

STANDARD SPECIFICATION
JANUARY 2010

DIVISION 8

SECTION 8G ALUMINUM STORE FRONTS AND DOORS

8G.01 GENERAL: Comply with all of the Contract Documents.

8G.02 SCOPE OF WORK: Refer to "Division Scope of Work"

8G.03 WORK NOT INCLUDED

A. The following items are excluded from the work of this Section:

1. Glass and glazing provided by Section 8E.
2. Caulking provided by Section 7D.

8G.04 GENERAL REQUIREMENTS

- A. Coat all surfaces of aluminum coming in contact with masonry, concrete, steel or mortar, with a heavy coat of "bitumen mastic" or approved type of asphalt paint.
- B. The work shall include all reinforcing, cutting, drilling and tapping required for, and the installation of aluminum store fronts and doors.
- C. When preparing shop drawings, show gauges thickness, sizes and construction of all members, and assembly details of all items. Show details of anchorage to existing adjoining work, hardware anchorage details, installation of insulated panels (if required) and aluminum projected windows (if required).
- D. Aluminum store front work shall be constructed of aluminum sections consisting of frames, mullions, transom bars, side lights, moldings and weather-stripping.

8G.05 MATERIALS

- A. Store front framing system shall be 1 3/4" face and 4 1/2" depth, wall thickness a minimum of .109". Glazing shall have flush appearance, single glazed. Store front shall be "Trifab II 450 screw spline" as manufactured by Kawneer Co. Inc., or approved equal as determined by Architect/Engineer.
- B. Store front doors shall be 1 3/4" thick, narrow stile type with minimum 2 1/8" stiles, 2 1/4" top rail and 3 5/16" bottom rail. Store front doors shall be series "190 Narrow Stile" as manufactured by Kawneer Co. Inc., or approved equal as determined by Architect/Engineer. Doors shall be installed within the store front framing system or as shown on drawings..

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- C. Hardware for new aluminum doors shall be maximum security Adams Rite MS-1850A deadlock with cylinder. Doors shall hung with top, intermediate and bottom offset pivots. Closer shall be Norton 1605 Surface Closer. Doors shall have standard push/pull hardware (similar to CP-1Bevel Bar and CP-10 standard pull or approved equal).
- D. Doors, frames and mullions shall be fabricated of AA-6063-T5 extruded, aluminum alloy. All exposed aluminum surfaces shall be protected with a coat of clear, water white methacrylate lacquer applied before shipment.
- E. Finish of exposed surfaces of aluminum store front and doors shall be anodic coating according to aluminum designation AAM12-C22-A 42/44 Architectural Class 1, minimum coating of not less than 0.7 mils in thickness. Color of finish, medium bronze. Finish shall be approved by Architect/Engineer. A letter attesting to the type of anodized finish applied, the mil finish thickness, sub- surfaces treatment and description of items shall be submitted to Architect/Engineer.
- F. Insulated aluminum panels (where required) shall be a laminated sandwich of polystyrene core, 1/8" tempered hardboard substrates with fluted anodized aluminum skin both sides. Panel thickness shall be 2 1/4", U Factor .092 installed with retrofit framing. Insulated aluminum panels shall be as manufactured by Mapes Industries Inc., or approved equal as determined by Architect/Engineer.
- G. Threshold shall be 1/2" x 4", cast aluminum saddle, abrasive finish.

8G.06 FABRICATION AND INSTALLATION

- A. Store front framing system shall provide for flush glazing on all sides with no projecting stops. Vertical and horizontal framing members shall have a nominal face dimension of 1 3/4" and overall depth shall be 4 1/2". Entrance framing members shall be compatible with glass framing in appearance. Entrance frames shall include positive barrier weathering. All glass framing shall be set level, square, plumb and in alignment with other work in accordance with the manufacturer's installation instruction and approved shop drawings. All joints between framing and the building structure shall be sealed in order to secure a weather-tight installation.
- B. Door corner construction shall consist of mechanical clip fastening, SIGMA deep penetration and fillet welds. Glazing stops shall be hook-in type with EPDM glazing gaskets. Door weathering shall be thermoplastic elastomer on a tubular shape with a semi-rigid polymeric backing. The door bottom rail will be weathered with an EPDM blade gasket sweep strip applied with concealed fasteners. Doors shall be set in correct locations as shown in details and shall be level, square and plumb and in alignment with other work in accordance with the manufacturer's installation instructions and approved shop drawings. All joints between framing and door shall be secure and weather-tight.
- C. Insulated aluminum panels shall be fabricated with retrofit framing and installed in store fronts by this contractor.

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- D. All work shall be shop assembled prior to shipment. Parts shall than be taken down and crated or packaged so as to protect the parts themselves and their surfaces from damage. Packing shall also be marked or coded to indicate on the job where work is to be installed.
- E. Saddles shall be carefully cut to fit between jambs and placed on setting bed.
- F. Install all work in their proper locations securely anchored so that members are not distorted. Leave entrances with door, door frames, mullions and saddles anchored firmly in place, ready to receive glazing.
- G. After installation, the General Contractor shall adequately protect exposed portions of aluminum surfaces from any damage or contaminants. General Contractor shall be responsible for final cleaning.

8G.07 SHOP DRAWINGS

- A. Shop drawings shall be submitted to Architect/Engineer for approval of work specified herein, including all details, sizes of members, gauges, anchors, attachments etc.

8G.08 VERIFYING DIMENSIONS

- A. All openings to be field measured to insure proper fit.

8G.09 GUARANTEES

- A. Guarantee all items of work furnished and installed under this Section for (1) one year, in addition to manufacturer's standard warranties. All guarantees to be from the date, when **Final Certificate of Occupancy** is issued from Department of Buildings.

END OF SECTION