REQUIREMENTS FOR DOORS

Presented to the VUMC EOC Survey Team

October, 2009

Don Hayes

Door Gaps

1. All horizontal gaps (gaps between a double set of doors) are not to exceed 3/4"

2. All vertical gaps (gap between the door and the floor or ceiling) are not to exceed 1/8")

3. 1/8" is equal to the thickness of a nickel.

4. 3/4" is equal to the diameter of a penny.
Non-Rated Corridor Doors

1. Doors protecting corridor openings in non-rated corridor walls that are not fire or smoke barriers shall be constructed of materials that resists fire for not less than 20 minutes. These doors are typically called "20 minute" doors because they have a "fire rating" of 20 minutes. (solid core doors without labels are deemed to be 20 minute doors)

2. Doors to toilet rooms, bathrooms, shower rooms, sink closets, and similar auxiliary spaces that do not contain flammable or combustible materials shall not be required be "20 minute" doors.

3. In smoke compartments protected throughout by an approved, supervised automatic sprinkler system (VUH and VCH both have this); are not require to have "20 minute" doors in non-rated corridor walls.

Smoke Barrier Doors

1. Must be self-closing or automatic closing

2. Not required to swing with the egress path.

3. Positive latching hardware not required.

4. Shall comply with minimal door gaps defined above.

5. Shall NOT have undercuts, louvers, or grilles.
Fire Doors

- The fire door is part of a fire rated assembly. A fire rated assembly is any combination of a fire door, a frame, hardware, and other accessories that together provide a specific degree of fire protection to the opening.

- Rated fire doors (and frames) are labeled (usually on the vertical hinge edge) to indicate the fire resistance rating. The label or the listing is considered evidence that samplings of such devices or materials have been evaluated by tests and that such devices or materials are produced under an in-plant, follow-up inspection program.

Fire Doors (continued)

1. Must be self-closing or automatic closing.
2. ARE required to swing with the egress path.
3. Positive latching hardware required.
4. Shall comply with minimal door gaps defined above.
5. Shall NOT have undercuts, louvers, or grilles.
6. Fire doors in a 2 hour fire rated wall must be rated for 90 minutes.
7. Fire doors in a 1 hour fire rated wall must be rated for 45 minutes.
8. Fire doors in a 1/2 hour rated wall must be rated for 20 minutes.
Fire Doors (continued)

9. Signage Posted on Fire Doors

Informational signs shall be permitted to be installed on the surfaces of fire doors in accordance with the requirements listed below:

- The total area of all attached signs shall not exceed 5 percent of the area of the face of the fire door to which they are attached. (No excessive signage.)
- Signs shall be attached to fire doors by use of an adhesive.
- Mechanical attachments such as screws or nails shall not be permitted.
- Signs shall not be installed on glazing material (glass window) in fire doors.
- Signs shall not be installed on the surface of fire doors so as to impair or otherwise interfere with the proper operation of the fire door.

KEY POINTS about Fire Doors

- Must be self-closing or placed on a magnetic hold-open device.
- Must **latch** when closed.
- Must **not** be blocked open.