Utah Valley University
Door Hardware Standards

Attention: Architects, Design Professionals, Hardware Specifiers, Contractors, Project Managers and other concerned parties:

Utah Valley University has standardized on the following door and hardware products. Please adhere to the following when specifying hardware for Specification Section 087100 in new construction, renovation, or tenant improvement work:

Category	Description
Butt Hinges	ANSI Grade 1. BHMA A156.1. 5-knuckle, ball bearing butt hinges 4.5" x 4.5". For out-swing doors, use non-removable pins. Use heavy-weight for exterior, cross-corridor, and high-abuse doors.
Continuous Hinges	ANSI Grade 1. BHMA A156.1. Aluminum geared continuous hinges. 112HD for use on all aluminum doors, 224HD for use on wood or metal doors over 36" wide. Cutout for electronic power transfer where EPT is included in hardware set. Match aluminum storefront finish.
Mortise Locksets	ANSI Grade 1. BHMA A156.2. Only acceptable products: • Schlage L Series 06L Lever L full face Escutcheon. • Sargent 9200 Series L Lever LE1 Escutcheon. If occupancy indicator is required, use "N" full face escutcheon.
Cylindrical Locksets	ANSI Grade 1. BHMA A156.2. Only to be used on retrofit applications where the door is already prepped for a cylindrical lock. Only acceptable products: • Schlage ND Series. • Sargent 10X Line Series.
Grade 2 Residential Locksets	ANSI Grade 2. BHMA A156.2. When retrofitting residential 1 3/8" thick doors. Only acceptable products: • Schlage ALX Series locksets with FSIC Lever prep.
Cylinders	ANSI Grade 1. BHMA A156.5. All cylinders will be Schlage Everest 29R Full Size Interchangeable Core (FSIC). • All exterior doors that require a cylinder and any Card Access Control Door to have Schlage Everest 29R Primus XP FSIC cylinders. • Any exterior doors that do not allow access to interior of the building to have Schlage Everest 29R FSIC cylinders. • All interior doors requiring cylinders to have Schlage Everest 29R FSIC cylinders.
Electrified Locksets	ANSI Grade 1. BHMA A156.2. Electrified mortise locksets. Only acceptable products: • Schlage L Series – 06L Lever L full face Escutcheon 12V/24V • Sargent 9200 Series- L Lever LE1 Escutcheon electronic 12V/24/V All locksets shall be fail-secure unless building code requires fail safe. All electronic locks must be controlled by an LNL-1320 Reader Interface Module or LNL-X2220 Intelligent System Controller. ANSI Grade 1. BHMA A156.2. Electrified cylindrical locksets. Only acceptable products: • Schlage ND Only allowed in retrofit application. **Integrated locksets, such as AD300/400, NDE, or IN120 are not acceptable.**
Electrified Exit Devices	ANSI Grade 1. BHMA A156.3. Electrified Exit Devices. Motorized Latch Retraction or Quiet Electric Latch Retraction. Only acceptable products: • Von Duprin QEL • Sargent 80 Series Panic devices on exterior doors shall have request to exit and latch bolt monitoring switches built in. All other Electric Panic devices will have request to exit switch.
Electric Strikes	ANSI Grade 1. BHMA A156.31. Electrified lockset or motorized latch retraction is the preferred choice for electrified locking device. Electric strikes in specific applications such as single use ADA compliant bathrooms may be acceptable. Consult UVU Lock Shop for approval.

Electrified Hinges, EPTs, Wire Harnesses	Wire Gauge must meet Lockset/Panic device power requirements. Doubling up on wires to meet amperage requirement is not acceptable. Single manufacturer will provide quick connect pigtail for the following: • Access control power wire. • Quick connects on EPT or electrified hinge. • Quick connect door wiring harness. • Quick connect on door locking device. Door hardware installer should only have to plug in the quick connects of each component for 24v power, REX, latch bolt monitoring, and signaling from access control cable through to the door. Only acceptable products/hinges: • Allegion Connect. • Assa Abloy ElectroLynx. • Command Access.
Door Contacts	3/4" Closed Loop 3/4" gap door contacts. Alternate door contacts may be used in specific applications such as overhead doors or all glass doors where a 3/4" door contact does not work. Only acceptable products: • Securitron DPS.
Magnetic Locks	Magnetic Locks are not approved. Contact UVU Lock shop for special approval.
Request to Exit Devices	All REX switches will be integrated into panic device or lockset.
Power Supplies	Power supply for all electronic locks and motorized latch retraction panic devices will be installed in the nearest MDF/IDF room, the same room as the access control system controllers and reader interface modules. Power supplies will not be installed in the ceiling. Each individual locking device (panic or mortise lockset) will have a power distribution board connection that provides EMF protection, fuse, and relay. Each access control panel (RIM or ISC) will have its own fuse through a power distribution board connection. Power supply must have Fire Alarm input and back up battery capabilities. Only acceptable products: • Life Safety Power.
Mullions:	Use steel key-removable mullions at all exterior pair openings. Mullions are to be keyed to building master. Mullion and exit devices are to be supplied from the same manufacturer. Provide mullion stabilizers.
Exit Devices	ANSI Grade 1. BHMA A156.3. Only acceptable products: • Von Duprin 98 Series. • Von Duprin 35A Series where door stile is too narrow for 98 Series. • Sargent 80 Series. (-GL option not allowed) All exit devices at paired openings to be rim devices. No rods or cables allowed. Use rigid pull trim on exterior doors, otherwise use vandal resistant lever trim to match locksets. If dogging is needed, it must be cylinder dogging. Card access doors should not have dogging.
Closers	ANSI Grade 1. BHMA A156.4. Through-bolt on wood doors. All out-swing exterior doors to use an arm with integrated stop. If conditions allow door to open 100°, use spring stop arm (SCUSH), otherwise use cushion stop arm (CUSH). All push-side mount closers to have extra-duty arm (EDA). Concealed overhead closers are only acceptable on solid glass doors, otherwise they are not acceptable. • Only acceptable product: LCN 4040XP Series.
ADA Operators	ANSI Grade 1. BHMA A156.19. Electro-hydraulic operated closer. Provide with concealed switch (CS). When used with concealed overhead stop, provide flush ceiling mount (FC). • Only Acceptable product: LCN 4600 Series.
ADA Actuators	4-1/2" Square actuators. Use on wall-mount applications. 1-1/2" x 4-1/2" Rectangular actuators. Use on jamb-Mount applications. All actuators must be hardwired to ADA operator and coordinated with access control if present on door.
Wall Stops	Heavy-duty forged steel wall stop. Use on all interior wood or metal doors where possible.
Overhead Stops	On all aluminum doors use concealed overhead stops. Provide with Adjustable stop point (ADJ). On interior doors where wall stops cannot be used, use surface mounted overhead stops on the non-public side of the door.
Card Readers	• Only acceptable product: HID SIGNO 40TKS-02-00037F. (40TKS-T2-00037F also acceptable)
MDF/IDF Rooms	Provide motorized latch retraction panic hardware. Purpose: under the door lever tool break in prevention.
Exterior Doors	All exterior doors will be electronically controlled. All exterior doors need DPS, REX and Latchbolt monitoring. Panic hardware will be motorized latch retraction and will not

	be able to dog down manually. Exit only doors that provide access to main building should have door contact, rex, and Latchbolt monitoring run to building control panel, but do not need electrified locking hardware. Only 2 openings per floor that have an exterior level access point will need electronic bypass cylinder, the rest of the doors with panic hardware will not be prepped for rim cylinders. Install those 2 cylinders where emergency vehicles are most likely to enter the building in an emergency.
Double Doors & Flush Bolts	Try not to create openings that require auto flush bolts. Where a double door is required to have flush bolts, provide manual flush bolts, and full door height latch guard that makes room for the strike plate to sit behind guard.
Door Seal	Whether it be for sound, smoke or weather, use door seals where required and where beneficial to the operation of the building.
Key Switches	Any Key Switches operating overhead doors, partition walls, auxiliary alarms, etc. must be able to accept a Schlage Everest 29R FSIC core. If that is not possible, the motor controls should be tied into the access control system with a card reader.
Misc. Hardware	Any hardware that does not fit in the previous categories please contact UVU lockshop for further clarification and approval.
Uniform Hardware Type	When building a new building, or remodeling existing buildings, all door systems (Aluminum Storefront, Steel/Metal, Wood, Solid Glass, Sliding, etc.) should have the same type of closer, lockset, panic etc. Not acceptable to have Von Duprin Panics on the Aluminum Storefront doors but have Sargent Panics on the Steel and Wood doors or vice versa. The door hardware manufacturer should be consistent throughout the building.
Pre-Installation Meeting	Required for all Hardware installers, Electrical, and General Contractors. Meeting to be conducted by Allegion rep, and owner to be invited.
Post-Installation Walk Through	Post Installation Walk Through by Allegion rep. shall be conducted around the time of substantial completion.

Utah Valley University uses Allegion as its consultant for doors and door hardware. Contacts with the Allegion Consulting Office are:
Phil Edwards (801) 201-9077.
George Stromquist (801) 389-7905.
We advise you to contact our Consultants for questions and to write the hardware specification (Section 087100) for all projects.
Facility personnel are trained in the installation and maintenance of the above material and the maintenance department owns considerable stock of material for repair work. The facility is not prepared to accommodate the adoption of an additional standard as the hardware standards in place serve the campus well.

Signed: UVU Locksmith Shop Dated: 02-07-2023