The following information shall be included in specifications prepared for use on all University of Cincinnati projects. This information is supplemental and not intended to be a complete specification.

GENERAL STANDARDS

General Criteria

Hardware Product - Door hardware specified for projects at the University must be adequate for the intended use and must satisfy all code requirements. A complete listing of proposed door hardware, together with the manufacturers’ names shall be submitted for review to Facilities Management for input and comment prior to completion and approval of construction documents by the UC Project Manager.

Availability - Hardware products must be serviceable. Parts must be available at a local distribution center after installation is completed. Product manufacturer’s representatives must be locally available for consultation at the University during the preparation of the construction documents.

Performance Requirements

Basis of Design - A complete list of all hardware items proposed as the basis of design shall be submitted for review and comment by Facilities Management for inclusion in the construction documents.

References - Hardware specified for projects at the University must be designed and installed in accordance appropriate provisions of the Ohio Building Code (OBC), Door and Hardware Institute (DHI), Builders Hardware Manufacturer’s Association (BHMA) and American Society of Architectural Hardware Consultants (ASAHC).

Product Coordination

Cylinder Locks - Removal and replacement of existing locks and hardware must be coordinated with Facilities Management Carpenter’s Shop through the University Project Manager. Final lock cylinder cores must be provided for installation by the University Key Control Department.

Allowances - A hardware allowance may be considered for renovation projects that include hardware replacement. However, use of this allowance shall in no way relieve the Project Architect of the responsibility to later furnish a complete hardware schedule for review and approval as described above.

PRODUCT STANDARDS

Product Manufacturers

Basis of Design - The Basis of Design for door hardware shall be selected from the following manufacturers (manufacturers not listed will not be accepted):

- Locksets: Corbin-Ruswin (Sargent & Best acceptable)
- Cylinder Cores: Best or Medico (no alternatives accepted)
- Hinges: McKinney (Hager & Stanley acceptable)
Product Requirements

Locksets - Locksets shall be heavy duty, grade 1 mortise locks only, with 2-piece metal antifriction latch. Locks shall be reversible and shall have capability for changing function within any one case. Locksets must be compatible with the University standard cylinders as manufactured by Best Lock Corporation.

Standalone Electronic Key Pad Locks With Key Override - Schlage CO-100 series standalone key pad locks are approved for interior use only and must have University-wide master override capability. The department choosing to request these locks will also be responsible for maintenance and replacement costs.

Lever Handles - Lever handles shall be wrought brass, bronze or stainless steel of simple design, heavy duty, and must have inside lever handle secured in place by a dowel screw and the outside lever handle (secure side) pinned to the spindle. Knobs are prohibited unless approved by the University Project Manager. Square roses are prohibited. Key cylinders in knob or lever are prohibited.

Electric Locks - In the event special security locks are required, such as electric locks or electric strikes, it is recommended that electric locks be used. The use of electric magnetic locks on narrow styled or full glass doors is prohibited.

Cylinder Cores - Specify Best Lock small format cylinders with 7-pin tumbler cores for all locking devices specified in any division of the specifications. Ascertain that locking devices will accept Best Lock or Medico Lock key system.

Keying – The University will provide a keying schedule for the project. All cores shall be combinated at the factory unless otherwise directed by the University.

Exit Devices - Where Exit devices are required, use only Von Duprin Series 99 or 33 or Sargent 80 series touch bar exit devices. Inside turn pieces shall be straight type (without hook) and mounted vertically. The use of vertical rods, concealed or exposed, shall not be allowed without prior consent of the Project Manager.

Hinges - Hinges shall be five-knuckle, wrought-steel, butt type ball bearing (bb) hinges for all doors with closers and in areas subject to high frequency of use. Butts shall be heavy duty, with 4 bb for exterior doors and interior doors over 3 feet wide. For interior doors less than 3 feet wide butts shall be standard weight with 2 bb. Stainless steel butt hinges must be used on exterior doors and doors in areas with high humidity, such as locker rooms, showers, computer rooms, etc. Exterior continuous geared hinges and pivot type hinges shall not be permitted.

Closers - Specify only LCN 1460/1461 or 4040 as applicable. Closers shall be surface mounted, non-handed, with full rack and pinion hydraulic action. Specify very heavy duty type with broad range of adjustments permitting adjustment of door. Open pressure shall not exceed 5 pounds per ADA requirements. Covers shall be of clean line design with lacquer finish and shall be type which does require removal to make adjustments.
Closers for interior doors shall be installed on room side of doors and shall not be visible from corridors, lobbies, and other public spaces. Floor closers and closers concealed in door heads are prohibited. Door closers with integral smoke detectors are prohibited. Smoke detection systems must be made a part of the documents for fire protection work.

**Removable Mullions** - Pairs of exterior double doors shall have a removable mullion with lock strike unless an exception is approved by the University Architect. All hardware for exterior entrance doors shall be furnished and supplied by the door manufacturer.

**Product Accessories**

**Flush Bolts** - Specify extension type, top and bottom; avoid the use of vertical bars, either concealed or exposed. Exit bolts shall be rim type with flat crossbar.

**Plates & Trim** - Thresholds raised above floor levels at doors to trash and receiving rooms shall not exceed 1/2 inch high at doors intended for handicapped use.

**Finishes** - US32D finish shall be specified for butt hinges on exterior hollow metal doors. Closers shall be finished to suit room decor. For all other hardware, specify US-10 or US-26D. Other finishes may be used only where necessary to match materials to which hardware is applied.

--- END OF SECTION ---