Division 8

08 100 STANDARD STEEL DOORS AND FRAMES

1. Exterior doors shall be not less than 14-gauge steel. The top channel of each metal door shall be solid without pockets, which collect dirt and water. All exterior doors and frames shall be galvanized and weather-stripped. Must be insulated to a R-valve of 14 or better.

2. Interior doors shall be not less than 18-gauge steel.

3. All exterior doorframes shall be 12 gauge. Interior doorframes shall be 16 gauge. Knockdown frames are prohibited. Provide full-width hinge reinforcing for all frames.

08 210 WOOD DOORS

1. Exterior wood doors are prohibited except when replacement of existing doors on historical buildings require wood doors and will not be waived by the State Historical Commission.

2. All interior wood doors shall be solid core, 1 3/4", either mineral core where a fire rating is required, high density particle board core, or wood stave core.

3. Wood doors, which are to receive, clear or stained finish shall be factory finished and pre-machined for hardware. Specify that the door edges are fabricated of matching wood to the face.

08 360 AUTOMATIC OVERHEAD DOORS

A. Connecticut OSHA requires that devices be installed on automatic overhead doors that will prevent an individual from becoming trapped or crushed by the door. The following two safety devices will meet the requirement:

   1. An automatic "reverse" function where, upon encountering an obstruction, the door automatically stops and rolls back up, OR

   2. A push button, switch or key, operated by an individual, requiring continuous contact with the device in order for the door to open and close. As soon as contact is removed, the door will immediately stop at its present position.

B. 1. New building plans must include one of the two safety features on all automatic overhead doors that are to be installed.

   2. Door operators must be located where the individual has a clear line of vision to the door being operated.

   3. Safety features such as those listed below cannot substitute for the required safety devices:

      1. Emergency stop buttons.

2. Push buttons, switches, or keys that can initiate the opening and/or closing of a door without an individual being in attendance.
3. Sensing devices (there is a risk that an infrared beam could be obstructed).

C. Additionally, attention should be given to the location of the overhead doors in respect to emergency egress routes.

1. Doors located along an egress route shall provide a rail to channel people along the exit route to the exit door.

D. 1. Non-metallic overhead doors shall have R≥10 incapacitated.

08 500 METAL AND WOOD WINDOWS

1. In general, new windows should match existing window operation type.

2. Where hung windows are used, provide double hung tilt units.

3. Windows with fixed sash should be designed to allow the "fixed" sash to be operable for cleaning and maintenance.

4. Heavy duty fixed screens should be provided over full window for all operable units. Screens must be replaceable from inside.

5. Security grilles should be provided for all ground level sleeping spaces.

6. Muntins, where used, shall be on the outside face of the glass. True divided lites are allowed.

7. All window hardware shall be heavy duty.

8. All windows should be designed to AAMA Heavy Commercial (HC) classification standards.

9. All window glazing shall be insulated with a U-value less than or equal to 0.27. All glazing shall be low-e, argon filled.

08 600 SKYLIGHTS

1. Skylights shall be avoided. Architect/Engineer shall obtain University approval in writing for any proposed use.

2. Where skylights are approved for use, their glazing shall insulated with a U-value less than or equal to 0.27. All units shall be low-e, argon filled.

08 710 FINISH HARDWARE

1. Specifying hardware by allowance is prohibited. Hardware sets shall be developed for each unique condition for the building.

2. The Current Code requires that handicapped persons easily grasp door handles. This necessitates lever handles on virtually all doors in University buildings. The exceptions to this rule are mechanical equipment rooms and other maintenance spaces such as janitorial spaces.

3. Hinges and Butts

1. Acceptable Manufacturers

1. Hager
2. McKinney
3. Stanley

2. Quality Standard (Exterior): Stanley CB1968

3. Quality Standard (Interior): Stanley CB1901

4. All exterior doors to be provided with pivot reinforced hinges and non-removable pins.

4. Cylinders and Locks

1. Acceptable Manufacturers - Standard Cylinders

2. Sargent
3. Best (only for Audio/Video rooms, to be approved)

Acceptable Manufacturers – Standard Locksets

4. Sargent
5. Schlage
6. Best (only for Audio/Video rooms, to be approved)

5. Quality Standard (Mortise Locks): Sargent 8200 Series, Schlage L Series.

Quality Standard Cylindrical: Sargent 10 or 11 Series.

6. Keying systems are to be on a Sargent Grand Master Key system, unless otherwise approved.

7. Coordinate keying with Owner's, including UConn Locksmith.

5. Programmable Cylinders and Locks

1. Acceptable Manufacturers - Programmable Locks and Cylinders

1. Locknetics or University approved equal

2. Coordinate keying with Owner's existing restricted Grandmaster Key System.

6. Exit Devices

1. Acceptable Manufacturers

    1. Sargent
    2. Von Duprin

2. Quality Standard: Sargent 16-880 Series or Von Duprin 98 and 99 Series.

3. Exit device dogging: All doors with exit devices shall be equipped with a keyed dogging device to hold the push bar down and the latch bolt in the open position. EXCEPTION: fire rated doors and electric dogging.

4. All exit devices shall be a rim device unless otherwise approved.

    Use mullion with double doors, unless otherwise approved. When we need to use vertical rods, we do not want concealed vertical rods. Interior doors use less bottom rods.

7. Closers

    1. Acceptable Manufacturers

        1. LCN
        2. Sargent

    2. Quality Standard: LCN 4110 Series Cush

    3. Provide heavy-duty cast iron closers.

    4. Floor type and overhead-concealed closers are not acceptable.

8. Door Trim Units

    1. Acceptable Manufacturers

        1. Hager
        2. Ives
        3. Triangle Brass

    2. Mop and kick plates shall be 2" less than width of door.

    3. Do not use wall type door stops at plaster or gypsum board walls.

9. Thresholds

    1. Acceptable Manufacturers

        1. Hager
        2. National Guard
        3. Pemko
        4. Reese

5. Zero

1. All thresholds shall meet ADA requirements.

10. Weatherstripping

1. Acceptable Manufacturers

1. National Guard
2. Pemko
3. Reese
4. Zero

11. Automatic Operators

1. Acceptable Manufacturers
   1. Besam
   2. Keane
   3. Monroe
   4. other approved equal

2. Provide automatic entrance doors with door operators at all handicapped entrances.

3. Operators shall be wired as follows:

1. A presence sensing type device shall be installed and wired into the system in lieu of an approach safety mat. A push-plate switch shall be installed and wired into the system inside the building, and located near the entryway to permit operation of the door from both inside or outside the building.

2. All operating switches shall be installed no more than 36" in height from the floor, and the top of the access ramp.

3. Operator and presence sensors shall be adjusted to allow sufficient timing delay of closing to permit wheelchair access.

12. Electric Strike

1. Acceptable Manufacturers

1. Folger-Adams
2. H.E.S.

13. Finishes: All finish hardware shall be supplied as US26D or US32D.

14. Hardware applications may vary, due to special requirements or code restrictions. These applications should be considered on a per project basis and reviewed with the University Architect.

15. Hardware items not set forth herein are subject to verification by application, on a per project basis.

16. Exterior doors, which are not the main access point to the building, shall be exit only.

17. Double doors shall be provided with open-back strikes, to allow either door to close first, in lieu of door coordinators.

08 740 CARD ACCESS CONTROL SYSTEM

1. Card Access Control (CAC) systems where required shall meet the following criteria:

   1. The CAC system shall be low voltage, flexible and expandable. It shall employ state of the art digital encoding technologies, be designed and manufactured for high speed processing and maximum reliability. It shall be modular design, be capable of interface with IBM PC-AT microcomputers or 100% compatible clones.

   2. Software programs employed in the system(s) shall be capable of controlling from one (1) to eight hundred- (800) access points, per site. All access attempts are to be recorded, printed and/or displayed at the operators option.

   3. The CAC system shall be designed to operate in automatic and command programming modes, respond to alarm generated reports and modify the data base configuration with all activities available to be stored, printed or displayed at the operators option.

   4. Operator interface with the system shall be through a video display monitor and/or automatic printer and/or IBM PC-AT or 100% compatible clone's peripheral. Monitor displays and printed information shall use clear, complete English language descriptions and shall not require the operator to interpret numeric or coded data.

   5. Proposals for card access systems must be submitted to the Project Coordinator for review and must be approved by the University prior to project bidding.

2. Main entrance doors to all dormitories shall be equipped with card access control systems. Generally there shall be only one main entrance to a dormitory. Additional requirements such as ADA access and secured access to such areas, as computer study areas and student storage areas shall be defined by the University. Each dormitory shall be provided a minimum of one card access control panel capable of securing at least eight doors. All peripheral equipment such as low voltage power supplies, egress motion systems and door contacts shall be included.

3. All elevators in dormitories shall be equipped with card access control to restrict unauthorized use. These elevators shall be secured at the ground floor elevator lobbies.