SPEC NOTE: This section contains requirements for keyless mechanical pushbutton locks suitable for wood and metal doors. This section is intended to work with and references to Division 1 – General Requirements specification sections. This section is complementary to a full project hardware schedule usually identified as Section 08710.

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Keyless, mechanical pushbutton access control systems.

SPEC NOTE: Select one (or more) of the following access control types. If more than one is selected, each type must be scheduled at end of section.

1. Combination (mechanical pushbutton) exterior access with key override, free interior [knob.] [ADA compliant lever.]
2. Combination (mechanical pushbutton) interior and exterior access with key override.
3. Combination (mechanical pushbutton) exterior access with mortise lock and deadbolt, key override, free interior ADA compliant lever.

1.2 RELATED SECTIONS

SPEC NOTE: Edit the following paragraphs that associate with the required opening hardware. Coordinate with electrical specification sections for security hardware, accordingly.

A. Section 08710 - Door Hardware.

1.3 REFERENCES

SPEC NOTE: Edit list of standards to include only those standards referenced in project specification. Ensure that door and hardware are tested as an assembly to maintain labeling requirements.

A. BHMA (Builders Hardware Manufacturers Association) - A156 series.

B. DHI (Door and Hardware Institute) - Standard hardware positioning dimensions.

C. NFPA 80 - Fire Doors and Windows.

D. NFPA 101 - Life Safety Code.

E. NFPA 252 - Fire Tests of Door Assemblies.

F. ANSI/NFPA Pamphlet No. 80, Table 2-8A Installation of Swinging Doors with Builder’s Hardware

G. ANSI A117.1 Accessible and Useable Buildings and Facilities

H. A156.18 - American National Standard for materials and Finishes.

1.4 REGULATORY AGENCIES

A. Hardware for Doors in Fire Separations and Exit Doors: Conform to ACO (American Certification Organization) accredited by UL (Underwriters Laboratories Incorporated).

B. ADA (Americans with Disabilities Act).

1.5 SUBMITTALS

A. Section 01300 – Submittals: Submit one (1) sample of each hardware component with each specified finish.

B. Samples:

1. Identify each sample by label indicating applicable manufacturer's brand number, required finish, and hardware package number.
2. Approval samples will be returned for incorporation into the Work.

C. Hardware List:

1. Indicate specified hardware; identify make, model, material, function, size, finish and other pertinent information.

1.6 CLOSEOUT SUBMITTALS:

A. Section 01780 - Closeout Submittals: Requirements for operation and maintenance manual.

B. Provide operation and maintenance data for electronic access control for incorporation into manual.

C. Advise maintenance staff regarding proper care, cleaning, and general maintenance.

1.7 QUALITY ASSURANCE

Edit the following listings to suit door hardware and the requirements for a fire rated assembly.

A. Perform Work in accordance with the following requirements:

1. BHMA A156 series.
2. DHI - A115 series.
3. NFPA 80.
4. NFPA 101.
5. NFPA 252.

B. Hardware Supplier Qualifications: Company specializing in supplying [commercial] [institutional] [_____] door hardware [with [_____] years [documented] experience.] [approved by manufacturers.]

C. Hardware Supplier Personnel: Employ [an Architectural Hardware Consultant (AHC)] [a qualified person] to assist in the Work of this section.

1.8 EXTRA MATERIALS

A. Section 01780 - Closeout Submittals: Provide maintenance materials.

1.9 DELIVERY AND STORAGE

A. Section 01610 - Product Requirements: Deliver, store, handle and protect products.

B. Deliver materials in original package with identification labels intact.

C. Package each item of hardware including fastenings, separately or in like groups of hardware. Label each package as to item definition and location.

D. Store finishing hardware in locked, clean, dry area.

1.10 PROJECT CONDITIONS

A. Section 01300 – Administrative Requirements: Coordination and meetings.

B. Coordinate the Work with other directly affected sections involving manufacture or fabrication of internal reinforcement for door/frame hardware and recessed items.

1.11 WARRANTY

A. Section 01700 – Execution Requirements: Warranties.

The following paragraph requests a manufacturer warranty; the request may not be effective as the manufacturer is usually outside the jurisdiction of the Owner/Contractor contract. Coordinate this paragraph with the Submittals at Project Closeout article.

B. Manufacturer's Warranty: [two (2)] [____] year limited warranty.

1.12 MAINTENANCE PRODUCTS

A. Section 01700 – Execution Requirements: Operation and maintenance data.

B. Provide special wrenches and tools applicable to each different or special hardware component.

C. Provide maintenance tools and accessories supplied by hardware component manufacturer.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. Kaba Access Control, 2941 Indiana Avenue, Winston-Salem, NC 27105
Phone: 800-849-8324 or 336-725-1331, Fax: 800-346-9640 or 336-725-3269. Web Site at: www.kaba-ilco.com

B. Substitutions: [Not Permitted.] [Refer to Section 01600.]

2.2 KEYLESS ACCESS CONTROL SYSTEMS

SPEC NOTE: The following products are listed for selection and editing to suit a project. If a product is not required for a project, delete it. Delete unused hardware items from the following paragraphs. Also delete product type, size or finish if identified in hardware schedule at end of section. Add "UL" after type number when UL label on exit devices is required.

A. Kaba Access Control - 1000 Series Lock:

1. Lock Housing: Heavy-duty cylindrical lock, cast front housing, brass unified trim plate, fixed cast or wrought brass knobs, 70 mm (2-3/4 inch) backset.
    a. Latch: [13 mm (1/2 inch) floating] [16 mm (5/8 inch) floating] [19 mm (3/4 inch) beveled] front throw latch, [3-hour] [__] UL/ULC Fire Door Rating.
    b. Strike: [T-strike plate.] [ASA strike plate.] [DB strike box.]
    c. Door Thickness: [35 mm (1-3/8 inch)] [45 mm (1-3/4 inch)] [50 mm (2 inch)] [57 mm (2-1/4 inch)].
    d. Door handing: Field reversible.
2. Finished to ANSI/BHMA standard for Materials and Finishes: [605 - Bright Brass.] [609 – Antique Brass.] [625 – Bright Chrome.] [626 - Satin Chrome.]

B. Kaba Access Control - L1000 Series Lock:

1. Lock Housing: Heavy-duty cylindrical lock, cast front housing, brass unified trim plate, fixed cast or wrought ADA compliant levers, 2 3/4” (70 mm) backset.
    a. Latch: [13 mm (1/2 inch) floating] [16 mm (5/8 inch) floating] [19 mm (3/4 inch) beveled] front throw latch, [3-hour] [__] UL/ULC Fire Door Rating.
    b. Strike: [T-strike plate.] [ASA strike plate.] [DB strike box.]
    c. Door Thickness: [35 mm (1-3/8 inch).] [45 mm (1-3/4 inch).] [50 mm (2 inch).] [57 mm (2-1/4 inch).]
    d. Door handing: Factory handed
2. Finished to ANSI/BHMA standard for Materials and Finishes: [605 - Bright Brass.] [609 – Antique Brass.] [625 – Bright Chrome.] [626 - Satin Chrome.]

C. Kaba Access Control - EE1000 Series Lock:

1. Lock Housing: Heavy-duty cylindrical lock, cast front and back housing, brass unified trim plate, fixed cast or wrought brass knobs, 70 mm (2-3/4 inch) backset.
    a. Latch: [13 mm (1/2 inch)] [16 mm (5/8 inch)] [19 mm (3/4 inch)] floating front throw latch, [3-hour] [____] UL/ULC Fire Door Rating.
    b. Strike: [T-strike plate.] [ASA strike plate.] [DB strike box.]
    c. Door Thickness: [35 mm (1-3/8 inch).] [45 mm (1-3/4 inch).] [50 mm (2 inch).] [57 mm (2-1/4 inch).]
    d. Door handing: Field reversible.

2. Finished to ANSI/BHMA standard for Materials and Finishes: [605 - Bright Brass.] [609 – Antique Brass.] [626 - Satin Chrome.]

D. Kaba Access Control - 8100 Series Lock:

1. Lock Housing: Heavy-duty mortise lock, cast front housing, brass unified trim plate, fixed cast or wrought ADA compliant levers, 70 mm (2-3/4 inch) backset.

a. Latch: [19 mm (3/4 inch) two-piece latch with 25 mm (1 inch) deadbolt] [19 mm (3/4 inch) two-piece latch, no deadbolt], [3-hour] [__] UL/ULC Fire Door Rating.

b. Strike: 124 x 32 x 6 mm (4-7/8 x 1-1/4 x 1/4inch) mortise strike plate.

c. Door Thickness: [38 mm (1-1/2 inch).] [45 mm (1-3/4 inch).] [50 mm (2 inch).] [57 mm (2- 1/4 inch)].

d. Door handing: Factory handed.

2. Finished to ANSI/BHMA standard for Materials and Finishes: [605 - Bright Brass.] [609 – Antique Brass.] [626 - Satin Chrome.]

2.3 ACCESSORIES

A. Fasteners:

1. Screws, bolts, expansion shields and other fastening devices required for installation and smooth operation of hardware.

2. Exposed fastening devices to match hardware finish.

B. Type and Finish: Same surface finish with compatible material as substrate.

C. Miscellaneous Accessorie:

SPEC NOTE: Anti-spy shield available for 1000, L1000 & EE1000 Series locks only.

1. Anti-spy shield, Black paint finish.

2.4 FABRICATION

A. Provide key override function with [ASSA] [Best & Compatibles] [Corbin/Russwin] [Medeco/Yale] [Sargent] [Schlage] [____] removable core cylinder.

B. Key to Owner’s [requirements.] [master keyed system.]

PART 3 EXECUTION

3.1 EXAMINATION

A. Section 01700 – Execution Requirements: Verification of existing conditions before starting work.

B. Verify that doors and frames are ready to receive work and dimensions are as [indicated on shop drawings.] [instructed by the manufacturer.]

3.2 INSTALLATION

A. Provide metal door and frame manufacturers with instructions and templates for preparation of the work to receive hardware.

B. Provide hardware manufacturers' instructions for installation of hardware components.

C. Use fasteners recommended by manufacturer.

D. Do not over tighten fasteners.

3.3 FIELD QUALITY CONTROL

Identify in Section 01400 who provides inspecting and testing; Owner, Owner appointed testing agency, or the Contractor.

A. Section 01400 – Quality Requirements: Field inspection, testing, and adjusting.

B. Architectural Hardware Consultant will inspect installation and certify that hardware and installation has been provided and installed in accordance with manufacturer's instructions [and as specified].

3.4 ADJUSTING

A. Section 01700: Adjusting installed work.

B. Adjust hardware for smooth operation.

3.5 PROTECTION OF FINISHED WORK

A. Section 01700: Protecting installed work.

B. Do not permit adjacent work to damage hardware or finish.

3.6 SCHEDULE

SPEC NOTE: Insert a schedule of hardware required for project. Where possible, group hardware together which requires same hardware. Indicate keying and other specific requirements. For major projects consider using hardware groups.

END OF SECTION