

OVERHEAD SECTIONAL DOORS

1. GENERAL

1.1 Related Documents

- .1 All of the Contract Documents, including General and Supplementary Conditions, and Division 1 General Requirements, apply to the Work of this Section.

1.2 Summary

- .1 The Work of this Section includes upward-acting sectional doors.

1.3 Submittals

- .1 Product Data: submit manufacturer's product data and installation instructions for each type of sectional door. Include both published data and any specific data prepared for this project.
- .2 Shop Drawings: submit Shop Drawings for approval prior to fabrication. Include detailed plans, elevations, details of framing members, required clearances, anchors, and accessories. Include relationship with adjacent materials.

1.4 Quality Assurance

- .1 Manufacturer: sectional doors shall be manufactured by a firm with a minimum of five years experience in the fabrication and installation of sectional doors. Manufacturers proposed for use, which are not named in these specifications, shall submit evidence of ability to meet performance and fabrication requirements specified, and include a list of five projects of similar design and complexity completed within the past five years.
- .2 Installer: installation of sectional doors shall be performed by the authorized representative of the manufacturer.
- .3 Single-source responsibility: provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.
- .4 Pre-installation conference: schedule and convene a pre-installation conference just prior to commencement of field operations, to establish procedures to maintain optimum working conditions and to coordinate this Work with related and adjacent Work.

1.5 Delivery, Storage, and Handling

- .1 Deliver materials and products in labeled protective packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage from weather, excessive temperatures and construction operations.

2. PRODUCTS

2.1 Acceptable Manufacturer

- .1 Provide sectional doors by Steel-Craft Door Products Ltd., Edmonton, AB PH: (780) 453-3761 Fax: (780) 454-1584

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2.2 STEEL CRAFT MODEL SA7000 ALUMINUM DOORS

- .1 Trade Reference: Steel Craft Model SA7000 Aluminum Doors by Steel-Craft Door Products Ltd.
- .2 Sectional Door Assembly: metal-foam-metal sandwich panel construction, with EPDM thermal break and ship-lap design. Units shall have the following characteristics:
 - .1 Panel Thickness: 45 mm (1 ¾") thick 6063-T5 aluminum alloy.
 - .2 Frame: Material thickness' of top rail, bottom rail, end stiles and intermediate stiles 1.8mm (.071") (3mm (1/8") at fastener locations). Top rail height 44mm (1 ¾") overall. Bottom rail height 50mm (2.0") overall. Combined height of meeting rails 94mm (3 ¾"). Intermediate stiles 60 mm (2 3/8") wide. End stiles (3 15/16"). Bottom rail on bottom section and top rail of top section 3 15/16" wide. Framework to provide 16 mm wide glazing shelf.
 - .3 Aluminum Insert Panel: 5005 H34 13mm (.051) thick aluminum sheet material sealed to door frame with glazing compound and held fast with rigid PVC snap in mouldings.
 - .4 Strutting: Aluminum 6063-T5 alloy angular shaped 44 mm (1 ¾") deep. Material thickness 3mm (0.118") at furthers point from door face. Anodizing applied to AAMA 611, 607, 608 standards. Painted product (special order) painted to AAMA 2605, 2604, 2603. Strutting is required for doors 4.000mm (13'0") and over in width.
 - .5 Counterbalance System: Class II oil tempered ASTMA229 wire 10,000 cycle torsion springs on continuous steel shaft (Solid or tubular shaft as required by door size and operation). Aircraft quality galvanized lift cables with a minimum safety factor of 5 to 1.
 - .6 Glazing: Any or all sections can accommodate aluminum panels as well as single and sealed glazing materials up to 16 mm (5/8") thickness. Suggested glazing type: 16mm (5/8") sealed glass/Thermoclear® etc.

Glass materials to be set on two rubber blocks on bottom edge to absorb impact as door closes. All glazing materials sealed to door frame with glazing compound and held securely with rigid PVC snap in mouldings.
- .3 Finish: Anodizing applied to AAMA 611, 607, 608 standards.
- .4 Windload design: ANSI/DASMA 102 standards and as required by code.
- .5 Door Face Hardware: Graduated roller hinges and centre hinges galvanized steel. Heavy duty rollers with hardened inner and outer races with 10 grade 500 ball bearings.
- .6 Lock: interior mounted slide lock suitable for pad locking. (Interlock switch required if Jack Shaft style operator. No interior lock required if Trolley style operator.)
- .7 Weatherstripping:
 - .1 Section Interface Weatherstrip: Arctic grade vinyl bubble shaped weatherstrip at all section meeting rails fits into integral retainer.
 - .2 Bottom weatherstrip: U type arctic grade vinyl fits into integral bottom retainer.
 - .3 Jamb mounted weatherstrip: Anodized aluminum with two point flexible

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arctic grade vinyl weatherstrip.

- .4 Header mounted weatherstrip: Anodized or painted aluminum with two point flexible arctic grade vinyl weatherstrip.
- .8 Track: 75mm (3") fabricated from Z275 (G90) galvanized steel. Material thickness 2.7mm (.105") for 75mm track. Vertical tracks to have a graduated slope. Vertical tracks to be continuous angle mounted 2.2mm (0.087") and fully adjustable for sealing to door to jamb. Horizontal track to be adequately reinforced per door size and weight.
- .9 Operation: Electric motor complete with hand chain hoist (3-1 ratio).
- .10 Electric motor operation: provide UL listed electric operator, size and type as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second.
 - .1 Entrapment protection: Pneumatic sensing edge up to 5486 mm wide.
 - .2 Operator controls: Push-button operated control stations with open, close, and stop buttons for surface mounting, for interior location.
- .11 Special operation: Exterior lock-out push button control stations required at each door location. Location to be confirmed by consultant.
- .12 Hardware to c/w pusher springs (IF std. lift configuration and jack shaft style operator).

3. EXECUTION

3.1 Preparation

- .1 Take field dimensions and examine conditions of substrates, supports, and other conditions under which this work is to be performed. Do not proceed with work until unsatisfactory conditions are corrected. .

3.2 Installation

- .1 Strictly comply with manufacturer's installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
- .2 Instruct City's personnel in proper operating procedures and maintenance schedule.

3.3 Adjusting and Cleaning

- .1 Test sectional doors for proper operation and adjust as necessary to provide proper operation without binding or distortion.
- .2 Touch-up damaged coatings and finishes and repair minor damage. Clean exposed surfaces using non-abrasive materials and methods recommended by manufacturer of material or product being cleaned.

END OF SECTION