



D Sprinkler System Information from the 2024 Edition of the *Life Safety Code*

This annex is not a part of the requirements of this NFPA document but is included for informational purposes only.

D.1 Introduction.

This annex is provided as an aid to the user of NFPA 13 by identifying those portions of the 2021 edition of NFPA 101 that pertain to sprinkler system design and installation. It is not intended that this annex provide complete information regarding all aspects of fire protection addressed by NFPA 101. It is important to note that this information was copied from NFPA 101 but did not use NFPA's extract policy and is not intended to be a part of the requirements of NFPA 13.

D.1.1

The following sections cover situations where NFPA 101 provides different guidance on the design or installation of a fire sprinkler system from NFPA 13. In some cases, this different guidance is based on descriptions of unique situations handled by NFPA 101. In other cases, this different guidance stems from the different objective for NFPA 101, life safety of the occupant, rather than the property protection afforded by NFPA 13.

D.1.1.1 Features of Fire Protection.

D.1.1.1.1 Atriums.

Glass walls and inoperable windows shall be permitted in lieu of the fire barriers where all the following are met:

- (1) Automatic sprinklers are spaced along both sides of the glass wall and the inoperable windows at intervals not to exceed 6 ft (1.8 m).
- (2) The automatic sprinklers specified in 8.6.7(1)(c)(i) of NFPA 101 are located at a distance from the glass wall not to exceed 12 in. (300 mm) and arranged so that the entire surface of the glass is wet upon operation of the sprinklers.
- (3) The glass wall is of tempered, wired, laminated, or ceramic glass held in place by a retention system that allows the glass framing system to deflect without breaking (loading) the glass before the sprinklers operate.
- (4) The automatic sprinklers required by 8.6.7(1)(c)(i) of NFPA 101 are not required on the atrium side of the glass wall and the inoperable window where there is no walkway or other floor area on the atrium side above the main floor level.
- (5) Doors in the glass walls are of glass or other material that resists the passage of smoke.
- (6) Doors in the glass walls are self-closing or automatic-closing upon detection of smoke.
- (7) The glass is continuous vertically, without horizontal mullions, window treatments, or other obstructions that would interfere with the wetting of the entire glass surface.

[101:8.6.7(1)(c)]

D.1.1.1.2 Special Structures and High-Rise Buildings.

High-rise buildings shall be protected throughout by an approved, supervised automatic sprinkler system in accordance with NFPA 101, Section 9.7. A sprinkler control valve and a waterflow device shall be provided for each floor. [101:11.8.3.1]

D.1.1.1.3 Lodging or Rooming Houses.

D.1.1.1.3.1

In buildings sprinklered in accordance with NFPA 13 closets that contain equipment such as washers, dryers, furnaces, or water heaters shall be sprinklered, regardless of size. [101:26.3.6.2.5]

D.1.1.1.3.2

In existing lodging or rooming houses, sprinkler installations shall not be required in closets not exceeding 24 ft² (2.2 m²) and in bathrooms not exceeding 55 ft² (5.1 m²). [101:26.3.6.2.6]

D.1.1.1.4 New Hotels and Dormitories.

The provisions for draft curtains and closely spaced sprinklers in NFPA 13 shall not be required for openings complying with 8.6.9.1 of NFPA 101 where the opening is within the guest room or guest suite. [101:28.3.5.4]

D.1.1.5 Existing Hotels and Dormitories.

In guest rooms and in guest room suites, sprinkler installations shall not be required in closets not exceeding 24 ft² (2.2 m²) and in bathrooms not exceeding 55 ft² (5.1 m²). [101:29.3.5.5]

D.1.1.6 New Apartment Buildings.**D.1.1.6.1 Closets.**

In buildings sprinklered in accordance with NFPA 13, closets shall meet the following requirements:

- (1) Closets less than 12 ft² (1.1 m²) in individual dwelling units shall not be required to be sprinklered.
- (2) Closets that contain equipment such as washers, dryers, furnaces, or water heaters shall be sprinklered, regardless of size.

[101:30.3.5.3]

D.1.1.6.2 Convenience Openings.

The draft curtain and closely spaced sprinkler requirements of NFPA 13 shall not be required for convenience openings complying with 8.6.9.1 of NFPA 101 where the convenience opening is within the dwelling unit. [101:30.3.5.4]

D.1.1.7 Existing Apartment Buildings.**D.1.1.7.1**

In individual dwelling units, sprinkler installation shall not be required in closets not exceeding 24 ft² (2.2 m²) and in bathrooms not exceeding 55 ft² (5.1 m²). Closets that contain equipment such as washers, dryers, furnaces, or water heaters shall be sprinklered, regardless of size. [101:31.3.5.3]

D.1.1.7.2

In buildings sprinklered in accordance with NFPA 13 bathrooms not greater than 55 ft² (5.1 m²) in individual dwelling units shall not be required to be sprinklered. [101:31.3.5.4]

D.1.1.7.3

The draft curtain and closely spaced sprinkler requirements of NFPA 13 shall not be required for convenience openings complying with 8.6.9.1 of NFPA 101 where the convenience opening is within the dwelling unit. [101:31.3.5.5]

D.1.1.8 Existing Residential Board and Care Occupancies.**D.1.1.8.1**

Standard-response sprinklers shall be permitted for use in hazardous areas in accordance with 33.2.3.2 of NFPA 101. [101:33.2.2.4]

D.1.1.8.2

Where an automatic sprinkler system is installed, for either total or partial building coverage, all of the following requirements shall be met:

- (1) The system shall be in accordance with Section 9.7 of NFPA 101 and shall initiate the fire alarm system in accordance with 33.2.3.4.1, as modified by 33.2.3.5.3.1 through 33.2.3.5.3.6 of NFPA 101.
- (2) The adequacy of the water supply shall be documented to the authority having jurisdiction.

[101:33.2.3.5.3]

D.1.1.8.2.1

In prompt evacuation capability facilities, all of the following shall apply:

- (1) An automatic sprinkler system in accordance with 9.7.1.1(2) of NFPA 101 shall be permitted.
- (2) Automatic sprinklers shall not be required in closets not exceeding 24 ft² (2.2 m²) and in bathrooms not exceeding 55 ft² (5.1 m²), provided that such spaces are finished with lath and plaster or materials providing a 15-minute thermal barrier.

[101:33.2.3.5.3.1]

D.1.1.8.2.2

In slow and impractical evacuation capability facilities, all of the following shall apply:

- (1) An automatic sprinkler system in accordance with 9.7.1.1(2) of NFPA 101 with a 30-minute water supply, shall be permitted.

- (2) All habitable areas and closets shall be sprinklered.
- (3) Automatic sprinklers shall not be required in bathrooms not exceeding 55 ft² (5.1 m²), provided that such spaces are finished with lath and plaster or materials providing a 15-minute thermal barrier.

[101:33.2.3.5.3.2]

D.1.1.8.2.3

In prompt and slow evacuation capability facilities, where an automatic sprinkler system is in accordance with 9.7.1.1(1) of NFPA 101 sprinklers shall not be required in closets not exceeding 24 ft² (2.2 m²) and in bathrooms not exceeding 55 ft² (5.1 m²), provided that such spaces are finished with lath and plaster or materials providing a 15-minute thermal barrier. [101:33.2.3.5.3.3]

D.1.1.8.2.4

In prompt and slow evacuation capability facilities in buildings four or fewer stories above grade plane, systems in accordance with 9.7.1.1(3) of NFPA 101 shall be permitted. [101:33.2.3.5.3.4]

D.1.1.8.2.5

In impractical evacuation capability facilities in buildings four or fewer stories above grade plane, systems in accordance with 9.7.1.1(3) of NFPA 101 shall be permitted. All habitable areas and closets shall be sprinklered. Automatic sprinklers shall not be required in bathrooms not exceeding 55 ft² (5.1 m²), provided that such spaces are finished with lath and plaster or materials providing a 15-minute thermal barrier. [101:33.2.3.5.3.5]

D.1.1.8.2.6

Initiation of the fire alarm system shall not be required for existing installations in accordance with 33.2.3.5.6 of NFPA 101. [101:33.2.3.5.3.6]

D.1.1.8.2.7

All impractical evacuation capability facilities shall be protected throughout by an approved, supervised automatic sprinkler system in accordance with 33.2.3.5.3 of NFPA 101. [101:33.2.3.5.3.7]

D.1.1.9 New Mercantile Occupancies.

D.1.1.9.1 Protection of Vertical Openings.

Any vertical opening shall be protected in accordance with Section 8.6 of NFPA 101, except under the following conditions:

- (1) In Class A or Class B mercantile occupancies protected throughout by an approved, supervised automatic sprinkler system in accordance with 9.7.1.1(1) of NFPA 101, unprotected vertical openings shall be permitted at one of the following locations:
 - (a) Between any two floors
 - (b) Among the street floor, the first adjacent floor below, and the adjacent floor (or mezzanine) above
- (2) In Class C mercantile occupancies, unprotected openings shall be permitted between the street floor and the mezzanine.
- (3) The draft curtain and closely spaced sprinkler requirements of NFPA 13 shall not be required for unenclosed vertical openings permitted in 36.3.1(1) and 37.3.1(2) of NFPA 101.

[101:36.3.1]

D.1.1.9.2

Rooms housing building service equipment, janitor closets, and service elevators shall be permitted to open directly onto exit passageways, provided that all of the following criteria are met:

- (1) The required fire resistance rating between such rooms or areas and the exit passageway shall be maintained in accordance with 7.1.3.2 of NFPA 101.
- (2) Such rooms or areas shall be protected by an approved, supervised automatic sprinkler system in accordance with 9.7.1.1(1) of NFPA 101, but the exceptions in NFPA 13 allowing the omission of sprinklers from such rooms shall not be permitted.

[101:36.4.4.9.2]

D.1.1.10 Existing Mercantile Occupancies.

D.1.1.10.1 Protection of Vertical Openings.

Any vertical opening shall be protected in accordance with Section 8.6 of NFPA 101, except under any of the following conditions:

- (1) In Class A or Class B mercantile occupancies protected throughout by an approved, supervised automatic sprinkler system in accordance with 9.7.1.1(1) of NFPA 101, unprotected vertical openings shall be permitted at one of the following locations:

- (a) Between any two floors
- (b) Among the street floor, the first adjacent floor below, and the adjacent floor (or mezzanine) above
- (2) In Class C mercantile occupancies, unprotected openings shall be permitted between the street floor and the mezzanine.
- (3) The draft curtain and closely spaced sprinkler requirements of NFPA 13 shall not be required for unenclosed vertical openings permitted in 36.3.1(1) and 36.3.1(2) of NFPA 101.

[101:37.3.1]

D.1.1.10.2

Rooms housing building service equipment, janitor closets, and service elevators shall be permitted to open directly onto exit passageways, provided that all of the following criteria are met:

- (1) The required fire resistance rating between such rooms or areas and the exit passageway shall be maintained in accordance with 7.1.3.2 of NFPA 101.
- (2) Such rooms or areas shall be protected by an approved automatic sprinkler system in accordance with 9.7.1.1(1) of NFPA 101, but the exceptions in NFPA 13 allowing the omission of sprinklers from such rooms shall not be permitted.

[101:37.4.4.9.2]

D.1.1.11 Industrial Occupancies.

D.1.1.11.1 Special Provisions — High-Rise Buildings.

The provisions of 11.8.5.3.4(1) of NFPA 101 for jockey pumps and 11.8.5.3.4(2) of NFPA 101 for air compressors serving dry-pipe and preaction systems shall not apply to special-purpose industrial occupancies. [101:40.4.2.4]

D.2 Life Safety Code.

D.2.1 Features of Fire Protection.

D.2.1.1 Design Requirements. (Reserved)

D.2.1.2 Installation Requirements.

D.2.1.2.1 Atriums.

Glass walls and inoperable windows shall be permitted in lieu of the fire barriers where all the following are met:

- (1) Automatic sprinklers are spaced along both sides of the glass wall and the inoperable windows at intervals not to exceed 6 ft (1.8 m).
- (2) The automatic sprinklers specified in 8.6.7(1)(c)(i) of NFPA 101 are located at a distance from the glass wall not to exceed 12 in. (300 mm) and arranged so that the entire surface of the glass is wet upon operation of the sprinklers.
- (3) The glass wall is of tempered, wired, laminated, or ceramic glass held in place by a retention system that allows the glass framing system to deflect without breaking (loading) the glass before the sprinklers operate.
- (4) The automatic sprinklers required by 8.6.7(1)(c)(i) of NFPA 101 are not required on the atrium side of the glass wall and the inoperable window where there is no walkway or other floor area on the atrium side above the main floor level.
- (5) Doors in the glass walls are of glass or other material that resists the passage of smoke.
- (6) Doors in the glass walls are self-closing or automatic-closing upon detection of smoke.
- (7) The glass is continuous vertically, without horizontal mullions, window treatments, or other obstructions that would interfere with the wetting of the entire glass surface.

[101:8.6.7(1)(c)]

D.2.2 Special Structures and High-Rise Buildings.

D.2.2.1 Design Criteria.

High-rise buildings shall be protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7 of NFPA 101. A sprinkler control valve and a waterflow device shall be provided for each floor. [101:11.8.3.1]

D.2.3 New Assembly Occupancies.

D.2.3.1 Design Criteria.

D.2.3.1.1 Protection of Vertical Openings.

Any vertical opening shall be enclosed or protected in accordance with Section 8.6 of NFPA 101, unless otherwise permitted by one of the following:

- (1) Stairs or ramps shall be permitted to be unenclosed between balconies or mezzanines and main assembly areas located below, provided that the balcony or mezzanine is open to the main assembly area.
- (2) Exit access stairs from lighting and access catwalks, galleries, and gridirons shall not be required to be enclosed.
- (3) Assembly occupancies protected by an approved, supervised automatic sprinkler system in accordance with Section 9.7 of NFPA 101 shall be permitted to have unprotected vertical openings between any two adjacent floors, provided that such openings are separated from unprotected vertical openings serving other floors by a barrier complying with 8.6.5 of NFPA 101.
- (4) Assembly occupancies protected by an approved, supervised automatic sprinkler system in accordance with Section 9.7 of NFPA 101 shall be permitted to have convenience stair openings in accordance with 8.6.9.2 of NFPA 101.

[101:12.3.1]

D.2.3.2 Installation Requirements. (Reserved)**D.2.4 Existing Assembly Occupancies.****D.2.4.1 Design Criteria.****D.2.4.1.1 Protection of Vertical Openings.**

Any vertical opening shall be enclosed or protected in accordance with Section 8.6 of NFPA 101, unless otherwise permitted by one of the following:

- (1) Stairs or ramps shall be permitted to be unenclosed between balconies or mezzanines and main assembly areas located below, provided that the balcony or mezzanine is open to the main assembly area.
- (2) Exit access stairs from lighting and access catwalks, galleries, and gridirons shall not be required to be enclosed.
- (3) Assembly occupancies protected by an approved, supervised automatic sprinkler system in accordance with Section 9.7 of NFPA 101 shall be permitted to have unprotected vertical openings between any two adjacent floors, provided that such openings are separated from unprotected vertical openings serving other floors by a barrier complying with 8.6.5 of NFPA 101.
- (4) Assembly occupancies protected by an approved, supervised automatic sprinkler system in accordance with Section 9.7 of NFPA 101 shall be permitted to have convenience stair openings in accordance with 8.6.9.2 of NFPA 101.
- (5) Use of the following alternative materials shall be permitted where assemblies constructed of such materials are in good repair and free of any condition that would diminish their original fire resistance characteristics:
 - (a) Existing wood lath and plaster
 - (b) Existing $\frac{1}{2}$ in. (13 mm) gypsum panels
 - (c) Existing installations of $\frac{1}{4}$ in. (6.3 mm) thick wired glass that are, or are rendered, inoperative and fixed in the closed position
 - (d) Other existing materials having similar fire resistance capabilities

[101:13.3.1]

D.2.4.2 Installation Requirements. (Reserved)**D.2.5 New Educational Occupancies. (Reserved)****D.2.6 Existing Educational Occupancies. (Reserved)****D.2.7 New Day-Care Occupancies. (Reserved)****D.2.8 Existing Day-Care Occupancies. (Reserved)****D.2.9 New Health Care Occupancies. (Reserved)****D.2.10 Existing Health Care Occupancies. (Reserved)****D.2.11 New Ambulatory Health Care Occupancies. (Reserved)****D.2.12 Existing Ambulatory Health Care Occupancies. (Reserved)**

D.2.13 New Detention and Correctional Occupancies. (Reserved)**D.2.14 Existing Detention and Correctional Occupancies. (Reserved)****D.2.15 One- and Two-Family Dwellings. (Reserved)****D.2.16 Lodging or Rooming Houses.****D.2.16.1 Design Requirements. (Reserved)****D.2.16.2 Installation Requirements.****D.2.16.2.1**

In buildings sprinklered in accordance with NFPA 13 closets that contain equipment such as washers, dryers, furnaces, or water heaters shall be sprinklered, regardless of size. [101:26.3.6.2.5]

D.2.16.2.2

In existing lodging or rooming houses, sprinkler installations shall not be required in closets not exceeding 24 ft² (2.2 m²) and in bathrooms not exceeding 55 ft² (5.1 m²). [101:26.3.6.2.6]

D.2.17 New Hotels and Dormitories.**D.2.17.1 Design Requirements. (Reserved)****D.2.17.2 Installation Requirements.**

The provisions for draft curtains and closely spaced sprinklers in NFPA 13 shall not be required for openings complying with 8.6.9.1 of NFPA 101 where the opening is within the guest room or guest suite. [101:28.3.5.4]

D.2.18 Existing Hotels and Dormitories.**D.2.18.1 Design Requirements. (Reserved)****D.2.18.2 Installation Requirements.**

In guest rooms and in guest room suites, sprinkler installations shall not be required in closets not exceeding 24 ft² (2.2 m²) and in bathrooms not exceeding 55 ft² (5.1 m²). [101:29.3.5.5]

D.2.19 New Apartment Buildings.**D.2.19.1 Design Requirements. (Reserved)****D.2.19.2 Installation Requirements.****D.2.19.2.1 Closets.**

In buildings sprinklered in accordance with NFPA 13:

- (1) Closets less than 12 ft² (1.1 m²) in individual dwelling units shall not be required to be sprinklered.
- (2) Closets that contain equipment such as washers, dryers, furnaces, or water heaters shall be sprinklered, regardless of size.

[101:30.3.5.3]

D.2.19.2.2 Convenience Openings.

The draft curtain and closely spaced sprinkler requirements of NFPA 13 shall not be required for convenience openings complying with 8.6.9.1 of NFPA 101 where the convenience opening is within the dwelling unit. [101:30.3.5.4]

D.2.20 Existing Apartment Buildings.**D.2.20.1 Design Requirements. (Reserved)****D.2.20.2 Installation Requirements.****D.2.20.2.1**

In individual dwelling units, sprinkler installation shall not be required in closets not exceeding 24 ft² (2.2 m²) and in bathrooms not exceeding 55 ft² (5.1 m²). Closets that contain equipment such as washers, dryers, furnaces, or water heaters shall be sprinklered, regardless of size. [101:31.3.5.3]

D.2.20.2.2

The draft curtain and closely spaced sprinkler requirements of NFPA 13 shall not be required for convenience openings complying with 8.6.9.1 of NFPA 101 where the convenience opening is within the dwelling unit. [101:31.3.5.5]

D.2.21 New Residential Board and Care Occupancies. (Reserved)

D.2.22 Existing Residential Board and Care Occupancies.

D.2.22.1 Design Requirements. (Reserved)

D.2.22.2 Installation Requirements.

D.2.22.2.1

Standard-response sprinklers shall be permitted for use in hazardous areas in accordance with 33.2.3.2 of NFPA 101. [101:33.2.2.2.4]

D.2.22.2.2

In prompt and slow evacuation facilities, where an automatic sprinkler system is in accordance with NFPA 13 sprinklers shall not be required in closets not exceeding 24 ft² (2.2 m²) and in bathrooms not exceeding 55 ft² (5.1 m²), provided that such spaces are finished with lath and plaster or materials providing a 15-minute thermal barrier. [101:33.2.3.5.3.3]

D.2.23 New Mercantile Occupancies.

D.2.23.1 Design Requirements. (Reserved)

D.2.23.2 Installation Requirements.

D.2.23.2.1 Protection of Vertical Openings.

Any vertical opening shall be protected in accordance with Section 8.6 of NFPA 101, except under any of the following conditions:

- (1) In Class A or Class B mercantile occupancies protected throughout by an approved, supervised automatic sprinkler system in accordance with 9.7.1.1(1) of NFPA 101, unprotected vertical openings shall be permitted at one of the following locations:
 - (a) Between any two floors
 - (b) Among the street floor, the first adjacent floor below, and the adjacent floor (or mezzanine) above
- (2) In Class C mercantile occupancies, unprotected openings shall be permitted between the street floor and the mezzanine.
- (3) The draft curtain and closely spaced sprinkler requirements of NFPA 13 shall not be required for unenclosed vertical openings permitted in 36.3.1(1) and 36.3.1(2) of NFPA 101.
- (4) Unenclosed vertical openings in accordance with 8.6.9.2 of NFPA 101 shall be permitted and the provision of 8.6.9.2(5) shall not apply.
- (5) Unenclosed vertical openings in accordance with 8.6.9.7 of NFPA 101 shall be permitted and the number of contiguous stories shall not be limited.

[101:36.3.1]

D.2.23.2.2

Rooms housing building service equipment, janitor closets, and service elevators shall be permitted to open directly onto exit passageways, provided that all of the following criteria are met:

- (1) The required fire resistance rating between such rooms or areas and the exit passageway shall be maintained in accordance with 7.1.3.2 of NFPA 101.
- (2) Such rooms or areas shall be protected by an approved, supervised automatic sprinkler system in accordance with 9.7.1.1(1) of NFPA 101, but the exceptions in NFPA 13 allowing the omission of sprinklers from such rooms shall not be permitted.
- (3) Service elevators opening into the exit passageway shall not open into areas other than exit passageways.
- (4) Where exit stair enclosures discharge into the exit passageway, the provisions of 7.2.1.5.7 of NFPA 101 shall apply, regardless of the number of stories served.

[101:36.4.4.9.2]

D.2.24 Existing Mercantile Occupancies.

D.2.24.1 Design Requirements. (Reserved)**D.2.24.2 Installation Requirements.****D.2.24.2.1 Protection of Vertical Openings.**

Any vertical opening shall be protected in accordance with Section 8.6 of NFPA 101, except under any of the following conditions:

- (1) In Class A or Class B mercantile occupancies protected throughout by an approved, supervised automatic sprinkler system in accordance with 9.7.1.1(1) of NFPA 101, unprotected vertical openings shall be permitted at one of the following locations:
 - (a) Between any two floors
 - (b) Among the street floor, the first adjacent floor below, and the adjacent floor (or mezzanine) above
- (2) In Class C mercantile occupancies, unprotected openings shall be permitted between the street floor and the mezzanine.
- (3) The draft curtain and closely spaced sprinkler requirements of NFPA 13 shall not be required for unenclosed vertical openings permitted in 36.3.1(1) and 37.3.1(2) of NFPA 101.
- (4) Unenclosed vertical openings in accordance with 8.6.9.2 of NFPA 101 shall be permitted.

[101:37.3.1]

D.2.24.2.2

Rooms housing building service equipment, janitor closets, and service elevators shall be permitted to open directly onto exit passageways, provided that all of the following criteria are met:

- (1) The required fire resistance rating between such rooms or areas and the exit passageway shall be maintained in accordance with 7.1.3.2 of NFPA 101.
- (2) Such rooms or areas shall be protected by an approved automatic sprinkler system in accordance with 9.7.1.1(1) of NFPA 101, but the exceptions in NFPA 13 allowing the omission of sprinklers from such rooms shall not be permitted.
- (3) Service elevators opening into the exit passageway shall not open into areas other than exit passageways.
- (4) Where exit stair enclosures discharge into the exit passageway, the provisions of 7.2.1.5.7 of NFPA 101 shall apply, regardless of the number of stories served.

[101:37.4.4.9.2]

D.2.25 New Business Occupancies.**D.2.25.1 Design Requirements. (Reserved)****D.2.25.2 Installation Requirements. (Reserved)****D.2.26 Existing Business Occupancies.****D.2.26.1 Design Requirements. (Reserved)****D.2.26.2 Installation Requirements. (Reserved)****D.2.27 Industrial Occupancies. (Reserved)****D.2.27.1 Design Criteria.****D.2.27.1.1 Special Provisions — High-Rise Buildings.**

The provisions of 11.8.5.3.4(1) of NFPA 101 for jockey pumps and 11.8.5.3.4(2) of NFPA 101 for air compressors serving dry-pipe and preaction systems shall not apply to special-purpose industrial occupancies. [101:40.4.2.4]

D.2.28 Storage Occupancies. (Reserved)