

*See UM Consultant Procedures and Design Guidelines. All design guidelines posted are applicable. Information below supplements and supersedes information provided in Division 08 of those documents.*

## **General**

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1. Provide clear access for wheelchair bound users at all doors. Doors shall be minimum 3'-8". 3'-0" doors may be used for spaces that will not typically need to accommodate a person of size wheelchair (offices, labs, etc.).
2. All openings in rooms designed for negative or positive pressure shall seal when closed. Install automatic door bottoms or sweeps when appropriate.
3. Fire and smoke door assemblies shall comply with NFPA 80 and 105 respectively.
4. Door and frame assembly rating tags shall be visible. Applied hardware may not be installed in a manner that hides the tag. Tag shall not be painted over or obscured.
5. Entrance vestibules shall be designed to minimize air exchange and accommodate electronic locking. Air curtains with heaters may need to be incorporated in some locations such as at main entrances and loading docks to minimize air infiltration.
6. Sliding doors /ICU Doors- specify sliding door frames to be same depth as finished wall so the gypsum wall board is not exposed to damage.
7. Provide Steel backing for door stops.

## **08 7100 Door Hardware**

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1. Basis of Design door hardware shall be confirmed with CF PM/MUHC PDC.
2. Basis of Design door control vendor shall be ACC (Alarm Communication Center) and shall include types and manufacturers for various standard applications.
3. All exterior doors that have electronic access control shall have a key override.
4. Audible door-hold open alarms that sound after 15 seconds on all exterior

doors that are not used by the general public.

5. Alarm device must include feature for alarm tone to be selectable so that it doesn't sound like the fire alarm tone.
6. Use only manufacturer provided door hardware. Use of any other fasteners than those provided with the hardware will void the warranty and require re-installation at no cost to owner.
7. Install heavy duty low power door operators on all main lobby public bathrooms. Also, any doors leading from waiting areas into clinical areas should be evaluated for inclusion of a power operator.
8. Power operators in rated openings shall be on fire alarm relay.
9. Install "Kill Switch" on all Auto Doors (Power Off switch) above ceiling.
10. Power from "Life Safety" Circuit for all egress auto doors.
11. Card Readers to be installed at all Soiled and Clean Utility, Med Rooms, Staff Locker/Break Rooms. No Mechanical Keypad Locks to be used.
12. Closers:
  - Basis of design shall be LCN.
  - See Division 8 sections for closer requirements on rated doors.
13. Handles: Lever Style 14 (Curved Return) and Rose Style D (3-1/2" Convex).
14. Doorstops: Use of 90-degree doorstops into patient rooms shall be discussed during design, as they do not typically allow good wheelchair or bed access.
15. Locks (New and Existing Construction)
  - To match existing key system, all locksets and cylinders shall be Best 93K series.
  - Any lock used must accept Best 7 Pin Core.
  - Finish: 626 finish unless matching different existing finish.

Division 08 – Openings

- For aluminum storefront-type doors: Prefer Preferred Adams Rite Deadlocks/Deadlatches with key cylinders that will accept Best 7 pin cores.
  - Keyway: Best Preferred Peaks Keyway.
  - Privacy locksets shall have a slotted override button. If other than slotted override is considered, coordinate discussion with CF PM/MUHC PDC.
  - Locksets are always installed by contractor and uncombined cores turned over to MUHC key shop for keying.
16. Electric Strikes: Von Duprin or Folger Adams. Strikes must be 24V.
  17. Panic Devices: Basis of design shall be Von Duprin.
  18. Card Access Locks/Electronic Access Control System.

**08 1000 Doors and Frames**

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08 1423 Clad Wood Doors

1. For MUHC Clinics- Basis of design:
  - Eggers Industries Wood doors, stained.
  - Plain Sliced Vertical Graining.
  - Species and stain colors as approved by CF PM/MUHC PDC.
2. For Inpatient Hospital spaces:
  - Inpro/VT Industries Palladium High Impact Doors or approved equal.
  - Finishes and colors as approved by CF PM/MUHC PDC.
3. Rated doors:
  - Rating labels shall be clearly visible on all fire-smoke-rated door/frame assemblies and shall not be painted over. If a continuous hinge is specified, the rating label shall be located on the top edge of the door.
  - Rated doors shall not be installed in walls that are not required to be rated.

- Installation Tolerances for Smoke Partition Doors and Fire Doors must meet NFPA 80 and 105 respectively.
  - Door Closer for rated wood doors shall be through-bolted when installed.
4. Tolerances:
- Tolerances shall be inspected to conform to NFPA 80. If not inspected by AHJ, then project must include inspection by third party or MUHC Engineering Services.
  - Not more than 1/8" gap between the face of the door and jambs (Top and Sides).
  - Not more than 1/8" between face of door and stop.
  - Self-Closing.
  - Maximum of 3/4 " gap at bottom of door to finish floor.
  - Meeting Edges of pair of doors:
    - 1/8" on wood doors.
    - 1/8" +/- 1/16" on steel doors.
5. Smoke Resistant Doors:
- Smoke Resistant Doors (Patient Room Doors and other non-rated doors): Same as above wood doors, except deviation of +/- 1/16" from 1/8".
  - Standard undercut is 3/4".
  - Maximum undercut 1" with approval from MUHC Engineering Services.
6. Door and Frame Assemblies:
- New doors must be installed in new frames. Use of existing frames with new doors will not likely produce installation that complies with required tolerances.



- Reuse of existing or salvaged metal frames is prohibited unless approved by the Project Manager. Reuse of salvaged wood doors in new frames must still meet standard industry installation tolerances.
  - Use of existing doors will require custom field-scribing to set required tolerances.
7. Door widths:
- All doors for patient traffic shall be 44” wide minimum.
  - All new patient room doors to be 60” wide (double-leaf 42/18).
8. Door Frames:
- Only Welded Hollow Metal Frames are to be used in new wall construction.
  - Knockdown frames are acceptable in existing walls with approval by the Project Manager. If door is wider than 36”, welded frame is preferred.
  - All new frames for fire doors shall be welded, securely anchored and installed plumb and level.
  - The rating label on fire-rated frames shall be clearly visible and not painted. Manufacturer codes are prohibited.

#### **08 3400 Special Function Doors**

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1. All Room Doors
- Shall have self-closing devices on all room exit doors unless a pressure alarm is included that allows activation of the audible alarm when the AII room is in use as an isolation room.
  - Edge seals shall be provided along the sides and top of the doorframe for any door into the AII room.
  - Use of bottom edge door sweeps to assist in maintaining negative pressure shall be included if room pressure cannot be maintained at negative -0.01

inches water column without it.

- If All rooms utilize sliding doors, doors must be designed for that purpose and product literature must indicate as such.

END OF SECTION