

Automatic Sprinkler Systems Contractor's Material and Test Certificate for Aboveground 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 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:** _____

Property Address: _____

Plans	Accepted by approving authorities (names) _____					
	Address _____					
	Installation conforms to accepted plans	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	
	Equipment used is approved. If no, explain deviations	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	

Instructions	Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment? <input type="checkbox"/> Yes <input type="checkbox"/> No					
	If no, explain _____					
	Have copies of the following been left on the premises? <input type="checkbox"/> Yes <input type="checkbox"/> No					
	1. System components instructions	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	
	2. Care and maintenance instructions	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	
	3. NFPA 25	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	
Location of system	Supplies buildings _____					
Sprinklers	Make	Model	Year of manufacture	Orifice size	Quantity	Temperature rating
Pipe and fittings	Type of pipe _____					
	Type of fittings _____					

Alarm valve or flow indicator	Alarm device					Maximum time to operate through test connection				
	Type		Make		Model	Minutes		Seconds		
Dry pipe operating test	Dry valve				Q.O.D					
	Make		Model	Serial No.	Make	Model		Serial No.		
		Time to trip through test connection^{1,2}		Water pressure	Air pressure	Trip point air pressure	Time water reached test outlet^{1,2}		Alarm operated properly	
		Minutes	Seconds	psi	psi	psi	min.	sec.	Yes	No
	Without Q.O.D								<input type="checkbox"/>	<input type="checkbox"/>
	With Q.O.D								<input type="checkbox"/>	<input type="checkbox"/>
	If no explain: _____									
Deluge and preaction valves	Operation <input type="checkbox"/> Pneumatic <input type="checkbox"/> Electric <input type="checkbox"/> Hydraulic									
	Piping supervised <input type="checkbox"/> Yes <input type="checkbox"/> No Detecting media supervised <input type="checkbox"/> Yes <input type="checkbox"/> No									
	Does valve operate from the manual trip, remote, or both control <input type="checkbox"/> Yes <input type="checkbox"/> No									
	Is there an accessible facility in each circuit for testing? <input type="checkbox"/> Yes <input type="checkbox"/> No									
	If no, explain _____									
	Make _____ Model _____									
	Does each circuit operate supervision loss alarm? <input type="checkbox"/> Yes <input type="checkbox"/> No									
	Does each circuit operate valve release? <input type="checkbox"/> Yes <input type="checkbox"/> No									
Maximum time to operate release _____ Minutes _____ Seconds										
Pressure reducing valve test	Location and floor _____				Static pressure		Residual pressure (flowing)		Flow rate	
	Make and model _____				Inlet (psi)	Outlet (psi)	Inlet (psi)	Outlet (psi)	Flow (gpm)	
	Setting _____									
Test description	<u>Hydrostatic:</u> Hydrostatic tests shall be made at not less than 200 psi (13.6 bar) for 2 hours or 50 psi (3.4 bar) above static pressure excess of 150 psi (10.2 bar) for 2 hours. Differential dry-pipe clappers shall be left open during the test to prevent damage. All aboveground piping leakage shall be stopped.									
	<u>Pneumatic:</u> Establish 40 psi (2.7 bar) air pressure and measure drop, which shall not exceed 1½ psi (0.1 bar) in 24 hours. Test pressure tanks at normal water level and air pressure and measure air pressure drop, which shall not exceed 1½ psi (0.1 bar) in 24 hours.									

¹ Measured from time inspector's test connection is opened
² NFPA 13 only requires the 60-second limitation in specific sections

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	All piping hydrostatically tested at (____ bar) for ____ hours If no, state reason _____ Dry piping pneumatically <input type="checkbox"/> Yes <input type="checkbox"/> No Equipment operates <input type="checkbox"/> Yes <input type="checkbox"/> No		
Tests	Do you certify as the sprinkler contractor that additives and corrosive chemicals, sodium silicate or derivatives of sodium silicate, brine, or other corrosive chemicals were not used for testing systems or stopping leaks? <input type="checkbox"/> Yes <input type="checkbox"/> No		
	Drain test: Reading of cutoff gauge located near water supply test connection: ____ psi (____ bar) Residual pressure with valve in test connection open wide: ____ psi (____ bar)		
	Underground mains and lead-in connections to system risers flushed before connection made to sprinkler piping		
	Verified by copy of the Contractor's Material and Test Certificate for Underground Piping <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other		
	Explain: Flushed by installer of underground sprinkler piping <input type="checkbox"/> Yes <input type="checkbox"/> No		
	If powder-driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, explain _____		
Blank testing gaskets	Number used	Locations	Number removed
Welding	Welding piping <input type="checkbox"/> Yes <input type="checkbox"/> No		
	If yes . . .		
	Do you certify as the sprinkler contractor that welding procedures used complied with the minimum requirements of AWS B2.1, ASME Section IX <i>Welding and Brazing Qualifications</i> , or other applicable qualification standard as required by the AHJ? <input type="checkbox"/> Yes <input type="checkbox"/> No		
	Do you certify that the welding was performed by welders or welding operators qualified in accordance with the minimum requirements of AWS B2.1, ASME section IX <i>Welding and Brazing Qualifications</i> , or other applicable qualification standard as required by the AHJ? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Do you certify that the welding was conducted in compliance with a documented quality control procedure to ensure that (1) all discs are retrieved; (2) that openings in piping are smooth, that slag and other welding residue are removed; (3) the internal diameters of piping are not penetrated; (4) completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 in. diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 in.; and (5) completed circumferential butt weld reinforcement does not exceed 3/32 in.? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Cutouts (discs)	Do you certify that you have a control feature to ensure that all cutouts (discs) are retrieved? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Hydraulic data nameplate	Nameplate provided <input type="checkbox"/> Yes <input type="checkbox"/> No If no, explain _____		
Remarks	Date left in service with all control valves open _____		

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Signatures	Name of sprinkler contractor _____		
	Tests witnessed by		
	The property owner or their authorized agent (signed) _____	Title _____	Date _____
	For sprinkler contractor (signed) _____	Title _____	Date _____

Additional explanations and notes: