



FIREGUARD[®]

FIRE-RATED ABOVEGROUND TANKS



U.S. Patent #5695089 & #5809650



MODERN WELDING CO., INC.

1 800 922 1932

www.modweldco.com

UL 2085 Protected AST

FIREGUARD®

The New Generation of fire-rated AST's, going far beyond those "first generations" tanks which were merely enclosed in concrete.

- Fireguard® was the first AST of its design to obtain a UL Listing for secondary containment.
- Fireguard®'s secondary containment can be tightness tested on-site with standard testing procedures!
- Fireguard®'s exterior steel wall provides superior weatherability and low-cost maintenance. Unlike concrete, cracking or spalling will never be a problem!
- Fireguard®'s unique thermal insulating material is 75% lighter than concrete... Shipping, installation and relocation costs are reduced!
- The Fireguard® technology is patented under U.S. Patent #5695089 and #5809650 for "Lightweight Double Wall Storage Tank."
- Fireguard® is a UL approved core component for the 2244 system listing.



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

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

FIREGUARD®

VS.

Concrete Encased

- Secondary containment is testable on-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 30,000 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 hassles involved in handling that tank.

FIREGUARD®: THE ONLY TANK THAT MEETS ALL OF THESE STANDARDS

- UL-2080 Listed "Fire Resistant" Tanks for Flammable and Combustible Liquids
 - UL-2085 Listed "Protected" Aboveground Tanks for Flammable and Combustible Liquids
 - Both inner and outer tanks built per UL-142 Standards for Steel Aboveground tanks for Flammable and Combustible Liquids
 - Uniform Fire Code, 2000 Edition Article 79 and UFC Standard 79-7 "Protected Tank"
 - UL-2244, Aboveground Flammable Liquid Tank Systems, The Fireguard tank can be used as the primary storage containment
 - NFPA 30 and 30A, 2000 Edition, National Fire Protection Association
 - NFPA 1, Uniform, Fire Code™, of the National Fire Protection Association, 2003 Edition Section 3.3.199.5, "Protected Aboveground Tank"
 - International Fire Code (IFC), 2000- Chapter 34
 - ULC-S655 Underwriters Laboratories of Canada Standard for Aboveground Tanks for Flammable and Combustible Liquids
- Other Standards...
- Ballistics protection per UFC Article 79, and per UL-2085
 - Vehicle impact protection per UFC Article 79, and per UL-2085
 - California Air Resources Board (CARB) testing requirements for air emissions
 - Steel Tank Institute (STI) Standard F941 for Thermally Insulated Aboveground Storage Tanks
 - Many fire codes and environmental regulations will accept Fireguard® Secondary Containment Tanks as an alternate to diking requirements

If your project is required to follow NFPA 30 or 30A guidelines... Check with your area "Authority Having Jurisdiction" related to maximum allowable tank capacity for the class fuel being stored and secondary containment requirements.

FIREGUARD® SPECIFICATIONS			
CYLINDRICAL DESIGN			
SAMPLE OUTER TANK DIMENSIONS			
ALL DIAMETERS AND LENGTHS ARE NOMINAL			
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

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

FIREGUARD® SPECIFICATIONS				
RECTANGULAR DESIGN				
SAMPLE OUTER TANK DIMENSIONS				
ALL DIAMETERS AND LENGTHS ARE NOMINAL				
GALLONS	LENGTH	WIDTH	HEIGHT	APPROX. WEIGHT (lbs.)
186	45	45	56	2,256
250	118	37	37	3,305
250	79	51	37	2,916
500	141	52	37	4,991
750	141	73	37	6,513
1,000	128	73	37	4,607
1,000	89	73	51	4,102
1,500	125	89	45	5,772
2,000	141	87	51	6,679
2,000	141	73	61	6,486
2,500	141	89	61	7,453
3,000	251	73	51	11,572
3,000	118	103	73	9,379
4,000	332	73	51	14,990
4,000	155	103	73	11,640
5,000	337	73	61	16,615
5,000	192	103	73	13,901
6,000	403	73	61	19,631
6,000	229	103	73	16,162
8,000	371	103	61	22,872
8,000	303	103	73	20,684
10,000	461	103	61	27,992
10,000	377	130	73	25,205
12,000	452	103	73	29,788
15,000	387	103	103	38,510
18,000	463	103	103	45,290
24,700	466	138	103	54,539



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