

Educational Occupancy Plan Correction List

This list is to be used in conjunction with the attached General Correction List. Note that this correction list is not all inclusive. See additional items on the General Correction List.

Items listed require amended construction documents such as revised plans, supplemental instructions, addenda, field orders, or change orders before plans approval will be issued. Answers in letter form may be provided to explain the changes to the construction documents. All drawing revisions should be clouded with a corresponding revision number tag.

This review does not authorize construction to begin. Starting construction before plans approval may result in a Stop Work Order. Rule 0780-02-03-.02(1)

Construction

1. Educational occupancies shall be subdivided into compartments by smoke partitions having not less than a 1-hour fire resistance rating and complying with NFPA 101 Section 8.4 where one or both of the following conditions exist. NFPA 101 14.3.7.1
 - (1) The maximum floor area, including the aggregate area of all floors having a common atmosphere, exceeds 30,000 ft² (2800 m²).
 - (2) The length of the building exceeds 300 ft².

Exception—[NFPA 101, 14.3.7.2]: The requirement of 14.3.7.1 shall not apply to either of the following:

- (1) Where all spaces normally subject to student occupancy have not less than one door opening directly to the outside or to an exterior or exit access balcony or corridor in accordance with NFPA 101, 7.5.3*
- (2) Buildings protected throughout by an approved, supervised automatic sprinkler system in accordance with NFPA 101 Section 9.7*

2. The area of a Group E building no more than one story above grade plane, of Type II, IIIA or IV construction, shall not be limited provided all of the following criteria are met. IBC 507.10
 - (1) Each classroom shall have not less than two means of egress, with one of the means of egress being a direct exit to the outside of the building complying with Section 1020.
 - (2) The building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.
 - (3) The building is surrounded and adjoined by public ways or yards not less than 60 feet (18 288 mm) in width.

3. Instructional laboratory units shall be classified as Class C or Class D laboratory units. NFPA 45 4.2.2.1

Educational laboratory units shall be classified as Class D or shall be limited to 50 percent of the flammable and combustible liquids quantity for Class C laboratory units presented in Table 10.1.1(a) and Table 10.1.1(b). NFPA 45 4.2.2.2

Regardless of the construction and fire protection requirements for laboratory units that are specified in Table 5.1.1, laboratory units in educational occupancies shall be separated from non-laboratory areas by 1-hour construction with 45-minute rated door(s). NFPA 45 5.1.3 and NFPA 101 14.3.2, 8.3 Table 5.1.1 shall pertain to laboratory units protected by automatic sprinkler systems in accordance with NFPA 13, Standard for the Installation of Sprinkler Systems. Where water will create a serious fire

or personnel hazard, a suitable non-water automatic extinguishing system shall be permitted to be an acceptable substitute for sprinklers. NFPA 45 5.1.4

Means of Egress

1. Travel distance to an exit shall not exceed 150 ft (46 m) from any point in a building, unless otherwise provided in 14.2.6.3. (See also Section 7.6). NFPA 101 14.2.6.2

Travel distance shall not exceed 200 ft (61 m) in educational occupancies protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7. NFPA 101 14.2.6.3

2. Not less than two separate exits shall be in accordance with the following criteria. NFPA 101 14.2.4.2
 - (1) They shall be provided on every story.
 - (2) They shall be accessible from every part of every story and mezzanine; however, exit access travel shall be permitted to be common for the distance permitted as common path of travel by 14.2.5.3.
3. Exit access corridors shall have not less than 6 ft (1830 mm) of clear width. NFPA 101 14.2.3.2
4. Corridors shall be separated from other parts of the story by walls having a 1-hour fire resistance rating, with 20-minute fire rated door and hardware assemblies, in accordance with Section 8.3 unless otherwise permitted by one of the following. NFPA 101 14.3.6

Exception—

- (1) Corridor protection shall not be required where all spaces normally subject to student occupancy have not less than one door opening directly to the outside or to an exterior exit access balcony or corridor in accordance with 7.5.3, and, [IBC 1018.1, Exception 1]: rooms for assembly purposes have at least one-half of the required means of egress doors opening directly to the exterior. Exterior doors specified in this exception are required to be at ground level.
 - (2) The following shall apply to buildings protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7:
 - (a) Corridor walls shall not be required to be rated, provided that such walls form smoke partitions in accordance with Section 8.4.
 - (b) The provisions of 8.4.3.5 shall not apply to normally occupied classrooms.
 - (3) Where the corridor ceiling is an assembly having a 1-hour fire resistance rating where tested as a wall, the corridor walls shall be permitted to terminate at the corridor ceiling.
 - (4) Lavatories shall not be required to be separated from corridors, provided that they are separated from all spaces by walls having not less than a 1-hour fire resistance rating in accordance with Section 8.3.
 - (5) Lavatories shall not be required to be separated from corridors, provided that both of the following criteria are met:
 - (a) The building is protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7.
 - (b) The walls separating the lavatory from other rooms form smoke partitions in accordance with Section 8.4.
5. Every room or space greater than 250 ft² (23.2 m²) and used for classroom or other educational purposes or normally subject to student occupancy shall have not less than one outside window for

emergency rescue that complies with all of the following, unless otherwise permitted by 14.2.11.1.2. NFPA 101 14.2.11.1.1:

- (1) Such windows shall be openable from the inside without the use of tools and shall provide a clear opening of not less than 20 in. (510 mm) in width, 24 in. (610 mm) in height, and 5.7 ft² (0.5 m²) in area.
 - (2) The bottom of the opening shall be not more than 44 in. (1120 mm) above the floor, and any latching device shall be capable of being operated from not more than 54 in. (1370 mm) above the finished floor.
 - (3) The clear opening shall allow a rectangular solid, with a width and height that provides not less than the required 5.7 ft² (0.5 m²) opening and a depth of not less than 20 in. (510 mm), to pass fully through the opening.
 - (4) Such windows shall be accessible by the fire department and shall open into an area having access to a public way.
6. Rooms normally occupied by preschool, kindergarten, or first-grade students shall be located on a level of exit discharge, unless otherwise permitted by 14.2.1.4. NFPA 101 14.2.1.2

Rooms normally occupied by second-grade students shall not be located more than one story above a level of exit discharge, unless otherwise permitted by 14.2.1.4. NFPA 101 14.2.1.3

Exception—

Rooms or areas located on floor levels other than as specified in 14.2.1.2 and 14.2.1.3 shall be permitted to be used where provided with independent means of egress dedicated for use by the preschool, kindergarten, first-grade, or second grade students. NFPA 101, 14.2.1.4

Exit Stairs

1. Where this Code requires an exit to be separated from other parts of the building, the separating construction shall meet the requirements of Section 8.2 and the following. NFPA 101 7.1.3.2.1
 - (1) The separation shall have a minimum 1-hour fire resistance rating where the exit connects three or fewer stories.
 - (2) The separation specified in 7.1.3.2.1(1), other than an existing separation, shall be supported by construction having not less than a 1-hour fire resistance rating.
 - (3) The separation shall have a minimum 2-hour fire resistance rating where the exit connects four or more stories, unless one of the following conditions exists:
 - (a) In existing non-high-rise buildings, existing exit stair enclosures shall have a minimum 1-hour fire resistance rating.
 - (b) In existing buildings protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7, existing exit stair enclosures shall have a minimum 1-hour fire resistance rating.

Fire Suppression

1. Educational occupancy buildings exceeding 12,000 ft² (1,120 m²) shall be protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7. NFPA 101 14.3.5.1

2. Educational occupancy buildings four or more stories in height shall be protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7. NFPA 101 14.3.5.2
3. Every portion of educational buildings below the level of exit discharge shall be protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7. NFPA 101 14.3.5.3

Fire Protection Systems

1. Educational occupancies shall be provided with a fire alarm system in accordance with Section 9.6. NFPA 101, 14.3.4.1.1 and IBC/IFC 907.2.3

A manual fire alarm system that initiates the occupant notification signal utilizing an emergency voice/alarm communication system meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6 shall be installed in Group E occupancies. When automatic sprinkler systems or smoke detectors are installed, such systems or detectors shall be connected to the building fire alarm system.

Exception— [IFC 907.2.3]:

- (1) *A manual fire alarm system is not required in Group E occupancies with an occupant load of 30 or less.*
- (2) *Manual fire alarm boxes are not required in Group E occupancies where all of the following apply:*
 - 2.1. *Interior corridors are protected by smoke detectors.*
 - 2.2. *Auditoriums, cafeterias, gymnasiums and similar areas are protected by heat detectors or other approved detection devices.*
 - 2.3. *Shops and laboratories involving dusts or vapors are protected by heat detectors or other approved detection devices.*
- (3) *Manual fire alarm boxes shall not be required in Group E occupancies where the building is equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1, the emergency voice/alarm communication system will activate on sprinkler water flow and manual activation is provided from a normally occupied location.*