



Second Revision No. 6578-NFPA 101-2022 [Detail]

3.3.15 Alcohol-Based Hand-Rub (ABHR).

An alcohol-containing preparation designed for application to the hands for reducing the number of visible microorganisms on the hands and containing ethanol or isopropanol in an amount not exceeding 95 percent by volume. [30, 2024]

Submitter Information Verification

Committee: SAF-FIR

Submittal Date: Mon Aug 01 14:32:31 EDT 2022

Committee Statement

Committee Statement: This adds a new definition for what is classified as ABHR.

Response Message: SR-6578-NFPA 101-2022

Public Comment No. 140-NFPA 101-2022 [New Section after 3.3.14.3]



Second Revision No. 6505-NFPA 101-2022 [Section No. 3.3.25.1.1.1]

3.3.26.1.1.1 Horizontal Floor Fire Door Assembly.

A combination of a fire door, a frame, hardware, and other accessories installed in a horizontal plane, which that together provide a specific degree of fire protection to a through-opening in a fire-resistance-rated floor ~~or roof~~. [~~288, 2017~~] [80, 2022] (SAF-FIR)

Submitter Information Verification

Committee: SAF-FIR

Submittal Date: Thu Jul 07 13:59:40 EDT 2022

Committee Statement

Committee Statement: This change in terminology is consistent with terminology used in Chapter 8 and NFPA 5000. The extract is changed from NFPA 288 to NFPA 80.

References for extracts are updated to the more current edition as required by the NFPA Manual of Style 2.6.1.3. To see detailed technical substantiation for any changes, see the first or second draft report of the source document.

Response Message: SR-6505-NFPA 101-2022



Second Revision No. 6576-NFPA 101-2022 [Section No. 3.3.54]

3.3.54 Damper.

3.3.54.1 Combination Fire ~~and~~ – Smoke Damper.

A ~~device that~~ listed device installed in the ducts or air transfer openings of fire-resistance-rated walls, barriers, partitions, or floors that meets both fire damper and smoke damper requirements. [90A,2021 2024] (SAF-FIR)

3.3.54.2* Fire Damper.

A listed device installed in an air distribution system and designed to close automatically upon detection of heat, to interrupt migratory airflow, and to restrict the passage of flame.
[90A,2021 2024] (SAF-FIR)

3.3.54.3* Smoke Damper.

A listed device within an air distribution system to control the movement of smoke.
[90A,2021 2024] (SAF-FIR)

Submitter Information Verification

Committee: SAF-FIR

Submittal Date: Mon Aug 01 12:23:17 EDT 2022

Committee Statement

Committee Statement: The purpose of extracting definitions is to be consistent with the definitions in NFPA 90A and other NFPA codes and standards.

Response Message: SR-6576-NFPA 101-2022

Public Comment No. 219-NFPA 101-2022 [Section No. 3.3.54]



Second Revision No. 6577-NFPA 101-2022 [Section No. 8.2.1.3]

8.2.1.3

Where the building or facility includes additions or connected structures of different construction types, the rating and classification of the structure shall be based on one of the following:

- (1) Separate buildings, if a 2-hour or greater vertically aligned fire barrier wall in accordance with NFPA 221 exists between the portions of the building
- (2) Separate buildings, if provided with previously approved separations
- (3) Least fire-resistive construction type of the connected portions, if separation as specified in 8.2.1.3(1) or 8.2.1.3(2) is not provided
- (4) Separate vertical buildings, where permitted by NFPA 221

Submitter Information Verification

Committee: SAF-FIR

Submittal Date: Mon Aug 01 13:13:59 EDT 2022

Committee Statement

Committee Statement: This change is to correlate with the changes made to 5000 via SR-8176 and 221 via SR-11, which allow for separate vertical buildings. The use of vertically aligned buildings is a common type of construction, this change will clarify the application of NFPA 101 to these types of podium/pedestal buildings.

Response Message: SR-6577-NFPA 101-2022

[Public Comment No. 45-NFPA 101-2022 \[Section No. 8.2.1.3\]](#)



Second Revision No. 6580-NFPA 101-2022 [Section No. 8.4.6]

8.4.6 Air-Transfer Openings.

8.4.6.1 General.

The provisions of 8.4.6 shall govern the materials and methods of construction used to protect air-transfer openings in smoke partitions.

8.4.6.2* Smoke Dampers.

Air-transfer openings in smoke partitions shall be provided with approved smoke dampers designed and tested in accordance with the requirements of UL 555S, *Smoke Dampers*, to limit the transfer of smoke.

8.4.6.3 Smoke Damper Ratings.

Smoke damper leakage ratings shall be not less than Class II. Elevated temperature ratings shall be not less than 250°F (140°C).

8.4.6.4 Smoke Detectors.

Dampers Smoke dampers in air-transfer openings shall close upon detection of smoke by approved smoke detectors installed in accordance with *NFPA 72*.

Submitter Information Verification

Committee: SAF-FIR

Submittal Date: Mon Aug 01 14:42:36 EDT 2022

Committee Statement

Committee Statement: This change is to correlate with the defined terms as modified by SR-6576.

Response Message: SR-6580-NFPA 101-2022

Public Comment No. 63-NFPA 101-2022 [Section No. 8.4.6]



Second Revision No. 6581-NFPA 101-2022 [Section No. 8.5.5.2.2]

8.5.5.2.2

Where a smoke barrier is also constructed as a fire barrier, a combination fire/ smoke damper designed and tested in accordance with the requirements of UL 555, *Fire Dampers*, and UL 555S, *Smoke Dampers*, shall be installed.

Submitter Information Verification

Committee: SAF-FIR

Submittal Date: Mon Aug 01 14:43:28 EDT 2022

Committee Statement

Committee Statement: This change is to correlate with the defined terms as modified by SR-6576.

Response Message: SR-6581-NFPA 101-2022

[Public Comment No. 64-NFPA 101-2022 \[Section No. 8.5.5.2.2\]](#)



Second Revision No. 6579-NFPA 101-2022 [Section No. 8.7.3.3]

8.7.3.3* Alcohol-Based Hand-Rub (ABHR) Dispensers.

Where permitted by Chapters 11 through 43, alcohol-based hand-rub ~~ABHR~~ dispensers shall be permitted provided they meet all of the following criteria in ~~8.7.3.3.1 through 8.7.3.3.5~~ :

The maximum individual dispenser fluid capacity shall be as follows:

0.32 gal (1.2 L) for dispensers in corridors and areas open to corridors

0.53 gal (2.0 L) for dispensers in rooms or suites of rooms separated from corridors

Where aerosol containers are used, the maximum capacity of the aerosol dispenser shall be 18 oz (0.51 kg) and shall be limited to Level 1 aerosols as defined in NFPA 30B .

Dispensers shall be separated from each other by horizontal spacing of not less than 48 in. (1220 mm).

Not more than an aggregate 10 gal (37.8 L) of alcohol-based hand-rub solution or 1135 oz (32.2 kg) of Level 1 aerosols, or a combination of liquids and Level 1 aerosols not to exceed, in total, the equivalent of 10 gal (37.8 L) or 1135 oz (32.2 kg,) shall be in use outside of a storage cabinet in a single smoke compartment or fire compartment or story, whichever is less in area. One dispenser complying with ~~8.7.3.3(1)~~ per room and located in that room shall not be included in the aggregated quantity.

Storage of quantities greater than 5 gal (18.9 L) in a single smoke compartment or fire compartment or story, whichever is less in area, shall meet the requirements of NFPA 30 .

Dispensers shall not be installed in the following locations:

Above an ignition source for a horizontal distance of 1 in. (25 mm) to each side of the ignition source

To the side of an ignition source within a 1 in. (25 mm) horizontal distance from the ignition source

Beneath an ignition source within a 1 in. (25 mm) vertical distance from the ignition source

Dispensers installed directly over carpeted floors shall be permitted only in sprinklered areas of the building.

The alcohol-based hand-rub solution shall not exceed 95 percent alcohol content by volume.

Operation of the dispenser shall comply with the following criteria:

The dispenser shall not release its contents except when the dispenser is activated, either manually or automatically by touch-free activation.

Any activation of the dispenser shall only occur when an object is placed within 4 in. (100 mm) of the sensing device.

An object placed within the activation zone and left in place shall not cause more than one activation.

The dispenser shall not dispense more solution than the amount required for hand hygiene consistent with label instructions.

The dispenser shall be designed, constructed, and operated in a manner that ensures accidental or malicious activation of the dispensing device is minimized.

The dispenser shall be tested in accordance with the manufacturer's care and use instructions each time a new refill is installed.

8.7.3.3.1 Personal Use Containers.

The requirements of 8.7.3.3 shall not apply to individual personal use ABHR containers with a volume less than 16 oz (0.5 L).

8.7.3.3.2 ABHR Dispenser Capacity.

The capacity of ABHR dispensers shall comply with all of the following:

- (1) The maximum individual dispenser fluid capacity shall be as follows:
 - (a) ~~0.32~~ 0.53 gal (~~1.2~~ 2.0 L) for dispensers in corridors and areas open to corridors
 - (b) 1.06 gal (4.0 L) for dispensers in corridors and areas open to corridors in buildings protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7
 - (c) ~~0.53~~ 1.06 gal (~~2.0~~ 4.0 L) for dispensers in rooms or suites of rooms separated from corridors
- (2) Where aerosol containers are used, the maximum capacity of the aerosol dispenser shall be 18 oz (0.51 kg) and shall be limited to Level 1 aerosols as defined in NFPA 30B.
- (3) ~~Not in buildings without an automatic sprinkler system, not~~ more than an aggregate 10 gal (37.8 L) of ~~alcohol-based hand-rub~~ ABHR solution or 1135 oz (32.2 kg) of Level 1 aerosols, or a combination of liquids and Level 1 aerosols not to exceed, in total, the equivalent of 10 gal (37.8 L) or 1135 oz (32.2 kg), shall be in use outside of a storage cabinet in a single smoke compartment or fire compartment or story, whichever is less in area. One dispenser complying with 8.7.3.3.2(1) per room and located in that room shall not be included in the aggregated quantity.
- (4) In buildings protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7, not more than an aggregate 20 gal (75.6 L) of ABHR solution shall be in use outside of a storage cabinet in a single smoke compartment or fire compartment or story, whichever is less in area. One dispenser complying with 8.7.3.3.2(1) per room and located in that room shall not be included in the aggregated quantity.

8.7.3.3.3 ABHR Dispenser Location.

The locations of ABHR dispensers shall comply with all of the following:

- (1) Dispensers shall not be installed in the following locations:
 - (a) Above an ignition source for a horizontal distance of 1 in. (25 mm) to each side of the ignition source
 - (b) To the side of an ignition source within a 1 in. (25 mm) horizontal distance from the ignition source
 - (c) Beneath an ignition source within a 1 in. (25 mm) vertical distance from the ignition source
- (2) Dispensers installed directly over carpeted floors shall be permitted only in sprinklered areas of the building.
- (3) ABHR dispensers shall be separated from each other by horizontal spacing of not less than 48 in. (1220 mm).
- (4) In detention and correctional occupancies, ABHR dispensers shall only be allowed where permitted by the facility.

8.7.3.3.4 ABHR Dispenser Operation and Testing.

Operation ~~The operation~~ of ~~the~~ dispensers shall comply with all of the following ~~criteria~~ :

- (1) ~~The dispenser~~ Dispensers shall not release ~~its~~ their contents except when ~~the dispenser~~ is activated, either manually or automatically by touch-free activation.
- (2) Any activation of ~~the a~~ dispenser shall only occur when an object is placed within 4 in. (100 mm) of the sensing device.
- (3) An object placed within ~~the an~~ activation zone and left in place shall not cause more than one activation.
- (4) ~~The dispenser~~ Dispensers shall not dispense more solution than the amount required for hand hygiene consistent with label instructions.
- (5) ~~The dispenser~~ Dispensers shall be designed, constructed, and operated in a manner that ensures accidental or malicious activation of ~~the~~ dispensing devices is minimized.
- (6) ~~The dispenser~~ Dispensers shall be tested in accordance with the manufacturer's care and use instructions each time ~~a~~ new refills are ~~is~~ installed.

8.7.3.3.5 Spill Containment and Maintenance.

Maintenance and spill containment of dispensers shall comply with all of the following:

- (1) Spill containment for dispensers shall be provided.
- (2) Any ABHR solution spilled during a refill process shall be removed following the refill operation.
- (3) Catch basins or spill collection means shall be kept free of accumulated ABHR material and refuse.

Supplemental Information

<u>File Name</u>	<u>Description</u>	<u>Approved</u>
101-SR-6579_ABHR.docx		

Submitter Information Verification

Committee: SAF-FIR

Submittal Date: Mon Aug 01 14:38:23 EDT 2022

Committee Statement

Committee Statement: The committee agrees with the submitter's substantiation. These changes provide a comprehensive set of guidelines for the installation and use of ABHR.

Response Message: SR-6579-NFPA 101-2022

Public Comment No. 141-NFPA 101-2022 [Section No. 8.7.3.3]