



**TEXAS DEPARTMENT OF INSURANCE**

**State Fire Marshal's Office (112-FM)**

333 Guadalupe, Austin, Texas 78701 \* PO Box 149221, Austin, Texas 78714-9221  
 (512) 676-6800 | F: (512) 490-1063 | (800) 578-4677 | TDI.texas.gov | @TXSFMO

## Contractor's Material and Test Certificate for Underground Piping

**PROCEDURE**

Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by an owner's representative. All defects shall be corrected and system left in service before contractor's personnel finally leave the job.

A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners, and the contractor. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances.

Property Name	Date
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Property Address	City	State	Zip
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<b>PLANS</b>	Accepted by approving authorities (names)		
	Address		
	Installation conforms to accepted plans	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Equipment used is approved	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	If no, state deviations		

<b>INSTRUCTIONS</b>	Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment? If no, explain	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Have copies of appropriate instructions and care and maintenance charts been left on premises? If no, explain	<input type="checkbox"/> Yes	<input type="checkbox"/> No

<b>LOCATION</b>	Supplies buildings
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<b>UNDERGROUND PIPES AND JOINTS</b>	Pipe types and class	Type joints		
	Pipe conforms to _____ Standard		<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Fittings conform to _____ Standard		<input type="checkbox"/> Yes	<input type="checkbox"/> No
	If no, explain			
	Joints needed anchorage clamped, strapped or blocked in accordance with _____ standard If no, explain		<input type="checkbox"/> Yes	<input type="checkbox"/> No

<b>TEST DESCRIPTION</b>	<p><b>FLUSHING:</b> Flow the required rate until water is clear as indicated by no collection of foreign material in burlap bags at outlets such as hydrants and blow-offs. Flush at flows not less than 390 GPM (1476 L/min) for 4-inch pipe, 880 GPM (3331 L/min) for 6-inch pipe, 1560 GPM (5905 L/min) for 8-inch pipe, 2440 GPM (9235 L/min) for 10-inch pipe, and 3520 GPM (13323 L/min) for 12-inch pipe. When supply cannot produce stipulated flow rates, obtain maximum available.</p> <p><b>HYDROSTATIC:</b> Hydrostatic tests shall be made at not less than 200 psi (13.8 bars) for two hours or 50 psi (3.4 bars) above static pressure in excess of 150 psi (10.3 bars) for two hours.</p> <p><b>LEAKAGE:</b> New pipe laid with rubber gasketed joints shall, if the workmanship is satisfactory, have little or no leakage at the joints. The amount of leakage at the joints shall not exceed 2 quarts per hour (1.89 L/hr) per 100 joints irrespective of pipe diameter. The leakage shall be distributed over all joints. If such leakage occurs at a few joints, the installation shall be considered unsatisfactory and necessary repairs made. The amount of allowable leakage specified above can be increased by 1 fl oz per inch valve diameter per hour (30 mL/25 mm/hr) for each metal seated valve isolating the test section. If dry barrel hydrants are tested with the main valve open so the hydrants are under pressure, an additional 5 oz per minute (150 mL/min) leakage is permitted for hydrant.</p>
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<b>FLUSHING TESTS</b>	New underground piping flushed according to _____ standard by (company) If no, explain	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	How flushing flow was obtained <input type="checkbox"/> Public water <input type="checkbox"/> Tank or reservoir <input type="checkbox"/> Fire pump	Through what type of opening <input type="checkbox"/> Hydrant butt <input type="checkbox"/> Open pipe	
	Lead-ins flushed according to _____ standard by (company) If no, explain	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	How flushing flow was obtained <input type="checkbox"/> Public water <input type="checkbox"/> Tank or reservoir <input type="checkbox"/> Fire pump	Through what type of opening <input type="checkbox"/> Y connection to flange spigot <input type="checkbox"/> Open pipe	

<b>HYDROSTATIC TEST</b>	All new underground piping hydrostatically tested at _____ psi for _____ hours		Joints covered <input type="checkbox"/> Yes <input type="checkbox"/> No		
<b>LEAKAGE TEST</b>	Total amount of leakage measured _____ gallons _____ hours				
	Allowable leakage _____ gallons _____ hours				
<b>HYDRANTS</b>	Number installed _____	Type and make _____	All operate satisfactorily <input type="checkbox"/> Yes <input type="checkbox"/> No		
<b>CONTROL VALVES</b>	Water control valves left wide open If no, state reason _____		<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Hose threads of fire department connections and hydrants interchangeable with those of the fire department answering alarm _____		<input type="checkbox"/> Yes <input type="checkbox"/> No		
<b>REMARKS</b>	Date left in service _____ _____ _____				
<b>Signature</b>	Name of installing contractor _____		C of R No. <b>SCR-</b>		
	Contractor's Address _____	City _____	State _____	Zip _____	
	<b>Tests witnessed by</b>				
	For property owner (signed) _____		Title _____	Date _____	
	For Installing contractor (signed) _____		Title _____	Date _____	
Additional explanation and notes _____ _____					

<b>RME CERTIFICATION</b>	<b>I certify that the information herein is true and that this portion of the sprinkler system was installed in accordance with Chapter 6003, Texas Insurance Code and the rules and standards adopted by the State Fire Marshal's Office.</b>			
	Responsible Managing Employee (signature) _____			
	Responsible Managing Employee (print or type name) _____			
	RME License Number _____	Date _____		

**DISTRIBUTION:** Original COPY 1 Posted at site or give to owner COPY 2 for the installing firm in file accessible to SFMO  
COPY 3 for local approving authority within 10 days after completion