

## **1997 UBC code, Section 7.210- Smoke and Draft Control Door Assemblies.**

**7.210.6 Conditions of Acceptance.** " A smoke-and draft -control door meeting the requirements of Section 7.209.2 as modified herein shall be considered as meeting the requirements for acceptable performance when the air leakage rate of the door assembly does not exceed 3.0cfm per square foot of door opening at 0.10-inch water (25 Pa).

### **IBC-2003 & 2006 Code**

**707.14.1 Elevator lobby.** Elevators opening into a fire-resistance-rated corridor as required by Section 1016.1 shall be provided with an elevator lobby at each floor containing such a corridor. The lobby shall separate the elevators from the corridor by fire partitions and the required opening protection. Elevator lobbies shall have at least one means of egress complying with Chapter 10 and other provisions within this code.

#### **Exceptions:**

- 1 In office building, separations are not required from a street-floor elevator lobby provided the entire street floor is equipped with an automatic sprinkler system in accordance with Section 903.3.1.1.
- 2 Elevators not required to be located in a shaft in accordance with Section 707.2.
- 3 Where additional doors are provided in accordance with Section 3002.6. Such doors shall be tested in accordance with UL1784 with out an artificial bottom seal.

**In other than Group I-3, and buildings more than four stories above the lowest level of fire department vehicle access, lobby separation is not required where the building, including the lobby and corridors leading to the lobby, is protected by an automatic sprinkler system installed throughout in accordance with Section 903.3.1.1 or 903.3.1.2.**

### **SECTION 715 OPENING PROTECTIVES**

**715.3.1 Side-hinged or pivoted swinging doors.** Side-hinged and pivoted swinging doors shall be tested in accordance with NFPA 252 or UL 10C. After 5 minutes into the NFPA 252 test, the neutral pressure level in the furnace shall be established at 40 inches (1016 mm) or less above the sill.

**715.3.2 Other types of doors.** Other types of doors, including swinging elevator doors, shall be tested in accordance with NFPA 252 or UL 10B. The pressure in the furnace shall be maintained as nearly equal to the

atmospheric pressure as possible. Once established, the pressure shall be maintained during the entire test period.

**715.3.3 Door assemblies in corridors and smoke barriers.** Fire door assemblies required to have a minimum fire protection rating of 20 minutes where located in corridor walls or smoke barrier walls having a fire-resistance rating in accordance Table 715.3 shall be tested in accordance with NFPA 252 or UL 10C with out the hose stream test. If a 20-minute fire door assembly contains glazing material, the glazing material in the door itself shall have a minimum fire protection rating of 20 minutes and be exempt from the hose stream test. Glazing material in any other part of the door assembly, including transom lites and sidelites, shall be tested in accordance with NFPA 257, including the hose stream test, in accordance with Section 715.4. Fire door assemblies shall also meet the requirements for a smoke- and draft-control door assembly tested in accordance with UL 1784 with an artificial bottom seal installed across the full width of the bottom of the door assembly. The air leakage rate of the door assembly shall not exceed 3.0 cfm per square foot ( $0.01524 \text{ m}^3/\text{s/m}^2$ ) of door opening at 0.10 inch (24.9 Pa) of water for both the ambient temperature and elevated temperature tests. Louvers shall be prohibited.

**Exceptions:**

**1. Viewports that require a hole not larger than 1 inch (25 mm) in diameter through the door, have at least an 0.25-inch-thick (6.4 mm) glass disc and the holder is of metal that will not melt out where subject to temperatures of 1,700°F (927°C).**

**2. Corridor door assemblies in occupancies of Group I-2 shall be in accordance with Section 407.3.1.**

**3. Unprotected openings shall be permitted for corridors in multi-theater complexes where each motion picture auditorium has at least one-half of its required exit or exit access door ways opening directly to the exterior or into an exit passage way.**

***Total Door exceeds this requirement with a .10 CFM per square foot of door opening at 0.10 inch water (25 Pa).***

Warnock Hersey Intertek Testing Labs list their test results in the following categories:

Category "A" & "B" are reserved for Fire Doors tested with additional components.

Category "D" is reserved for Fire Door and Frame assemblies (systems). Total Door is the only full line Fire Door company listed in this category. (Information can be found on Warnock Hersey/ITS website.

The three universally accepted products by code officials and fire inspectors to be true Smoke and Draft Control Door ASSEMBLIES are Total Door (Pre-assembled integrated door assembly), Won Door (accordion door) and Smoke Guard (roll down plastic film). One of these products are generally used to meet the elevator shaft protection, elevator lobby protection, and cross corridor separation requirements

Total Door was tested with just one smoke gasket at the head. Unlike all other swinging fire doors, all hardware of the door are pre-installed at the factory in a controlled environment with stringent tolerances insuring the door will always pass "hot smoke" requirements ( backed by test and performance data), it is universally accepted by code officials to be the standard for fire/smoke containment where Fire/Smoke Door assemblies are required.

**Total Door approvals:**

Underwrites Laboratory R7764

Warnock Hersey Reports #s: 495-0046 495-PSV-0122,  
495-0617 485-PSV-0817

California State Fire Marshal: 3555-0855:100, 101, 102

City of Los Angeles RR#:24080