

Door Hardware

Locks, Latches and Bolts (08 71 00)

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

- Lock type and manufacturer to be determined by building area.
- Custom storefront and modular systems must comply with campus door hardware standards.
- **Cylindrical Locks** - ANSI A156.2 Series 4000, Grade 1 Strength and Operational requirements.
 - Meets A117.1 accessibility Codes.
 - Latch bolts shall be steel with minimum 1/2" throw, deadlocking on keyed and exterior functions.
 - 3/4" throw anti-friction latch bolt on pairs of fire doors.
 - Strikes: Provide manufacturer's standard wrought box strike for each latch or lock bolt, with curved lip extended to protect frame.
 - Locksets to be tested to exceed 3,000,000 cycles. Lock case shall be steel.
 - Lock shall incorporate one piece spring cage and spindle. Provide 5/8 minimum throw of latch and deadbolt used on pairs of doors.
 - Provide Seven Year Warranty.
- **Mortise Locks** - ANSI A156.13, 1994, Grade 1 Operational, Grade 2 Security, ANSIIASTM F47676 Grade 30, UL listed.
 - Levers shall be forged brass, bronze, or cast stainless steel, 93 lever design extruded brass, bronze or stainless steel.
 - Meets A117.1 Accessibility Codes. Steel Case with throw stainless steel anti-friction latch bolt and a 1" throw stainless steel deadbolt.
 - Lock case shall be field reversible, without opening the lock chassis and universal chassis to accept both knob and lever functions.
 - Lock trim shall incorporate individual lever support springs in each rose or escutcheon. Lever connection by attaching threaded bushings tightened by a spanner wrench.
 - Threaded set screws will not be accepted.
 - Lock spindles shall be two independent inside and outside spindles to prevent manipulation of lock.
 - Strikes: Provide manufacturer's standard wrought box strike for each latch or lock bolt, with curved lip extended to protect frame.

Part 2 – Product

- Comply with UL requirements for throw of bolts and latch bolts on rated fire openings.
- Lock Manufacturers: Subject to compliance with campus requirements, provide lockset products of the following approved manufacturers (**ACCEPTABLE MANUFACTURERS BELOW BASED ON INDIVIDUAL BUILDINGS or AREA. Consult with college for required type & manufacturer:**)
 - Sargent Lock Co (*Academic Buildings*)
 - Corbin Russwin Co. (*Residential Buildings*)
- Flush Bolt Heads: Minimum of 1/2" diameter rods of brass, bronze or stainless steel, with minimum 12" long rod for doors up to 7'-0" in height. Provide longer rods as necessary for doors exceeding 7'-0" in height.
- Locks specified for modular partitions must comply with this standard.

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.