

PART 1 – GENERAL

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|---|----|---|-------------------|
| 1.1
Range of works | 1. | Supply and installation of hardware for required doors. | |
| 1.2
Related Works | 1. | Steel doors and frames | Section 08 11 14E |
| | 2. | Glazing | Section 08 80 50E |
| 1.3
Reference standards | 1. | Normal installation of hardware pieces must be as per requirements of Canadian metric Guide for Steel Doors and Frames (Modular Construction) prepared by Canadian Steel Door and Frame Manufacturers' Association. | |
| 1.4
Requirements from regulatory organism | 1. | Use hardware pieces approved and labeled by ULC for fireproof doors and emergency exits. | |
| 1.5
Shop drawings | 1. | Submit shop drawings as per Section 01 33 00E. | |
| | 2. | Clearly indicate construction details, forms of components, assembly and fastening mode or any other pertinent detail. | |
| 1.6
Hardware list | 1. | Submit a list of hardware pieces as prescribed in Section 01 78 00E. | |
| 1.7
Maintenance material | 1. | Provide two (2) sets of wrenches necessary for closed door locks and accessories for emergency exits. | |
| 1.8
Delivery and storage | 1. | Store finishing pieces of hardware in clean, dry, locked room. | |
| | 2. | Wrap separately or by group each similar piece of hardware and label each bundle as to their nature and placement of the piece. | |
| 1.9
Scheduling | 1. | Work carried out in two phases, see drawings limits. | |
| | 2. | Scheduling, see section 01 32 18E and directive Ministerial representative. | |
| | 3. | The place of work is within an occupied building. | |
| 1.10
Guarantee | 1. | Provide a certificate of guarantee, signed and issued on behalf of the Ministerial representative, stating that all the works in this section are warranted against defects for a period of five (5) years from the date of signature of the certificate of provisional acceptance work. Comply with section 01 78 00E. | |

PART 2 – PRODUCTS

- 2.1**
Hardware pieces
1. Only door checks and sets of locks and bolts being on the list of approved products given by ONGC will be acceptable for the present works.
 2. Use product coming from same manufacturer for pieces of same nature.
- 2.2**
Qualities
1. All hardware, not otherwise specified will be of typical template. Give to frame and door manufacturer templates, patterns and all other required information for preparation of frames and doors. Give to manufacturer of fireproof doors, all pieces that must be inserted or fixed into these doors, if need be.
 2. All sliding bolts, dead-bolts, auxiliary bolts, faces, locks and followers, latches, cylinders, cylinder necks, latches, door pull plates, pull handles, mechanisms, coordinators, bolts, door stopper, stoppers or door holders and close door arms will be made of aluminum.
 3. Buttons, rosaces, headstall or plates and lock striking plates, bolts cases for emergency doors will be brass or bronze.
 4. Lock cases will be of cast iron and mechanism will rust resistant steel. Protective boxes for striking plates will be made of pressed steel.
 5. Keys will be made of a nickel-silver alloy.
- 2.3**
Finish
1. Unless stated otherwise, all apparent finishing hinges will be chrome satin plated as per 626/652 standard. Hinges will be made of stainless steel. Pull handles, push and foot plates will be in stainless steel, finish 630. Boxes for close-doors will have a natural anodized finish 628.
 2. For interior doors:
 - 2.1 Locks and bolts, morise type. Reference: Series 8200 by Sargent.
- 2.4**
Hardware pieces for doors
1. For list and description of all door hardware pieces, refer to inserted charts on architectural Drawings.
 2. For all hardware added to existing doors, see specific notes and annotations on architectural Drawings.
 3. Functions:
 - 3.1 Entrance or office door lock – function 301 D. Cylinder by exterior button. Blocking devise inside. Manual unlocking.
 - 3.2 Entrance or office door lock – function 302 D. Cylinder in exterior button. Blocking devise inside. Automatic unlocking.
 - 3.3 Entrance or office door lock – function 303 D. Cylinder in interior and exterior buttons.
 - 3.4 Warehouse lock – function 304 D. Cylinder in exterior button.
 - 3.5 Washroom lock – function 309 D. Without cylinder. Blocking devise from inside.

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Emergency unlocking mechanism from outside.

- 3.6 Corridor lock – function 311. Without cylinder
- 3.7 Emergency door lock. Without cylinder.
- 3.8 Classroom lock – function 315 D. Cylinder in exterior button.
- 3.9 Private room door lock and /or dormitory – function 317D. Key locks and unlocks from outside. Interior press-button-is disengaged by turning button or by closing door.

**2.5
Fastening devices**

- 1. Provide screws, bolts, expansible plugs and other fixation devices necessary to fix hardware properly and for the good order of hardware pieces.
- 2. Apparent fixation devices must be assorted to hardware pieces finish.
- 3. Where a traction handle is needed on one of the faces and a push plate, on the other face of door, provide fixation pieces needed to install in a manner that handle is fixed on both sides of door. Install push plate to hide fixations.
- 4. Use fixation pieces made of compatible material with the one they are passing through.

PART 3 – WORK

**3.1
Installation instruction**

- 1. Provide complete instructions and installation templates essential to metal door and frame manufacturer to allow them for preparation of their products to receive anticipated hardware pieces.
- 2. Each hardware piece must be accompanied with installation instruction from manufacturer.
- 3. Install hardware pieces in normal positions as per requirements of Canadian Metric Guide for Steel Doors and Frames (Modular Construction) prepared by the Canadian Steel Door and Frame Manufacturers' Association.
- 4. If door stopper must touch tie-rod, install stopper so it touches the lower part or the tie-rod.

**3.2
Schedule**

- 1. See hardware schedule, frames and doors on general drawings.

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