PRODUCT DETAILS

Fireguard® tanks are thermally protected, double-wall steel aboveground tanks. Fireguard® is an alternative for the safe storage of motor fuels and other flammable and combustible liquids aboveground. They are used where a fire-protected tank is needed because of setback limitations or regulatory requirements. These tanks are UL labeled and meet or exceed the requirements of UL-2085 including:

» Two-Hour Full Scale Pool Fire Test
» Hose Stream Test
» Ballistics/Projectile Test
» Vehicle Impact Test
» Interstitial Communication Test

Blast effect analysis proved Fireguard® resists, with limited damage to the primary steel tank, the effects of a 50 lb man-portable explosive device, a 500 lb vehicle-born improvised explosive device, and a 10 psig vapor cloud explosion. Fireguard® tanks are approved and labeled for service in New York City with the addition of flanged and dished heads and a 15 to 50 psi hydro-test on the inner tank.

Fireguard® Features

Each tank is constructed with a minimum 3” interstice around the inner tank. The interstice is completely filled with a lightweight, monolithic material. This high efficiency insulation protects the inner tank in the unlikely event of a fire or extreme heat.

It is porous to allow fluid migration through the interstice to the monitoring point.

Unlike concrete encased tanks, Fireguard® tanks’ steel outer wall protects the insulation, eliminating the problem of cracking and spalling concrete. Because of its unique construction, each tank is pressure-testable in the factory and at the job-site.

With Fireguard®, there is no question of compliance with fire codes; the tank is shipped with factory-installed emergency vents on both the primary and the secondary containment tanks for protection if exposed to fire or excessive pressure.
double-wall, fire-protected

pre-engineered design options

solution oriented designs

Fireguard® Advantages

- Carries UL-2085 listing as Insulated Secondary Containment for Flammable Liquids
- Lightweight – insulation 75% lighter than concrete – costing less to ship and install
- Reduces tank setback and separation distance requirements by up to 50%
- Fireguard’s® secondary containment can be tightness-tested on-site
- Steel outer wall protects insulation
- Available in rectangular or cylindrical design
- Wide range of tank capacities: 300-60,000 gallons
- Subject to strict, three-tier independent third-party quality assurance program
- STI® standard 30-year limited warranty
Highland Tank offers a wide range of accessories and options to configure your tank for your specific application including:

**Fireguard® Design Options**

**Diesel or Biodiesel Blend:**
Top-fill and top-mounted pump suction system. This configuration is popular in many small diesel or biodiesel vehicle fueling applications.

**Boiler or Emergency Diesel-Electric Generator:**
Suction system with top-fill supply and return lines. This is a typical Fireguard® layout for fuel oil applications or supplying stationary combustion engines used for auxiliary power and emergency generators at first responder or mission critical facilities.

**Gasoline or E85 Ethanol:**
Suction system with remote fill and pump. This arrangement is common at many fleet vehicle maintenance facilities for diesel, biodiesel, gasoline or E85 fuel ethanol dispensing.

**Aviation Refueling:**
Fireguard® Tank as part of a modular system with pump and filtration module. This arrangement would include an additional module(s) for direct-to-plane, truck load or remote dispensing. A specific application at a military or commercial installation would dictate engineered fueling systems.
## Rectangular

<table>
<thead>
<tr>
<th>Volume (Gallons)</th>
<th>Width</th>
<th>Height</th>
<th>Length</th>
<th>Diameter</th>
<th>Overall Height</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>3'-0&quot;</td>
<td>3'-0&quot;</td>
<td>4'-6&quot;</td>
<td>4'-0&quot;</td>
<td>4'-3&quot;</td>
<td>5'-6&quot;</td>
</tr>
<tr>
<td>500</td>
<td>3'-0&quot;</td>
<td>3'-0&quot;</td>
<td>7'-6&quot;</td>
<td>4'-0&quot;</td>
<td>4'-3&quot;</td>
<td>8'-6&quot;</td>
</tr>
<tr>
<td>1,000</td>
<td>4'-8&quot;</td>
<td>3'-0&quot;</td>
<td>9'-8&quot;</td>
<td>5'-2&quot;</td>
<td>3'-7&quot;</td>
<td>10'-3&quot;</td>
</tr>
<tr>
<td>2,000</td>
<td>6'-4&quot;</td>
<td>4'-0&quot;</td>
<td>10'-8&quot;</td>
<td>6'-10&quot;</td>
<td>4'-7&quot;</td>
<td>11'-3&quot;</td>
</tr>
<tr>
<td>3,000</td>
<td>5'-5&quot;</td>
<td>5'-5&quot;</td>
<td>13'-9&quot;</td>
<td>6'-0&quot;</td>
<td>6'-0&quot;</td>
<td>14'-4&quot;</td>
</tr>
<tr>
<td>4,000</td>
<td>5'-5&quot;</td>
<td>5'-5&quot;</td>
<td>18'-3&quot;</td>
<td>6'-0&quot;</td>
<td>6'-0&quot;</td>
<td>18'-10&quot;</td>
</tr>
<tr>
<td>5,000</td>
<td>5'-5&quot;</td>
<td>5'-5&quot;</td>
<td>22'-10&quot;</td>
<td>6'-0&quot;</td>
<td>6'-0&quot;</td>
<td>23'-5&quot;</td>
</tr>
<tr>
<td>6,000</td>
<td>10'-10&quot;</td>
<td>5'-5&quot;</td>
<td>13'-9&quot;</td>
<td>11'-4&quot;</td>
<td>6'-0&quot;</td>
<td>14'-4&quot;</td>
</tr>
<tr>
<td>8,000</td>
<td>10'-10&quot;</td>
<td>5'-5&quot;</td>
<td>18'-3&quot;</td>
<td>11'-4&quot;</td>
<td>6'-0&quot;</td>
<td>18'-10&quot;</td>
</tr>
<tr>
<td>10,000</td>
<td>10'-10&quot;</td>
<td>5'-5&quot;</td>
<td>22'-10&quot;</td>
<td>11'-4&quot;</td>
<td>6'-0&quot;</td>
<td>23'-5&quot;</td>
</tr>
<tr>
<td>12,000</td>
<td>10'-10&quot;</td>
<td>5'-5&quot;</td>
<td>27'-5&quot;</td>
<td>11'-4&quot;</td>
<td>6'-0&quot;</td>
<td>27'-11&quot;</td>
</tr>
</tbody>
</table>