

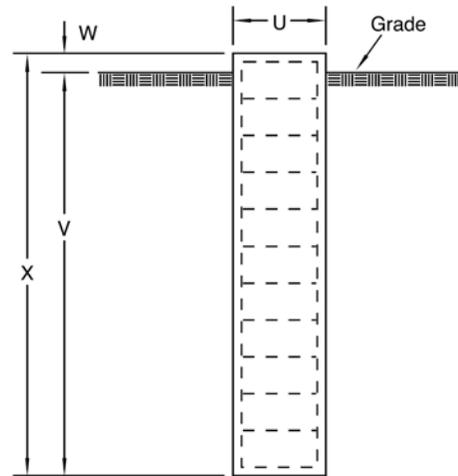


**Series UL Self-Supporting Tower
Caisson Foundation
For EIA Normal 4000 PSF Soil**

Concrete and Rebar Data

| Foundation Designator | A | B | C | D | E |
|--------------------------------------|--------|--------|---------|---------|---------|
| Diameter of Caisson (ft.) (U) | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Ht. of Caisson Below Grade (ft.) (V) | 11.0 | 13.0 | 18.0 | 23.0 | 27.0 |
| Ht. of Caisson Above Grade (ft.) (W) | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Total Height of Caisson (ft.) (X) | 11.5 | 13.5 | 18.5 | 23.5 | 27.5 |
| Vertical Rebars (Qty & Size) | (6) #7 | (6) #7 | (10) #8 | (10) #8 | (10) #8 |
| Required Cu. Yds. Concrete (3 Fnds.) | 6.27 | 7.35 | 10.08 | 12.81 | 15.00 |

Elevation View (3 required)



Two (2) #4 ties are required within the top 5-in of the pier and are spaced on 12-in centers thereafter.

Anchor Bolt Data

| Foundation Designator | A | B | C | D | E |
|-------------------------------|------|------|------|------|------|
| Anchor Bolt Size (in.) | 0.75 | 0.75 | 0.75 | 0.75 | 1.00 |
| Anchor Bolt Qty (3 Fnds.) | 12 | 12 | 12 | 12 | 12 |
| Diameter of Bolt Circle (in.) | 5.25 | 6.50 | 6.50 | 6.50 | 8.50 |

Notes:

- Concrete to conform to the requirements of ACI 318-02 and shall have a minimum 28-day compressive strength of 3,000 psi. All concrete is to be placed against undisturbed soil free of water and any foreign materials.
- Rebar to conform to the requirements of ASTM Specification A615 Grade 60. All rebar to have a minimum of 3-in (7.62-cm) concrete cover.
- All exposed concrete corners to be chamfered 3/4-in.
- Foundations designed in accordance with ANSI/TIA/EIA-222-F-1996 using the following:
 - 1/3 allowable stress increase considered
 - Allowable net vertical bearing capacity = 4000 psf
 - Allowable net horizontal pressure = 400 psf/ft. depth (to a maximum of 4000 psf)
 - Soil density = 100 pcf
 - Concrete density = 150 pcf
 - Water table located below bottom of foundation
 - Frost depth less than depth to bottom of foundation
 - For uplift capacity, weight of foundation plus weight of soil enclosed within an inverted pyramid or cone whose sides form an angle of 30-degrees with the vertical.
- A soil analysis should be performed to determine the appropriate site specific parameters to be used for design of the foundations. Foundation designs should be evaluated by a competent registered professional engineer for each particular application.