



FIREGUARD[®]

Fire-Rated Aboveground Tanks



Modern Welding Company, Inc.

Toll Free: (800) 922-1932

Phone: (270) 685-4400

modweldco.com

Why Fireguard®?



FIREGUARD® double-wall, fire-protected aboveground storage tanks feature an inner and outer steel tank with lightweight thermal insulation that exceeds the UL 2-hour fire test.

Features

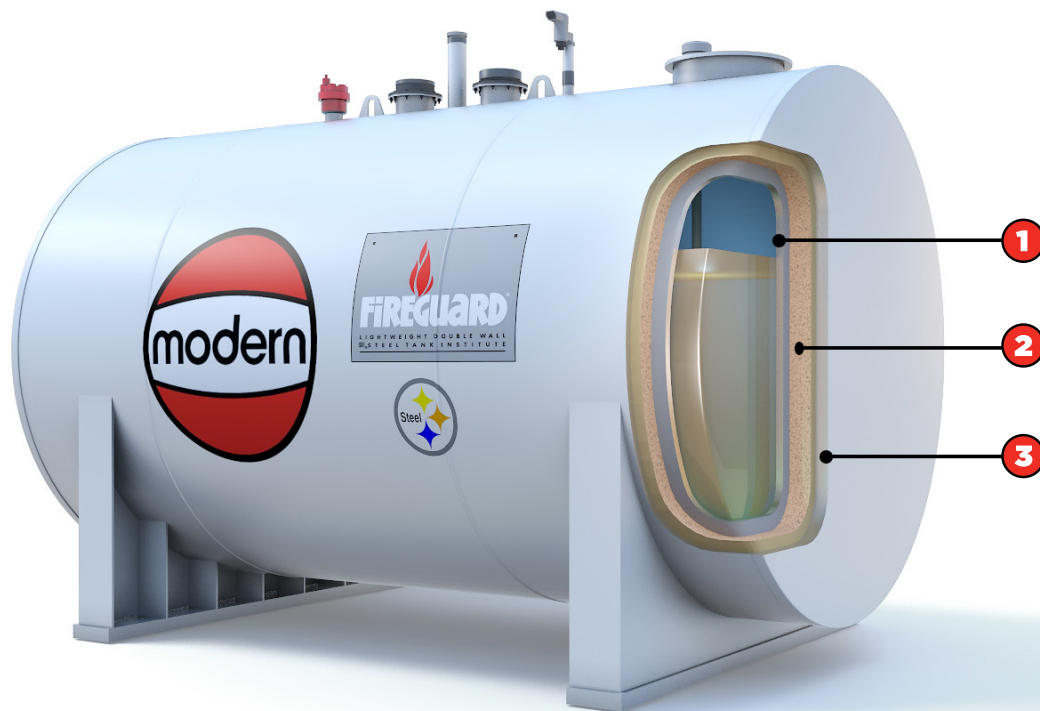
- Insulating material is 75% lighter than concrete, reducing shipping, installation and relocation costs
- Insulates product from ambient temperature variations, reducing emissions to the environment
- Compatible with a wide range of fuels and chemicals, including biodiesel and ethanol
- Support designs available for all seismic requirements
- Meets 4-hour furnace test requirements
- Interstitial space can be monitored for leak detection
- Capacities range up to 70,000 gallons
- Low-cost compartments and customization
- Built to nationally-recognized STI standards with a strict third-party quality control inspection program
- Ballistic and vehicle impact resistant
- Hose stream tested



The Standard

in Fire-Rated AST's

- UL-2085 Listed
- Inner and outer steel tanks are built to UL-142 standards
- Optional UL-752 Level 9 advanced ballistics construction available on certain configurations
- National Fire Protection Association (NFPA) 30 & 30A
- International Fire Code (IFC)
- California Air Resources Board (CARB) Standing Loss Control testing requirements for air emissions
- Steel Tank Institute (STI) Standard F941 for Protected Aboveground Storage Tanks
- ULC-S655 Underwriters Laboratories of Canada Standard
- Alternative construction to tank diking requirements



**1 Steel Primary Tank
Built to UL Standards**

**3 Steel Secondary Tank
Built to UL Standards**

2 Lightweight Thermal Insulation

- Unique feature that helped Fireguard® exceed the UL 2-hour fire test
- Sufficiently porous to facilitate quick emergency venting and/or leak detection



FIREGUARD® SPECIFICATIONS — CYLINDRICAL DESIGN

GALLONS	DIAMETER	LENGTH	APPROX. WEIGHT (lbs.)
186	48	54	2,119
250	48	68	2,513
300	50	72	2,821
500	54	70	2,413
560	54	78	2,606
1,000	54	134	5,338
1,000	70	78	5,005
1,500	70	114	6,537
2,000	70	150	8,309
2,500	70	186	9,644
3,000	70	222	10,979
4,000	78	233	13,523
4,000	90	175	14,072
5,000	79	290	18,998
5,000	103	169	17,149
6,000	79	347	21,961
6,000	103	199	19,206
8,000	103	259	23,319
10,000	103	331	28,256
12,000	103	391	32,370
15,000	127	313	35,821
20,000	127	415	44,506
25,000	127	517	55,891
30,000	127	619	64,575
40,000	144	635	93,000
50,000	144	792	110,000

All dimensions are outer. Please note that all dimensions and weights are approximate. Individual tanks may vary from these values.

Is Your Aboveground Tank Everything It's Cracked Up To Be?



Concrete Encased

- Secondary containment is tightness-tested at the manufacturing site using standard, economical testing procedures.
- Fireguard®'s steel outer wall provides low-cost maintenance and protects the insulation material from weathering.
- An average 12,000 gallon Fireguard® weighs under 35,000 pounds - well within the legal load limit for trucking.

- The secondary containment on certain designs may require elaborate and expensive procedures to be tested on-site.
- Exposed concrete outer wall is susceptible to cracking, spalling and weathering - problems that are expensive to correct and are usually not covered by warranty.
- An average 12,000 gallon concrete-encased tank weighs upwards of 100,000 pounds. Imagine the advantages gained in handling a 12,000 gallon Fireguard® tank that weighs a third of that.



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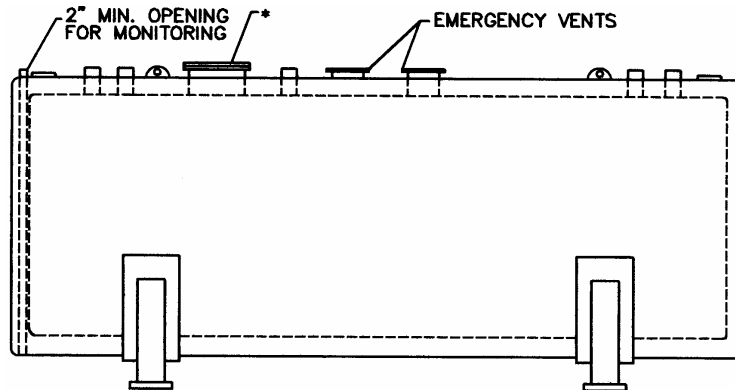
Subsidiaries Nationwide

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FIREGUARD® ABOVEGROUND “PROTECTED TYPE” DOUBLE WALL STORAGE TANKS



INNER TANK			OUTER TANK	
APPROX. CAP. (GALLONS)	NOM. DIAMETER	NOM. LENGTH	NOM. DIAMETER	NOM. LENGTH
186	36"	3'-6"	48"	4'-6"
300	38"	5'-0"	50"	6'-0"
560	48"	6'-0"	54"	6'-6"
1,000	64"	6'-0"	70"	6'-6"
1,500	64"	9'-0"	70"	9'-6"
2,000	64"	12'-0"	70"	12'-6"
2,500	64"	15'-0"	70"	15'-6"
3,000	64"	18'-0"	70"	18'-6"
4,000	84"	14'-0"	90"	14'-6"
5,000	96"	13'-6"	102"	14'-0"
6,000	90"	18'-2"	96"	18'-8"
6,000	96"	16'-0"	102"	16'-6"
8,000	96"	21'-0"	102"	21'-6"
10,000	96"	26'-10"	102"	27'-6"
12,000	96"	32'-0"	102"	32'-6"
15,000	120"	25'-6"	126"	26'-0"
20,000	120"	34'-0"	126"	34'-6"
25,000	120"	42'-6"	126"	43'-0"
30,000	120"	51'-0"	126"	51'-6"

Tank lengths listed above are based on nominal tank dimensions.
Overall tank lengths will vary during actual manufacturing.

STANDARD SPECIFICATIONS

- Built to the UL 2085 and STI FIREGUARD® standards.
- Tanks will bear UL 2085 label for "Insulated Secondary Containment for Flammable Liquids-Protected Type".
- Inner and outer tank construction and thickness per UL 142.
- Modern's standard opening locations and required lifting lugs.
- Annular space monitoring capabilities
- Support saddles.
- Exterior blasted and finish coated white to Fireguard requirements.
- Check with Modern for type of Emergency Vent Opening supplied.
- Other exterior and interior coating systems may be available upon request.
- Other tank sizes available upon request.