

The Executed Agreement including General Conditions and Supplementary Conditions, Division 01, applicable Drawings and amendments are part of and are to be read in conjunction with this Section.

PART 1 - GENERAL

1.1 SUMMARY OF THIS SECTION

- .1 As summarized and described herein but, not restricted to the following:
 - .1 Supply and installation of hardware packages as noted on door schedule. Include certificate of the complete installation at job completion.

1.2 REFERENCE STANDARDS

- .1 Standard hardware location dimensions in accordance with Canadian Metric Guide for Steel Doors and Frames (Modular Construction) prepared by Canadian Steel Door and Frame Manufacturer's Association.

1.3 REQUIREMENTS OF REGULATORY AGENCIES

- .1 Use listed and labelled hardware for doors in fire separations and exit doors.

1.4 SAMPLES

- .1 Submit samples of each type hardware specified, in accordance with Section 01 33 00.
- .2 Identify each sample by label indicating applicable specification paragraph number, brand name and number, finish and hardware package number.

1.5 HARDWARE LIST

- .1 Submit hardware schedule in accordance with Section 01 33 00.
- .2 Indicate hardware proposed, including make, model, material, function, finish and other pertinent information.

1.6 MAINTENANCE DATA

- .1 Provide maintenance data, parts list, and manufacturer's instructions for door closers locksets, door holders, and fire exit hardware for incorporation into maintenance manual specified in Section 01 77 00.
 - .2 Brief maintenance staff regarding proper care, cleaning, and general maintenance.
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1.7 MAINTENANCE MATERIALS

- .1 Supply two sets of wrenches for door closers, locksets and fire exit hardware.

1.8 DELIVERY AND STORAGE

- .1 Store finishing hardware in locked, clean and dry area.
- .2 Package each item of hardware including fastenings, separately or in like groups of hardware, label each package as to item definition and location.

1.9 QUALITY ASSURANCE

- .1 Ensure an authorized Hardware Consultant prepares the Hardware Schedule and inspects the installed product to ensure the supply/installation is provided within strict accordance to manufacturer's instructions and all regulatory authorities having jurisdiction.

PART 2 - PRODUCTS

2.1 HARDWARE ITEMS

- .1 All numbers and symbols used in the preparation of the hardware specification have been taken from the current catalogues of the specified manufacturers.
- .2 Alternate products will be considered during tender period, manufacturer must ensure any substitution will fully complement and/or equal the hardware specified. Supplier will be responsible for all coordination and templating dimensions to ensure function intended.

2.2 FASTENINGS

- .1 Supply screws, bolts, expansion shields and other fastening devices required for satisfactory installation and operation of hardware.
 - .2 Exposed fastening devices to match finish of hardware
 - .3 Where pull is scheduled on one side of door and push plate on other side, supply fastening devices and install so pull can be secured through door from reverse side. Install push plate to cover fasteners.
 - .4 Use fasteners compatible with material through which they pass.
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2.3 KEYING

- .1 Keying for this project will be keyed as follows:
 - .1 Two (2) Grand Masters.
 - .2 Two (2) keys for all doors

PART 3 - EXECUTION

3.1 INSTALLATION INSTRUCTIONS

- .1 Furnish metal doors and frame manufacturers with complete instructions and templates for preparation of their work to receive hardware.
- .2 Furnish manufacturers' instructions for proper installations of each hardware component.
- .3 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.
- .4 At completion of project, hardware supplier shall inspect the hardware installation and when satisfied shall provide to the General Contractor a written statement that the equipment has been properly installed and is functioning as intended.
- .5 Accept delivery of all finishing hardware, and be responsible for safe storage, issuing and ultimate installation under this or other sections.
- .6 Accurately locate and adjust hardware to meet manufacturer's instructions. Use special tools and jogs as recommended.
- .7 Locate top hinges with top 5" below door top, bottom hinges with bottom 10" from floor, and intermediate hinges equidistant between top and bottom hinges.
- .8 Locate door stops to contact doors 3" from latch edges.
- .9 Install hardware and trim square and plumb to doors.
- .10 Replace missing hardware to ensure specified installation at time of building completion.
- .11 After installation, replace wrappings for hardware provided by manufacturer.
- .12 Safeguard keys to keep them out of unauthorized hands, tag them with opening number, and deliver them to Department Manager at building completion

3.2 HARDWARE LEGEND

Hinges (Stanley);

H1	Stainless Steel	FBB191	4 ½ x 4
H2	Steel	FBB179	4 ½ x 4

Locks & Latches (Best);

Cylindrical, Grade 1, 93K

L1	15C trim	Storeroom, D	626
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Closers (Stanley);

C1	Heavy Duty	D-4550	689
C2	Medium Duty	D3551	

Stops & Holders (CDH);

S1	Convex	CDH253	32D
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Thresholds & Gasket (National Guard);

Thresholds

W1	w/Stop	4425 x WS2N	719
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Gasket

W2	x jambs & header	5050	C
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3.3 HARDWARE SETS

Set 1 - External Exit Door:

H1, L1, C1, W1, W2.

Set 2 - Internal Door:

H2, L1, C2, S1

END OF SECTION