



All components of the new Pinnacle Water Tanks are made in the USA!

### **WATER TANK SPECIFICATIONS**

A Pinnacle Water Tank is a storage system utilizing a corrugated, galvanized Steel enclosure in conjunction with a liquid-tight liner. Pinnacle Water Tanks Inc. offers 30 degree conical roof, 10 degree conical roof, and slightly domed roof. The different packages do not change the quantity that the tank holds.

The tank is designed to store potable or nonpotable water with a density of 62.4 PCF.

Wall sheets are continuous 2-2/3" depth x 1/2" W pitch (67.7MM x 12.7MM) corrugated galvanized steel with minimum yield strengths of 57,000 psi (3990 Kg/CM<sup>2</sup>) (Tensile strength 65,000+psi (4550 Kg/CM<sup>2</sup>+). All zinc coating shall conform to G-115 (275 grams/square meter) specifications. Thicker zinc coatings are available by request. Wall sheets have a 42-2/3" (1,083.7MM) nominal coverage. Bottom wall sheets have an inward return flange for additional bearing on foundation. Wall sheets have a coverage length of 9'4-1/2" (2,858 M) long.

Vertical seams are punched for single row or double row connections at 1-1/3" o.c. (34MM). use of single row or double row of bolts at vertical seam is dependent upon diameter and depth of tank.

Horizontal seams are a single lap connection, using a single row of high-strength bolts. Maximum bolt spacing shall be 9-3/8" (238 MM).

Tanks may be supplied with a one-piece, 12-gauge (2.67MM) galvanized steel die-formed anchor clip (minimum one per wall sheet) Anchor clip shall be bolted to the tank wall with four bolts. Anchor clip is designed to contact a concrete base.

Water tanks have a 30 degree or 10 degree slope and use single-stage self-supporting roof sheets

Roof sheets are triangular sections of galvanized steel, with raised ribs along each side, flat area between the ribs (except (1.83M, 2.44M and 2.74M) diameter) and a 90-degree formed drip edge at the eave. Panels are manufactured from 6-115 galvanized steel conforming to ASTM A 446, Grade C, or greater.

Roofs of tanks 12' and 15' (3.66M and 4.57M) have 23 panels (22 straight panels, and 1 double wide with roof hatch.) Roofs of tanks 18' through 24' (5.48M-7.32M) diameter have 24 roof panels. Roofs of tanks 27' through 36' (8.23M-10.97M) diameter have 36 roof panels. Panels shall have a formed box-type rib with a rib height of 3-1/4 inch (82MM) rise above flat area. All roof panels (except 6',8' and 9' (1.83M, 2.44M and 2.74M) shall be connected to the eave of the tank with center clips and a varying number of rib clips depending on tank diameter. Holes in the top ring wall sheets are factory punched for clip installation.

Roof ladder cleats extend from eave to center cap. Ladder cleats consist of galvanized steel cold-formed angles of varying lengths bolted to top of one roof panel. (Not supplied on 6' (1.83M) diameter.

Center opening is 22" (560MM) diameter for tanks 6' through 24' (1.83M - 7.32) center opening is 36" (914MM) diameter for tanks 27' through 36' (8.23M.10.97M) diameter.

Each roof 12' (3.66M) diameter and larger shall have one panel equipped with a factory installed hinged manhole access hatch and latch. Roof access hatch is located at the eave next to the roof ladder. Access hatch is trapezoidal shaped, dimensions are 24" x 16" x 19" (610MMx406MMx483MM)

Standard water tanks are designed for 90 MPH (144 KPH) wind speed, UBC Exposure C.

Pinnacle Water Tanks are designed for Seismic Zone 2B. The construction of many tanks will meet the Seismic Zone 3 or Seismic Zone 4 loading requirements. Special tanks ordered upon request.

All bolts and nuts are electro-galvanized with JS-500 clear coat protective coating. Roof bolts have factory-installed steel-backed PVC washers. Wall sheet bolts have slotted button heads for insertion from inside toward outside. Special DT1500 coated bolts are available upon request.

All bolts are heat treated and meet SAE Grade 8.2 or stronger specifications.

Optional equipment can be purchased. Please contact us if you require safety cages, roof vents, etc.