

**DIVISION 08 – OPENINGS****08 11 13 – Metal Doors and Frames**

1. Door frames shall be painted to match wall on which it is installed unless noted otherwise. Reference Division 09 91 23 for door and frame paint comments.
2. In renovation projects, door frames and panels shall receive fresh coat of paint, color as noted by RIT Planning and Design or construction drawings.

**08 11 16 – Aluminum Doors and Frames**

1. Sections acts as reference for furniture standards for full height architectural wall systems.
2. Warranty Period: 10 years from date of substantial completion.
3. Interior Glazed Aluminum Curtain Walls
  - a. Basis of Design: EFCO Series 401 framing; EFCO D200 or D300 Stile doors. Kawneer substitution subject to approval by RIT.
4. Interior Fire-Rated Glazed Aluminum Curtain Walls
  - a. Basis of Design: TGP “Fireframes” frame system with wide-stile Designer Series doors and “Pilkington Pyrostop” glazing. SAFTI FIRST and Kawneer substitutions subject to approval by RIT. Aluflam is not accepted.
5. Legacy steel framed assemblies to be replaced in kind unless noted otherwise.

**08 42 00 – Entrances**

1. Main Entrance – New Building
  - a. Exposed metal structural elements: basis of design is extruded aluminum anodized, heavy duty profile; changes to be approved by the Director of Campus Planning and Design Services on a case by case basis.
  - b. Doors to be heavy duty high use rating with continuous hinges (see 08 71 00 – Hardware).
  - c. In addition to code requirements for doors and openings, glazing shall be clear, ¾” insulated (see 08 80 00 – Glazing).
  - d. In addition to being ADA compliant in design, provide electric push-button power-assist actuators (manufacturer: LCN) accessible on approach and exit at each main entrance.
  - e. Provide hydronic snow melt systems and walk-off mats.
  - f. Reference Division 21 for Fire Suppression requirements.
  - g. Reference Division 28 for Electronic Safety and Security requirements.
2. Main Entrance – Existing Building
  - a. Design to match existing architectural vocabulary of existing system and building.
  - b. Approved by RIT Planning and Design Services.

**08 71 00 – Hardware**

1. General
  - a. A power-assist door operator shall be provided at the following locations,
    - i. On one leaf at each building entrance
    - ii. Any circulation fire-rated door with a pull force greater than 5 pounds; if double door, only one leaf required to have power-assist operator
  - b. One card-reader shall be provided at the primary building entrance.
  - c. Card swipe electronic access to certain interior spaces may be required on a project and program specific basis; design for electric strike, coordinate electric strike and hardware with access system provider.
  - d. Use electric strikes in lieu of electrified locksets for interior or exterior applications. Do not use Mag Locks. Locks shall default to the “Locked” mode during a power failure.
  - e. Locking and latching hardware is subject to ADA Technical Requirements concerning access for disabled persons. Conformance to such requirements, as well as other building code or life safety regulations, is required.
  - f. Contractor to provide and install door hardware. A/E firm to confirm with RIT Project Manager prior to issuing construction documents if cores and keys are to be provided by contractor or RIT.
  - g. Reference Division 09 91 23 for door and frame paint comments.
  - h. Mortise cylinders, US 26D finish, to accept 7-pin **small format interchangeable core**.
  - i. Thresholds should have anti-slip characteristics (not 6 inch brass, which create trip hazards in winter).
  - j. For specification assistance contact:

Scott Lambe, Allegion Security and End User Hardware Consultant  
(585) 747.9999

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- k. Delivery, Storage, and Handling
    - i. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.
    - ii. Tag each item or package separately with identification coordinated with the final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.
    - iii. Deliver keys and permanent cores to Owner by registered mail or overnight package service to RIT FMS-Lock Shop, 120 Lomb Memorial Drive, Rochester, NY 14623
  - l. Key and Core Packaging Specifications
    - i. Core mark to be etched in the metal (no ink) on each core. Etch to be on side of core so that it is concealed when installed.
    - ii. Keys are to be packaged individually and labeled with core mark and door location.
    - iii. All keys are to be serialized.
2. Interior Non-Rated Assemblies Specifications
- a. Finish: Brush Chrome
  - b. Style: Lever Type - Heavy Duty
  - c. Hinges: Ives 5BB1HW-NRP, 4.5 x 4.5 (non-removable pins NRP when exposed)
  - d. Door stop (wall): Ives WS407CVX, satin chrome finish.
  - e. Rubber door silencers: Ives SR64.
  - f. Smoke seals: NGP 5020 (when required)
  - g. Closer: LCN 4011 (adjustable spring) for inside of door (HD arm is std.)
  - h. Pull plate: Ives 8302-0 (4" x 16", 10" center to center)
  - i. Push plate: Ives 8200 (4" x 16")
  - j. Kick plate: Ives 8400 (36" x 4" LDW, B-CS)
  - k. Power-assist door operator (to be used on all interior doors as required by 08 71 00, section 1 a): BEA Magic Switch Family MS41, stainless steel, touchless actuator with adjustable range and delay hold time
3. Exterior Specifications
- a. Finish:
    - i. New buildings - review finish on a case by case basis with the Director of Planning and Design Services.
    - ii. Renovation work: bronze finish (to match existing).
  - b. Exit Devices: VonDuprin (function to suit situation)
  - c. Pulls: Rockwood TBF158, bronze (1" diameter tubular pull, 12" center to center, 3-1/2" projection, 4" offset)
  - d. Hinges: Roton #780-224 HD, bronze
  - e. Closers: LCN #4114H Cush-n-Stop, bronze (HD arm is std.)
  - f. At exterior doors where wind resistance is a major concern, the swing door operator shall be the Besam SW200i by ASSA ABLOY.
4. Function Sets
- a. Set #1: Entrance/Office
    - i. Lockset: Schlage, ND53BD x RHO, for 7 pin small format interchangeable core, US26D finish, office function, key on outside - push and turn button
    - ii. Typical use: office and suite doors without card access
  - b. Set #2: Classroom
    - i. Lockset: Schlage, ND70BD x RHO, for 7 pin small format interchangeable core, US26D finish, classroom lock, outside lock/unlock - key only
    - ii. Typical use: classrooms without card access
  - c. Set #3: Store Room
    - i. Lockset: Schlage, ND80BD x RHO, for 7 pin small format interchangeable core, US26D finish, store room function, always locked – operated by key only
    - ii. Typical use: offices, suite, and classrooms with card access; doors to remain locked from outside at all times
  - d. Set #4: Passage

- i. Lockset: Schlage, ND10S x RHO, US26D finish, passage set, no lock
    - ii. Typical use: doors to remain unlocked at all times
  - e. Set #5: Privacy
    - i. Lockset: Schlage, ND50D x RHO, US26D, Entrance/Office - push bottom, 7 pin small format interchangeable core.
    - ii. Typical use: all-gender restrooms
- 5. Power-Assist Operators
  - a. Interior: BEA MS41 touchless actuator
  - b. Exterior: LCN push-button actuator

### **08 79 13 – Key Storage Equipment**

- 1. Two “Knox” lock boxes shall be installed:
  - a. A Knox box for a building key card shall be placed at the designated entrance for use by the Fire Department.
  - b. A Knox box for building keys (fire panel, mechanical rooms, etc.) shall be mounted above the Fire Alarm Annunciator Panel or main Fire Alarm Control Panel if the control panel is in a public area.

### **08 80 00 – Glazing**

- 1. New buildings: window glass color and profile to be approved by the Director of Planning and Design Services.
- 2. Existing buildings: match existing glass color with insulated glass profiles as approved by Director of Planning and Design Services.

**END OF DIVISION 08**