

**505.5 Equipment platforms.** *Equipment platforms* in buildings shall not be considered as a portion of the floor below. Such *equipment platforms* shall not contribute to either the *building area* or the number of *stories* as regulated by Section 503.1. The area of the *equipment platform* shall not be included in determining the *fire area* in accordance with Section 903. *Equipment platforms* shall not be a part of any *mezzanine* and such platforms and the walkways, *stairs*, *alternating tread devices* and ladders providing access to an *equipment platform* shall not serve as a part of the *means of egress* from the building.

**505.5.1 Area limitations.** The aggregate area of all *equipment platforms* within a room shall not exceed two-thirds of the area of the room in which they are located. Where an *equipment platform* is located in the same room as a *mezzanine*, the area of the *mezzanine* shall be determined by Section 505.2 and the combined aggregate area of the *equipment platforms* and *mezzanines* shall not exceed two-thirds of the room in which they are located.

**505.5.2 Fire suppression.** Where located in a building that is required to be protected by an *automatic sprinkler system*, *equipment platforms* shall be fully protected by sprinklers above and below the platform, where required by the standards referenced in Section 903.3. [F]

**505.5.3 Guards.** *Equipment platforms* shall have *guards* where required by Section 1013.1.

## SECTION 506 BUILDING AREA MODIFICATIONS

**506.1 General.** The *building areas* limited by Table 503 shall be permitted to be increased due to frontage ( $I_f$ ) and *automatic sprinkler system* protection ( $I_s$ ) in accordance with the following:

$$A_a = \left\{ A_t + [A_t \times I_f] + [A_t \times I_s] \right\} \quad \text{(Equation 5-1)}$$

where:

$A_a$  = Allowable *building area* per *story* (square feet).

$A_t$  = Tabular *building area* per *story* in accordance with Table 503 (square feet).

$I_f$  = Area increase factor due to frontage as calculated in accordance with Section 506.2.

$I_s$  = Area increase factor due to sprinkler protection as calculated in accordance with Section 506.3.

**506.2 Frontage increase.** Every building shall adjoin or have access to a *public way* to receive a *building area* increase for frontage. Where a building has more than 25 percent of its perimeter on a *public way* or open space having a minimum width of 20 feet (6096 mm), the frontage increase shall be determined in accordance with the following:

$$I_f = [F/P - 0.25]W/30 \quad \text{(Equation 5-2)}$$