

NJ State Fuel Tank Contract News

Fuel Site Safety & Beyond

Universal Valve and their wide variety of safety bollards meet the standards of safety and protection you want in your fuel site, pedestrian walkways and other key locations.



State Contract
Approved

Inside this issue

- Top 5 Reasons to use State Contract Approved
- Meeting New & Higher Safety Ratings
- About Hardened Sites

Yeager Engineered Systems
August 2018

How Safe Do You Want To Be?

- Pedestrian Walk Ways
- Building Access
- Fuel Storage
- Schools and Playgrounds



**Removable or Retractable
15-55 mph, 60,000 lbs**



BOLLARDS
are available
in carbon steel
and stainless
steel in all
sizes.



Top 5 Reasons To Use State Contract:

1. **Price** – ConVault tank prices reflect 2010 pricing and are the lowest prices you can find.
2. **Quality** – All of our manufacturers are top-of-the-line. These include ConVault, Veeder-Root, Universal Valve, and BRUGG.
3. **Speed** – All of the contractors listed in this newsletter:
 - Have 24-hour emergency services for fuel spills, leak alarms, pump down, shear valve repair or replacement, high host heavy duty hose retriever, replacement manhole lids, etc.
 - Have fast service for the replacement of components by any manufacturer.
 - Begin construction the day the tank arrives and stay on the job until it is finished, unless otherwise designed by owner.
4. **Service** – All of the installers in this newsletter are 5-star contractors. They are licensed, fully insured, show up and finish on time. All are members of NJ Petroleum Contractors Association. They know the current codes, as well as those that are forthcoming.
5. **Free Design Assistance** – Yeager Engineered Systems, a nationally recognized municipal and commercial fuel expert, has been charged with assisting, planning, reviewing, providing cost and time of construction estimates, etc. We can work with your engineer, DPW supervisor, or whomever you direct.



Visit our Booths 1155,1157,1159,1161

**Talk to the Factory Engineers
& Schedule an Appointment
973-534-4425**

**Veeder Root • Gasboy • Diesel Pure • Universal
Valve • Omer Parking Garages and Heavy Duty
Lifts • Titan DEF Solutions**

**Free Site Assessments & Cost Projections
Your office of mine.
973-534-4425**

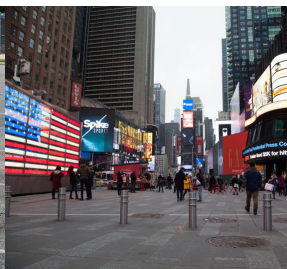
**Convault Tank will be there too, featuring new
DOD safety.**

**The NJLM Conference 2018 rolls out inspiration
to plan for the future.**

**The 103rd League Conference will be held at the
Atlantic City Convention Center Nov. 13-15**



Now Meeting Department of Defense High Security Rating



With increasing threats vehicle barriers are becoming more popular at many facilities such as gas stations, shopping malls, and restaurants etc., to protect people and property.

The following standards and requirements are governed by the U.S. Department of State for the implementation of vehicle barriers:

At minimum, each manufacturer must have one vehicle barrier tested and certified by DOS prior to the award of contract.

The standard given by the U.S. DOS (SD-STD-02.01) specifies perpendicular barrier impact by a 15,000 lb. (6810 kg) vehicle.

Based on crash test data, a passenger car of average size weighing 1.2 tons (2400 lbs) traveling at 40 mph will generate a force during impact equivalent to 50 tons, when it strikes a bollard.



Hardened Site-

A site, normally constructed under rock or concrete cover, designed to provide protection against the effects of conventional weapons. It may also be equipped to provide protection against the side effects of a nuclear attack and against a chemical or a biological attack.

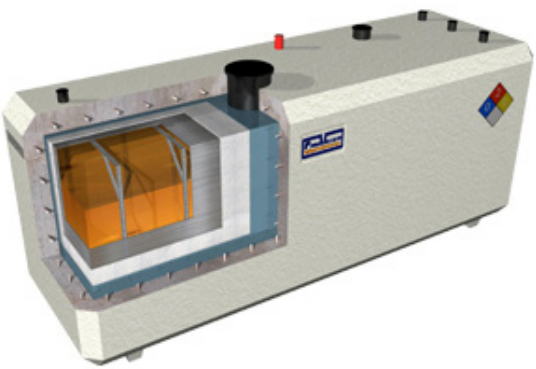
JFC 4-023-07
7 July 2008

Table 5-3. Ballistics Resistant Construction

| Threat Level | Reinforced Concrete ¹ | CMU ² or Brick ¹ | Steel Plate ¹ | | Bullet Resistant Fiberglass ¹ |
|------------------------|----------------------------------|----------------------------------------|--------------------------|----------------------|------------------------------------------|
| | | | Mild ³ | Armor ⁴ | |
| Low | 2-1/2 inches (64 mm) | 4 inches (100 mm) | 5/16 inches (8mm) | 1/4 inches (6mm) | 7/16 inches (14mm) |
| Medium | 4 inches (100 mm) | 8 inches (200 mm) | 9/16 inches (14 mm) | 7/16 inches (11 mm) | 1-1/8 inches (28.4mm) |
| High | 6-1/2 inches (165 mm) | 8 inches (200 mm) | 13/16 inches (21 mm) | 11/16 inches (18 mm) | Note 5 |
| Very High ⁵ | 22 inches (560 mm) | 30 inches (760 mm) | 1-1/4 inches (32 mm) | 1 in. (25 mm) | Note 5 |

1. All thicknesses are nominal thicknesses. Reinforcement ration is not a significant factor in bullet resistance.
2. For concrete masonry unit construction, all cells must be grouted full.
3. Brinnell Hardness Number for mild steel is 110 to 160
4. Brinnell Hardness Number for rolled homogeneous armor is 220 to 350
5. Bullet resisting fiberglass is not commonly available for bullets of these calibers or compositions.
6. The following construction configurations have also been tested against 0.50 caliber (12.7 mm) rounds:
• 4-inch (100-mm) solid CMU, 3/4-inch (19-mm) rigid polyether urethane insulation, 8-inch (200-mm) grout-filled CMU.
• 6-inch (150-mm) grout-filled CMU, 3/4-inch (19-mm) rigid polyether urethane insulation, 8-inch (150-mm) grout-filled CMU

Hardened Protection & Security for Fuel Storage
ConVault UL 2085/UL 752 Fuel Storage Systems
The Safest AST Made



ConVault has never compromised on safety.

Designed to surpass UL 2085 standards performance tests to protect life, property, and the environment.

Protected secondary containment with seamless six-inch concrete vault design offers maximum protection against natural disasters, vehicle and projectile impact.

Table 2-1. Threat Parameters

| Design Basis Threat | Weapons / Standards | Effective Range |
|---------------------|----------------------------------------------------------------------|--------------------------|
| Very High | Anti-tank weapons ANSI/UL 752 Level 10 (12.7 mm / .50 caliber) | AT Weapon: 300 meters |
| | | .50 Caliber: 2000 meters |
| High | ANSI/UL 752 Level 9 (.30 caliber Armor Piercing) | 800 meters |
| Medium | ANSI/UL 752 Level 5 (7.62 mm / .308 caliber) | 1000 meters |
| Low | ANSI/UL 752 Level 3 (.44 caliber Magnum) | 100 meters |

**Offering
Advanced
Ballistics
Protection.**

ConVault Meets DoD Guidelines for Resistance to a Direct Fire Weapon “HIGH LEVEL” Threat

ConVault is the only fuel storage system to carry the UL 752 Security Listing (Levels 5, 6 and 8) for ballistic resistance.

ConVault has also passed the ratings requirements for armor piercing munitions specified by a number of organizations where protection and safety are a vital concern:

National Institute of Justice (NIJ) Level 4
State Dept. (SD-STD-.02.01)
Revision G
ASTM F-1233
Underwriter’s Laboratory Security Listing UL 752 (Level 9)

Habegger Equipment
State Contract #: A42261

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