) CAPACITY BASED ON INSTALLATION TORQUE (2) -
TYPE SS 175 ANCHORS IN SOIL (POUNDS TENSION (kN))

Catalog No.	Length ft.(m)	Helix Dia in. (mm)	Installation Torque (ft-lb)									
			1500 (2.0)	2000 (2.7)	2500 (3.4)	3000 (4.1)	3500 (4.8)	4000 (5.4)	4500 (6.1)	5000 (6.8)	5500 (7.5)	6000 (8.1)
C1100227	2.5 (0.76)	8 (203) - 10 (254)	17000 (75.6)	23000 (102.3)	29000 (129.0)	34000 (151.2)	40000 (177.9)	46000 (204.6)	52000 (231.3)	58000 (258.0)	64140 (285.3)	69970 (311.2)
C1100884	3.5 (1.07)	10 (254) - 12 (305)	18000 (80.1)	24000 (106.8)	30000 (133.4)	36000 (160.1)	42000 (186.8)	48000 (213.5)	54000 (240.2)	60000 (266.9)	67030 (298.2)	73125 (325.3)
C1100235	5 (1.52)	8 (203) - 10 (254) - 12 (305)	19000 (84.5)	25000 (111.2)	31000 (137.9)	38000 (169.0)	44000 (195.7)	50000 (222.4)	56000 (249.1)	62000 (275.8)	69920 (311.0)	76280 (339.3)
C1100923	7.0 (2.13)	10 (254) - 12 (305) - 14 (356)	20000 (89.0)	26000 (115.7)	32000 (142.3)	39000 (173.5)	46000 (204.6)	52000 (231.3)	58000 (258.0)	65000 (289.1)	72720 (323.5)	79330 (352.9)
C1100247	10.0 (3.05)	8 (203) - 10 (254) - 12 (305) - 14 (356)	20000 (89.0)	27000 (120.1)	34000 (151.2)	40000 (177.9)	47000 (209.1)	54000 (240.2)	61000 (271.3)	68000 (302.5)	75310 (335.0)	82159 (365.5)

See holding capacity notes 1 & 2 at bottom of page

LOAD (1) CAPACITY BASED ON INSTALLATION TORQUE (2) - TYPE SS 175 ANCHORS IN SOIL (POUNDS TENSION (kN))

Catalog No.	Length ft.(m)	Helix Dia in. (mm)	Installation Torque (ft-lb)								
			6500 (8.8)	7000 (9.5)	7500 (10.2)	8000 (10.8)	8500 (11.5)	9000 (12.2)	9500 (12.9)	10000 (13.6)	10500 (14.2)
C1100227	2.5 (0.76)	8 (203) - 10 (254)	75800 (337.2)	81633 (363.1)	87464 (389.0)	93295 (415.0)	99126 (440.9)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)
C1100884	3.5 (1.07)	10 (254) - 12 (305)	79218 (352.3)	85312 (379.5)	91406 (406.6)	97500 (433.7)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)
C1100235	5 (1.52)	8 (203) - 10 (254) - 12 (305)	82635 (367.6)	88990 (395.8)	95348 (424.1)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)
C1100923	7.0 (2.13)	10 (254) - 12 (305) - 14 (356)	85943 (382.3)	92554 (411.7)	99165 (441.1)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)
C1100247	10.0 (3.05)	8 (203) - 10 (254) - 12 (305) - 14 (356)	89005 (395.9)	95852 (426.4)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)	100,000* (444.8)

*Minimum Ultimate Tension Strength = 100,000 lbs

See holding capacity notes 1 & 2 at bottom of page

LOAD (1) CAPACITY BASED ON SOIL CLASS LOAD CAPACITY OF TYPE SS 175 SCREW ANCHORS IN SOIL (POUNDS TENSION)

Helix Dia In. (mm)	Class 7	Class 6	Class 5	Class 4	Class 3	Class 2	Class 1
8 (203) - 10 (254)	19000 (84.5)	23000 (102.3)	27000 (120.1)	32000 (142.3)	36000 (160.1)	41000 (182.4)	45453 (202.2)
10 (254) - 12 (305)	21000 (93.4)	26000 (115.7)	31000 (137.9)	36000 (160.1)	41000 (182.4)	46000 (204.6)	51000 (226.8)
8 (203) - 10 (254) - 12 (305)	26000 (115.7)	32000 (142.3)	39000 (173.5)	46000 (204.6)	51000 (226.8)	58000 (258.0)	64020 (284.8)
10 (254) - 12 (305) - 14 (356)	29000 (129.0)	37000 (164.6)	45000 (200.2)	53000 (235.7)	61000 (271.3)	69000 (306.9)	77000 (342.5)
8 (203) - 10 (254) - 12 (305) - 14 (356)	31000 (137.9)	40000 (177.9)	49000 (218.0)	58000 (258.0)	67000 (298.0)	76000 (338.1)	85000 (378.1)

Note 1: Load capacities listed above are ultimate values based on average test data and are offered as an application guide. Typical deflection at ultimate load ranges between 2 and 4 inches. The listed values should be reduced by an appropriate factor of safety. More specific data on soils and anchor performance in any site condition can be obtained by contacting Hubbell Power Systems. Minimum installation depth of top helix is 5 x diameter of top helix. For example, if top helix is 12", the top helix should be 5' vertically below grade.

Note 2: The torque values shown are steady values in homogeneous soils. The torque values shown are obtained by averaging the readings from the last 2 feet of anchor penetration.

Hubbell Power Systems, Inc. | hubbellpowersystems.com



©Copyright 2017 Hubbell Incorporated. Because Hubbell has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.

