

## 1 GENERAL

### 1.01 REFERENCE STANDARDS

- .1 American National Standards Institute (ANSI) / Builders Hardware Manufacturers Association (BHMA)
  - .1 ANSI/BHMA A156.1 – Butts and Hinges (1996).
  - .2 ANSI/BHMA A156.2 – Bored and Preassembled Locks and Latches (2011).
  - .3 ANSI/BHMA A156.3 – Exit Devices (2008).
  - .4 ANSI/BHMA A156.4 – Door Controls – Closers (2008)
  - .5 ANSI/BHMA A156.5 – Auxiliary Locks and Associated Products (2010)
  - .6 ANSI/BHMA A156.6 – Architectural Door Trim (2010)
  - .7 ANSI/BHMA A156.7 – Template Hinge Dimensions (2009)
  - .8 ANSI/BHMA A156.8 – Door Controls – Overhead Stops and Holders (2010)
  - .9 ANSI/BHMA A156.9 – Cabinet Hardware
  - .10 ANSI/BHMA A156.10 – Power Operated Pedestrian Doors
  - .11 ANSI/BHMA A156.11 – Cabinet Locks
  - .12 ANSI/BHMA A156.12 – Interconnected Locks and Latches
  - .13 ANSI/BHMA A156.13 – Mortise Locks and Latches Series 1000 (2005)
  - .14 ANSI/BHMA A156.14 – Sliding and Folding Door Hardware
  - .15 ANSI/BHMA A156.15 – Closer/Holder/Release Devices (2006)
  - .16 ANSI/BHMA A156.16 – Auxiliary Hardware (2008)
  - .17 ANSI/BHMA A156.17 – Self-closing Hinges and Pivots (2010)
  - .18 ANSI/BHMA A156.18 – Materials and Finishes (2006)
  - .19 ANSI/BHMA A156.19 – Power Assist and Low Energy Operated Doors (2007)
  - .20 ANSI/BHMA A156.20 – Strap and Tee Hinges, Hasps
  - .21 ANSI/BHMA A156.21 – Thresholds (2009)
  - .22 ANSI/BHMA A156.22 – Door Gasketing and Edge Seal Systems (2005)
  - .23 ANSI/BHMA A156.23 – Electromagnetic Locks
  - .24 ANSI/BHMA A156.24 – Delayed Egress Locking Systems (2003)
  - .25 ANSI/BHMA A156.25 – Electrified Locking Devices (2007)
  - .26 ANSI/BHMA A156.26 – Continuous Hinges (2006)
  - .27 ANSI/BHMA A156.27 – Power and Manual Operated Manual Revolving Pedestrian Doors
  - .28 ANSI/BHMA A156.28 – Master Keying Systems
  - .29 ANSI/BHMA A156.29 – Exit Locks and Alarms (2007)
  - .30 ANSI/BHMA A156.30 – High Security Cylinders
  - .31 ANSI/BHMA A156.31 – Electric Strikes and Frame Mounted Actuators
- .2 NFPA
  - .1 NFPA 80 – Standard for Fire Doors and Other Opening Protectives 2010 Edition.
  - .2 NFPA 101 – Life Safety Code 2006 Edition.
  - .3 NFPA 105 – Standard for the Installation of Smoke Door Assemblies and Other Opening Protectives 2007 Edition.
  - .4 NFPA 252 – Standard Methods of Fire Tests of Door Assemblies 2012 Edition.
- .3 UL
  - .1 UL 10B – Fire Tests of Door Assemblies.
  - .2 UL 10C – Positive Pressure Fire Tests of Door Assemblies.

## **1.02 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Schedule:
  - .1 Submit six (6) copies of the fully detailed hardware schedule.
  - .2 Hardware schedule shall indicate product number, description, manufacturer, size, fasteners, application, and finish of each item required.
  - .3 Hardware sets with electrified hardware shall include an operation description, elevation drawing, and a point-to-point drawing.
- .3 Product Data:
  - .1 Submit manufacturer's instructions, printed product literature and data sheets for door hardware and include product characteristics, performance criteria, physical size, finish and limitations.
- .4 Samples: Not Applicable.
- .5 Manufacturer's Instructions: submit manufacturer's installation instructions.

## **1.03 CLOSEOUT SUBMITTALS**

- .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Operation and Maintenance Data: submit operation and maintenance data for door hardware for incorporation into manual.

## **1.04 MAINTENANCE MATERIALS SUBMITTALS**

- .1 Extra Stock Materials:
  - .1 Supply maintenance materials in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Tools:
  - .1 Supply 2 sets of wrenches for door closers and locksets.

## **1.05 QUALITY ASSURANCE**

- .1 Regulatory Requirements:
  - .1 Hardware for doors in fire separations and exit doors certified by a Canadian Certification Organization accredited by Standards Council of Canada.
- .2 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

## **1.06 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Package items of hardware including fastenings, separately or in like groups of hardware, label each package as to item definition and location.
- .4 Storage and Handling Requirements:
  - .1 Store materials in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.

- .2 Store and protect door hardware from nicks, scratches, and blemishes.
- .3 Protect prefinished surfaces with wrapping strippable coating.
- .4 Replace defective or damaged materials with new.

### **1.07 WARRANTY**

- .1 All materials and installation shall be provided with a minimum of one (1) year warranty against defects and workmanship from the date of substantial completion of the project.
- .2 Product warranties in excess of one (1) year shall be provided for the following hardware products:
  - .1 Door Closers – ten (10) years.
  - .2 Mortise Locks – ten (10) years.
  - .3 Exit Devices – five (5) years.
  - .4 Cylindrical Locks – seven (7) years.
  - .5 Electrified Hardware – two (2) years.
  - .6 Floor Closers – ten (10) years.

### **1.08 MAINTENANCE**

- .1 Service Contracts
  - .1 All low energy automatic door operators and low voltage electrified hardware shall be provided with a one (1) year maintenance and service contract provided by the installation company from the date of substantial completion of the project.
- .2 Extra Materials
  - .1 All remaining fasteners and special installation tools shall be turned over to the Owner upon substantial completion of the project.
  - .2 Clearly mark each item as to its use and applicable piece of hardware.

## **2 PRODUCTS**

### **2.01 HARDWARE ITEMS**

- .1 Use one manufacturer's products only for similar items.
- .2 The noted manufacturers are acceptable; alternates will be reviewed for compliance.

### **2.02 MANUFACTURERS**

- .1 The following list of products and manufacturer are acceptable:
  - .1 Hinges by McKinney.
  - .2 Continuous Hinges by McKinney, Markar, or Pemko.
  - .3 Pivot Hinges by Rixson.
  - .4 Floor Closers by Rixson
  - .5 Mortise locks by Sargent.
  - .6 Exit Devices by Sargent.
  - .7 Door Closers by Sargent.
  - .8 Flushbolts by Gallery Specialty Hardware.
  - .9 Kickplates, mop-plates, push plates, and armour plates by Rockwood Manufacturing.
  - .10 Overhead stops and holders by Rixson.
  - .11 Gasketing and door seals by Pemko.
  - .12 Door bottoms and automatic door bottoms by Pemko.
  - .13 Meeting stiles and astragals by Pemko.
  - .14 Thresholds by Pemko.
  - .15 Door pulls and push/pull sets by Rockwood Manufacturing.

- .16 Low Energy Automatic Door Operators by Ditec Entrematic.
- .17 Access Control accessories by Securitron.
- .18 Power Supplies by Securitron.
- .19 Electrified Hardware Harness by Tillicum.
- .20 Electric Strikes by HES.

## 2.03 MATERIALS

- .1 Screws and Fasteners
  - .1 Furnish all screws, bolts, nuts, expansion shields, special fasteners, and other fastening devices as indicated on the hardware schedule or as recommend by the manufacturer for proper installation and operation.
  - .2 Only the original fasteners as packaged by the manufacture shall be used, unless noted otherwise.
  - .3 Exposed fasteners shall match the finish of the hardware.
  - .4 Surface mounted hardware installed on hollow metal and wood doors, which are internally reinforced, should not be attached with through- bolts or sex nuts and bolts, unless noted otherwise.
- .2 Butt Hinges:
  - .1 Butt type hinges shall be TA series by McKinney.
  - .2 Butt hinges on reverse bevel locking doors shall have non-removable pins (NRP).
  - .3 Butt hinges on reverse bevel exterior doors shall be TA-NRP series by McKinney.
  - .4 Where required, electrified hinges shall be Quick Connect (QC) TA series hinge by McKinney.
  - .5 Butt hinge height sizing shall be in accordance with the following:
    - .1 Doors up to 1-3/4" thick, up to 3'0" wide, shall be 4-1/2"
    - .2 Doors up to 1-3/4" thick, over 3'0" wide, up to 4'0" wide, shall be 5"
    - .3 Doors up to 1-3/4" thick, over 4'0" wide, shall be 6"
    - .4 Doors over 1-3/4" thick, shall be 5"
  - .6 The width of butt hinges shall be sufficient to minimally clear all trim.
  - .7 Furnish one (1) pair of hinges for all doors up to 5'0" high. Furnish on additional hinge for every additional 30" of door height or fraction thereof.
  - .8 Furnish heavy weight hinges on all exterior, stairwell, and public restroom doors, unless noted otherwise in the hardware schedule.
  - .9 Continuous heavy weight hinge for all doors over 3'0" wide, unless noted otherwise in the hardware schedule
- .3 Door Bolts
  - .1 Flushbolts:
    - .1 Flushbolts shall be 500 series by Rockwood Manufacturing.
    - .2 Fire rated hollow metal doors with automatic latching flushbolts shall be 28/2900 series by Rockwood Manufacturing.
    - .3 Fire rated wood doors with automatic latching flushbolts shall be 28/2900 series by Rockwood Manufacturing.
    - .4 Furnish all flushbolts with 570 series dust proof strike by Rockwood Manufacturing.
    - .5 Furnish flushbolts in pairs (top and bottom), unless noted otherwise in the hardware schedule.
  - .2 Door Pulls:
    - .1 Door pulls shall be RM series by Rockwood Manufacturing, Black Powder.
    - .2 Furnish heavy duty mounting bolts on all sets of door pulls including through-bolt mounted and back to back mounted door pulls.

- .3 Locking Door Pulls:
  - .1 Locking door pulls shall be LP series by Rockwood Manufacturing, Black Powder.
  - .2 Furnish locking door pull as a complete set with back to back mounted door pulls with the required mounting hardware suitable for the door type.
  - .4 Furnish the required rim type cylinder with the locking door pull.
  
- .3 Locks and Latches
  - .1 Mortise Locks
    - .1 Mortise locks shall be Schlage, L Series.
    - .2 Locks shall meet or exceed the requirements of ANSI/BHMA A156.13 grade 1.
    - .3 Lock bodies shall have field reversible handing.
    - .4 Locks shall comply with UL10C and UBC 7-2 positive pressure requirements.
    - .5 Locks required for fire doors shall be listed by Underwriters Laboratories for ratings of A label (3 hours) and less, for doors up to 4'0" x 10'0" and pairs of doors 8'0" x 10'0".
    - .6 Furnish locksets with cast levers and wrought roses.
    - .7 Strikes shall be non-handed with a curved lip.
    - .8 Furnish extended lip strikes where required by frame/trim condition.
    - .9 Furnish flat lip strikes on pairs of doors with reverse bevel and over lapping astragal.
    - .10 Furnish wrought box strike cases for frames in masonry walls.
    - .11 Furnish privacy function locksets which visual occupancy indicator.
    - .12 Electrified locksets shall be 24VDC.
  - .2 Cylindrical Locks
    - .1 Cylindrical locks shall be Schlage, L lever, L rose design.
    - .2 Locks shall meet or exceed the requirements of ANSI/BHMA A156.2 Series 4000, Grade 1 with all standard trims.
    - .3 Locks shall be non-handed with bi-directional lever operation, except "G" and "Y" lever designs.
    - .4 Through-bolt mounting shall be adaptable to fit a variety of standard cylindrical lock preps.
    - .5 Locks shall comply with UL10C and UBC 7-2 positive pressure requirements.
    - .6 Locks required for fire doors shall be listed by Underwriters Laboratories for ratings of 3 hours (A Label) and less, for doors up to 4'0" (1.2m) x 10'0" (3.0m) and pairs of doors 8'0" (2.4m) x 10'0" (3.0m).
    - .7 Furnish locks with 2-3/4" backset, unless otherwise noted.
    - .8 Strikes shall be non-handed with a curved lip.
    - .9 Furnish extended lip strikes where required by frame/trim condition.
    - .10 Furnish wrought box strike cases for frames in masonry walls.
    - .11 Electrified locksets shall be 24VDC.
  
- .4 Exit Devices
  - .1 Exit devices shall be 80 series by Sargent with ETMI lever/trim design.
  - .2 Exit devices shall be certified to meet or exceed the requirements of ANSI/BHMA A156.3 Grade 1.
  - .3 Exit devices shall be listed by Underwriters Laboratories for panic and bear the UL label for life safety in full compliance with NFPA 80 and NFPA 101. Exit devices for fire labelled doors shall be UL listed as Fire Exit Hardware.
  - .4 Exit devices shall comply with UL10C and UBC 7-2 positive pressure requirements.
  - .5 Furnish exit device with metal end caps which match in finish.
  - .6 Furnish narrow stile exit devices on doors with stiles that are less than 4-1/2" in width.
  - .7 Furnish exit devices with the actuating push pad extending no less than half (1/2) the width of the door.
  - .8 Furnish all electrified exit devices with Electrolynx plug connectors.

- .9 Furnish rim type exit device on single doors.
  - .10 Where doors are swinging in pairs, where each leaf is independent, furnish surface vertical rod type exit devices.
  - .11 Where doors are swinging in pairs as dual egress, furnish surface vertical rod, less bottom rod, type exit devices.
  - .12 Furnish exit devices with only cylinder dogging where required on non-rated doors. Hex key dogging not acceptable.
  - .13 Electrified exit devices shall be 24VDC.
- .5 Door Closers
- .1 Door closers shall be 2800ST Cam Action, Black, Norton Assa Abloy
  - .2 Door closers shall comply with UL10C and UBC 7-2 positive pressure requirements.
  - .3 Door closers shall be certified to meet or exceed the requirements of ANSI/BHMA A156.4 grade 1.
  - .4 Door closers on exterior doors shall have all weather fluid.
  - .5 Door closers shall be adjustable to provide sizes one (1) through six (6).
  - .6 Door closers shall meet the requirements of ANSI A117.3 – 2003 edition Accessible and Usable Buildings and Facilities.
  - .7 Closing speed, latching speed, and back-check shall be controlled by hex key operated valves.
  - .8 Delayed action where required shall be available and controlled by a separate valve. Delayed action shall be available in addition to, not in lieu of, back-check.
  - .9 Furnish closers with covers. Closer covers shall be high impact plastic material of flame-retardant grade, secured by machine screws.
  - .10 Closers shall be non-handed.
  - .11 Closers shall have 2 pressure relief valves (opening and closing cycles).
  - .12 Furnish all special mounting plates and brackets where specified.
  - .13 Door closers are to be located on the room side of the door whenever possible.
  - .14 Furnish through bolt fasteners in all 45, 60, and 90 minute fire rated wood doors.
  - .15 Exposed fasteners shall match the finish of the closer.
  - .16 Reverse bevel exterior doors shall be provided with parallel arm closers. Closers mounted on the exterior of the building will not be accepted.
  - .17 Furnish drop plates where door top rail size is in-sufficient and/or where overhead stop/holder interferes with the mounting of the closer.
  - .18 Furnish a blade stop spacer for parallel arms where soffit has in-sufficient space for parallel arm shoe mounting.
- .6 Protection Plates
- .1 Kick-plates, push plates, mop plates, and armour plates shall be K1000 series by Rockwood Manufacturing.
  - .2 Kick-plates, push plates, mop plates, and armour plates shall have all sides bevelled and corners rounded to ensure there are no sharp edges.
  - .3 Plates shall have counter sunk screw holes, unless specified with self-adhesive tape.
  - .4 Plates shall be .050 in. thick stainless steel, unless listed otherwise.
  - .5 Kick-plates shall be 10 in. high or as listed in the hardware schedule.
  - .6 Mop plates shall be 6 in. high or as listed in the hardware schedule.
  - .7 Armour plates shall be 36 in. high or as listed in the hardware schedule.
  - .8 Width of kick-plates, mop plates, and armour plates shall be the door width less 1-1/2 in. for single doors and less 1 in. for doors swinging in pairs, unless noted otherwise in the hardware schedule.
  - .9 Push plates shall be 5 in. x 20 in. or as listed in the hardware schedule.
  - .10 Kick-plates and mop plates shall be labelled for fire rated openings where the height of the plate is greater than 16 inches.
  - .11 Where door louvers are used, the kick-plate height shall be sized accordingly.
  - .12 Furnish Philips oval undercut head screws for 0.050 in. thick plates.

- .7 Door Stops
  - .1 Overhead Stops and Holders
    - .1 Where doors swing open, with no adjacent wall, and where a floor stop will be a tripping hazard, a #1 series overhead stop and/or holder shall be used, by Rixson.
    - .2 Overhead stops and holders shall meet or exceed the requirements of ANSI/BHMA 156.8 grade 1.
    - .3 Furnish all special mounting plates and brackets where specified.
  - .2 Wall Bumpers
    - .1 Where doors swing open to adjacent walls, a wall bumper, model 240B by Gallery Specialty Hardware shall be used.
    - .2 Wall bumpers shall be concave type.
  - .3 Floor Mounted Stops
    - .1 Where doors swing open, with no adjacent wall, and where overhead stops cannot be used, a floor stop shall be used, model 209 by Gallery Specialty Hardware.
  
- .8 Thresholds and Gasketing
  - .1 Thresholds
    - .1 Thresholds shall be 171 series by Pemko.
    - .2 Threshold length shall be the clear opening of door frame.
    - .3 Threshold width shall be 5" unless noted otherwise.
    - .4 Where lower rise thresholds are required, 271 series by Pemko shall be acceptable.
  - .2 Gasketing
    - .1 Gasketing shall be 319 series by Pemko.
    - .2 Gasketing shall be provided to seal the complete length of the top and vertical edges of the door, applied to the door frame.
    - .3 Where smoke seal is required, gasketing shall be S88 series by Pemko.
  - .3 Astragals
    - .1 Astragals shall be 357 series by Pemko.
    - .2 Astragals shall be 1/8" x 2" flat steel primed or clear anodized aluminum, as listed in the hardware schedule.
  - .4 Door Bottoms
    - .1 Door bottoms shall be 315 series by Pemko.
    - .2 Doors bottom width shall be that of the door.
    - .3 Automatic door bottoms for hollow metal doors shall be 420 series by Pemko.
    - .4 Automatic door bottoms for wood doors shall be 411 series by Pemko.
  
- .9 Low Energy Automatic Door Operators
  - .1 Low Energy Automatic Door Operators shall be HA series by Ditec Entrematic.
  - .2 Actuating devices shall be 6" round stainless push button with handicap logo by Ditec Entrematic.
  - .3 Automatic Door Operators shall be in accordance with ANSI/BHMA A156.19 - Power Assist and Low Energy Operated Doors (2007).
  
- .10 Power Supplies
  - .1 Power supplies shall be BPS series by Securitron.
  - .2 Voltage/Amperage requirements shall be as listed in the hardware schedule.

- .11 Electrified Hardware Harnesses
  - .1 Harnesses shall be Molex Harnesses by Tillicum Agencies.
  - .2 Furnish Molex harnesses with all electrified hardware products. One harness shall connect the lockset/exit device to the hinge, and another harness shall connect the hinge to the junction box.
  - .3 Harness types and sizes shall be as listed in the hardware schedule.

## **2.04 FINISHES**

- .1 Hardware shall be of finishes listed in the hardware schedule.
- .2 Finish shall comply with ANSI/BHMA A156.18 –Materials and Finishes.
- .3 Finishes shall be as follows:
  - .1 Fire rated door hinges, steel base metal, 613
  - .2 Interior hinges, brass base metal, 613
  - .3 Exterior hinges, steel base metal, 613 x CPC
  - .4 Locks and latches, 626
  - .5 Exit devices, 613BE
  - .6 Closers, 693
  - .7 Protection plates, 613BE
  - .8 Astragals, steel, 600
  - .9 Astragals, aluminum, 719
  - .10 Flushbolts, 613BE
  - .11 Wall/Floor stops, 613BE
  - .12 Overhead stops, 613BE
  - .13 Thresholds, dark bronze anodized
  - .14 Door bottoms, dark bronze anodized
  - .15 Gasketing, Black
  - .16 Low Energy Automatic Door Operators, 613
  - .17 Dutch Door Bolts, 613BE
  - .18 Emergency Rescue Hardware, 613BE
- .4 On hardware which is on the exterior side of the door including hinge barrels, exit device trims, door pulls, and locksets; furnish clear powder coat finish over the specified finish.

## **2.0 KEYING**

- .1 Project shall be master keyed and construction keyed.
- .2 Project shall be sub-master keyed for (1) transient area and (2) 3-bedroom unit.
- .3 All keys and cylinders shall be Schlager.
- .4 Construction key shall be lost ball system by Schlager.
- .5 All keys shall be of nickel silver material.
- .6 Furnish 6 construction keys.
- .7 Furnish 2 change keys per cylinder.
- .8 Furnish 6 master keys.
- .9 Furnish 3 transient area sub-master keys and 3 3-bedroom unit sub-master keys.

## **3 EXECUTION**

### **3.01 INSTALLATION**

- .1 Manufacturer's Instructions: comply with manufacturer's written recommendations, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

- .2 Supply metal door and frame manufacturers with complete instructions and templates for preparation of their work to receive hardware.
- .3 Supply manufacturers' instructions for proper installation of each hardware component.
- .4 Install hardware to standard hardware location dimensions in accordance with CSDFMA Canadian Metric Guide for Steel Doors and Frames (Modular Construction).
- .5 Where door stop contacts door pulls, mount stop to strike bottom of pull.
- .6 Install key control cabinet.
- .7 Use only manufacturer's supplied fasteners.
  - .1 Use of "quick" type fasteners, unless specifically supplied by manufacturer, is unacceptable.
- .8 Remove construction cores and locks when directed by Departmental Representative.
  - .1 Install permanent cores and ensure locks operate correctly.

### **3.02 ADJUSTING**

- .1 Adjust door hardware, operators, closures and controls for optimum, smooth operating condition, safety and for weather tight closure.
- .2 Lubricate hardware, operating equipment and other moving parts.
- .3 Adjust door hardware to ensure tight fit at contact points with frames.

### **3.03 CLEANING**

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
  - .1 Leave Work area clean at end of each day.
  - .2 Clean hardware with damp rag and approved non-abrasive cleaner, and polish hardware in accordance with manufacturer's instructions.
  - .3 Remove protective material from hardware items where present.
  - .4 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.

### **3.04 DEMONSTRATION**

- .1 Keying System Setup and Cabinet:
  - .1 Set up key control system with file key tags, duplicate key tags, numerical index, alphabetical index and key change index, label shields, control book and key receipt cards.
  - .2 Place file keys and duplicate keys in key cabinet on their respective hooks.
  - .3 Lock key cabinet and turn over key to Departmental Representative.
- .2 Maintenance Staff Briefing:
  - .1 Brief maintenance staff regarding:
    - .1 Proper care, cleaning, and general maintenance of projects complete hardware.
    - .2 Description, use, handling, and storage of keys.
    - .3 Use, application and storage of wrenches for door closers and locksets.
- .3 Demonstrate operation, operating components, adjustment features, and lubrication requirements.

### 3.05 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by door hardware installation.

### 3.06 OPENING LIST

Opening	Hdw Set	Fire Rating	Door Material	Frame Material
D1	1.0		Insulated Metal	Thermally Broken Metal
D2	2.0		Insulated Metal	Thermally Broken Metal
D3	3.0	45	Wood Solid	Metal
D4	4.0	45	Wood Solid	Metal
D5	5.0	45	Wood Solid	Metal
D6	5.0	45	Wood Solid	Metal
D7	6.0		Wood Solid	Metal
D8	7.0		Insulated Metal	Thermally Broken Metal

### 3.07 FINISH LIST

<u>Code</u>	<u>Description</u>
630	Satin Stainless Steel
US26D	Satin Chromium
US26D	Brass Satin Chrome Plated
US26D	Satin Chromium Plated
EN	Powder Coated to match US28

### 3.08 MANUFACTURER LIST

<u>Code</u>	<u>Name</u>
FL	Fleming
HS	HES
MK	McKinney
OT	Other
PE	Pemko
RO	Rockwood
SA	SARGENT
SU	Securitron

**3.09 SCHEDULE**

Set 1.0: Doors: D1

1 Continuous Hinge	CFM79HD1	PE
1 Entry/Office Lock	7G05 LL	US26D
1 Surface Closer	351 CPS	EN SA
1 Threshold	253x3AFG	PE
1 Gasketing	312CR	PE
1 Sweep	18062CNB	PE
1 Astragal	357SS 84"	PE

Set 2.0: Doors: D2

1 Continuous Hinge	CFM79HD1	PE
1 Entry/Office Lock	7G05 LL	US26D
1 Power Door Operator	DAB105	
1 Threshold	253x3AFG	PE
1 Gasketing	312CR	PE
1 Sweep	18062CNB	PE
1 Astragal	357SS 84"	PE

Set 3.0: Doors: D3

1 Continuous Hinge	CFM79HD1	PE
1 Surface Closer	351 UO	EN SA
1 Passage Latch	U15 LL	US26D SA
1 Wall Stop	441H	US26D RO
1 Gasketing	S773BL 17'	PE

Set 4.0: Doors: D4

1 Continuous Hinge	CFM79HD1	PE
1 Power Door Operator	DAB105	
1 Passage Latch	U15 LL	US26D SA
1 Floor Stop	406	US26D RO
1 Gasketing	S773BL 17'	PE

Set 5.0: Doors: D5, D6

1 Continuous Hinge	CFM79HD1	PE
1 Surface Closer	351 UO	EN SA
1 Passage Latch	U15 LL	US26D SA
1 Wall Stop	406	US26D RO
1 Gasketing	S773BL 17'	PE

Set 6.0: Doors: D7

1 Continuous Hinge	CFM79HD1	PE
1 Privacy Latch	7G15 LL	US26D
1 Wall Stop	441H	US26D RO
1 Gasketing	S773BL 17'	PE

Set 7.0: Doors: D8		
1 Continuous Hinge	CFM79HD1	PE
1 Surface Closer	351 CPS	EN SA
1 Storeroom Lock	7G04 LL	US26D
1 Threshold	253x3AFG	PE
1 Astragal	357SS 84"	PE
1 Wall Stop	406	US26D RO
Set 8.0: Doors: D9, D10		
2 Door Pulls	RM720	US26D

**END OF SECTION**