NFPA 13D Residential Fire Sprinkler Design

Project Information & Design Intake Form

(Based on NFPA 13D – 2022 Edition)

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This form must be completed and returned along with the required documents prior to the start of design.

All sprinkler system designs will be prepared in accordance with:

NFPA 13D – Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes (2022 Edition)

Local amendments and Authority Having Jurisdiction (AHJ) requirements must be identified and provided by the client.

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1. Project Information

Project Name: _____

Project Address: _____

City / State / Zip: _____

Owner / Builder: _____

Contact Name: _____

Phone: _____ **Email:** _____

General Contractor

Company Name: _____

Address: _____

City / State / Zip: _____

Phone: _____ Email: _____

Installing Fire Sprinkler Contractor

Company Name: _____

Address: _____

City / State / Zip: _____

Phone: _____ Project Manager: _____

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2. Design Schedule & Fee

Typical turnaround time for a standard **NFPA 13D (2022 Edition) residential fire sprinkler design** is:

3–4 weeks from receipt of all required information.

Base Design Fee: $1,200

Payment Terms

• 50% deposit required prior to beginning design
• Remaining 50% due upon delivery of plans and hydraulic calculations

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3. Required Documents

The following items must be submitted before design can begin:

✓ Architectural Plans
✓ Completed Design Information Sheet (this form)
✓ Current Water Flow Test

Accepted plan formats:

• Revit (Preferred)
• DWG
• Clean / high-resolution PDF

Lighting plans are preferred when available to assist with sprinkler layout coordination.

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4. Water Supply Information

Flow Test Information

Static Pressure (psi): _____

Residual Pressure (psi): _____

Flow (gpm): _____

Date of Flow Test: _____

Flow Test Location: _____

Distance from project: _____

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5. Water Supply Curve Data (if available)

If a hydrant flow test or municipal supply curve is available, please provide.

Point 1: _____ psi @ _____ gpm

Point 2: _____ psi @ _____ gpm

Source of data:

_____

_____

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6. Water Meter Information

Meter Size: _____

Note:

Meter size should typically be **no less than 1 inch** unless available pressure exceeds **approximately 80 psi**.

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7. Underground Service Information

City Tap to Meter

Pipe Size: _____

Pipe Material: _____

Meter to Proposed Riser Location

Pipe Size: _____

Pipe Material: _____

Approximate Length: _____

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8. Building Information

Number of Stories: _____

Total Square Footage: _____

Construction Type: _____

Ceiling Types

- ☐ Flat
- ☐ Vaulted
- ☐ Tray
- ☐ Sloped

Additional notes:

_____

_____

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9. Attic Conditions

Attic Type

- ☐ Vented
- ☐ Conditioned
- ☐ Unconditioned

Sprinkler piping is typically routed through the attic to supply concealed sprinklers.

If freezing is a concern, please indicate preferred design approach:

- ☐ Insulated piping
- ☐ Conditioned attic space
- ☐ Alternate piping routing
- ☐ Sidewall sprinkler design
- ☐ Other: _____

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10. NFPA 13D Design Scope

System design will be prepared in accordance with:

NFPA 13D – 2022 Edition

Typical NFPA 13D designs **do not include sprinkler protection in the following areas unless specifically requested:**

• Small closets
• Bathrooms
• Garages
• Attics
• Crawl spaces

If sprinkler protection is requested in any of these areas, please indicate:

_____

_____

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11. Hydraulic Design Criteria (NFPA 13D)

Design calculations will typically be based on the following criteria unless modified by AHJ requirements.

Number of Sprinklers in Design Area

☐ Two sprinklers (typical)

Water Supply Duration

☐ 10 minutes

Minimum Flow Requirements

☐ Per sprinkler manufacturer listing

Minimum Operating Pressure

☐ Per sprinkler listing and K-factor

Remote Area Location

☐ Most hydraulically demanding compartment

Additional notes:

_____

_____

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12. Sprinkler Selection

Preferred Manufacturer

- ☐ Tyco
- ☐ Viking
- ☐ Reliable
- ☐ Other: _____

Sprinkler Type

- ☐ Concealed Pendent
- ☐ Flush Pendent
- ☐ Standard Pendent
- ☐ Sidewall

Temperature Rating

- ☐ 155°F / 68°C (Typical)

Other temperature rating if required:

_____

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13. Pipe Material Preference

- ☐ CPVC
- ☐ PEX **(we do not recommend this type of pipe - due to constraints on hydraulics)**
- ☐ Steel
- ☐ Other: _____

Pipe material must comply with **NFPA 13D – 2022 Edition and manufacturer listings.**

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14. Backflow Preventer

Preferred Model

- ☐ Ames 2000B
- ☐ Watts 007
- ☐ Other: _____

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15. Local Code Amendments / AHJ Requirements

Please list any **local amendments or AHJ requirements** modifying NFPA 13D (2022 Edition):

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_____

_____

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16. Required Submittal Checklist

- ☐ Architectural plans (Revit / DWG / PDF)
- ☐ Lighting plans (if available)
- ☐ Completed design information sheet
- ☐ Current water flow test
- ☐ Underground pipe information
- ☐ Meter size information
- ☐ Local amendments (if applicable)

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17. Authorization to Proceed

By submitting this form, the client authorizes preparation of a **residential fire sprinkler system design in accordance with NFPA 13D – 2022 Edition** based on the information provided.

Name: _____

Company: _____

Signature: _____

Date: _____