SuperVault Specification

INSULATED AND PROTECTED ABOVEGROUND FUEL STORAGE TANK with a 4-Hour Fire Rating

The aboveground fuel storage tanks must be listed and labeled to the Multi-Hazard Standard SwRI-95-03 by Southwest Research Institute. A sample copy of the tank’s label and certification must be included with your bid. Tank coating must be a high quality epoxy and urethane paint system. The primary and secondary containment must be steel and must be pressure testable. The insulated and protected tank shall also have passed an annulus fluid communication test certified by the listing agency to verify monitor-ability of the secondary containment.

The insulating concrete used in the construction of the protected aboveground storage tank must include cement, aggregate and water. Cementitious slurries that lack aggregate or include foam fillers are not concrete and will not be acceptable. Expanded polystyrene material is not permitted in the fire protected tank assembly due to detrimental effects that would be created by exposure to a petroleum leak or to extreme heat.

The protected aboveground storage tank shall consist of a single-wall steel internal tank surrounded by a layer of lightweight insulating concrete providing the tank with a 4-hour fire rating. The insulating concrete shall be protected by an outer steel secondary containment tank.

The primary tank shall be constructed of steel plate not less than 3/16” thick for tanks for 4,000 gallons or less and not less than ¼” for tanks with a total capacity over 4,000 gallons. For fuel storage tanks the tank fill connections shall be installed inside a spill containment pan with a capacity of not less than 14 gallons. The protected tank assembly shall be constructed with integral concrete-filled steel supports that provide the ability to rigidly anchor the tank to its concrete foundation for resistance to seismic loads. The supports shall be approved for Seismic Zone 4.

The tank shall carry a label from a nationally recognized independent test laboratory showing approval for UFC Standard A-11-F-1 (formerly known as UFC Standard 79-7) and shall state that the fire, hose stream, ballistics and impact tests were all performed on a single fully assembled test tank.

Acceptable tank is SuperVault MH Model D or equal. If submitting equal you must submit a copy of the tank test results with your bid. These must show the results for the Fire Test, Hose Stream Test, Projectile Penetration Test and Heavy Vehicle Impact Test. No test is exempt all must fall within the guidelines of Uniform Fire Code Test Standard A-11-F-1 (formerly known as UFC Standard 79-7).