

HELICAL PILE REFERENCE GUIDE

Hubbell Power Systems, Inc. | CHANCE® Helical Piles

USE HELICAL PILES ANYWHERE TRADITIONAL
DEEP FOUNDATION TECHNOLOGIES ARE USED,
AND IN PLACES THEY ARE NOT, INCLUDING:

Low Headroom • Limited Access Areas • High Water Tables



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COMPARISON OF DEEP FOUNDATION ELEMENTS

WHEN TO USE CHANCE® HELICAL PILES

	Helical Piles	Micro Piles	Caissons	Driven Piles	Rammed Aggregate	CFA Piles
Capacity 300k ULT Load	✓	✓	✓	✓	✓	✓
Capacity 675k ULT Load	*	✓	✓	✓		
Predictable Load Capacities	✓			✓		
Ability To Install In Tight Access (5ft wide) and Low Headroom (8ft high)	✓	✓				
Limited or No Spoils	✓	✓		✓		
Limited / No Vibration, Noise	✓	✓	✓			✓
No Dewatering Required	✓	✓				✓
Obstructions In Soil (Boulders, Rubble, etc.)	+	✓				

* Multiple helical piles could be installed + Predrilling may be required



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GEOTECHNICAL CAPACITIES OF HELICAL PILES

Soil Type		Product Family		Axial Compression / Tension Capacity*	
"N ₆₀ "-Value** Cohesive	"N ₆₀ "-Value** Non-Cohesive	Helical Pile Shaft Size Inches (mm)	Torque Rating Ft-lb (N-m)	Ultimate Capacity [P _u] Kip (kN)	Allowable Capacity [P _a = 0.5 P _u] Kip (kN)
25 - 35	25 - 30	SS5 1-1/2 (38)	5,700 (7,730)	57 (254)	28.5 (127)
25 - 40	25 - 35	SS150 1-1/2 (38)	7,000 (9,500)	70 (312)	35 (156)
35 - 50	35 - 40	SS175 1-3/4 (44)	10,500 (14,200)	105 (467)	52.5 (234)
50 - 70	40 - 60	SS200 2 (51)	16,000 (21,700)	160 (712)	80 (356)
70 - 90	60 - 80	SS225 2-1/4 (57)	21,000 (28,475)	210 (934)	105 (467)
20 - 25	15 - 20	RS2875.203 2-7/8 (73)	5,500 (7,500)	49.5 (220)	24.75 (110)
25 - 35	20 - 30	RS2875.276 2-7/8 (73)	8,000 (10,850)	72 (320)	36 (160)
35 - 40	30 - 35	RS3500.300 3-1/2 (89)	13,000 (17,600)	91 (405)	45.5 (202)
35 - 40	30 - 35	RS4500.337 4-1/2 (114)	23,000 (31,200)	138 (614)	69 (307)

CHART: CHANCE Helical Pile / Anchor Load Capacity, Table 7-4 FROM: CHANCE Technical Design Manual, Edition 3

*Based on torque rating and well documented correlations with installation torque



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LOAD TEST DATABASE

Provided by the Helical Pile Association

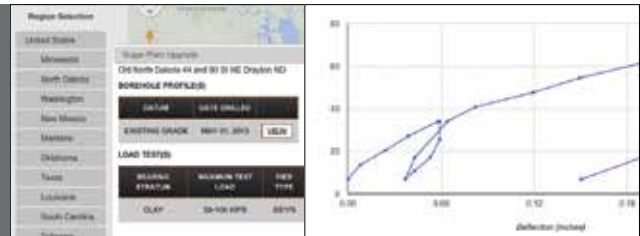
Hubbell Power Systems, Inc., along with CHANCE® Distributors and Certified Installers have conducted hundreds of load tests on CHANCE Helical Piles across the United States, Canada and the Caribbean. To review the load tests, please visit the Helical Pile Association website.

Contact us to learn more:

PHONE: 855.477.2121

EMAIL: civilconstruction@hubbell.com

WEB: loadtest.helicalpileassociation.com/



DATABASE PROVIDES:

- Focus search by State
- Information available by location and maximum load
- Borehole and load test results for each individual test site
- Load performance graphs for each test



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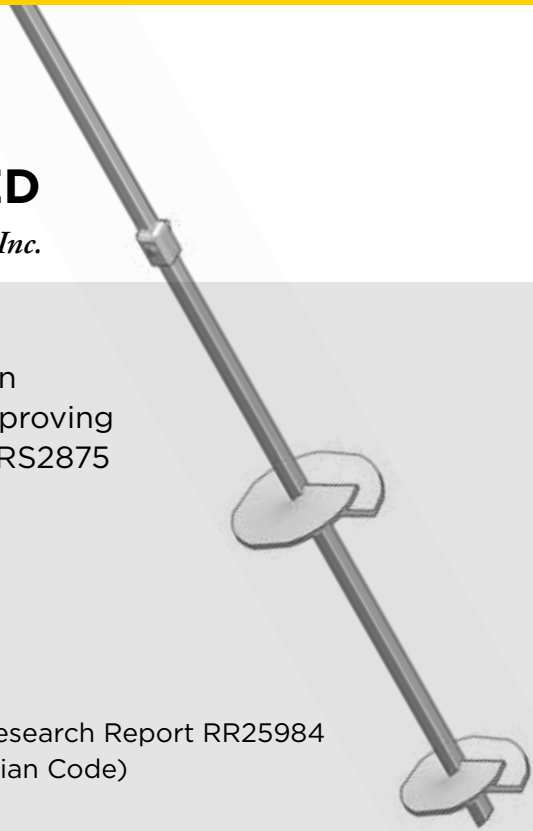
BUILDING CODE APPROVED

Advantages of working with Hubbell Power Systems, Inc.

Building officials, architects, contractors, specifiers, and designers utilize evaluation reports to provide a basis for using or approving CHANCE® Type SS5 SS175, RS3500, and RS2875 Helical Foundation Systems in projects.



- ICC-ES ESR-2794
- City of Los Angeles Research Report RR25984
- CCMC 13193-R (Canadian Code)



HUBBELL POWER SYSTEMS' ADVANTAGE

CHANCE® Helical Piles

TRUST

Over 100 years of engineering and installation experience

QUALITY

ISO 9001 Certified providing a customer-focused performance improvement

MADE IN THE USA

Manufactured in the heartland, using mill direct prime steel

WARRANTY

CHANCE brand Helical Piles are backed by the best warranty in the industry

SERVICE

Over 30 Application Engineers within the CHANCE Alliance Network

SUSTAINABLE

CHANCE Helical Piles are made from recycled steel; and can be removed and reused



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