

- (6) Solid steel tops over top shelving units except at tops of transverse and longitudinal flue spaces.
- (7) Open-ended, hollow tubular steel vertical (upright) shelving columns at top of shelving system.
- (8) Shelving system framing and power tracks not exceeding 3 in. (76 mm) in width and not less than 1 ft (0.305 m) on centers and not less than 6 in. (152 mm) below sprinkler deflectors.
- (9) Minimum clearance of 36 in. (914 mm) above top solid steel cover over top storage shelf to the sprinkler deflector.
- (10) Mobile shelving systems arranged to shift automatically to a uniform nominal 6 in. (152 mm) clearance clear space between mobile carriages supporting back-to-back shelving units. Systems shall be arranged to initiate the shifting 60 seconds after activation of ceiling-mounted smoke detectors or upon sprinkler flow, whichever is first. Shelving system carriage electrical motors shall be listed and integral to the mobile carriage systems for normal functions and shall not be required to have emergency power back-up.

## Chapter 21 Alternative Sprinkler System Designs for Chapters 12 Through 20

### 21.1\* General.

**21.1.1** Sprinklers intended to protect storage fire risks shall be permitted to be installed using water supply design criteria that are different from the design criteria specified for the sprinklers described in Chapters 12 through 20 when specifically listed for such use within the limitations described in this chapter.

**21.1.2** The requirements of Chapters 12 through 20 shall apply unless modified by this chapter.

**21.1.3** The in-rack protection requirements of Chapters 12 through 20 shall apply when storage racks are equipped with solid shelves and in-rack sprinklers are required per the applicable chapter.

**21.1.4** The requirements of the applicable chapter shall apply when ceiling-only protection options are not available per this chapter.

**21.1.5** The design criteria in this chapter shall not be used to permit a reduction in the water supply requirements for in-rack sprinkler protection.

**21.1.6** A series of large-scale fire tests involving challenging test scenarios that address the range of variables associated with the intended application of the sprinkler shall be conducted to evaluate the ability of the sprinkler to protect storage fire risks that are representative of those described in the manufacturer's installation and design parameter instructions and referenced in the listing.

**21.1.7** The manufacturer's installation and design parameter instructions for these sprinklers shall specify in a standardized manner the end-use limitations and sprinkler system design criteria including at least the following:

- (1) Commodity or commodities to be protected
- (2) Storage arrangements allowed
- (3) Installation guidelines including obstruction and ceiling construction limitations

- (4) Maximum ceiling and storage heights with associated minimum operating pressures and number of sprinklers required to be included in the hydraulic calculation
- (5) Hose stream allowance and duration

**21.1.8** The number of sprinklers to be used in the sprinkler system design shall be based on the worst-case result obtained from the full-scale fire test series increased by a minimum 50 percent.

**21.1.8.1** Regardless of the number of sprinklers that operated during the worst-case full-scale fire test, the number in the sprinkler system demand shall be no less than one of the following:

- (1) Twelve sprinklers for standard coverage sprinklers
- (2) Eight sprinklers for extended-coverage sprinklers based on a spacing of 12 ft × 12 ft (3.7 × 3.7 m)
- (3) Six sprinklers for extended-coverage sprinklers based on a spacing of 14 ft × 14 ft (4.3 × 4.3 m)

**21.1.8.2** Once the number of sprinklers for a demand area has been established, the minimum operating area, based on the proposed sprinkler spacing, shall not be less than 768 ft<sup>2</sup> (71 m<sup>2</sup>).

**21.2\* Sprinkler Protection Criteria for Palletized, Solid-Piled, Bin Box, Shelf, or Back-to-Back Shelf Storage of Class I Through Class IV and Plastic Commodities.**

**21.2.1** Protection of palletized and solid-piled storage of Class I through Class IV and cartoned nonexpanded plastic commodities shall be permitted to be protected in accordance with Table 21.2.1.

**21.2.2** Protection of palletized and solid-piled storage of Class I through Class IV and plastic commodities shall be permitted to be protected in accordance with Table 21.2.2.

**21.3\* Sprinkler Protection Criteria for Open-Frame Rack Storage of Class I Through Class IV and Plastic Commodities.**

**21.3.1** Protection of single-, double-, and multiple-row racks without solid shelves of Class I through Class IV and cartoned nonexpanded plastic commodities shall be permitted to be protected in accordance with Table 21.3.1.

**21.3.2** Protection of open-frame rack storage of Class I through Class IV and plastic commodities shall be permitted to be protected in accordance with Table 21.3.2.

**21.4 Hose Stream Allowance and Water Supply Duration.**

**21.4.1** The minimum water supply requirements for a hydraulically designed occupancy hazard fire control sprinkler system shall be determined by adding the hose stream allowance from Table 21.4.1 to the water supply for sprinklers obtained from this chapter.

**21.4.1.1** The water supply requirements for a hydraulically designed occupancy hazard fire control sprinkler system shall be available for the minimum duration specified in Table 21.4.1.

**21.5 Minimum Obstruction Criteria.**

**21.5.1 General.** The installation guidelines for obstructions to ceiling-level sprinklers shall be in accordance with the requirements of Section 21.5 for sprinkler system designs obtained from this chapter.

**21.5.2 Standard Coverage Spacing Sprinklers.**

**21.5.2.1** Sprinklers having standard coverage areas requiring up to 20 sprinklers to be included in the hydraulic calculation shall be installed in accordance with the obstruction criteria described in 8.12.5, unless large-scale fire testing is conducted with a representative obstruction below the sprinkler that demonstrates equivalent performance.



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### **Table of Contents Nfpa 21codes 2013 Edition**

1. Understanding the eBook Nfpa 21codes 2013 Edition
  - The Rise of Digital Reading Nfpa 21codes 2013 Edition
  - Advantages of eBooks Over Traditional Books
2. Identifying Nfpa 21codes 2013 Edition
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Nfpa 21codes 2013 Edition
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nfpa 21codes 2013 Edition
  - Personalized Recommendations
  - Nfpa 21codes 2013 Edition User Reviews and Ratings

- Nfpa 21codes 2013 Edition and Bestseller Lists
- 5. Accessing Nfpa 21codes 2013 Edition Free and Paid eBooks
  - Nfpa 21codes 2013 Edition Public Domain eBooks
  - Nfpa 21codes 2013 Edition eBook Subscription Services
  - Nfpa 21codes 2013 Edition Budget-Friendly Options
- 6. Navigating Nfpa 21codes 2013 Edition eBook Formats
  - ePub, PDF, MOBI, and More
  - Nfpa 21codes 2013 Edition Compatibility with Devices
  - Nfpa 21codes 2013 Edition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Nfpa 21codes 2013 Edition
  - Highlighting and Note-Taking Nfpa 21codes 2013 Edition
  - Interactive Elements Nfpa 21codes 2013 Edition
- 8. Staying Engaged with Nfpa 21codes 2013 Edition
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Nfpa 21codes 2013 Edition
- 9. Balancing eBooks and Physical Books Nfpa 21codes 2013 Edition
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Nfpa 21codes 2013 Edition
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Nfpa 21codes 2013 Edition
  - Setting Reading Goals Nfpa 21codes 2013 Edition
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nfpa 21codes 2013 Edition
  - Fact-Checking eBook Content of Nfpa 21codes 2013 Edition
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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web the book of psalms סִפְרָתְּ הַתְּהִלִּים or סִפְרָתְּ הַתְּהִלִּים lit praises also known as the psalms or the psalter is the first book of the third section of the hebrew bible called ketuvim writings and a book of the old testament  
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