

PART 1 -
GENERAL

- 1.1 SECTION INCLUDES
- .1 Furnish, deliver and install all finish hardware necessary for all doors as specified and listed in the Hardware Groups and as indicated and required by project site conditions.
 - .2 Mechanical hardware shall include the furnishings of all necessary screws, bolts, expansion shields, mounting plated and all other devices required for the proper application of the hardware.
- 1.2 RELATED SECTIONS
- .1 Section 08 11 00 – Doors
- 1.3 REFERENCES
- 1. ANSI/BHMA A156.1, Butts and Hinges.
 - 2. ANSI/BHMA A156.2 - Standard for Bored and Preamsembled Locks & Latches.
 - 3. ANSI/BHMA A156.3 - Standard for Exit Devices.
 - 4. ANSI/BHMA A156.4 - Standard for Door Controls - Closers.
 - 5. ANSI/BHMA A156.5 - Standard for Auxiliary Locks and Associated Products.
 - 6. ANSI/BHMA A156.6 - Architectural Door Trim.
 - 7. ANSI/BHMA A156.8 - Door Controls - Overhead Holders.
 - 8. ANSI/BHMA A156.13 - Standard for Mortise Locks and Latches.
 - 9. ANSI/BHMA A156.15 - Life Safety Closer/Holder/Release Devices.
 - 10. ANSI/BHMA A156.16 - Auxiliary Hardware.
 - 11. ANSI/BHMA A156.18 - Materials and Finishes.
 - 12. ANSI A156.19 - Standard for Power Assist and Low Energy Power Operated Doors.
 - 13. ANSI A156.23 - Standard for Electromagnetic Locks
 - 14. ANSI A156.24 - Standard for Delayed Egress Locks
 - 15. ANSI A156.25 - Standard for Electrified Locking Devices
 - 16. ANSI A156.28 - Standard for Keying Systems
 - 17. ANSI A156.29 - Standard for Exit Locks and Alarms, Exit Locks with Exit Alarms and Alarms for Exit Devices
 - 18. ANSI A115.IG - Installation guide for Doors and Hardware.
 - 19. National Building Code Canada.
 - 20. National Fire Code Canada.
 - 21. NFPA 80 - Standard for Fire Doors, Fire Windows.
 - 22. NFPA 101 - Life Safety Code
 - 23. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies.
- 1.4 PERFORMANCE REQUIREMENTS
- 1. Fire Rated Openings: Provide door hardware listed by UL or Intertek Testing Services (Warnock Hersey Listed), or other testing laboratory approved by applicable authorities.
 - 1. Comply with NFPA 80 for fire ratings indicated, based on testing according to NFPA 252.
 - 2. Comply with UL10C, Positive Pressure Fire Tests of Door Assemblies.

2. Accessibility Requirements: Comply with requirements of the National Building Code Canada as well as any local building codes, and Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities.

1.5 QUALITY
ASSURANCE

1. Manufacturer Qualifications: A manufacturer with a minimum of ten years experience manufacturing door hardware.
2. Supplier Qualifications: A supplier with a minimum of two years demonstrated experience in the sale and distribution of builders' hardware for commercial projects

1.6 DELIVERY,
STORAGE
AND
HANDLING

1. Package hardware items individually with necessary fasteners and installation templates when necessary; label and identify each package with door opening code to match hardware schedule.
2. Store products in manufacturer's unopened packaging until ready for installation.
3. Protect materials from exposure to moisture. Do not deliver until after wet work is complete and dry.
4. Store materials in a dry, warm, ventilated weather tight location.

1.7 PROJECT
CONDITONS

1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 WARRANTY

1. Provide a written contractors warranty for work on this section for one (1) year dated from substantial completion certificate.
2. Provide factory warranty against defects in material and workmanship as follows:
 1. Overhead Surface Closers, Grade 1, 25 Year Warranty.
 2. Floor Closers 25 Year Warranty.
 3. Mortise locks, Grade 1, 10 Year Warranty.
 4. Cylindrical locks, Grade 1, 10 Year Warranty.
 5. Interchangeable Cylinders, 2 Year Warranty.
 7. Electrical components 5 Year Warranty.

1.9 MAINTENAN
CE
MATERIALS

1. Provide special wrenches and tools applicable to each different or special hardware component
2. Provide all maintenance materials as listed in Sections for Closeout Submittals.

1.10 COORDIN
ATION

1. Coordinate work with other directly affected components involving manufacture or fabrication of internal reinforcement for door hardware and recessed items.
2. Coordinate work with other directly affected components involving electrical wiring and components.

PART 2 - PRODUCT

2.1 1. Provide the following hardware groups, as indicated :

DOOR

HARDWARE

SCHEDULE

OPENING ED1, ED2

1-HMF 3-0X7-0, WELDED, JAMB DEPTH AND ANCHORING TO SUIT
1-FRP DOOR, AMBICO SL-19 FLUSH, AMP WOOD GRAIN,
(STAIN COLOR AS REQUESTED BY ARCHITECT)
3-HINGES, PBB BB21 4-1/2 X 4 NRP 626
1-DOOR PULL, CBH 7018-1 26D
1-PUSH PLATE, CBH P/M1 (MALE), P/W2 (FEMALE) 26D (4X16)
1-DEADBOLT, DORMA DB863C (BEST KEYWAY) 626
1-DOOR CLOSER, DORMA 8616 AF86P 689 (PUSH SIDE MOUNT)
1-KICKPLATE, CBH 901 26D (10 X SIZED TO SUIT)
1-WALL STOP, CBH 140 26D

OPENING D1

1-HMF 3-0X7-0, WELDED, JAMB DEPTH AND ANCHORING TO SUIT
1-FRP DOOR, AMBICO SL-19 FLUSH, AMP WOOD GRAIN
(STAIN COLOR AS REQUESTED BY ARCHITECT)
3-HINGES, PBB BB21 4-1/2 X 4 NRP 626
1-PRIVACY LATCH, DORMA M9996C (BEST KEYWAY) LRC 626
1-DEADBOLT, DORMA DB863C (BEST KEYWAY) 626
1-OH STOP, DORMA 912S 689
1-KICKPLATE, CBH 901 26D (10 X SIZED TO SUIT)
1-THRESHOLD, DRAFTSEAL DS5000 (SIZED TO SUIT)
1-DOOR SEALS, DRAFTSEAL DS130C (SIZED TO SUIT)
1-DOOR SWEEP, DRAFTSEAL DS148C (SIZED TO SUIT)
1 GRAPHIC SIGN - UNIVERSAL SHOWER - AS PER DRAWING

OPENING D2, D3

1-HMF 3-0X7-0, WELDED, JAMB DEPTH AND ANCHORING TO SUIT
1-FRP DOOR, AMBICO SL-19 FLUSH, AMP WOOD GRAIN, ALUMINUM
STYLE AND RAILS, WITH VISION LITES, NATURAL STAIN COLOR
AS REQUESTED BY ARCHITECT.
3-HINGES, PBB BB21 4-1/2 X 4 NRP 626
1-PRIVACY LATCH, DORMA M9996C (BEST KEYWAY) LRC 626
1-WALL STOP, CBH 140 26D
1- COAT HOOK, CBH 65 26D
1-GRAPHIC SHOWER SIGN AS PER DRAWING

PART 3 -
EXECUTION

- 3.1
EXAMINATION
1. Do not begin installation until substrates have been properly prepared.
 2. Verify doors and frames are ready to receive door hardware and dimensions are as indicated on shop drawings.
 3. Verify electric power is available to power operated devices and is of correct characteristics.
 4. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- 3.2
INSTALLATION
1. Install in accordance with manufacturer's instructions.
 2. Coordinate mounting heights with door and frame manufacturers. Use templates provided by hardware item manufacturer.
 3. Install with fasteners provided by hardware item manufacturer.
 4. Adjust hardware for smooth operation.
 5. Keying by Department Representative (Best).
- 3.3 CLEANING
1. Perform cleaning after installation to remove construction and accumulated environmental dirt and debris.
 2. Clean hardware as instructed by manufacturer and remove any protective materials from hardware items.
- 3.4 PROTECTION
1. Protect installed products until completion of project.
 2. Touch-up, repair or replace damaged products before Substantial Completion.