



Automatic Sprinkler Systems

Contractor's Material and Test Certificate for Underground Piping

Date: _____ **Property Name:** _____

Property Address: _____

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 the 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 contractors. It is understood that 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.

Plans

Accepted by [approving authority's name(s)] _____

Address _____

Installation conforms to accepted plans? Yes No

Equipment used is approved? Yes No

If no, explain deviations.

Instructions

Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment? Yes No
If no, explain.

Have copies of appropriate instructions and care and maintenance charts been left on premises? Yes No
If no, explain.

Location

Supplies bldgs. _____

Underground Pipes and Joints

Pipe conforms to _____ standard. Yes No

Fittings conforms to _____ standard. Yes No

If no, explain.

Joints needing anchorage clamped, strapped, or blocked in accordance with _____ standard. Yes No

If no, explain.

Test Description

FLUSHING: 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 400 gpm (1514 L/min) for 4-in. (102-mm) pipe, 600 gpm (2271 L/min) for 5-in. (127-mm) pipe, 750 gpm (2839 L/min) for 6-in. (152-mm) pipe, 1000 gpm (3785 L/min) for 8-in. (203-mm) pipe, 1500 gpm (5678 L/min) for 10-in. (254-mm) pipe and 2000 gpm (7570 L/min) for 12-in. (305-mm) pipe. When supply cannot produce stipulated flow rates, obtain maximum available.



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Test Description (cont.)

HYDROSTATIC: Hydrostatic tests shall be made at not less than 200 psi (13.6 bar) for two hours or 50 psi (3.4 bar) above static pressure in excess of 150 psi (10.2 bar) for two hours.

LEAKAGE: 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 qts per hr. (1.89 L/h) 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 may be increased by 1 fl oz per in. valve diameter per hour (30 mL/25 mm/h) 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 each hydrant.

Flushing Tests

New underground piping flushed according to _____ standard. Yes No
By (company) _____ If no, explain.

How flushing flow was obtained: Public water Tank or reservoir Fire pump
Through what type opening Hydrant butt Open pipe
Lead-ins flushed according to _____ standard Yes No
By (company) _____ If no, explain.

How flushing flow was obtained Public water Tank or reservoir Fire pump
Through what type opening Y connection to flange and spigot Open pipe

Hydrostatic Test

All new underground piping hydrostatically tested at _____ psi (bar) for _____ hours
joints covered? Yes No

Leakage Test

Total amount of leakage measured: _____ gals (L) _____ hours
Allowable leakage: _____ gals (L) _____ hours

Hydrants

Number installed: _____ Type and make: _____
All operate satisfactorily? Yes No

Control Valves

Water control valves left wide open? Yes No
If no, state reason.

Hose threads of fire department connections and hydrants interchangeable with those of fire department answering alarm? Yes No

Remarks

Date left in service with all control valves open: _____

Installing Contractor: _____

Signatures of Test Witnesses

For property owner (signed) _____ Title _____ Date _____

For sprinkler contractor (signed) _____ Title _____ Date _____