

FLAMESHIELD[®]



Modern Welding Company, Inc.

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modweldco.com

Why Flameshield®?



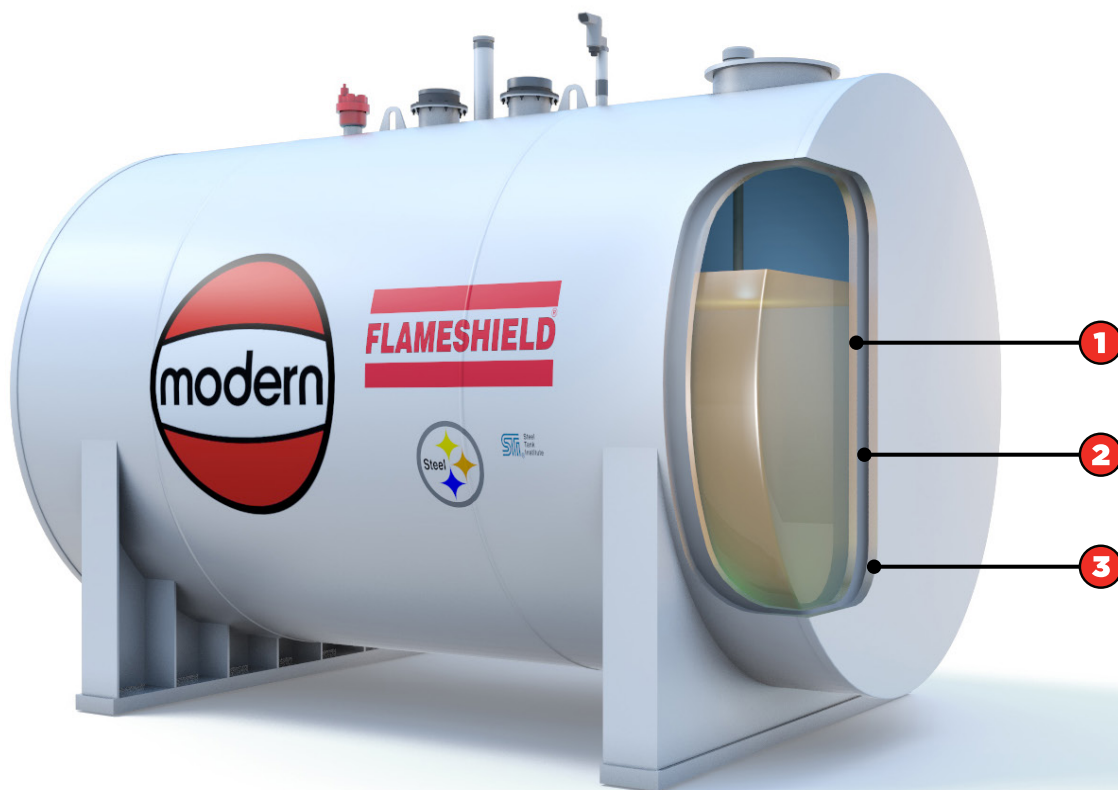
FLAMESHIELD® Fire-Tested aboveground storage tank is manufactured with a tight-wrap double-wall design.

Features

- 2-Hour 2,000° fire test, as required by Southwest Research Institute Standard SwRI 97-04, validates performance of non-insulated tanks
- Horizontal, vertical, and rectangular designs available
- Tanks can be tightness tested on site, or manufacturer may ship with vacuum in the interstice to prove integrity of both walls during installation
- Support designs available for all seismic zones
- Primary storage tank and secondary containment compatible with a wide range of fuels and chemicals
- Built to nationally-recognized STI standards with strict third-party quality control inspection program

This Tank Can Take the Heat

- Carries STI Flameshield® 2-Hour Fire tested double-wall aboveground storage tanks
- Customized compartments available
- 300° to 360° outer wall for secondary containment
- Easily relocated
- Interstitial space can be monitored for leak detection
- Variety of approved supports available
- Capacities range up to 50,000 gallons
- 30 Year limited warranty



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

2 **Interstitial Space**

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

If your project is required to follow NFPA 30 or 30A guidelines, check with your Authority Having Jurisdiction (AHJ) related to maximum allowable tank capacity for the class fuel being stored, secondary containment, and tank setback requirements.

FLAMESHIELD®

Guideline Specifications

A - General

- Provide Flameshield® 2-hour 2,000° Fire tested double-wall aboveground storage tanks.

B - Labeling

- Tanks shall bear the Steel Tank Institute Flameshield® identification label.
- Aboveground tanks shall bear Southwest Research Institute 97-04 label.

C - Product Description

- Tanks shall be manufactured in accordance with Steel Tank Institute Flameshield® Standard for Aboveground Tanks.
- Aboveground tank primary and secondary containment (inner and outer walls) shall be manufactured in accordance with Underwriters Laboratories UL-142, Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids.
- Integral secondary containment shall be testable and provide access for interstitial leak detection monitoring.
- UL-142 listed supports shall be used for all horizontal, rectangular and vertical tanks. Supports are designed for seismic loading, if necessary.

D - Quality Assurance

- Modern Welding Company Subsidiaries are licensed members of the Steel Tank Institute and subject to Steel Tank Institute's Quality Assurance program.

FLAMESHIELD™ SPECIFICATIONS — CYLINDRICAL DESIGN

GALLONS	NOM. DIAMETER	NOM. LENGTH
300	38"	6'-0"
560	48"	6'-0"
1,000	64"	6'-0"
2,000	64"	12'-0"
3,000	64"	18'-0"
4,000	64"	24'-0"
4,000	96"	10'-8"
6,000	96"	16'-0"
8,000	96"	21'-4"
10,000	96"	26'-9"
12,000	96"	32'-0"
10,000	120"	17'-0"
12,000	120"	20'-6"
15,000	120"	25'-6"
20,000	120"	34'-6"
25,000	120"	42'-9"
30,000	126"	46'-6"
25,000	126"	38'-10"
40,000	144"	47'-4"
50,000	144"	59'-4"

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



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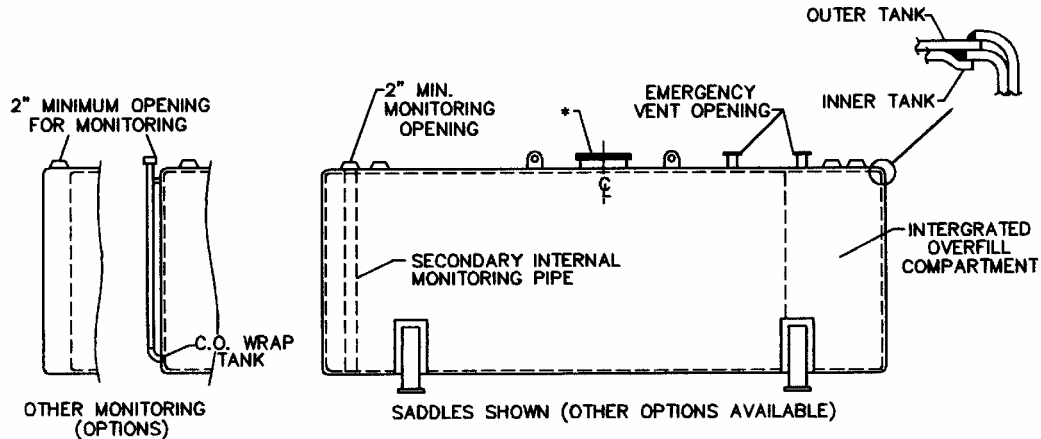
Subsidiaries Nationwide

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“IOC” FLAMESHIELD HORIZONTAL DOUBLE WALL STORAGE TANKS



APPROX. CAP. (GAL.)	PRIMARY TANK w/ IOC COMPARTMENT		IOC COMPARTMENT	
	NOM. DIAMETER	NOM. LENGTH	NOM. LENGTH	NOM. CAP. GAL.
560	48"	6'-8"	8"	56
1,000	64"	6'-8"	8"	100
2,000	64"	13'-3"	1'-3"	200
3,000	64"	19'-10"	1'-10"	300
4,000	64"	26'-3"	2'-3"	400
4,000	96"	11'-9"	1'-1"	400
6,000	96"	17'-8"	1'-8"	600
8,000	96"	23'-6"	2'-2"	800
10,000	96"	29'-5"	2'-8"	1,000
12,000	96"	35'-3"	3'-3"	1,200
10,000	120"	18'-9"	1'-9"	1,000
12,000	120"	22'-7"	2'-1"	1,200
15,000	120"	28'-1"	2'-7"	1,500
20,000	120"	37'-11"	3'-5"	2,000
25,000	120"	47'-1"	4'-4"	2,500
25,000	126"	42'-9"	3'-11"	2,500
40,000	144"	52'-1"	4'-9"	4,000
50,000	144"	65'-3"	5'-11"	5,000

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

STANDARD SPECIFICATIONS

- Built in accordance with UL 142 and Southwest Research Institute construction and testing standards.
- Tanks will bear SWRI label for "Fire Resistant Secondary Containment for Flammable Liquids".
- Modern's integrated overfill compartment (min. 10% cap. of primary, larger cap. available).
- Modern's standard opening locations and required lifting lugs.
- Exterior is blasted and finish coated white.
- Exclusive free flowing annular space design.
- Check with Modern for type of Emergency Vent Openings supplied.
- Support may be on saddles, stabilizers, or structural skids.
- Other exterior and interior coating systems available upon request.
- Other tank sizes available upon request.