UNDERGROUND STORAGE TANKS



These guidelines are to be followed when an underground storage tank is moved, installed, or otherwise added, within the City of Rockwall City Limits.

All underground storage tank requirements for the purposes of these guidelines and any other guidelines or requirements of the Rockwall Fire Prevention Education and Investigation (FPE&I) Division shall conform to the 2021 International Fire Code, as adopted and amended by the City of Rockwall. Additional requirements will apply to motor fuel-dispensing Facilities.

These guidelines do not replace, nor supersede any codes and/or ordinances adopted by the City of Rockwall, or determinations and positions of the Rockwall FPE&I Division.

General Requirements

- 1) An approved method of secondary containment shall be provided for underground tank and piping systems. Plans shall indicate method for compliance for tank and piping.
- 2) The design, fabrication and construction of tanks shall comply with the current edition of NFPA 30. Each tank shall bear a permanent nameplate or marking indicating the standard used as the basis of design.

Leak Prevention

3) Underground Storage tanks systems shall be provided with an approved method of leak detection from any component of the system that is designed and installed in accordance with NFPA 30.

Submittal Requirements

- 4) Please upload the following documents when submitting your permit online:
 - 1. Construction Plans
 - 2. Construction Notification Form (TCEQ 00495)
 - 3. Tank Manufacture Specifications

Inspection Requirements

5) See Installation Checklist for Underground Storage Tanks for all required inspections.



Installation Checklist for Underground Storage Tanks Rockwall Fire Prevention Education and Investigation Division 972-771-7774

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1.	Capacity	Product	UL#	
2.	Capacity			
3.	Capacity	Product	UL#	
4.	Capacity	Product	UL#	
5.	Capacity	Product	UL#	
6.	Capacity	Product		
	TCEQ provided with 30-	day notice.		
	Installation plans and specifications are approved by the Rockwall Fire Marshal.			
ТНІ	E FOLLOWING SHALL I	BE INSPECTED PRIOR TO PLA	CEMENT IN PIT:	
	Tanks are marked with UL identification.			
	Tank serial number(s) and U.L. listing number(s) are recorded for each tank.			
	Tank diameter(s) checked and recorded.			
	Tank tightness Air test, 3-5 psi for minimum of 1-hr, witnessed prior to tank(s) being placed in pit.			
	 by in a Th the 	hydrostatically or with air pressure at a gauge pressure of 3 to 5 psi (20 to 35 kPa) or by vacuum at 2.6 psi (18 kPa) or in accordance with the tank's listing or the manufacturer's instructions. The pressure or vacuum shall be held for not less than 1 hour or for the duration specified in the listing procedures for the tank. ble and pit is free of rocks, clumps, trash and debris. Pea-gravel must be used with fiberglass		
	tanks.	na pre is nee of rooms, cramps, trass.	and deeping I ed graver mass ee ased with meer grass	
THI	E FOLLOWING SHALL I	BE INSPECTED AFTER PLACE	MENT IN PIT:	
	Tanks located a minimum of 3-feet from lot lines and buildings.			
	A minimum distance of 1 foot, shell to shell, shall be maintained between tanks.			
	Tanks shall be properly anchored. Exception: acceptable hydrology study			
	Leak detection methods a	s indicated on approved set of plans	s.	
ТНІ	E FOLLOWING SHALL I	BE INSPECTED BEFORE COVE	RING ANY PIPING:	
	All piping and valves are	All piping and valves are U.L. listed or of approved type.		
	Unless tested in accordance with the applicable section of ASME B31.9, all piping shall be tested before being covered, enclosed or placed in use.			
	the	system <u>or</u>	o 150 percent of the maximum anticipated pressure of ximum anticipated pressure of the system, and	

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the test pressure shall be maintained while a complete visual inspection of all joints and connections is conducted.
 In no case shall the test pressure be less than a gauge pressure of 5 psi (35 kPa) measured at

the highest point of the system
the test pressure is maintained for not less than 10 minutes.

• Care shall be exercised to ensure that these pressures are not applied to vented storage tanks. Such storage tanks shall be tested independently from the piping.

The interstitial (annular) space of secondary containment–type piping shall be tested:

- hydrostatically at a gauge pressure of 5 psi (35 kPa) or
- o air pressure at a gauge pressure of 5 psi (35 kPa) or
- shall be tested in accordance with its listing or with the manufacturer's instructions.
- The pressure source shall be disconnected from the interstitial space to ensure that the test is being conducted on a closed system.
- The pressure shall be maintained for a minimum of 1 hour.

All metal pipes is properly wrapped (with 50% overlap), properly coated, or catholically protected to prevent galvanic action or corrosion.

SPILL/OVERFILL PREVENTION

A spill container with a capacity of not less than 5 gallons is provided for each fill connection. Top fill containers are noncombustible, fixed to the tank and equipped with a manual drain valve that drains into the main tank.

An overfill prevention system is provided for each tank that operates as follows:

- Automatically shut off the flow of fuel to the tank when the quantity reaches 95 percent of tank capacity and
- Alert the transfer operator when the tank is no more than 90 percent full by restricting the flow of liquid into the tank or triggering the high-level alarm

VENTS

- Vent pipes from underground tanks storing Class I liquids are located so that the discharge point is outside of buildings, higher than the fill pipe opening, and not less than 12 ft. above finished ground level.
- Vent pipe outlets are located and directed so that vapors will not accumulate or travel to an unsafe location, enter building openings, or be trapped under eaves and shall be not less than 5 ft. from building openings.