

Pressure Tank Construction Checklist

Texas Commission on Environmental Quality
Water Supply Division
Plan Review Team MC-159
P.O. Box 13 087, Austin, Texas 78711-3087

Public Water System I.D. No. _____
TCEQ Log No. P-_____

The following list is a brief outline of the "Rules for Public Water Systems", 30 TAC Chapter 290 regarding proposed pressure tank construction. Sealed plans, capacity report, and specifications meeting, but not limited to, the minimum requirements cited here shall be prepared under the supervision of a Texas licensed professional engineer and submitted to TCEQ for approval. This list is not a substitute for the rules and this checklist cannot be accepted in lieu of the required engineering submittals. Failure to submit the following items may delay project approval. Copies of the rules may be obtained from Texas Register, 1019 Brazos St, Austin, TX, 78701-2413, Phone: (512) 463-5561 or downloaded from the website: <http://www.tceq.texas.gov/rules/indxpdf.html>

1. The minimum capacity shall be governed by the requirements in §290.45 relating to Minimum Water System Capacity Requirements; [§290.43(a)]
2. Submission of engineering report showing the adequacy of the facilities with regard to delivery capacity and pressure throughout the system; [§290.39(e)(1)(H)]
3. Wholly above grade and steel construction with welded seams except for seamless fiberglass (see #10); [§290.43(d)]
4. Metal thickness for pressure tanks shall be sufficient to withstand the highest expected working pressures with a 4:1 factor of safety. Tanks of 1,000 gallons capacity or larger must meet the standards of the American Society of Mechanical Engineers (ASME) Section VIII, Division 1 Codes and Construction Regulations and must have an access port for periodic inspections. An ASME name plate must be permanently attached to those tanks; [§290.43(d)(1)]
5. Pressure release device and an easily readable pressure gauge; [§290.43(d)(2)]
6. Air-water-volume controls, filter on air injection lines, a device to readily determine air-water-volume (i.e. a sight glass); [§290.43(d)(3)]
7. Protective paint or coating shall be applied to the inside and shall conform to ANSI/NSF Standard 61 and certified by an organization accredited by ANSI; [§290.43(d)(4)]
8. Not previously used for any purpose other than potable water. Where a used tank is proposed, a letter from the previous owner must be submitted which states the use of the tank; [§290.43(d)(5)]
9. Should be equipped with slow closing valves and time delay pump controls; [§290.43(d)(6)]
10. Seamless fiberglass tanks shall not exceed 300 gallons in capacity; [§290.43(d)(8)]
11. No more than 3 pressure tanks at any one site; and [§290.43(d)(9)]
12. Enclosed by an intruder resistant building or fence with lockable gates. [§290.43(e)]