

WHY IS A HAZARD CLASSIFICATION IMPORTANT?



202 NFPA 13 - Chapter 4 - General Requirements

Chapter 4 - General Requirements

4.1 Level of Protection

4.2 Owner's Certificate

4.3 Classification of Hazard

4.4 System Protection Area Limitations

4.5 Water Supply Information

4.6 Address

4.7 Air, Nitrogen, or Other Approved Gas

4.8 Support of Nonresponder System Components

4.9 Noncombustible Materials and Limited Combustible Materials

4.10 Resources

Tables From Chapter 4

4.3 Classification of Hazard

EXHAUSTIVE CONTEXT

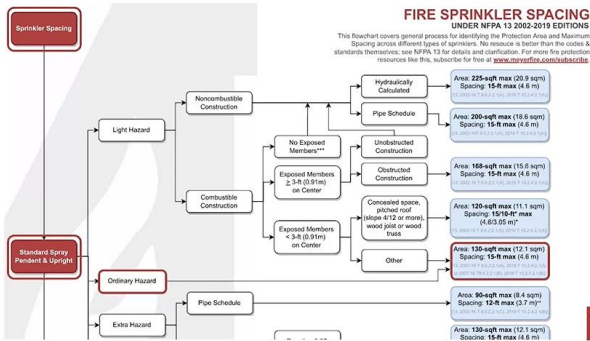
The occupancy hazard classifications and commodity classifications covered in this chapter form the basis of the design and installation criteria in NFPA 13. The occupancy hazards provide a convenient means of categorizing the fuel loads and the severity associated with certain building operations. In a similar way, the commodity classifications provide a convenient means of categorizing a relationship between the chemical heat of combustion of various materials and their heat release rate so that the appropriate sprinkler system design can be identified. The likelihood of ignition is not considered in the occupancy or commodity classifications.

The classification of the occupancy or the commodity is the first major decision that is made in the design of the sprinkler system and can have a huge impact on the effectiveness of the system during a fire. This decision is especially critical to assignment of a commodity classification for stored goods. When the storage commodity has been improperly classified, a sprinkler system's capability to control a fire in a warehouse environment can be compromised, allowing for unrelieved horizontal spread.

4.3.1 General

4.3.1.1 Occupancy classifications for this standard shall relate to sprinkler design, installation, and water supply requirements only.

4.3.1.2



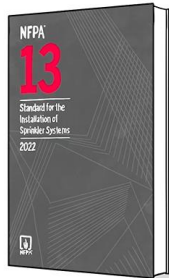
NOTES

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INDOOR
UTILITY LAB
111
25599 SF

PROVIDE NFPA-13
COVERAGE OF ALL
ZONE 1 AREAS WITH
LIGHT HAZARD DRY
PIPE SYSTEM



ESTIMATOR

MEYERFIRE ESTIMATOR

ESTIMATE TOTAL: 45.9
ESTIMATE TOTAL: 405

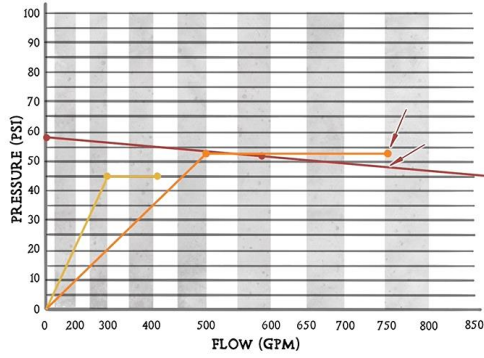
SYSTEM	UNIT	IN PLACE AREA	LOOKED WORK
NFPA 13 System	100	Initial Sprinkler Area: 1,000 sq ft	Line Diameter: 1.5 in
Configuration	100	QPI Reduction: No	Long March: From 10'
Drop	No Overhead	Drop Protection: Yes	Yes
System Type	Wet	Drop (Under Protection): Yes	Under Protection: 2 in
Ry	No Overhead	High Temp Protection: No	Yes
Height	100	Aluminum Protection Area	Yes
Light	100	2500 sq ft	Under Protection: 2 in
Density: 3.0 gpm/sq ft	7	Under Protection Length: 10'	Yes
875	100	Under Protection Length: 10'	Yes
Circle 100	100	Under Protection Length: 10'	Yes
Wash Hose: 2 gpm	100	Under Protection Length: 10'	Yes
100	100	Under Protection Length: 10'	Yes
Under Protection: 100 gpm	100	Under Protection Length: 10'	Yes
100	100	Under Protection Length: 10'	Yes
K Factor: 5	100	Under Protection Length: 10'	Yes
Monitor Pressure: 200	100	Under Protection Length: 10'	Yes
7	100	Under Protection Length: 10'	Yes



NOTES

Grid area for notes.

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Grid of dots for taking notes.