

Know Your Code:

UL 1784

Does Your Door System Meet The Standard?

UL 1784 TESTING -

Standard for Air Leakage Tests of Door Assemblies and Other Opening Protectives

UL 1784 covers the testing of air leakage through door assemblies and other opening protectives installed in wall openings where air leakage is intended to be controlled.

Use of an Artificial Bottom Seal

During the UL 1784 test, tape is used across the bottom of the door to seal off the undercut. This allows the jambs and header to be tested for air leakage. The tape used across the bottom of the door is referred to as an "artificial bottom seal."

Code officials want to know that the doors have been tested without an artificial bottom seal to ensure that the door assembly will not exceed the 3 CFM per square foot of door opening at 0.10 inch of water for both the ambient temperature and the elevated temperature exposure test.

The door needs to be tested with all components during the test (components: panic hardware, locks, hinges, sweeps, closers, gasketing, etc.) You cannot add brush sweeps to a conventional door and call it a tested assembly to meet code requirements. Products for this application must show certification of proof that they have been tested without an artificial bottom.



At Total Door Systems, our expertise is included in our product.

Total Door Systems is the only integrated assembly that exceeds the testing and rating requirements for elevator, hoistway, and elevator lobby doors.

We combine perfectly integrated functionality, unmatched security and life protection, with infinite design possibility.

We have your back. We're the experts, so that you don't have to be.

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Where can you find the code?

IBC 2012 Section 713.14.1

Exception No. 3 – Enclosed Elevator Lobbies:

“ Enclosed elevator lobbies are not required when additional doors are provided at the hoistway opening in accordance with section 3002.6. Such doors shall comply with the smoke and draft control door assembly requirements in section 716.5.3.1 when tested in accordance with UL 1784 without an artificial bottom seal.”

IBC 2015 Section #3006.2

Hoistway Opening Protection:

“ Such doors shall comply with the smoke and draft control door assembly requirements in section 716.5.3.1 when tested in accordance with UL 1784 without an artificial bottom seal.”

IBC 2012 Section #3007.7.3

Fire Service Access Elevator Lobby Doors:

IBC 2015 Section #3007.6.3

Fire Service Access Elevator Lobby Doors:

“ Other than the door to the hoistway, elevator control room or elevator control space, each doorway to a fire service access elevator lobby shall be provided with a ¾-hour door assembly complying with 716.5. The fire door assembly shall also comply with the smoke and draft control door assembly requirements in section 716.5.3.1 when tested in accordance with UL 1784 without an artificial bottom seal.”

IBC 2018 Chapter 30 Elevators and Conveying Systems

3006.2.1 Rated Corridors.

3006.3 Hoistway Opening Protection, Line No. 3:

Additional doors shall be provided at each elevator hoistway door openings 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.



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