

NFPA 13 (2025) SITE INSPECTION TABLE GUIDE

8th Sept 2026

Sprinkler selection | hangers and supports | piping and fittings



Purpose

A field-ready reference for comparing installed sprinkler system components against approved shop drawings, hydraulic calculations, product data, listings and the adopted edition of NFPA 13.

Edition basis

NFPA 13, Standard for the Installation of Sprinkler Systems, 2025 edition.

Control statement

This guide is an inspection aid, not a substitute for the standard, approved design, listed product instructions, engineering judgement or AHJ direction.

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1. Sprinkler selection and installation

1.1 Sprinkler identification: K-factor, range and thread

Table 1. NFPA sprinkler discharge-identification values (field extract)¹

Nominal K (gpm/psi ^{1/2})	Nominal K (L/min/bar ^{1/2})	Permitted range US	Permitted range SI	Typical thread
1.4	20	1.3-1.5	19-22	1/2 in (15 mm) NPT
1.9	27	1.8-2.0	26-29	1/2 in (15 mm) NPT
2.8	40	2.6-2.9	38-42	1/2 in (15 mm) NPT
4.2	60	4.0-4.4	57-63	1/2 in (15 mm) NPT
5.6	80	5.3-5.8	76-84	1/2 in (15 mm) NPT
8.0	115	7.4-8.2	107-118	3/4 in (20 mm) or 1/2 in NPT
11.2	160	10.7-11.7	159-166	1/2 in or 3/4 in NPT
14.0	200	13.5-14.5	195-209	3/4 in (20 mm) NPT
16.8	240	16.0-17.6	231-254	3/4 in (20 mm) NPT
19.6	280	18.6-20.6	272-301	1 in (25 mm) NPT
22.4	320	21.3-23.5	311-343	1 in (25 mm) NPT
25.2	360	23.9-26.5	349-387	1 in (25 mm) NPT
28.0	400	26.6-29.4	389-430	1 in (25 mm) NPT
33.6	480	31.9-35.3	456-504	1 1/4 in (32 mm) NPT

1.2 Temperature classifications and identification colors

Table 2. Glass-bulb sprinkler temperature ratings and colors²

Maximum ceiling temperature	Sprinkler temperature rating	Classification	Glass-bulb colour
100°F / 38°C	135°F / 57°C	Ordinary	Orange
120°F / 49°C	155°F / 68°C	Ordinary	Red
150°F / 66°C	175°F / 79°C	Intermediate	Yellow
150°F / 66°C	200°F / 93°C	Intermediate	Green
225°F / 107°C	250-300°F / 121-149°C	High	Blue
300°F / 149°C	325-375°F / 163-191°C	Extra high	Purple
375°F / 191°C	400-475°F / 204-246°C	Very extra high	Black
475°F / 246°C	500-575°F / 260-302°C	Ultra high	Black
625°F / 329°C	650°F / 343°C	Ultra high	Black

Table 3. Fusible-link sprinkler temperature ratings and color codes³

Maximum ceiling temperature	Sprinkler temperature rating	Classification	Frame/deflector colour code
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¹ National Fire Protection Association, NFPA 13: Standard for the Installation of Sprinkler Systems (2025 edn, NFPA 2024) table 7.2.2.1.

² Ibid table 7.2.4.1(a).

³ Ibid table 7.2.4.1(b).

Maximum ceiling temperature	Sprinkler temperature rating	Classification	Frame/deflector colour code
100°F / 38°C	135-170°F / 57-77°C	Ordinary	Uncoloured or black
150°F / 66°C	175-225°F / 79-107°C	Intermediate	White
225°F / 107°C	250-300°F / 121-149°C	High	Blue
300°F / 149°C	325-375°F / 163-191°C	Extra high	Red
375°F / 191°C	400-475°F / 204-246°C	Very extra high	Green
475°F / 246°C	500-575°F / 260-302°C	Ultra high	Orange
625°F / 329°C	650°F / 343°C	Ultra high	Orange

1.3 Heat-source proximity

Table 4. General heat-source checks⁴

Heat condition	Ordinary rating	Intermediate rating	High rating
Heating duct - above	Ordinary if >750 mm	Intermediate if ≤750 mm	-
Heating duct - side/below	Ordinary if >300 mm	Intermediate if ≤300 mm	-
Heating diffuser	Outside the defined discharge zone	Within defined discharge zone	-
Unit/radiant heater - horizontal discharge	Outside heater zones	2.1-6.1 m discharge-side zone and defined upper zone	Within 2.1 m radius cylinder around heater
Unit heater - vertical downward discharge	Outside heater zones	2.1 m radius cylinder upward from 2.1 m above heater	2.1 m radius cylinder from heater top to 2.1 m above
Uncovered steam main - above	>750 mm	≤750 mm	-
Uncovered steam main - side/below	>300 mm	≤300 mm	-
Steam blowoff valve	>2.1 m	-	≤2.1 m

Table 5. Specified residential heat sources - minimum separation⁵

Heat source	Ordinary-temperature sprinkler	Intermediate-temperature sprinkler
Side of open/recessed fireplace	900 mm	300 mm
Front of recessed fireplace	1,500 mm	900 mm
Coal/wood-burning stove	1,050 mm	300 mm
Kitchen range	450 mm	225 mm
Wall oven	450 mm	225 mm
Hot-air flue	450 mm	225 mm
Uninsulated heat duct	450 mm	150 mm
Uninsulated hot-water pipe	900 mm	150 mm
Side of ceiling/wall hot-air diffuser	600 mm	300 mm
Front of wall-mounted hot-air diffuser	900 mm	450 mm

⁴ Ibid table 9.4.2.5(a).

⁵ Ibid table 9.4.2.5(b).

Heat source	Ordinary-temperature sprinkler	Intermediate-temperature sprinkler
Hot-water heater/furnace	150 mm	75 mm
Light fixture ≤250 W	150 mm	75 mm
Light fixture 250-499 W	300 mm	150 mm

1.4 Standard spray sprinkler spacing and coverage

Table 6. Standard pendent/upright spray - maximum protection area and spacing⁶

Hazard	Construction/system condition	Maximum area	Maximum spacing
Light	Noncombustible unobstructed/obstructed; hydraulically calculated	225 ft² / 20 m²	15 ft / 4.6 m
Light	Same; pipe schedule	200 ft² / 18 m²	15 ft / 4.6 m
Light	Combustible unobstructed, no exposed members; hydraulic	225 ft² / 20 m²	15 ft / 4.6 m
Light	Same; pipe schedule	200 ft² / 18 m²	15 ft / 4.6 m
Light	Combustible unobstructed, members ≥910 mm o.c.; hydraulic	225 ft² / 20 m²	15 ft / 4.6 m
Light	Same; pipe schedule	200 ft² / 18 m²	15 ft / 4.6 m
Light	Combustible unobstructed, members <910 mm o.c.	130 ft² / 12 m²	15 ft / 4.6 m
Light	Combustible obstructed, members ≥910 mm o.c.	168 ft² / 16 m²	15 ft / 4.6 m
Light	Combustible obstructed, members <910 mm o.c.	130 ft² / 12 m²	15 ft / 4.6 m
Light	Specified combustible concealed spaces	120 ft² / 11 m²	15 ft parallel; 10 ft perpendicular to slope
Ordinary	All construction and system types	130 ft² / 12 m²	15 ft / 4.6 m
Extra	Pipe schedule	90 ft² / 8.4 m²	12 ft / 3.7 m*
Extra	Hydraulic density ≥0.25 gpm/ft²	100 ft² / 9 m²	12 ft / 3.7 m*
Extra	Hydraulic density <0.25 gpm/ft²	130 ft² / 12 m²	15 ft / 4.6 m
High-piled storage	Hydraulic density ≥0.25 gpm/ft²	100 ft² / 9 m²	12 ft / 3.7 m*
High-piled storage	Hydraulic density <0.25 gpm/ft²	130 ft² / 12 m²	15 ft / 4.6 m

*Solid structural members forming bays up to 25 ft (7.6 m) wide can permit spacing up to 12 ft 6 in (3.8 m) where stated in the NFPA table.

Table 7. Standard sidewall spray - maximum coverage⁷

Hazard	Ceiling finish	Max along wall S	Max room width L	Max area
Light	Combustible ceiling finish	14 ft / 4.3 m	12 ft / 3.7 m	120 ft² / 11 m²
Light	Noncombustible or limited-combustible ceiling finish	14 ft / 4.3 m	14 ft / 4.3 m	196 ft² / 18 m²
Ordinary	Combustible ceiling finish	10 ft / 3.0 m	10 ft / 3.0 m	80 ft² / 7.4 m²
Ordinary	Noncombustible or limited-combustible ceiling finish	10 ft / 3.0 m	10 ft / 3.0 m	100 ft² / 9.3 m²

Inspection note: For both standard upright/pendent and sidewall sprinklers, maximum distance to a wall is generally one-half the permitted sprinkler spacing. Minimum wall and inter-sprinkler distances, deflector position, obstructions and listing restrictions must also be checked.

⁶ Ibid tables 10.2.4.2.1(a)-10.2.4.2.1(d) and ss 10.2.6.1-10.2.6.4.

⁷ Ibid table 10.3.3.2.1 and ss 10.3.4.1-10.3.4.4.

1.5 Extended-coverage and CMSA spacing

Table 8. Extended-coverage upright/pendent spray - listed coverage options⁸

Construction	Hazard	Protection area ft ² /m ² at spacing ft/m
Unobstructed	Light and ordinary	400/37 at 20/6.1; 324/30 at 18/5.5; 256/24 at 16/4.9
Unobstructed	Ordinary, extra and high-piled storage	196/18 at 14/4.3; 144/13 at 12/3.7 (extra/storage spacing 15/4.6 for 144 ft ²)
Obstructed noncombustible - specifically listed	Light and ordinary	Same 400, 324 and 256 ft ² options
Obstructed noncombustible - specifically listed	Ordinary, extra and high-piled storage	Same 196 and 144 ft ² options
Obstructed combustible	All	Not applicable

Table 9. Extended-coverage sidewall and CMSA quick reference⁹

Sprinkler	Construction/use	Maximum area	Maximum spacing
EC sidewall	Unobstructed, smooth, flat - light hazard	400 ft ² / 37 m ²	28 ft / 8.5 m
EC sidewall	Unobstructed, smooth, flat - ordinary hazard	400 ft ² / 37 m ²	24 ft / 7.3 m
CMSA	Noncombustible unobstructed/obstructed; combustible unobstructed	130 ft ² / 12 m ²	12 ft / 3.7 m
CMSA	Combustible obstructed	100 ft ² / 9 m ²	10 ft / 3.0 m
CMSA	Rack storage, combustible obstructed	100 ft ² / 9 m ²	10 ft / 3.0 m
CMSA	Rack storage, unobstructed or noncombustible obstructed	100 ft ² / 9 m ²	12 ft / 3.7 m

Inspection note: Extended-coverage sprinklers are listing-dependent. Confirm the exact coverage rectangle, hazard, ceiling type/height/slope, obstruction allowances, K-factor, pressure and temperature rating from the manufacturer's listing before applying the NFPA maximums.

1.6 Storage inspections: table-selection control

Table 10. Storage design-table routing¹⁰

NFPA 13 location	Primary subject	Site evidence to match
Chapter 20	Commodity classification and general storage criteria	Commodity, packaging, pallet and encapsulation
Chapter 21	Class I-IV and plastic commodities	Commodity class and plastic characteristics
Chapter 22	Rack storage	Rack configuration, aisle, flue spaces and storage height
Chapter 23	Solid-piled, palletized, bin-box and shelf storage	Arrangement and storage height
Chapter 24	Alternative sprinkler designs	Exact permitted alternative and limitations
Chapter 25	In-rack sprinkler protection	In-rack level, position, K-factor, pressure and ceiling design

Inspection note: Never accept a storage system by sprinkler K-factor alone. Verify the complete combination: commodity + packaging + pallet + arrangement + storage height + building height + sprinkler type + ceiling system + in-rack system, where applicable.

⁸ Ibid table 11.2.2.1.2 and ss 11.2.3.1-11.2.3.4.

⁹ Ibid tables 11.3.3.2.1 and 13.2.4.2.1.

¹⁰ Ibid chs 20-25.

1.7 Sprinkler field checklist

- Manufacturer, model/SIN, orientation, response type and K-factor match approved submittal
- Temperature rating and colour identification suit ambient and local heat sources
- Sprinkler type and coverage match occupancy and storage criteria
- Spacing, distance to walls, ceiling/roof slope and protection area are within limits
- Deflector distance and orientation comply with the relevant chapter and listing
- Obstructions from beams, ducts, lights, cable trays, signage, partitions and ceiling features are addressed
- Sprinklers are not painted, loaded, corroded, damaged or missing required escutcheons/cover plates
- No field-modified sprinklers; concealed/recessed components are part of the listed assembly
- Minimum clearance below storage is maintained and storage configuration matches the approved design

2. Hangers and supports

2.1.Hanger rod sizes

Table 11. Minimum hanger rod diameter¹¹

Pipe size US	Pipe size SI	Rod diameter US	Rod diameter SI
Up to 4 in	Up to 100 mm	3/8 in	10 mm
5-8 in	125-200 mm	1/2 in	13 mm
10 in	250 mm	5/8 in	16 mm
12 in	300 mm	3/4 in	20 mm
14-18 in	350-450 mm	1 in	25 mm
20-24 in	500-600 mm	1 1/4 in	32 mm

2.2.Maximum distance between hangers

Table 12. Maximum hanger spacing - SI values¹²

Pipe / nominal size (mm)	20	25	32	40	50	65	80	90	100	125	150	200
Steel except threaded lightwall	NA	3.7	3.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Threaded lightwall steel	NA	3.7	3.7	3.7	3.7	3.7	3.7	NA	NA	NA	NA	NA
Copper tube	2.4	2.4	3.0	3.0	3.7	3.7	3.7	4.6	4.6	4.6	4.6	4.6
CPVC	1.7	1.8	2.0	2.1	2.4	2.7	3.0	NA	NA	NA	NA	NA
Ductile-iron pipe	NA	NA	NA	NA	NA	NA	4.6	NA	4.6	NA	4.6	4.6

¹¹ Ibid table 17.2.1.1.

¹² Ibid table 17.4.2.1(b).

2.3.Critical unsupported-length checks

Table 13. Field limits adjacent to end sprinklers and armovers¹³

Condition	Maximum unsupported horizontal length
End sprinkler to last hanger - steel	1 in: 900 mm; 1 1/4 in: 1,200 mm; 1 1/2 in or larger: 1,500 mm
End sprinkler to last hanger - copper	1 in: 450 mm; 1 1/4 in: 600 mm; 1 1/2 in or larger: 750 mm
Unsupported armover - steel	600 mm cumulative horizontal length
Unsupported armover - copper	300 mm cumulative horizontal length
High pressure >100 psi, pendent below ceiling - steel	300 mm between end sprinkler/drop nipple and last hanger
High pressure >100 psi, pendent below ceiling - copper	150 mm between end sprinkler/drop nipple and last hanger

2.4.Pipe stands

Table 14. Maximum pipe-stand heights - SI¹⁴

System pipe mm / stand dia mm	40	50	65	80	100	150
40	2.0	2.9	3.4	4.2	5.5	8.2
50	1.3	2.9	3.4	4.2	5.5	8.2
65	-	2.5	3.4	4.2	5.5	8.2
80	-	1.6	3.4	4.2	5.5	8.2
100-200	-	-	-	-	4.5	8.2

Values are maximum stand heights in metres. Pipe stands are Schedule 40; supported system piping is assumed Schedule 40 except 200 mm is Schedule 30.

Table 15. Pipe-stand inspection essentials¹⁵

Check	Acceptance point
Alternative short stand	Up to 250 mm Schedule 40 system pipe on 50 mm Schedule 40 stand; maximum 1.2 m high; axially loaded
Spacing	Not greater than the applicable hanger-spacing table
Base	Approved securement; listed concrete anchors or approved means
Base anchors	Normally four; specified short-stand arrangement can use two
Anchor diameter	15 mm through 80 mm stand; 16 mm for 100 mm and larger; specified short stand can use 10 mm
Pipe attachment	U-bolts or equivalent, subject to saddle exception
Horizontal bracket	Centreline offset not more than 300 mm; section modulus checked
Exterior	Galvanized steel or suitable corrosion-resistant material where required; securely capped

¹³ Ibid ss 17.4.3.4 and 17.4.3.5.

¹⁴ Ibid table 17.5.3.1(b).

¹⁵ Ibid ss 17.5.3-17.5.7.

2.5.Attachment, trapeze and seismic table index

Table 16. Supporting design tables to carry to site¹⁶

NFPA table	Subject	Site use
17.2.1.4	U-hook rod sizes	Verify hook material diameter
17.2.1.5.1	Eye-rod sizes	Verify bent/welded eye rod diameter
17.2.2.10.1	Minimum bolt or rod size for concrete	Verify through-concrete attachment size
17.2.3.5.1	Minimum bolt or rod size for steel	Verify through-steel attachment size
17.2.4.2.1	Screw dimensions for ceiling flanges and U-hooks	Verify screw type, diameter and length
17.2.4.3.1	Bolt/rod/lag-screw sizes at side of beam	Verify size and lag penetration
17.2.4.7.1-.2	Coach-screw rod and timber dimensions	Verify rod size, penetration and timber dimensions
17.3.1(a)-(d)	Required/available trapeze section modulus	Compare installed member and span with approved calculation; no interpolation
17.5.5.4	Pipe-stand horizontal support arm modulus	Compare support arm with approved calculation
18.5.5.2(a)-(l)	Maximum load in sway-brace zone of influence	Design verification; match installed pipe/brace schedule
18.5.12.2(a)-(m)	Brace fastener/anchor capacity	Verify anchor type, embedment, concrete and prying factor
18.6.4(a)-(b)	Maximum spacing of pipe restraints	Verify branch-line restraint layout

2.6.Hanger/support field checklist

- Hanger and rod type, size and listing match approved details
- Maximum hanger spacing and required hanger locations are satisfied
- Hangers attach to structural members or approved engineered/shared assemblies
- Ceiling-grid wires are not the sole support for sprinkler piping
- Piping and hangers do not support non-system components
- Trapeze member size, span, orientation, anti-slip detail, rods, washers and nuts match design
- Branch-line end lengths, armovers and high-pressure upward-restraint details are compliant
- Risers are supported at required levels, offsets and top; maximum riser support spacing is 7.6 m
- Pipe stands, bases, anchors, U-bolts and corrosion protection are compliant
- Seismic flexible couplings, clearances, lateral/longitudinal braces, restraints and separation details match approved seismic drawings

¹⁶ Ibid tables 17.3.1.1, 17.3.2.1, 17.3.3.1, 18.5.2.2, 18.5.3.1 and 18.5.4.1.

3. Piping and fittings

3.1.Aboveground pipe and tube materials

Table 17. Recognised aboveground pipe/tube standards¹⁷

Material	Description	Referenced standard
Ferrous	Black/galvanized welded and seamless steel fire-protection pipe	ASTM A795/A795M
Ferrous	Black/galvanized welded and seamless steel pipe	ASTM A53/A53M
Ferrous	Welded and seamless wrought steel pipe	ASME B36.10M
Ferrous	Electric-resistance-welded steel pipe	ASTM A135/A135M
Copper	Seamless copper tube	ASTM B75/B75M
Copper	Seamless copper water tube	ASTM B88
Copper	General wrought seamless copper/alloy tube requirements	ASTM B251
Copper	Liquid and paste fluxes for soldering copper tube	ASTM B813
Copper	Brazing and braze-welding filler metals	AWS A5.8M/A5.8
CPVC	Chlorinated PVC pipe	ASTM F442/F442M
Brass	Seamless red brass pipe	ASTM B43
Stainless	Seamless/welded austenitic stainless pipe	ASTM A312/A312M

Inspection note: Appearance in this table does not by itself approve the installed product. Nonmetallic pipe must be listed for sprinkler service and installed within its listing. Confirm manufacturer, model/designation, schedule/wall thickness, pressure rating and occupancy limitations.

¹⁷ Ibid table 7.3.1.1.

3.2.Aboveground fittings

Table 18. Recognised fitting-material standards¹⁸

Material	Description	Referenced standard
Cast iron	Gray iron threaded fittings, Classes 125 and 250	ASME B16.4
Cast iron	Gray iron flanges and flanged fittings, Classes 25, 125 and 250	ASME B16.1
Malleable iron	Threaded fittings, Classes 150 and 300	ASME B16.3
Steel	Factory-made wrought butt welding fittings	ASME B16.9
Steel	Butt welding ends	ASME B16.25
Steel	Forged socket-welding/threaded fittings	ASME B16.11
Steel	Wrought carbon-steel/alloy fittings for moderate/high temperature service	ASTM A234/A234M
Steel	Pipe flanges/flanged fittings, NPS 1/2 through NPS 24	ASME B16.5
Copper	Wrought copper/alloy solder-joint fittings	ASME B16.22
Copper	Cast copper-alloy solder-joint fittings	ASME B16.18
CPVC	Threaded CPVC fittings	ASTM F437
CPVC	Socket-type CPVC fittings	ASTM F438
CPVC	Transition CPVC fittings	ASTM F439
Bronze	Cast copper-alloy threaded fittings, Classes 125 and 250	ASME B16.15
Stainless	Wrought austenitic stainless fittings	ASTM A403/A403M

3.3.Underground pipe and fittings

Table 19. Underground pipe material groups and principal standards¹⁹

Material	Scope	Referenced standards
Ductile iron	Lining, encasement, gaskets, flanges, thickness, pipe and installation	AWWA C104/A21.4; C105/A21.5; C111/A21.11; C115/A21.15; C150/A21.50; C151/A21.51; C600
Concrete	Reinforced/prestressed pressure pipe and cement-mortar lining	AWWA C300; C301; C302; C303; C602
Plastic	PVC pressure pipe/fittings; PE pipe/fittings; PVCO pipe	AWWA C900; C906; C909
Brass	Seamless red brass pipe	ASTM B43
Copper	Seamless copper tube/water tube; wrought seamless copper/alloy tube	ASTM B75/B75M; B88; B251/B251M
Stainless steel	Seamless, welded and heavily cold-worked austenitic stainless pipe	ASTM A312/A312M

Table 20. Underground fittings²⁰

Material	Description	Referenced standards
Cast iron	Gray iron threaded fittings; flanges/flanged fittings	ASME B16.4; ASME B16.1
Ductile iron	Compact and standard fittings	AWWA C110/A21.10; AWWA C153/A21.53
Malleable iron	Threaded fittings, Classes 150 and 300	ASME B16.3
Copper	Wrought and cast solder-joint pressure fittings	ASME B16.22; ASME B16.18

¹⁸ Ibid table 7.4.1.

¹⁹ Ibid table 6.2.1.1.

²⁰ Ibid table 6.3.1.1.

Material	Description	Referenced standards
Bronze	Cast copper-alloy threaded fittings	ASME B16.15
Stainless steel	Wrought austenitic stainless fittings	ASTM A403/A403M

3.4.Piping site checklist

3.5 Field nonconformance record

Table 21. Minimum information for each inspection finding

Record field	Entry
Project / building / level	
Grid, room or exact location	
Drawing number / revision / detail	
System / zone / riser	
Installed item and manufacturer/model	
Measured condition	
Required condition and NFPA reference	
Photograph number	
Disposition / responsible party / due date	

4. Recommended field reference package

Table 22. Documents to have available during inspection

No.	Field reference
1	Approved sprinkler shop drawings and coordinated reflected-ceiling plans
2	Approved hydraulic calculations and design data placard information
3	Sprinkler manufacturer data sheets and listing documentation
4	Approved material submittals for pipe, fittings, valves and couplings
5	Hanger details, trapeze calculations and structural attachment details
6	Seismic calculations, brace schedule, zone-of-influence drawings and anchor data
7	Approved storage plan: commodity, storage method, height, aisle and rack/flue arrangement
8	Current NFPA 13 (adopted edition) and applicable SBC/AHJ amendments
9	Inspection and test plans, flushing certificates, weld records and pressure-test results
10	Calibrated measuring tools and photograph/location-record system

5. Reference

NFPA 13: *Standard for the Installation of Sprinkler Systems* (2025 edn).