

## **SECTION 08 10 00: DOORS & FRAMES**

### **1. GENERAL**

- A. Where an accessible entrance is created, it is required that at least one entrance door have an assisted door opener/closer.
- B. All doors will be keyed into Brown's keying system.
- C. Construction cores will be provided and installed by Brown during the project.
- D. Final keying and coordination will be provided by Brown; construction cores will be removed by the contractor upon project turnover.

### **2. STEEL DOORS**

- A. Typical interior locations: 18-gauge door, 16-gauge frame.
- B. Mechanical rooms and exterior locations: 16-gauge door, 14-gauge frame.
- C. All frames to be of full weld unit type fabrication; joints to be mitered and externally welded; contact edges to be closed tight; welds on exposed surfaces to be dressed smooth and flush.

### **3. WOOD DOORS**

- A. All to be solid core construction.
- B. All to have solid blocking for all hardware including emergency exit devices.
- C. Exterior doors that swing into the weather to be capped and have no finger joints.
- D. Stiles and rails of exterior doors will be of laminated construction, not solid wood.

### **4. AUTOMATIC ENTRANCE DOORS**

- A. Automatic entrance door systems to have LCN-brand or Stanley Best-brand closers; electric style only.
- B. Coordinate system with required access control system, which includes review and approval by Brown University Department of Public Safety (DPS) and project manager.

### **5. ACCESS DOORS & PANELS**

- A. All doors/panels to be steel.
- B. Access doors and panels are required in drywall, plaster and other inaccessible finishes to provide maintenance access to valves, controls, junction boxes and other items that otherwise would be inaccessible.
- C. Provide keyed locks at access doors at all publicly accessible areas and at a minimum, all tele/data rooms, corridors and public spaces.
- D. Provide a minimum of two (2) cam locks for sides of doors over 18 inches and three (3) for doors over 30 inches wide.

- E. All locks in access panels shall be keyed using 7-pin SFIC (Small format Interchangeable Core) housings with interchangeable cores.
- F. Minimum access panel and door clear-opening sizes shall be coordinated with the intended use; minimum sizes shall be:
  - 1. Reach in access 12" x 12"
  - 2. Access door-torso only 24" x 24"
  - 3. Access door-complete body passage 30" x 30"

## 6. DOOR HARDWARE

- A. Use mortise locksets with a 7-pin, interchangeable, small format core.
- B. Cylindrical locksets are not allowed.
- C. Coordinate electrified door hardware with building security and access control system provider.
- D. For renovation projects, match existing finishes.
- E. For new construction, use satin bronze US10 or dull chrome US26D finishes.
- F. Use Arrow-brand and Best-brand locksets.
- G. Use Hager, Rixson, and Stanley-brand hinges, heavy-duty, institutional grade; use fully mortised ball bearing hinges.
- H. Continuous hinges shall be used at entry and high-use doors. Continuous hinges are not allowed on historic doors.
- I. Offset hinges and pivots are not allowed.
- J. Use Von Duprin-brand Power Transfers or Keedex-brand armored door loops; electric transfer hinges are also permitted.
- K. Use UL listed panic exit device and hardware by Precision Hardware Inc., No. 1700 or 4900 trim.
- L. Door closers to be LCN-brand, with a maximum pull of 5 pounds; provide with all required mounting bolts for fastening.
- M. Concealed vertical rods are not permitted; surface-mounted vertical rods are permitted. Surface-mounted systems must utilize top-rods; bottom-rods are not permitted. At pairs of doors, removable vertical mullions and rim devices are required.
- N. Use Pemko-brand, Zero compression seals and door sweeps.
- O. Use Ives-brand flush bolts; automatic flush bolts are not allowed for securing inactive doors.
- P. Use kick plates on all doors in high traffic areas (does not include residence hall rooms and offices); consider cart use and lab traffic; size must be approved.
- Q. Door stops to be floor mounted or wall mounted with blocking.

- R. Floor-mounted door closers are not permitted in any application.
- S. Door Crashbars:
  - 1. Door crashbars shall be MLR type (Motorized Latch Retraction); ELR type (Electric Latch Retraction) crashbars are not allowed.
  - 2. Power source for the door MLR shall be provided by the door access control panel.
  - 3. Provide local electrical service disconnect switches, located adjacent to each MLR-equipped door and also adjacent to the door access control panel to enable safe servicing of crashbar electrical components.

END OF SECTION