

Aboveground Fuel Storage Tank Specifications

Using Multi-Hazard, Protected Aboveground Tanks

The Aboveground Fuel Storage Tank (AST) must be listed and labeled to the Southwest Research Institute Multi-Hazard Standard 95-03. A copy of the tank's label and certification must be included with bid. The primary and secondary containment must be steel and pressure testable in accordance with UL Standard 142. The multi-hazard, protected AST shall have passed an annulus fluid communications test, certified by the listing agency, verifying the ability to monitor the secondary containment with the insulation in place.

The multi-hazard, protected AST shall consist of a single wall steel internal tank surrounded by a layer of lightweight, insulating concrete providing the AST with a 4-hour fire rating. The lightweight, insulating concrete shall be protected by an outer steel secondary containment tank. The secondary containment tank exterior coating must be a high quality epoxy and urethane paint system.

The lightweight, insulating concrete used in the construction of the multi-hazard, protected AST must include cement, aggregate and water. Cementitious slurries that lack aggregate or include foam fillers are not acceptable.

The primary tank shall be constructed of steel plate not less than 3/16" thick for tanks of 4,000 gallons or less and not less than 1/4" for tanks with a total capacity over 4,000 gallons. Tank fill connection shall be installed inside a spill containment pan with a capacity of not less than 15 gallons. The multi-hazard, protected AST shall be constructed with integral concrete-filled steel supports that provide the ability to rigidly anchor the tank to its concrete foundation.

The multi-hazard, protected AST shall carry a label from a nationally recognized independent test laboratory stating that fire, hose stream, ballistics and impact tests were performed on a single fully-assembled test tank.

The multi-hazard, protected AST shall be the *MH* Series **SuperVault** as manufactured by Industrial Metal Fabricators, Inc., Park Equipment Company, Dunn Industries, Trusco Tank, or approved equal.