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## Marks USA

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***Specifiers:*** Click on the ¶ icon in the WORD toolbar to reveal detailed instructions

**DISCLAIMER:** Specification requires the sole professional judgment and expertise of the qualified Specifier and Design Professional to adapt the information to the specific needs for the Building Owner and the Project, to coordinate with their Construction Document Process, and to meet all the applicable building codes, regulations and laws. Marks USA (A Napco Security Group Company) expressly disclaims any warranty of merchantability or fitness for particular purpose of the product or project.

## SECTION 08 71 53 SECURITY DOOR HARDWARE

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes high performance, valued engineering locksets which tests to 3,000,000 + cycles (3 times the BHMA Grade 1 standard):
  - a. Mortise Locksets
  - b. Cylindrical Locksets
  - c. Electrified Locksets
  - d. Tubular Locksets
  - e. Deadbolts and Deadlatches
  - f. Biometrics
  - g. Electronic Access Control Locksets
  - h. Gate Locks
  - i. Institutional Life Safety Mortise Locksets
  - j. Hospital Push/Pulls Locksets
  - k. High Security Cylinders
- B. Related Sections:
  - 1. Section [28 10 00 - Electronic Access Control and Intrusion Detection]

#### 1.2 REFERENCES

- A. American National Standards Institute (ANSI):
  - 1. ANSI/BHMA A156.13-2005; Standard for Mortise locks including the operational test, security tests, cycle tests, finish tests, material evaluation tests and dimensional criteria.
  - 2. ANSI/BHMA A156.2-2003; Standard for bored and preassembled locks and latches, and includes general information, definitions, dimensional criteria, tests (procedures and required equipment) and their required results to meet grade standards.
- B. Underwriters Laboratory (UL):
  - 1. UL – 1034; Standard of Safety for Burglary-Resistant Electric Locking Mechanisms.

#### 1.3 SUBMITTALS

- A. Product Data:
  - 1. Submit manufacturer current technical literature for each type of product.
- B. Shop Drawings:
  - 1. Include details, dimensions, and attachments to other work.
- C. Finish Hardware Schedule:
  - 1. Coordinate finish hardware schedule with project Door Hardware Consultant
  - 2. Coordinate hardware with doors, frames and related work to ensure proper size, thickness, hand, function and finish of hardware. Organize hardware schedule into "hardware sets"

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indicating complete designations of every item required for each door or opening; and include the following information:

- a. Type, style, function, size and finish of each hardware item.
  - b. Name and manufacturer of each item.
  - c. Fastenings and other pertinent information.
  - d. Location of hardware set cross-referenced to indications on drawings both on floor plans and in door and frame schedule.
  - e. Explanation of all abbreviations, symbols, codes, etc.
  - f. Mounting locations for hardware.
  - g. Door and frame sizes and materials.
- D. Wiring Diagrams: Provide complete system wiring diagrams for all electronic access locksets.
- E. Installation Instructions: Provide manufacturers written installation and finish instructions for finish hardware. Send installation instructions to site with hardware.

## 1.4 QUALITY ASSURANCE

- A. Qualifications
1. Manufacturer:  
The manufacturer shall have a minimum of ten years experience in the production of Door Hardware.

## 1.5 DELIVERY, STORAGE & HANDLING

- A. Delivery and Acceptance Requirements:
1. Mark or tag each item of hardware, with identification related to final hardware schedule, and include basic installation instructions with each item or package.
  2. Wrap and crate finished components and assemblies to prevent damage to finished items.
  3. Deliver individually packaged hardware items at the proper time and location (shop or project site) for installation.
  4. Determine and coordinate the openings for delivery and installation of equipment.
- B. Storage and Protection:
1. Hardware received, but not installed shall be placed in secured storage. Control handling to prevent losses and delays before and after installation.

## 1.6 WARRANTY

- A. Manufacturer's Warranty:
1. Lifetime Mechanical Limited Warranty - MARKS USA warrants that its products are free from defects in materials and workmanship. This warranty is limited to the lifetime of the door on which our lock is installed. In the event our product does not conform to this warranty, MARKS USA will repair or replace the product free of charge. This warranty does not cover defects or damage arising from improper installation, lack of or improper maintenance, improper storage, shipping and handling, ordinary wear and tear, misuse, abuse, accident, unauthorized service, or use with unauthorized non-MARKS products or parts. We reserve the right to make changes in materials, components or manufacturing methods. Liability under all warranties expressed or implied is limited to replacement of the defective goods. This warranty does not cover nor provide for the reimbursement or payment of incidental or consequential damages. Additionally, the company will not warrant ANSI A156.2 Grade 2 lever product installed in educational facilities and student housing.

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2. Two Year Electronic Limited Warranty – Marks USA warrants to the original purchaser that its products are free from defects in materials and workmanship so long as they occupy the premises. In the event our product does not conform to this warranty, MARKS USA will repair or replace the product free of charge at its sole discretion. This warranty does not cover defects or damage arising from improper installation, lack of or improper maintenance, improper storage, shipping and handling, improper application or specification, ordinary wear and tear, misuse, abuse, accident, improper voltage, unauthorized service, or use with unauthorized non-MARKS products or parts.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

A. List of approved manufacturers:

1. Marks USA  
365 Bayview Ave.  
Amityville, N.Y. 11701  
Phone (631) 225-5400  
Fax (631) 225-6136

### 2.2 ASSEMBLY

A. Locksets to be manufactured by Marks USA of Amityville, NY. 11701

1. Locksets shall be cycle tested to three million plus cycles.
2. Locksets shall contain a life time mechanical warranty.
3. Locksets shall meet Buy America for Government & GSA work projects.

B. Provide configuration of lock as required by Hardware Group:

4. **SERIES 1000 – MORTISE – CERTIFIED FOR OPERATIONAL GRADES (GRADE 1)**

- |    |                    |  |
|----|--------------------|--|
| a. | 5BA-N thru 5WV-N   | (F01) – PASSAGE/CLOSET LATCHSET          |
| b. | 5BA-L thru 5WV-L   | (F02) – PRIVACY LOCK                     |
| c. | 5BA-E thru 5WV-E   | (F04) – ENTRY/OFFICE LOCK                |
| d. | 5BA-J thru 5WV-J   | (F05) – CLASSROOM LOCK                   |
| e. | 5BA-JM thru 5WV-JM | (F06) – HOSPITAL LOCK                    |
| f. | 5BA-EW thru 5WV-EW | (F07) – STOREROOM EXIT LOCK              |
| g. | 5BA-A thru 5WV-A   | (F08) – FRONT DOOR LOCK                  |
| h. | 5BA-G thru 5WV-G   | (F09) – ENTRY/RESTROOM LOCK              |
| i. | 5BA-A thru 5WV-A   | (F10) – ENTRY/OFFICE LOCK                |
| j. | 5BA-FC thru 5WV-FC | (F11) – EXIT LOCK                        |
| k. | 5BA-F thru 5WV-F   | (F12) – ENTRY/OFFICE LOCK                |
| l. | 5BA-FW thru 5WV-FW | (F13) – DORMITORY LOCK                   |
| m. | 5BA-C thru 5WV-C   | (F14) – STORE DOOR LOCK                  |
| n. | 5BA-H thru 5WV-H   | (F15) – HOTEL/MOTEL LOCK                 |
| o. | 5T                 | (F16) – DEADLOCK /KEY BOTH SIDES         |
| p. | 5P                 | (F17) – DEADLOCK /KEY OUT OR TURN INSIDE |
| q. | 5S                 | (F18) – DEADLOCK /KEY OUTSIDE            |
| r. | 5BA-LF thru 5WV-LF | (F19) – PRIVACY/BEDROOM OR BATH LOCK     |
| s. | 5BA-FD thru 5WV-FD | (F20) – APARTMENT LOCK                   |
| t. | 5BA-B thru 5BA-B   | (F21) – ENTRY/OFFICE LOCK                |
| u. | 5BA-LJ thru 5WV-LJ | (F22) – PRIVACY LOCK                     |
| v. | 5BA-GL thru 5WV-GL | (F26) – INSTITUTION PRIVACY LOCK         |
| w. | 5SC                | (F29) – CLASSROOM LOCK                   |

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x.	5BA-WW thru 5WV-WW	(F30) – INSTITUTION LOCK
y.	5BA-EX thru 5WV-EX	(F31) – EXIT LOCK
z.	5BA-GC thru 5WV-GC	(F32) – INTRUDER LATCH BOLT
aa.	5BA-FX thru 5WV-FX	(F33) – DORMITORY LOCK
bb.	5BA-FC thru 5WV-FC	(F34) – INTRUDER DEADBOLT
cc.	5BA-AC thru 5WV-AC	(F35) – ENTRANCE

#### 5. SERIES 1000 – MORTISE – CERTIFIED FOR SECURITY GRADES (GRADE 1)

a.	5BA-E thru 5WV-E	(F04) - ENTRY/OFFICE LOCK
b.	5BA-J thru 5WV-JM	(F05) - CLASSROOM LOCK
c.	5BA-JM thru 5WV-JM	(F06) – HOSPITAL LOCK
d.	5BA-EW thru 5WV-EW	(F07)- STOREROOM EXIT LOCK
e.	5BA-A thru 5WV-A	(F08)- FRONT DOOR LOCK
f.	5BA-G thru 5WV-G	(F09)- ENTRY/RESTROOM LOCK
g.	5BA-A thru 5WV-A	(F10)- ENTRY/OFFICE LOCK
h.	5BA-FC thru 5WV-FC	(F11)- EXIT LOCK
i.	5BA-F thru 5WV-F	(F12)- ENTRY/OFFICE LOCK
j.	5BA-FW thru 5WV-FW	(F13)- DORMITORY LOCK
k.	5BA-C thru 5WV-C	(F14)- STORE DOOR LOCK
l.	5BA-H thru 5WV-H	(F15)- HOTEL/MOTEL LOCK
m.	5T	(F16)- DEADLOCK /KEY BOTH SIDES
n.	5P	(F17)- DEADLOCK /KEY OUT OR TURN INSIDE
o.	5S	(F18)- DEADLOCK /KEY OUTSIDE
p.	5BA-FD thru 5WV-FD	(F20)- APARTMENT LOCK
q.	5BA-B thru 5WV-B	(F21)- ENTRY/OFFICE LOCK
r.	5BA-GL thru 5WV-GL	(F26)- INSTITUTION PRIVACY LOCK
s.	5SC	(F29) - CLASSROOM LOCK
t.	5BA-WW thru 5WV-WW	(F30) - INSTITUTION LOCK
u.	5BA-GC thru 5WV-GC	(F32) - INTRUDER LATCH BOLT
v.	5BA-FX thru 5WV-FX	(F33) - DORMITORY LOCK
w.	5BA-FC thru 5WV-FC	(F34) - INTRUDER DEADBOLT
x.	5BA-AC thru 5WV-AC	(F35) - ENTRANCE

#### 6. SERIES 4000-BORED (CYLINDRICAL) AND PREASSEMBLED LOCKS AND LATCHES (GRADE 1)

a.	180/280/195/295/395N	(F75)- PASSAGE
b.	180L/280/195/295/395L	(F76A)- PRIVACY LOCK
c.	180L/280/195/295/395P	(F77A)- PATIO/INNER OFFICE LOCK
d.	180L/280/195/295/395DC	(F80)- COMMUNICATING LOCK
e.	180L/280/195/295/395RDC	(F80)- COMMUNICATING LOCK
f.	180L/280/195/295/395AB	(F81)- OFFICE LOCK
g.	180L/280/195/295/395RAB	(F81)- OFFICE LOCK
h.	180L/280/195/295/395AB	(F82A)- ENTRY LOCK
i.	180L/280/195/295/395RAB	(F82A)- ENTRY LOCK
j.	180L/280/195/295/395AQ	(F83)- EXIT LOCK
k.	180L/280/195/295/395S	(F84)- CLASSROOM LOCK
l.	180L/280/195/295/395RS	(F84)- CLASSROOM LOCK
m.	180L/280/195/295/395F	(F86)- STOREROOM LOCK
n.	180L/280/195/295/395RF	(F86)- STOREROOM LOCK
o.	180L/280/195/295/395DW	(F87)- ASYLUM LOCK
p.	180L/280/195/295/395RDW	(F87)- ASYLUM LOCK
q.	180L/280/195/295/395DA	(F88)- ENTRY/RESTROOM LOCK
r.	180L/280/195/295/395RDA	(F88)- ENTRY/RESTROOM LOCK
s.	180L/280/195/295/395FQ	(F89)- EXIT LATCH

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t.	180L/280/195/295/395 <b>T</b>	(F90)- DORMITORY LOCK
u.	180L/280/195/295/395 <b>RT</b>	(F90)- DORMITORY LOCK
v.	180L/280/195/295/395 <b>BS</b>	(F92)- SERVICE STATION DOOR LOCK
w.	180L/280/195/295/395 <b>RBS</b>	(F92)- SERVICE STATION DOOR LOCK
x.	180L/280/195/295/395 <b>H</b>	(F93)- HOTEL/MOTEL LOCK
y.	180L/280/195/295/395 <b>AB</b>	(F109)- ENTRY/OFFICE LOCK
z.	180L/280/195/295/395 <b>RAB</b>	(F109)- ENTRY/OFFICE LOCK
aa.	180L/280/195/295/395 <b>DB</b>	(F110)- CLASSROOM LOCK
bb.	180L/280/195/295/395 <b>RDB</b>	(F110) – CLASSROOM LOCK
cc.	180L/280/195/295/395 <b>NB</b>	(F111) – COMMUNICATING PASSAGE
dd.	180L/280/195/295/395 <b>FB</b>	(F112) – COMMUNICATING STOREROOM LOCK
ee.	180L/280/195/295/395 <b>RFB</b>	(F112) – COMMUNICATING STOREROOM LOCK
ff.	180L/280/195/295/395 <b>SB</b>	(F113) – COMMUNICATING CLASSROOM LOCK
gg.	180L/280/195/295/395 <b>RSB</b>	(F113) – COMMUNICATING CLASSROOM LOCK

#### 7. BORED (CYLINDRICAL) AUXILIARY DEADLATCHES

- a. 31K,31K-G1 (E06071) – CYLINDER X TURNPIECE
- b. 31L,31L-G1 (E06081) – COMMUNICATING SINGLE CYLINDER
- c. 31M, 31M-G1 (E06061) – DOUBLE CYLINDER
- d. 31M,31S-G1 (E06091) – CLASSROOM

#### 8. FINISH TYPES

- a. US3 (Polished Brass, Clear Coated/BHMA CODE-605)
- b. US3E (Polished Brass “PVD”/BHMA CODE-605E)
- c. US4 (Satin Brass, Clear Coated/BHMA CODE 606 and 606E)
- d. US10(Satin Bronze, Clear Coat/BHMA CODE 612)
- e. US10E(Satin Bronze, “PVD”/BHMA CODE 612E)
- f. US10B(Dark Bronze Clear Coated/BHMA CODE 613B)
- g. US15(Satin Nickel Plated/BHMA CODE 619 & 619E)
- h. US26(Bright Chrome over Brass or Bronze/BHMA CODE 625 & 625E)
- i. US26D(Satin Chrome over Brass or Bronze/BHMA CODE 626 & 626E)
- j. US32(Polished Stainless Steel 300 Series/BHMA CODE 629)
- k. US32D(Satin Stainless Steel 300 Series/BHMA CODE 630)
- l. US3E(Inorganic coating over Brass/BHMA CODE 605E)
- m. US3E(Inorganic coating over Zinc/BHMA CODE 605E)

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine doors frames, and related items for conditions that would prevent the proper application of finish hardware. Do not proceed until defects are corrected.

#### 3.2 INSTALLATION

- A. Install finish hardware in accordance with reviewed hardware schedule and manufacturer's printed instructions. Pre-fit hardware before finish is applied, remove and re-install after finish is completed. Install hardware so parts operate smoothly, close tightly and do not rattle.

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### 3.3 FIELD QUALITY CONTROL

- A. After installation has been completed, provide the services of a qualified hardware consultant to check project to determine proper application of finish hardware according to schedule. Also check operation and adjustment of hardware items.

### 3.4 ADJUSTING

- A. Adjust parts for smooth, uniform operation.

### 3.5 CLEANING

- A. Clean as recommended by manufacturer. Do not use materials or methods which may damage finish (surface) or surrounding construction.
- B. Clean adjacent surfaces soiled by hardware installation.

**END OF SECTION**