

## DESIGN CRITERIA

1. Related Sections: See Division 08 Sections Hollow Metal Doors and Frames and Aluminum-Framed Entrances and Storefronts for door and frame preparation, and reinforcement provided as part of doors and frames. See Division 08 Section Flush Wood Doors for factory pre-fitting and machining of wood doors for door hardware. See Division 08 Section Key Storage Equipment for key management system.
2. This Section specifies hardware, also known as *finish hardware*, *builders' hardware*, or *architectural finish hardware*, applied to doors. The Section uses manufacturers' product names and references to Builders Hardware Manufacturers Association standards in Part 3 "Door Hardware Schedule" Article to indicate door hardware requirements. Also included are hardware items essential to the operation, control, and weather stripping of doors, and electrified door hardware.
3. Guide specification Division 08 Section Door Hardware includes typical hardware sets required in Commissary facilities. Select hardware sets from descriptive names of rooms indicated in specification. If necessary, adjust to suit project requirements. General guidelines for door locking is as follows:
  - A. Automatic entrance doors are specified with all required operational door hardware, except cylinder locks. Indicate cylinder locks that are key operated from exterior side and thumb turn operated from interior side.
  - B. Exterior aluminum framed glass door at Administrative Office entrance requires a two-point deadlatch, cylinder lock (key operated from exterior side and paddle from interior side), closer, and pull hardware.
  - C. Exterior employee entrance / exit doors in warehouse area require exit device, door closer, and local day alarm. Day alarm shall be the type where de-activation will be accomplished only by key access. Day alarm must be hard wired, with battery back-up. Any time receiving is not taking place these doors must be under surveillance by a DeCA employee or monitored by a local alarm to afford protection against unauthorized entry or exit. The local day alarm will typically be activated so that security can be controlled during the time when the store is closed to customers, but still occupied by cleaning, maintenance, and stocking personnel. The purpose of the local alarm is to serve as a deterrent and immediately notify management if unauthorized use of a particular door occurs. It does not replace the intrusion detection (IDS) that is monitored by Installation police, and typically activated when the building is unoccupied. IDS does not announce in the store.
  - D. Exterior emergency exit only doors require delayed egress lock with local day alarm. It is intended that these doors will only be used in an emergency. Day alarm shall be the type where de-activation will be accomplished only by key access or fire alarm signal. Day alarm must be hard wired, with battery back-up, and will typically be activated 24 hours per day. The purpose of the local alarm is to serve as a deterrent and immediately notify management if unauthorized use of a particular door occurs. It does not replace the intrusion detection (IDS) that is monitored by Installation police, and typically activated when the building is unoccupied. IDS does not announce in the store.
  - E. Exterior overhead receiving doors require a padlock at both jambs of door opening.
  - F. Interior aluminum framed glass door or solid core wood door at Administrative Office Corridor entrance from Sales Area requires a closer and push/pull hardware. Provide a deadlock on this door so that the administrative office area can be secured after hours. If door is designated as a required means of egress, provide sign on door stating that requirement.

- G. Private offices require locksets.
  - H. Cashier's Office and Cash Counting Room doors require mortise locks (storeroom function with a minimum 3/4" throw). The Cash Counting Room door also requires an electric door strike with operator located in Cashier's Office.
  - I. Communications Room and Communications Closet require mortise locks (storeroom function with a minimum 3/4" throw).
  - J. Employee Break Rooms, Toilet Rooms, Locker Rooms, and Training Rooms require push/pull hardware and door closers. Some locations require deadbolt locks to secure these rooms during non-business hours, to prohibit access to room by employees, stockers, and vendors after rooms have been cleaned. Verify requirement for deadbolt locks with the DeCA Project Manager.
  - K. Janitor's Closets, mechanical rooms, and Storage Room doors require storeroom function locksets. Provide closers on doors opening to customer areas.
4. Assure that door hardware selected complies with ABA Accessibility Standard for Department of Defense Facilities as adopted by the Deputy Secretary of Defense memorandum dated October 31, 2008.
  5. Guide specification indicates lever handles on all doors in accordance with accessibility requirements. Cast construction. Commercial plain design. Lever handles for exit devices shall meet test requirements of ANSI/BHMA A156.13 for mortise locks. Lever handle locks shall have breakaway feature (such as weakened spindle or shear key) to prevent irreparable damage to lock when force in excess of that specified in ANSI/BHMA A156.13 is applied to the lever handle. Lever handles shall return to within 1/8" of door face.
  6. Indicate all high use interior personnel doors with kick plates on push side of door.
  7. Indicate Type 2 Security Grade 1 locksets at the following locations:
    - A. Exterior Doors.
    - B. Administration offices.
    - C. Cashier's Office - dead bolt lockset required.
  8. Indicate Type 1 Operational Grade 1 locksets at all storage and utility rooms.
  9. Indicate door closers complying with ANSI/BHMA A156.4, Series C02000, Grade 1. Use closers Type C02011 with optional feature PT 4C (adjustable closing force at least 50% over minimum value for closer) for surface applications, except use parallel arm closers, C02021, on out-swinging exterior doors.
  10. Indicate heavy-duty wall mounted or floor mounted door stops. Provide as necessary to preclude damage to door, hardware, and adjacent walls.
  11. Locate building key box (KNOX-BOX) on exterior building wall adjacent to main customer entrance for use by Fire Department in an emergency. Verify with Fire Department that building key box specified is compatible with that used at Installation. Modify accordingly. Provide additional building key boxes as required by the AHJ.

12. Under Building Access:

- A. In accordance with UFC 4-010-01, Standard 20, indicate methods of controlling access to crawl spaces, utility tunnels, and other means of under building access.
- B. Verify with Installation safety authorities if under building access is to conform to OSHA requirements for confined spaces.

END OF SECTION