

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 01 45 00 - Quality Control.
- .3 Section 01 78 00 - Closeout Submittals.

1.2 REFERENCES

- .1 American National Standards Institute (ANSI) / Builders Hardware Manufacturers Association (BHMA)
 - .1 ANSI/BHMA A156.1-2006, American National Standard for Butts and Hinges.
 - .2 ANSI/BHMA A156.2-2011, Bored and Preamsembled Locks and Latches.
 - .3 ANSI/BHMA A156.4-2013, Door Controls - Closers.
 - .4 ANSI/BHMA A156.6-2010, Architectural Door Trim.
 - .5 ANSI/BHMA A156.8-2010, Door Controls - Overhead Stops and Holders.
 - .6 ANSI/BHMA A156.13-2012, Mortise Locks and Latches Series 1000.
 - .7 ANSI/BHMA A156.18-2012, Materials and Finishes.
- .2 Canadian Steel Door and Frame Manufacturers' Association (CSDMA)
 - .1 CSDMA Recommended Dimensional Standards for Commercial Steel Doors and Frames - 2009.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 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.
- .3 Hardware List:
 - .1 Submit contract hardware list.
 - .2 Indicate specified hardware, including make, model, material, function, size, finish and other pertinent information.
- .4 Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties.
- .5 Manufacturer's Instructions: submit manufacturer's installation instructions.

1.4 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.

1.5 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.

1.6 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.

1.7 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 off ground, indoors in dry location and 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 strippable coating.
 - .4 Replace defective or damaged materials with new.

Part 2 Products

2.1 HARDWARE ITEMS

- .1 Use one manufacturer's products only for similar items.

2.2 DOOR HARDWARE

- .1 As per drawings, Hardware groups and Door Schedule.
- .2 Door Closers and Accessories:
 - .1 Door controls (closers): to ANSI/BHMA A156.4, listed in Hardware Schedule, size in accordance with ANSI/BHMA A156.4, table A1, finish as indicated.
 - .2 Door controls - overhead holders: to ANSI/BHMA A156.8, listed in Hardware Schedule, finish as indicated.
 - .3 Closer/holder release devices: to ANSI/BHMA A156.15, listed in hardware schedule, finish as indicated.

- .3 Door Operators:
 - .1 Power-operated pedestrian doors: to ANSI/BHMA A156.10.
 - .2 Power assist and low energy power operated doors: to ANSI/BHMA A156.19.

2.3 FASTENINGS

- .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 Prepare keying schedule in conjunction with Departmental Representative.
- .2 Supply construction locks.
- .3 Permanent cores and keys to be by Departmental Representative.

Part 3 Execution

3.1 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 Use only manufacturer's supplied fasteners.
 - .1 Use of "quick" type fasteners, unless specifically supplied by manufacturer, is unacceptable.
- .6 Remove construction locks when directed by Departmental Representative.
 - .1 Install permanent cores and ensure locks operate correctly.

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 ensure tight fit at contact points with frames.

3.3 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.

3.4 DEMONSTRATION

- .1 Demonstrate operation, operating components, adjustment features, and lubrication requirements.

3.5 PROTECTION

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

3.6 SCHEDULE

Group: 1

1 Opening: D102, D014, D015

Qty (Active)	Description	Catalog	Product Code	Finish (BHMA)	Finish (ANSI)	Remarks
1	Top Jamb Mount Closer	LCN (CAD)	9542 REG AL {Hand}		CAL	
2	Actuator, Wall Mount	LCN (CAD)	8310-3856WS AL		CAL	
1	Receiver	LCN (CAD)	8310-865 AL		CAL	
1	Stop Only	Glynn-Johnson (CAD)	104S C32D		C32D	

Group: 2

1 Opening:
D107

Qty (Active)	Description				
1	Deadbolt Function	Schlage (CAD)	B560	626	

END OF SECTION

DOOR SCHEDULE

N/E	NO.	LOCATION	DOOR		FRAME				ULC		HDWE	NOTES
			NOM.	SIZE	TYPE	MAT.	CORE	FIN.	GLS.	GLS.	RATING	
	D102	WASHROOM 102	EX		HM-EX	EX	EX	PT	-	-	1	1,2
	D104	WASHROOM 104	EX		HM-EX	EX	EX	PT	-	-	1	1,2
	D105	UNIV. WASH. 105	EX		HM-EX	EX	EX	PT	-	-	1	1,2
	D106	MECH RM 106	EX		HM-EX	EX	EX	PT	-	45min	-	1
	D107	STORAGE 107	EX		HM-EX	EX	EX	PT	-	-	2	1,3
	D108	STAFF ROOM 108	EX		HM-EX	EX	EX	PT	-	-	-	1

NOTES

- 1 Re-paint existing door and frame. Refer to 2/A05 for colour.
- 2 Provide new auto-door operator in existing door. Prepare door and frame as required.
- 3 Prepare door and frame for new deadbolt as required.

GENERAL NOTES

- 1 Prepare and provide new paint finish for all existing pressed steel frames.
- 2 General Contractor to ensure all existing door hardware being re-used is in proper working order and free of damage.
- 3 General Contractor to install construction cylinders/keyways during construction. Final cylinders/keyways by Departmental Representative.

LEGEND

EX Existing
HM Hollow Metal
HM-EX Hollow Metal, Existing
PT Paint
ST Steel
WM-EX Welded steel frame, Existing