

SPECIFICATION NOTE: This combined metric and imperial specification is written in accordance with Construction Specifications Canada (CSC) Three-Part Section Format. Square brackets [ ] indicate choice, alternatives, data required or need for the specifier to make a decision.

## **PART 1- GENERAL**

### **WORK IN-CLUDED**

Provide labour, materials and other services to complete the fabrication and installation of the depressed door, including all materials and components required for the operation of any door and window units included, in the manner, direction and performance shown on the shop drawings and specified herein.

### **QUALITY ASSURANCE**

Drawings and specification of this section are based on terrace doors manufactured by Cahill Commercial. Whenever alternative products are offered, submit supporting technical literature, samples, drawings and performance data for comparison 1 day prior to tender closing date. Work of this trade shall be executed by a company with a minimum of 5 years proven first class experience in this type of work, having adequate equipment and skilled personnel to expediently complete the job in an efficient and workmanlike manner.

### **SHOP DRAWINGS**

All work of this section shall be executed in strict accordance with approved shop drawings. These shall be complete details of all conditions, construction and interfacing.

### **SAMPLES**

Submit one representative model and one cut-away corner sample of each type aluminium door.

### **MAINTENANCE DATA**

Provide maintenance data for maintenance and cleaning in accordance with instructions under General Conditions.

### **WARRANTY**

The work of this division shall be guaranteed against defects of materials and workmanship for a period of 1 year following the date of delivery.

### **PROTECTION**

Protect adjacent surfaces from damage resulting from work of this trade.

## **PART2-PRODUCTS**

### **MATERIALS**

Aluminum terrace door series CA720 has a thermally broken Sash, frame and screen members Extruded aluminum alloy 6063- T5, minimum 1.6mm (0.62") wall thickness.

#### **Thermal break**

Multi-directional 25% glass fiber reinforced 6/6 polyamide nylon (Strut). Do not use connecting screws, clips or other devices which would bridge the frame's thermal barrier. Thermal break to be in line with coinciding door frame material to provide maximum thermal protection.

#### **Glass and glazing materials.**

Factory sealed double glazed unit 25mm (1") overall thickness to CAN/CGSB-12.8-M, glazed in accordance with manufacturer's instructions. Glass thickness sized to National Building Code requirements. Provide sash frames which will permit glass replacement without the use of special tools.

#### **Weather stripping**

Extruded flexible EPDM to ASTM 0-2000. Weather-strip at sash and frame. Install all weather-stripping in specially extruded ports and secure to prevent shrinkage or movement.

#### **Fasteners**

Non-magnetic, stain and corrosion resistant stainless steel to ASTM E-149.

## **FABRICATION**

### **GENERAL**

Fabricate door frame and sash, each using two extruded components joined by means of a thermal break. Assemble all joints in main frame and sash, neatly, in weather tight manner and secure by means of screws anchored into integral screw ports. Debur and make smooth all sharp edges and corners. Provide hollow extruded sections for all rail sash members. Provide sill weep system which will facilitate drainage of water accumulating in sill area while preventing passage of air, dirt and insects to interior.

Fabricate entire door in a manner that will allow easy replacement of any defective, damaged or worn components, hardware or weather-stripping.

### **OPERATION**

Terrace 720 series door:

Position handles in location where handles can be effectively used by occupants. Location of door to be as per plans and swing to be 3'2" in swing radius.

#### **FINISH**

Comply with Aluminum Association Designation System for Aluminum Finishes. Provide Clear anodized finish, designated [AA-A41 class I 18um (.0007")] [AA-A31 class 2 10um (.0004")] finish

OR

Provide AA-A44 [standard bronze] [light bronze] [black] Electrolytic anodized class I 18um (.0007") finish.

OR

Provide a factory applied thermosetting fluoropolymer coating in accordance with American Architectural Manufacturers Association specification AAMA 2603(Duracron), 2604(Acrynar), 2605(Duranar) to all exposed aluminum sections. Colour shall match... (Specifier provides color reference number).

#### **HARDWARE**

Contact manufacturer for hardware specifications.

### **PART 3 - EXECUTION**

#### **PREPARATION**

Protect adjacent surfaces from damage resulting from work under this specification.

#### **INSTALLATION**

Doors shall be installed, glazed and adjusted by personnel having a minimum 5 years proven experience and in accordance with the manufacturer's instructions and approved shop drawings. All items in this section shall be set in their correct location and shall be set level, square plumb and at proper elevations and alignment with other work. Do not exceed 3mm in 3050mm (1/8" in 10'-0") variation from plumb and level.

Seal joints between frame members and door openings with sealant to provide weather-tight seal at outside and air vapour seal at inside.

#### **PROTECTION AND CLEANING**

Aluminum shall be isolated from concrete, mortar, plaster and dissimilar metals with bituminous paint or epoxy solution.

Framing shall be protected from other building materials during and after installation until acceptance by the General Contractor. Thereafter, it shall be the responsibility of the General Contractor to maintain protection and provide final cleaning.