
Partie 1 General

1.1 RELATED REQUIREMENTS

- .1 The list of Work in this division is indicative but non-limiting. It does not exclude Work described in other specification divisions shown on the drawings or required for full execution of the Work as intended on the drawings.
- .2 Section 03 30 00 – Cast-in-place Concrete.
- .3 Section 05 12 23 – Structural Steel for Buildings.
- .4 Section 05 50 00 – Metal Fabrications.
- .5 Section 07 92 00 – Joint Sealants.
- .6 Section 08 11 16 – Aluminum Doors and Frames.
- .7 Section 08 50 00 – Windows.
- .8 Section 08 80 50 – Glazing.
- .9 Section 08 71 00 – Door Hardware.
- .10 Section 09 21 16 – Gypsum Board Assemblies.
- .11 Section 09 22 16 – Non-structural Metal Framing.
- .12 Section 09 51 13 – Acoustical Panel Ceilings.

1.2 REFERENCES

- .1 Aluminum Association (AA)
 - .1 AA DAF 45-03(R2009), Designation System for Aluminum Finishes.
- .2 ASTM International
 - .1 ASTM A167-99(R2009), Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet and Strip.
 - .2 ASTM A480/480M-09b, Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet and Strip.

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 materials and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
 - .1 Submit drawings stamped and signed by professional engineer registered or licensed in Quebec, Canada.

- .2 Indicate each type of door, sizes, hardware locations, rail shapes and materials.
- .3 Submit complete list of hardware for safety glass doors, indicating catalogue and reference identification to specified standards.
- .4 Samples:
 - .1 Submit for review and acceptance of each unit.
 - .2 Submit duplicate 100 x 100 mm samples of safety glass.
- .5 Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties.

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 closers, locksets and door holders for incorporation into manual.
- .3 Tools: supply 2 sets of wrenches for door closers and locksets.

1.5 QUALITY ASSURANCE

- .1 Certifications: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

1.6 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 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 hinged safety glass doors from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.
- .4 Packaging Waste Management: remove for reuse and return by manufacturer of pallets, crates, padding, packaging materials as specified in Construction Waste Management Plan in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

1.7 ACCEPTABLE PRODUCTS AND MATERIALS

- .1 Where a particular brand name is stipulated, see Instructions to Bidders for procedure for requesting approval of substitute materials and products

Partie 2 Products

2.1 GLASS

- .1 Clear safety glass: to CAN/CGSB-12.1, type 2, Class B glazing quality, of thickness indicated.
- .2 Glazing gasket: neoprene purpose made gasket for dry glazing.

2.2 METAL RAILS AND FITTINGS

- .1 Aluminum: Aluminum Association alloy AA6063-T5.
 - .1 Ground rails for doors and panels: dimensions indicated on drawings, composed of two aluminum profiles, with rounded corners and snap-on covers. Sheet 28 mm thick for 10 mm, 12 mm and 15 mm thick glass as indicated.
 - .2 Top rails for doors and panels: dimensions indicated on drawings, composed of two aluminum profiles, with rounded corners and snap-on covers. Sheet 28 mm thick for 10 mm, 12 mm and 15 mm thick glass as indicated. Aluminum anchor for top rails to align panel rails for door rails.
 - .3 Corner assembly for 90° glass frames: 10 mm aluminum plates, dimensions as indicated, for glass 12 mm thick.
 - .4 U profile frame: aluminum profiles, for 10 mm, 12 mm and 15 mm thick glass. Profile dimensions unless otherwise indicated are as follows:
 - .1 Panel top: 25 mm wide x 44 mm high.
 - .2 Door shoe: 44 mm wide x 25 mm high.
 - .5 Hardware: Refer to Section 08 71 00 – Door Hardware.

2.3 ALUMINUM FINISHES

- .1 Finish exposed surfaces of aluminum components in accordance with Aluminum Association Designation System for Aluminum Finishes.
 - .1 Clear anodic finish: designation AA -M30C12C30A41, Class 1, to AAMA 611.

2.4 FABRICATION

- .1 Cut glass to required size, finish edges as detailed, include cutouts for hardware and other attachments before heat treatment.
- .2 Attach top and bottom rails and hardware before shipping doors to site.
- .3 Include safety glass sidelights and transoms as indicated.
- .4 Follow indications on drawings.

Partie 3 Execution

3.1 EXAMINATION

- .1 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for hinged safety glass doors installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of Departmental Representative.
 - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

3.2 INSTALLATION

- .1 Manufacturer's Instructions: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.
- .2 Install hinged safety glass doors where indicated.
- .3 Adjust operable parts for correct function and smooth operation.
- .4 Adjust weatherstripping to ensure weathertight seal.

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 aluminum, stainless steel and bronze with damp rag and approved non-abrasive cleaner in accordance with manufacturer's instructions.
 - .3 Remove traces of primer, caulking; clean doors and frames.
 - .4 Clean glass and glazing materials with approved non-abrasive cleaner.
 - .5 Polish hardware with non-abrasive cleaner as recommended by and in accordance with manufacturer's written instructions.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.

3.4 PROTECTION

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

END OF SECTION