

Material Specifications

a. Central Shaft Steel

i. Round Hollow Shaft

Mechanical Properties

Minimum Yield Strength: 55ksi

Minimum Tensile Strength: 75ksi

Shaft Size

2-7/8" o.d. (.217" w.t)

3-1/2" o.d. (.254" w.t)

Torque Rating

2-7/8" o.d. (.217" w.t) – 8,000ft-lbs.

3-1/2" o.d. (.254" w.t) – 11,000ft-lbs.

Torque to Capacity Ratio

2-7/8" o.d. (.217" w.t) – 9 ft¹(recommended)

3-1/2" o.d. (.254" w.t) – 7 ft¹(recommended)

Ultimate Mechanical Capacity

2-7/8" o.d. (.217" w.t) – 80,000lbs.

3-1/2" o.d. (.254" w.t) – 120,000lbs.

ii. Solid Square Shaft

Mechanical Properties

Minimum Yield Strength: 90 ksi

Minimum Tensile Strength: 120 ksi

Shaft Size

1-1/2" x 1-1/2"

1-3/4" x 1-3/4"

Torque Rating

1-1/2" x 1-1/2" – 7,000ft-lbs.

1-3/4" x 1-3/4" – 10,000ft-lbs.

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Torque to Capacity Ratio

1-1/2" x 1-1/2" – 10 ft⁻¹ (recommended)
1-3/4" x 1-3/4" – 10 ft⁻¹ (recommended)

Ultimate Mechanical Capacity

1-1/2" x 1-1/2" – 80,000lbs.
1-3/4" x 1-3/4" – 100,000lbs.

b. *Helices*

- i. *Minimum Yield Strength: 50ksi*
- ii. *Diameter: 8 inch - 16 inch*
- iii. *Pitch: 3inch or 6inch*
- iv. *Thickness: 3/8inch or 1/2inch*

c. *Finish*

- i. *Galvanized or bare steel*
- ii. *All galvanized steel per ASTM A123/153*

d. *Hardware*

- i. *Grade 5 or equivalent for 2 -7/8" or 3 -1/2" piles, and 3/4" x 4 -1/2" and 3/4" x 5 -1/2" Respectively.*
- ii. *Grade 8 or equivalent for 1-1/2" or 1 -3/4" pile, and 3/4" x 3 -1/2" and 7/8" x 4 -1/2" Respectively.*

e. *Bracket*

- i. *All steel plate 36 ksi min. Yield.*

Exclusive Products:



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