

**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 projected and casement windows, including all materials and components required for the operation of any 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 fixed (CA114RS) windows 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.

### **TEST REPORTS**

Submit test reports from independent testing laboratories indicating that windows meet or exceed the performance requirements of Canadian Standards Association [CAN/CSA-A440-00 (Classification FIXED, B7, C5)]  
And  
[AAMA/WDMA/CSA (Classification 101/I.S.2/A440-08)]  
CW-PG70  
Condensation resistance  
For Casement (CA114 RS) windows is  $I_f = 65$ ,  $I_g = 65$

### **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**

Series CA114RS Fixed window thermally broken rain screen system.

Frame members extruded aluminum alloy 6063-T5, minimum 1.6mm (0.062") 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.

### **Sealant**

Butyl Tape 1.5mm x 25.4 mm at frame and mullion assemblies. Sealant at corners of exterior glazing fins before laying glass unit. Sealant (100mm x 100mm) at corners of glass unit before glazing stops.

Sealant to be [1-part silicone] [1-part polyurethane] to CGSB L ] and suitable for job conditions, L-I color as selected.

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

Factory sealed double glazed unit 25.4mm (1") overall thickness to CAN/CGSB-12.8-M, glazed in accordance with manufacturer's instructions. Glass thickness sized to National Building Code requirements.

### **Weather stripping**

Extruded flexible EPDM to ASTM 0-2000. 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. Source Quality Control Windows supplied under this specification shall have been tested by an independent testing agency indicating compliance with the performance requirements of Canadian Standards Association CAN/CSA-A440-00

## **FABRICATION**

### **General**

Fabricate window frame using extruded components joined by means of a thermal break. Assemble all joints in main frame, 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.

### **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).

### **PART 3 - EXECUTION**

#### **PREPARATION**

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

#### **INSTALLATION**

Windows 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 window 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.