

**412.2.1 Construction.** The construction of airport traffic control towers shall comply with the provisions of Sections 412.2.1.1 through 412.2.1.3.

**412.2.1.1 Type of construction.** Airport traffic control towers shall be constructed to comply with the height limitations of Table 412.2.1.1.

**TABLE 412.2.1.1  
HEIGHT LIMITATIONS FOR  
AIRPORT TRAFFIC CONTROL TOWERS**

TYPE OF CONSTRUCTION	HEIGHT <sup>a</sup> (feet)
IA	Unlimited
IB	240
IIA	100
IIB	85
IIIA	65

For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m<sup>2</sup>.

a. Height to be measured from grade plane to cab floor.

**[BS] 412.2.1.2 Structural integrity of interior exit stairways and elevator hoistway enclosures.** Enclosures for interior exit stairways and elevator hoistway enclosures shall comply with Section 403.2.3 in airport traffic control towers where the control cab is located more than 75 feet (22 860 mm) above the lowest level of fire department vehicle access.

**412.2.1.3 Sprayed fire-resistant materials (SFRM).** The bond strength of the SFRM installed in airport traffic control towers shall be in accordance with Section 403.2.4 where the control cab is located more than 75 feet (22 860 mm) above the lowest level of fire department vehicle access.

**412.2.2 Means of egress and evacuation.** The means of egress in airport traffic control towers shall comply with Sections 412.2.2.1 through 412.2.2.3.

**412.2.2.1 Stairways.** Stairways in airport traffic control towers shall be in accordance with Section 1011. Exit stairways shall be smokeproof enclosures complying with one of the alternatives provided in Section 909.20.

**Exception:** Stairways in airport traffic control towers are not required to comply with Section 1011.12.

**412.2.2.2 Exit access.** From observation levels, airport traffic control towers shall be permitted to have a single means of exit access for a distance of travel not greater than 100 feet (30 480 mm). Exit access stairways from the observation level need not be enclosed.

**412.2.2.3 Number of exits.** Not less than one *exit stairway* shall be permitted for airport traffic control towers of any height provided that the *occupant load* per floor is not greater than 15 and the area per floor does not exceed 1,500 square feet (140 m<sup>2</sup>).

**412.2.2.3.1 Interior finish.** Where an airport traffic control tower is provided with only one exit stair-

way, interior wall and ceiling finishes shall be either Class A or Class B.

**412.2.2.3.2 Exit separation.** Where an airport traffic control tower is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 and two exits are required, the exit separation distance required by Section 1007 shall be not less than one-fourth of the length of the maximum overall dimension of the area served.

**[F] 412.2.3 Emergency systems.** The detection, alarm and emergency systems of airport traffic control towers shall comply with Sections 412.2.3.1 through 412.2.3.3.

**[F] 412.2.3.1 Automatic smoke detection systems.** Airport traffic control towers shall be provided with an automatic smoke detection system installed in accordance with Section 907.2.21.

**[F] 412.2.3.2 Fire command center.** A fire command center shall be provided in airport traffic control towers where the control cab is located more than 75 feet (22 860 mm) above the lowest level of fire department vehicle access. The fire command center shall comply with Section 911.

**Exceptions:**

1. The fire command center shall be located in the airport control tower or an adjacent contiguous building where building functions are interdependent.
2. The room shall be not less than 150 square feet (14 m<sup>2</sup>) in area with a minimum dimension of 10 feet (3048 mm).
3. The following features shall not be required in an airport traffic control tower fire command center.
  - 3.1. Emergency voice/alarm control unit.
  - 3.2. Public address system.
  - 3.3. Status indicators and controls for the air distributions centers.
  - 3.4. Generator supervision devices, manual start and transfer features.
  - 3.5. Elevator emergency or standby power switches where emergency or standby power is provided.

**[F] 412.2.3.3 Smoke removal.** Smoke removal in airport traffic control towers shall be provided in accordance with Section 403.4.7.

**[F] 412.2.4 Automatic sprinkler system.** Where an occupied floor is located more than 35 feet (10 668 mm) above the lowest level of fire department vehicle access, airport traffic control towers shall be equipped with an *automatic sprinkler system* in accordance with Section 903.3.1.1.

**[F] 412.2.4.1 Fire pump room.** Fire pumps shall be located in rooms that are separated from all other areas