

Description:

The purpose of the section is to highlight the current applicable UMD Design Standards for the selection and installation of hardware for exterior and interior door assemblies.

Related Sections:

- 08.00.00 Doors and Frames
- 08 71 13 Automatic Door Operator
- 08 71 53 Security Egress for Individuals with Disabilities
- 28.16.00 Intrusion Detection

Effective Date:

January 1, 2020

Applicable Standards:

- TBD

General Requirements:

Specific Lock Function for the following rooms:

- Offices, Conference Rooms, and Libraries - office function lock, ML2067 or L9453
- Mechanical Rooms, Custodial Rooms, Storage Rooms, and Computer Rooms- storage room function lock, ML2057 or L9080.
- Classrooms and Laboratories - classroom function lock, ML2055 or L9070.
- Where electric strikes are to be used, they must be ML2057 or L9080.

1. Mortise Locksets

Only the following manufacturers will be used for Mortise Locksets.

- Corbin/Russwin ML2000 Series (NSM Trim)
- Schlage L9000 Series x 06N Trim

Lockset Specifications

- 2-3/4" backset
- 2 piece anti-friction latch bolt with a 3/4" throw
- 1" Throw Deadbolt
- Deadlock Latch
- Escutcheon Trim
- Lever Hand
- Face plate 1-1/4" x 8"
- Strike ASA 4-7/8" x 1-1/4" x 1-1/8" lip

2. Door Closers

Only the following manufacturers will be used for door closers

- LCN 4040 Series Reg. Arm-Fire Doors
- LCN 4040 Series Cush -n- Stop Arm-Exterior Doors
- LCN 1460 Series or 1461 for Handicapped areas-Bathroom, Classroom, and Public area doors.

3. Automatic Door Control Closers

Only the following manufacturers will be used for door closers.

- Horton 4000 series
- Press Wall Switch #10PBS451
- Press wall switch must be hardwired to operator
- MC-25 relay inside request to exit unit
- RB12/24 relay outside Press wall switch security
- One single gang outlet 120 volt 15 amp circuit or single gang power disconnect switch.
- During secure hours, fire egress is maintain manually and automatically but ingress is restricted to authorized card access only.
- Must interface with security access control system.
- All door closer are to be thru – bolted in doors.

4. Cylinders

Only the following manufacturers will be used for cylinders.

- Best Mortise Cylinder #1E74 (for Mortise Lockset and inside cylinder dogging on Von Duprin panic bars).
- Best Rim Cylinder #1E72 for panic bars.
- Schlage Mortise Cylinder (SFIC)
 - #80-108 (Schlage mortise locksets)
 - #80-104 (Von Duprin cylinder dogging/mullions).
- Schlage Rim Cylinder #80-129 (for use on panic devices).
- All Best and Schlage cylinders and Locksets are to be 7 pin interchangeable cores.
- All Best, Oak and Schlage cylinders to be supplied with brass construction cores. Cores will be returned to associated contractor. UMD building security will supply, set and install final keying.

5. Hardware

Manufacturers shall be as specified for the following pieces of hardware. No substitutes will be accepted.

- Exit and Panic Devices: Von Duprin Series
 - 99
 - CD99
 - SD-EL99
 - 99-F
 - 9547-F x LBR cross-corridor doors
 - KR4954 keyed mullion
 - KR9954 fire-rated keyed mullion
 - EPT-10 (required w/SD-EL99's)
 - PS-873x2 power supply
- Device Trims: Von Duprin Series
 - 990EO
 - 990NL
 - 992L
 - 992L-Rigid
- No surface type vertical rod device.

- All devices are to be thru-bolt in door.
The following manufacturers are acceptable for ALL finish hardware; no substitutes shall be accepted.
 - Cylinders: Best or Schlage
 - Closers: LCN
 - Mortise Locksets Corbin/Ruswin or Schlage
 - Exit Devices: Von Duprin
 - Cylindrical Locksets: Best or Schlage - 7 pin
- The A/E is responsible for specifying finish hardware in accordance with the above UMD hardware standards and ADA requirements.
- All finish hardware shall be keyed to the existing UMD keying system.
- Install 8" high (minimum) kick plates on both sides of exterior doors.
- Unless directed otherwise, designers should include (2) coat hanger devices, (1) located at ADA wheelchair accessible height and (1) placed at regular height. Unless directed otherwise, placed both units on the rear room side of interior office doors.