

CHAPTER 8D

HARDWARE

8D-01. MATERIAL

a. Submittals

(1) Make sure that the contractor obtains an early approval of hardware schedule and samples. An approvals list is also required. Hardware templates must be provided to door and frame manufacturers.

(2) Double-check the schedule to assure that you understand it and that no openings have been omitted.

(3) Check for required certificates and test reports as per approval list.

(4) Be alert to hardware and keying requirements on such items as:

(a) Roof scuttles

(b) Sliding, rolling and lift doors

(c) Refrigerator and other mechanical equipment doors

(d) Screens and doors

(5) Hardware items which need close observation because they are often overlooked are such items as astragals, silencers, coordinators, holders, stops, and thresholds.

(6) Hardware finishes are identified in Builders Hardware Manufacturers Association (BHMA) Standard 1301. Check for required finish and base metal. Watch for restrictions on use of aluminum.

b. Delivery of Material

(1) Material will be received in manufacturer*s original packages.

(2) Packages should not be opened until time for attaching to door.

(3) Examine items for the utilization of the correct materials at scheduled locations.

(4) Check the keying. A keying schedule is required and keys must be tagged or otherwise identified with the door for which the lock is intended.

(5) Are all keys stamped as required?

(6) Check for security of master key.

1 Aug 92

8D-02. APPLICATION

a. General

(1) Check for quality workmanship and the proper installation of each item of hardware.

(a) Compare installation with manufacturers instructions.

(b) Determine the proper installation height and location.

(c) Examine the method of fastening. Evaluate for durability and rigidity.

(2) Make sure that the proper size and type of hardware is being installed on each door. Use the hardware schedule for this check.

b. Installation Checks

(1) Observe whether there are non-removable pins in hinges installed on out-swinging exterior doors and on doors to secure areas which swing into corridors.

(2) Check for non-ferrous fasteners on hardware exposed to the weather.

(3) Check for tamper proof fasteners as required on surface mounted hardware.

(4) Ensure the use of proper closers and brackets. Note the installation of closer for adequate clearance. Closers on exterior should not be mounted exposed to the weather.

(5) Look for the omission of stops and silencers. Watch for installations which will allow hardware to swing into parts of the structure or into other hardware. Each door requires a hardware stop.

(6) Check for the matching of hardware finishes in each area.

(7) See that each item of hardware functions properly after installation.

(8) Check for installation of thresholds where scheduled.

(9) There are special requirements for mortise-type locks and trim. Check your specifications.

(10) Locksets for lead-shielded doors shall be lead-lined the factory. Thickness shall be not less than the door lead thickness.

(11) Door pulls shall be thru-bolted type.

(12) Check for proper listing or label on hardware and detection devices for labeled fire-rated doors.

(13) Is hardware on labeled doors properly installed?

(14) Check for required kick plates when push plates are installed.

(15) Is the key cabinet at a suitable location?

(16) Be alert for the separate and distinctive requirements for locksets on barracks sleeping room doors.

(17) You will need the American National Standards Institute (ANSI) specific standard to fully check hardware items in question.

8D-03 PRISON-LOCKING DEVICES

a. Because of specific and complex requirements it is important that:

(1) All required shop drawings, catalog cuts, descriptive literature and samples be available and closely examined.

(2) Use the above as guidance during inspection of the installations.

(3) Check for submittal and approval of working model of the gang-locking device.

b. Check for the specific number and type fasteners for hardware. Some fasteners may require welding of the recessed heads.

c. Do all keys control their specific function? For keyed-alike locks?

d. Arrange to witness and validate required field tests.