

Know Your Code:

3006.2.1

Does Your Door System Meet The Standard?

2021 IBC 3006.2.1 - Standard for Corridors Adjacent to Elevator Hoistway Openings

3006.2.1 covers the need to protect the opening between the elevator shaft and a fire-resistance-rated corridor with a method that meets both fire protection and smoke containment.

Corridor Continuity Section: 1020.6

When an elevator opens into a corridor that is required to be of fire-resistance-rated construction, the opening between the elevator shaft and the corridor must be protected to meet not only the shaft's fire protection rating, but also the additional smoke and draft protection requirements necessary to limit the spread of smoke into the corridor. Waiving the requirements for an elevator lobby do not also waive the corridor opening protection requirements.

Therefore, to maintain the integrity of the corridor, the elevator shaft doors opening into such rated corridors will need to be separated from the corridor by one of the following methods of protection: Enclosed elevator lobby or additional doors, or pressurization of hoistway.

Residential Group R Section: 310.1

Residential Group R includes, among other items, the use of a building or structure, or a portion thereof, for sleeping purposes. Examples: Hotels, Apartments, Condos, Assisted Living Facilities, and Dormitories. Frequently, these projects do not meet the above requirements.

If an elevator is on the rated corridor, it will be required to have smoke protection.



Total Door Systems SafeFrame provides a complete integrated smoke containment system that exceeds the testing and rating requirements for elevator hoistways, and eliminates the need for elevator lobbies.

Total Door Systems combines perfectly integrated functionality, unmatched security and life protection, with infinite design possibility.

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Know Your Code: 3006.2.1 - Where can you find the code?

IBC 2021 Summary

IBC 2021 Chapter 30 Elevators and Conveying Systems

Where an elevator hoistway door opens into a fire-resistance-rated corridor, the door opening must be protected in accordance and methods established in Section 3006.3, which recognizes the use of elevator lobbies and additional doors at the hoistway.

IBC 2021 Section #3006.2.1

Rated corridors:

"Where corridors are required to be fire-resistance rated in accordance with Section 1020.2, elevator hoistway openings shall be protected in accordance with Section 3006.3."

IBC 2018 Section #1020.6

Corridor continuity:

"Fire-resistance-rated corridors shall be continuous from the point of entry to an exit and shall not be interrupted by intervening rooms. Where the path of egress travel within a fire-resistance-rated corridor to the exit includes travel along unenclosed exit access stairways or ramps, the fire-resistance rating shall be continuous for the length of the stairway or ramp and for the length of the connecting corridor on the adjacent floor leading to the exit."

Exceptions:

1. Foyers, lobbies, or reception rooms constructed as required for corridors shall not be constructed as intervening rooms.
2. Enclosed elevator lobbies as permitted by Item 1 of Section 1016.2 shall not be constructed as intervening rooms.

IBC 2021 3006.3 Hoistway Opening Protection, Line No. 3:

"Additional doors shall be provided at each elevator hoistway door opening in accordance to Section 3002.6. Such doors shall comply with the smoke and draft control door assembly requirements in Section 716.2.2.1.1 when tested in accordance with UL 1784 without an artificial bottom seal."

