

08 70 00 Hardware

Revision 01/04/2019

Purpose:

The Architect and/or Engineer shall incorporate the Rice specific requirements indicated in this standard's section into their design. The Architect and/or Engineer shall further produce project specifications in line with industry standards that are updated to reflect these Rice specific requirements.

1. General Requirements

- a. Hardware includes: Door hardware, thresholds, weather stripping, and seals.
 - i. Continuous Hinges not acceptable unless approved by Rice Facilities. 4.5" x 4.5"
 1. Acceptable Manufacturers: IVES, McKinney, Hager, Stanley
 - ii. Power Transfer through hinge, not EPT.
- b. Mechanical Door Hardware:
 - i. Mortise Multifunction Locks - Best mortise 40/45 14r; Sargent 8200 LP, or Rice Approved Equal
 - ii. Cylindrical Locks – Best 9k HD, Sargent 10line LP, or Rice Approved Equal
- c. Electrical Door Hardware Manufacturers: Best 40/45, Sargent 8200, Rice approved equal
 - i. No maglocks or electric strikes.
 - ii. Standalone keypad/magswipe to be 45HZ only.
- d. Panic Hardware Manufacturers: Von Duprin 98/99, Sargent 80.
 - i. No concealed vertical rods or mortise exit devices.
 1. No substitutions or approved equal only on exit devices.
 2. 1.0Amp inrush maximum with non-proprietary power supply.
 - ii. Mullions used with rim devices to be keyed removable.
- e. Closer Manufacturers: Norton 7700, Sargent 351, LCN 4040XP, Stanley
- f. Handles shall be ADA compliant.
- g. Card readers: Refer to section 28 10 00 Electronic Access Control and Intrusion detection.
- h. Automatic Door Openers Manufacturers: Dorma ED250, Stanley or Rice approved equal.
- i. Locks:
 - i. GC must have a hardware coordination meeting prior to completion of hardware sets, and include at a minimum, Rice FE&P, Rice University Police Department, Security Contractor, Hardware Consultant and specific project/building End User (if necessary).
 - ii. Hardware sets to be reviewed by Rice FE&P.
 - iii. Substitution Requests to be received prior to awarding subcontracts only per Division 01.
 - iv. Submittal to be reviewed by Rice.
 - v. Hardware sets and submittal to be prepared in vertical format, no exceptions.
- j. Lock installation by Contractor (Contractor to be certified installer). Cores installed by RUPD.
- k. Rice Key Control establishes key protocol using a Campus Standard BEST key system.
 1. GC to hold Keying Meeting to coordinate all aspects of key system.
 2. Cores and Keys purchased by GC and delivered to RUPD Access Control for final installation.
- l. By 50% Construction Documents, all rooms shall be numbered in accordance with Rice University room numbering scheme and a door schedule produced.
- m. By 95% Construction Documents, Architect shall meet with Rice Project Manager and Key Control to determine the building keying scenario.
 1. Plan for master/sub-masters/sub/sub masters, etc.
 2. Door schedule will be used in development of "core" schedule.