

## Door Hardware

### Exit Devices (08 71 00)

For questions regarding this section contact: Physical Plant  
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#### Part 1 – General

- **Exit Devices:** All devices and mullions shall be of one manufacturer to provide for proper installation and servicing.
  - Devices shall be furnished non-handed and capable of direct field conversion for all available trim functions.
  - All devices shall carry a three year warranty against manufacturing defects and workmanship.
  - Exit device(s) being submitted for approval shall have been manufactured for at least 10 years.
  - A list of (10) years old projects using submitted exit device shall be available upon request.
  - Locking Function Devices must be able to accept University Cylinders.
  - Exit *device* shall be tested to ANSI/BHMA A156.3 test requirements by a BHMA certified independent testing laboratory.
  - A written certification showing successful completion of a minimum of 1,000,000 cycles for surface and concealed vertical rod devices, 5,000,000 cycles for rim devices, and 10,000,000 cycles for mortise devices.
- **Surface Mounted / Concealed Vertical Rod Exit Devices:** Devices shall be push through type touch pad design with a straight or horizontal motion to eliminate pinch points.
  - The angular motion type pad with end *cavity* exposed when depressed is unacceptable.
  - Latch bolt shall have a self-lubricating coating which reduces friction and wear.
  - Plated latch bolts are unacceptable. *Device* housing shall be heavy duty extruded aluminum.
  - *Mechanism Case or Housing:* Shall have an *average* minimum thickness of (.140") EXTRUDED aluminum, and shall have the adaptability to *convert* from standard hex key dogging to a high security cylinder dog operation in the field.
  - No exposed screws shall be seen from the back side (pull side) of the device through a glass lite.
  - The use of plastic parts to retract the latch bolt is unacceptable.
  - *Springs:* Only minimum (1/16") diameter compression springs are acceptable.
  - All internal parts shall be zinc dichromate coated to prevent rusting.
  - *Quiet Feature:* All devices shall incorporate a hydraulic sound damper to which decelerates the touchpad on its return stroke and eliminates noise associated with exit *device* operation.
  - *Touch Pad:* Shall be architectural metal with a minimum height of 2-3/16".
  - Plastic is not acceptable.
  - *Outside Trim:* Shall be *heavy* duty type and fastened by means of concealed welded lugs and thru-bolts from the inside.
  - Lever trim shall be forged brass with a minimum *average* thickness on the escutcheon of (.130").
  - Plate with pull shall be minimum *average* thickness of (.090") and have forged pulls.
  - Lever trim shall be furnished with "Break-Away Levers" (994L Trim).
  - *End caps:* Shall be sloped and of heavy-duty metal alloy construction and provide horizontal adjustment to provide flush alignment with device cover plate.
    - When *device* end cap is installed, no raised edges will protrude.
    - End cap shall be cast metal or forged aluminum and have a minimum thickness of (.250").
    - Plastic or metal stamping will not be acceptable.
  - Provide all shim kits and filler plates to allow flush mounting of exit *devices* on all types of doors used in projects.
  - Furnish all exit devices with deadlocking latch bolts.
  - **Surface Vertical Rod Series Exit Device:** shall be tested to ANSI/BHMA A156.3 test requirements by a BHMA certified independent testing laboratory; a written certification showing successful completion of a minimum of 5,000,000 cycles must be provided by the independent laboratory.
  - **Rim Series Exit Device:** Shall be tested to ANSI/BHMA A156.3 test requirements by a BHMA certified independent testing laboratory; a written certification showing successful completion of a minimum of 5,000,000 cycles must be provided by the independent laboratory.
  - **Mortise Series Exit Device:** Shall be tested to ANSI/BHMA A156.3 test requirements by a BHMA certified independent testing laboratory; a written certification showing successful completion of a minimum of 10,000,000 cycles must be provided by the independent laboratory.
  - **Concealed Vertical Rod Series Exit Device:** Shall be tested to ANSI/BHMA A156.3 test requirements by a BHMA certified independent testing laboratory; a written certification showing successful completion of a minimum of 1,000,000 cycles must be provided by the independent laboratory.
- **Recess Mounted Exit Devices:** Shall be push type touch pad design with a straight or horizontal motion to eliminate pinch points.

- The push pad shall project a maximum of 1 3/4" from the face of the door in the closed position.
  - The push pad shall project a maximum of 1 1/4" in the open position.
  - Latch bolt shall have a self-lubricating coating which reduces friction and wear.
  - Plated latch bolts are unacceptable.
  - End cap shall be die cast aluminum. End cap shall be sloped to cause any cart or dolly hitting end cap to deflect back into the door opening. Plastic or metal stamping will not be acceptable.
  - Springs: Only minimum (1/16") diameter compression springs are acceptable.
    - All internal parts shall be zinc dichromate coated to prevent rusting.
  - Touch Pad: Shall be extruded aluminum with a minimum height of 4 %". Plastic is not acceptable.
  - Outside Trim: Shall be heavy duty type and fastened by means of concealed welded lugs and thru-bolts from the inside. Lever trim shall be forged brass with a minimum average thickness on the escutcheon of .130.
- **94/95 Series Exit Device:** Shall be tested to ANSI/BHMA A156.3 test requirements by a BHMA certified testing laboratory. A written certification showing successful completion of a minimum of 1,000,000 cycles must be provided.

## Part 2 – Product

- Preferred or equal:
  - Von Duprin ([OSC Approval](#))

## Part 3 – Execution

- Mount hardware units at heights indicated in "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute, except as specifically indicated or required to comply with governing regulations, and except as may be otherwise directed by Architect.
- Install each hardware item in compliance with the manufacturer's instructions and recommendations. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, coordinate removal, storage and reinstallation or application of surface protections with finishing work specified in the Division-9 sections. Do not install surface-mounted items until finishes have been completed on the substrate.
- Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- Drill and countersink units which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.