

1 GENERAL

1.1 General Requirements

- .1 All requirements of the Contract apply to and govern all work of this Section.
- .2 Comply with the requirements of Division 1.

1.2 Related Work Specified in Other Sections

- 1 Metal Doors and Frames Section 08 11 00
- .2 Wood Doors Section 08 14 00

1.3 Standards Referred to in this Section

- .1 Canadian Steel Door and Frame Manufacturers' Association (CSDFMA).
 - .1 CSDFMA Canadian Metric Guide for Steel Doors and Frames (Modular Construction): standard hardware location dimensions - 2009.

1.4 Quality Assurance and Extended Guarantees

- .1 Hardware for doors in exit doors certified by a Canadian Certification Organization accredited by Standards Council of Canada.
- .2 Supplier shall be responsible for the administration and servicing of the hardware contract by personnel with suitable qualifications and experience related to this type of work.
- .3 Requirements of Regulatory Agencies : meet applicable requirements of the National Building Code of Canada.
- .4 Hardware locations and mounting heights : confirm locations and mounting heights prior to preparation of doors and frames.
- .5 Confirm review of submitted hardware schedule prior to purchase.
- .6 The hardware supplier shall fully guarantee all hardware for a period of one (1) year from the date of acceptance of the installation. The guarantee shall state expressly that all moving parts of locks, closers, panic sets, etc., will be replaced in part or in whole at no cost to the Departmental Representative in the event of breakage or other defect occurring, willful damage excluded. Submit a written guarantee to this effect.

1.5 Specific Handling and Transportation Requirements

- .1 Store finishing hardware in locked, clean and dry area.

- .2 Deliver, store, handle and protect materials in accordance with manufacturers' instructions.
- .3 Package each item of hardware including fastenings, separately or in like groups of hardware, label each package as to item definition and location.
- .4 Final cores and keys to be shipped to Departmental Representative direct.

1.6 Submittals

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Samples: Not required.
- .3 Hardware List:
 - .1 Submit contract hardware list in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Indicate specified hardware, including make, model, material, function, size, finish and other pertinent information.
- .4 Manufacturer's Instructions:
 - .1 Submit manufacturer's installation instructions.

1.7 Closeout Submittals

- .1 Operation and Maintenance Data
 - .1 Provide operation and maintenance data for door closers, locksets, door holders, electrified hardware and for incorporation into manual specified in Section 01 78 00 - Closeout Submittal.
- .2 Extra Materials
 - .1 Provide maintenance materials in accordance with Section 01 78 00 - Closeout Submittals.
 - .2 Supply two sets of wrenches for door closers, locksets and fire exit hardware.

1.8 Specific Environmental Requirements

- .1 No specific requirements.

1.9 Specific Protection Requirements

- .1 No specific requirements.

2 PRODUCTS

2.1 Hardware Items

- .1 Use one manufacturer's products only for similar items. All hardware items are to be as per hardware list.

2.2 Door Hardware

- .1 Acceptable manufacturers:
 - .1 Hinges Hager
 - .2 Cylinders to match existing
 - .3 Locksets Schlage
 - .4 Closers LCN
 - .5 Kickplates General
 - .6 Pulls, Plates, Stops General
 - .7 Bottoms Draft Seal
 - .8 Seals Draft Seal

2.3 Fastening

- .1 Use only fasteners provided by manufacturer. Failure to comply may void warranties and applicable licensed labels.
- .2 Supply screws, bolts, expansion shields and other fastening devices required for satisfactory installation and operation of hardware.
- .3 Exposed fastening devices to match finish of hardware.
- .4 Use fasteners compatible with material through which they pass.

2.4 Keying

- .1 Doors, cabinet locks to be keyed differently and master keyed. as directed. Prepare detailed keying schedule in conjunction with Departmental Representative. Keying to be separate from existing GMK.
- .2 Provide keys in duplicate for every lock in this Contract.
- .3 Provide three masterkeys for each MK group. Stamp " Do not Duplicate".
- .4 Stamp keying code numbers on keys and cylinders. Provide tags.

3 EXECUTION

3.1 Installation

- .1 Install hardware to standard hardware location dimensions in accordance with Canadian Metric Guide for Steel Doors and Frames (Modular Construction) prepared by Canadian Steel Door and Frame Manufacturers' Association.
- .2 Use only manufacturer's supplied fasteners. Failure to comply may void manufacturer's warranties and applicable licensed labels. Use of "quick" type fasteners, unless specifically supplied by manufacturer, is unacceptable.

3.2 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 provide tight fit at contact points with frames.

3.3 Cleaning

- .1 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .2 Clean hardware with damp rag and approved non-abrasive cleaner, and polish hardware in accordance with manufacture's instructions.
- .3 Remove protective material from hardware items where present.

3.4 Demonstration

- .1 Keying System Setup:
 - .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 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.

3.5 Schedule

Heading # 1

3-Hinges

AB700 114 X 101 X US26D

1-Lockset	3880-SECT-US32D-ARC-SCC
1-Electric Strike	2930-Mor-Voltage-US32D
1-Closer	5100-ALM-HDS
1-Kickplate	K10A 250 X 860 X US32D
1-Card Reader	By Security
1-Power Supply	By Security

Heading # 2

3-Hinges	AB700 114 X 101 X US26D
1-Passage	3810-SECT-US32D-ARC-SCC
1-Kickplate	K10A 250 X 860 X US32D
1-Stop	S102L X US26D

Heading # 3

3-Hinges	AB700 114 X 101 X US26D X NRP
1-Passage	3810-SECT-US32D-ARC
1-Kickplate	K10A 250 X 860 X US32D
1-Stop	S102L X US26D
1-Seal	726 1/914 X 2/2134
1-Door Bottom	740S X 914

Heading # 4

3-Hinges	AB700 114 X 101 X US26D
1-Lockset	3880-SECT-US32D-ARC-SCC
1-Closer	5100-MLT-ALM
1-Kickplate	K10A 250 X 860 X US32D
1-Stop	S102L X US26D

3.6 Hardware Headings

Door Number	Hardware Heading
202	1

203	2
205	3
206	2
210	2
250a	1
250b	1
251	4
253	2
254	2
255	1
256	1

3.7 Reused Hardware

- .1 Reused lockset and passage set required function codes are indicated in hardware headings.

END OF SECTION