

FIRE SPRINKLER SYSTEM SUBMITTAL CHECKLIST

A review of the subject system has been completed, and the following items were found to be missing or incorrect. Please resubmit revised drawings for review and approval, prior to any installation. Failure to obtain approval prior to installation constitutes a violation of the Uniform Fire Code and may result in a citation requiring a court appearance.

NOT SHOWN	NOT CORRECT	ITEM	REFERENCE (1999 ED.)
		<u>I. ADMINISTRATIVE</u>	
<input type="checkbox"/>	<input type="checkbox"/>	a) Scaled drawings with complete title block information (incl. building location, owner, installing contractor, etc.).	NFPA 13, 8-1.1.1
		<u>II. WATER SUPPLY</u>	
<input type="checkbox"/>	<input type="checkbox"/>	a) Minimum water supply.	NFPA 13, 7-2, 9-2.1
<input type="checkbox"/>	<input type="checkbox"/>	b) Detail of connection to water supply.	NFPA 13, 8-1.1.1(28)
<input type="checkbox"/>	<input type="checkbox"/>	c) Detail of transition from underground to overhead system.	
		1) Materials, details of penetrations, clearances.	NFPA 13, 9-1.6.1
<input type="checkbox"/>	<input type="checkbox"/>	d) Hydrant test information.	
<input type="checkbox"/>	<input type="checkbox"/>	1) Location and elevation of static and residual pressure.	NFPA 13, 8-2.1(1)
<input type="checkbox"/>	<input type="checkbox"/>	2) Flow location.	NFPA 13, 8-2.1(2)
<input type="checkbox"/>	<input type="checkbox"/>	3) Static pressure (incl. low static of record).	NFPA 13, 8-2.1(3)
<input type="checkbox"/>	<input type="checkbox"/>	4) Residual pressure.	NFPA 13, 8-2.1(4)
<input type="checkbox"/>	<input type="checkbox"/>	5) Computed flow (in gallons per minute).	NFPA 13, 8-2.1(5)
<input type="checkbox"/>	<input type="checkbox"/>	6) Date of test.	NFPA 13, 8-2.1(6)
<input type="checkbox"/>	<input type="checkbox"/>	7) Time of test.	NFPA 13, 8-2.1(7)
<input type="checkbox"/>	<input type="checkbox"/>	8) Test conducted by or information supplied by.	NFPA 13, 8-2.1(8)
<input type="checkbox"/>	<input type="checkbox"/>	9) Circulating or dead end main.	NFPA 13, 8-1.1.1(10)
<input type="checkbox"/>	<input type="checkbox"/>	10) Pipe diameter and type of material.	NFPA 13, 8-1.1.1(28)
		e) System use limited to 90% of available water supply in calculated systems (<i>if established by policy</i>)	
		<u>III. Design Criteria</u>	
<input type="checkbox"/>	<input type="checkbox"/>	a) Hazard classification.	NFPA 13, 7-2.1
<input type="checkbox"/>	<input type="checkbox"/>	b) Density & area of sprinkler operation.	NFPA 13, 7-2.3.2
<input type="checkbox"/>	<input type="checkbox"/>	c) Allowable area coverage per sprinkler head.	NFPA 13, 5-5.2
<input type="checkbox"/>	<input type="checkbox"/>	d) High pile storage of materials.	
		1) Commodity classification.	NFPA 13, Ch. 2
<input type="checkbox"/>	<input type="checkbox"/>	2) Storage arrangements.	NFPA 13, Ch. 7
<input type="checkbox"/>	<input type="checkbox"/>	3) Density and area of sprinkler operation.	NFPA 13, Ch. 7
<input type="checkbox"/>	<input type="checkbox"/>	e) Rack storage of materials.	
		1) Commodity classification.	NFPA 13, Ch. 2
<input type="checkbox"/>	<input type="checkbox"/>	2) Storage arrangements.	NFPA 13, Ch. 7
<input type="checkbox"/>	<input type="checkbox"/>	3) Density and area of sprinkler operation.	NFPA 13, Ch. 7
		<u>Underground</u>	
<input type="checkbox"/>	<input type="checkbox"/>	a) Valves (Incl. mfg., model number, listing as necessary).	NFPA 24, 3-1.1
<input type="checkbox"/>	<input type="checkbox"/>	1) Provisions for securing from tampering.	NFPA 24, 3-6.2
<input type="checkbox"/>	<input type="checkbox"/>	b) Hydrants (Incl. mfg., model, listing, number and size of outlets).	NFPA 24, 4-1.1
<input type="checkbox"/>	<input type="checkbox"/>	c) Piping material (Incl. size, type and manufacturer)	NFPA 24, 7-1.1
<input type="checkbox"/>	<input type="checkbox"/>	d) Fittings (Incl. mfg., type, corrosion protection if required).	NFPA 24, Ch. 7
<input type="checkbox"/>	<input type="checkbox"/>	e) Installation.	
		1) Joining methods.	NFPA 24, Ch. 7
<input type="checkbox"/>	<input type="checkbox"/>	2) Thrust blocking or rodding details.	NFPA 24, 8-6
<input type="checkbox"/>	<input type="checkbox"/>	3) Depth of cover.	NFPA 24, 8-1

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		<u>V. Pipe Schedule Systems</u>	
<input type="checkbox"/>	<input type="checkbox"/>	a) Identification of schedule used.	NFPA 13, 7-2.2.1
<input type="checkbox"/>	<input type="checkbox"/>	b) Graduated or uniform pipe size.	NFPA 13, 8-5
<input type="checkbox"/>	<input type="checkbox"/>	c) Supporting calculations if required.	NFPA 13, 8-5.4, 8-6, 8-7, 8-8
		<u>VI. System Components</u>	
<input type="checkbox"/>	<input type="checkbox"/>	a) Piping.	
<input type="checkbox"/>	<input type="checkbox"/>	1) Materials (Incl. mfg., type, listings if required).	NFPA 13, 3-3
<input type="checkbox"/>	<input type="checkbox"/>	2) Sizes (Incl. wall thickness or nominal internal diameter).	NFPA 13, 3-3
<input type="checkbox"/>	<input type="checkbox"/>	b) Fittings.	
<input type="checkbox"/>	<input type="checkbox"/>	1) Materials (Incl. mfg., type, listings if required).	NFPA 13, 3-5
<input type="checkbox"/>	<input type="checkbox"/>	2) Details of joining methods (specify if threaded, grooved welded, etc.).	NFPA 13, 3-6
<input type="checkbox"/>	<input type="checkbox"/>	c) Hangers.	
<input type="checkbox"/>	<input type="checkbox"/>	1) Materials and configuration (Incl. mfg., and listing)	NFPA 13, 6-1
<input type="checkbox"/>	<input type="checkbox"/>	2) Locations (Incl. special conditions for high pressures, wrap around, etc.).	NFPA 13, 6-2
<input type="checkbox"/>	<input type="checkbox"/>	3) Fastener details (Incl. mfg., type, size, etc.).	NFPA 13, 6-1
<input type="checkbox"/>	<input type="checkbox"/>	d) Sway bracing.	
<input type="checkbox"/>	<input type="checkbox"/>	1) Materials (Incl. mfg., model numbers, sizes, engineering).	NFPA 13, 6-4.5.8
<input type="checkbox"/>	<input type="checkbox"/>	2) Locations (Incl. lateral, longitudinal, swing joint locations, flexible coupling locations, etc.).	NFPA 13, 6-4.5
<input type="checkbox"/>	<input type="checkbox"/>	e) Drainage.	
<input type="checkbox"/>	<input type="checkbox"/>	1) Main drain (Incl. size, specific location of valve, specific location of discharge outside of building).	NFPA 13, 5-14.2, 5-14.2.6
<input type="checkbox"/>	<input type="checkbox"/>	2) Inspectors test connection (Incl. specific location of valve, specific location of discharge outside of building).	NFPA 13, 5-15.4.2
<input type="checkbox"/>	<input type="checkbox"/>	3) Auxiliary drains and flushing connection (Incl. size, location, type of drain fitting involved).	NFPA 13, 5-14.2.5
<input type="checkbox"/>	<input type="checkbox"/>	f) Valves.	
<input type="checkbox"/>	<input type="checkbox"/>	1) Manufacturer, model number, quantities, listings.	NFPA 13, 3-8
<input type="checkbox"/>	<input type="checkbox"/>	2) Pressure relief valve(s) on gridded systems.	NFPA 13, 4-1.2
<input type="checkbox"/>	<input type="checkbox"/>	g) Sprinklers.	
<input type="checkbox"/>	<input type="checkbox"/>	1) Manufacturer, model number, quantities, listings for special conditions or devices.	NFPA 13, 3-2, Ch. 5
<input type="checkbox"/>	<input type="checkbox"/>	2) Temperature ratings.	NFPA 13, 3-2.5, 5-3
<input type="checkbox"/>	<input type="checkbox"/>	h) Alarms	
<input type="checkbox"/>	<input type="checkbox"/>	1) Local waterflow (Incl. location, type, weatherproof attributes, etc.).	NFPA 13, 3-10
<input type="checkbox"/>	<input type="checkbox"/>	2) Sprinkler monitoring service (specify if central or remote station)	UFC, 10.3.3.1
<input type="checkbox"/>	<input type="checkbox"/>	i) Fire department connection.	
<input type="checkbox"/>	<input type="checkbox"/>	1) Location (Incl. size, specific location of connection, specific location above finished grade).	NFPA 13, 3-9.1
		<u>VII. Spacing, Position, Etc.</u>	
<input type="checkbox"/>	<input type="checkbox"/>	a) Complete construction details (Incl. scaled full height building cross section, showing all soffits, recesses, etc.).	NFPA 13, 8-1.1.1(4)
<input type="checkbox"/>	<input type="checkbox"/>	b) Description of rooms, uses, occupancy.	NFPA 13, 8-1.1.1(7)
<input type="checkbox"/>	<input type="checkbox"/>	c) Applicable locations for full protection.	NFPA 13, 8-1.1.1(14)
		<u>VIII. Hydraulic Calculations</u>	
<input type="checkbox"/>	<input type="checkbox"/>	a) Summary sheet.	NFPA 13, 8-3.2
<input type="checkbox"/>	<input type="checkbox"/>	b) Detailed work sheets.	NFPA 13, 8-3.3
<input type="checkbox"/>	<input type="checkbox"/>	c) Graph sheet on appropriate semi-log paper.	NFPA 13, 8-3.4
<input type="checkbox"/>	<input type="checkbox"/>	d) Abbreviations and symbols.	NFPA 13, 1-5
<input type="checkbox"/>	<input type="checkbox"/>	e) Peaking of gridded systems.	NFPA 13, 8-4.4.2
<input type="checkbox"/>	<input type="checkbox"/>	f) Most remote (demanding) area.	NFPA 13, 8-4.4
<input type="checkbox"/>	<input type="checkbox"/>	g) Hydraulic reference points.	NFPA 13, 8-3.3(3)
		<u>IX. Addition, Remodel</u>	
<input type="checkbox"/>	<input type="checkbox"/>	a) Details of existing systems.	NFPA 13, 8-1.1.1(30)
<input type="checkbox"/>	<input type="checkbox"/>	b) Details of existing room use, occupancy, and changes to such.	
<input type="checkbox"/>	<input type="checkbox"/>	c) Calculations for additions to systems (as needed).	