**PART 1 GENERAL**

**1.1 RELATED SECTIONS**

.1 Section 05 40 00 – Cold-Formed Metal framing: Metal framing for support of aluminum cladding

.2 Section 01 74 21 – Construction/Demolition Waste Management and Disposal

.3 Section 06 10 00 - Rough Carpentry

.4 Section 07 62 00 – Sheet Metal Flashing and Trim

**1.2 REFERENCES**

 .1 American Society for Testing and Materials (ASTM)

.1 ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials

#### .2 ASTM E2768-11 – Standard Test Method for Extended Duration Surface Burning Characteristics for Building Materials (30 min Tunnel Test). Results: Zero Flame Spread, Smoke Developed Index of 5. Meets criteria for Class A fire rating

#### .3 ASTM E136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C

#### .4 ASTM E1477 - Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers (LRV)

### .2 Canadian General Standards Board (CGSB)

#### .1 CAN/CGSB-51.32, Sheathing, Membrane, Breather Type.

#### .2 CAN/CGSB-93.2, Prefinished Aluminum Cladding, Soffits and Fascia, for Residential Use.

#### .3 CAN/CGSB-93.3, Prefinished Galvanized and Aluminum-Zinc Alloy Steel Sheet for Residential Use.

#### .4 CAN/CGSB-93.4, Galvanized and Aluminum-Zinc Alloy Coated Steel Cladding Soffits and Fascia, Prefinished, Residential.

#### .5 CGSB 93.5, Installation of Metal Residential Cladding, Soffits and Fascia.

.3 UL & Underwriters Laboratories of Canada (UL/ULC)

.1 UL 723, Standard Method of Test for Surface Burning Characteristics of Building Materials.

.2 CAN/ULC S102, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

.3 CAN/ULC S114, Standard Test Method for determination of non-combustibility in building materials.

.4 American Architectural Manufacturers Association (AAMA)

#### .1 AAMA 2605 Voluntary Specification, Performance requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.

#### .2 AAMA 2604 - Voluntary Specification, Performance requirements and Test Procedures for High Performing Organic Coatings on Aluminum Extrusions and Panels.

.3 AAMA 2603 - Voluntary Specification, Performance requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.

.5 International Code Council Evaluation Service (ICC-ES)

 .1 ICC-ES Evaluation Report

**1.3 SUBMITTALS**

.1 Product data: submit manufacturer's printed product literature, specifications and data sheet.

### .2 Submit duplicate 1 inch X 5 inch X 6 inch (25.4mm X 127mm X 150mm) samples of cladding material, of color and profile specified.

### .3 Shop drawings to indicate dimensions, profiles, attachment methods, schedule of wall elevations, trim and closure pieces, soffits, fascia, metal furring, and related work.

### .4 Certifications: Manufacturer's certifications that products comply with specified requirements, including laboratory reports showing compliance with specified tests and standards.

### .5 LEED Submittal Data: Manufacturer’s product data for each product specified in this section per ecoscorecard.com.

### .6 Submit manufacturer’s installation instructions.

**1.4 LEED**

 .1 Category - Material & Resources

#### .1 MR Credit 2.1, 2.2 - Construction Waste Management Divert 50% or 75% from disposal

### .2 Category – Indoor Environment Quality

#### .1 EQ Credit 4.1 to 4.6 – Low Emitting Materials

### .3 Category – Innovation and Design Process

#### .1 ID Credit – Biophilic Design

## **1.2** **WARRANTY**

### .1 Provide a written guarantee, signed and issued in the name of the owner, covering the metal cladding/cladding material for 15 (fifteen) years from the date of Substantial Completion

### .2 The manufacturer's warranty is limited to replacement of defective material only, rather than installation of the same. Faulty installation shall be corrected by the installing contractor. The warranty required herein is the sole remedy against the manufacturer and there are no other implied warranties. In any event, the manufacturer shall not be liable for incidentals or consequential damages

###

### **PART 2** **PRODUCTS**

## **2.1** **ALUMINUM CLADDING AND COMPONENTS**

### .1 1 inch X 5 inch (25.4mm X 127mm) Privacy Beam extruded aluminum 6063-T5

#### .1 Finish coating: powder coated finish

#### .2 Color: color selected by Owner’s Representative

#### .3 Gloss: 30 ± 5

#### .4 Thickness: 1/16 inch (1.52mm) base metal thickness

#### .5 Profile: 1 inch X 5 inch (25.4mm X 127mm) X 24 ft (7315.2mm) beam

## **2.2** **ACCESSORIES**

### .1 1-½” X 2” Single Post, 2” X 3” Double Post, 1-½” X 2-⅛” Single Post End Cap, 2-⅛” X 2-¾” Double Post End Cap, 12’ Flat Bar, 1X3-1” Flat Bar, 1x5-1” Flat Bar, 1-½” X 1-½” Plastic Spacer Block, Mounting Bracket, Post End Cap Screws

### .2 Beam End Caps with matching powder-coated finish

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## **2.3** **MANUFACTURERS**

### .1 Longboard Architectural Products #120 - 1777 Clearbrook Rd.

### Abbotsford, BC, Canada V2T 5X5

###  info@longboardproducts.com

###  1.800.604.0343

###

### **PART 3** **EXECUTION**

## **3.1** **INSTALLATION**

### .1 Install beams in accordance with CGSB 93.5, and manufacturer's written instructions

### .2 Install fins/louvers as indicated.

### .3 Maintain joints in exterior cladding, true to line, tight fitting, hairline joints.

### .4 Attach beams in a manner not restricting thermal movement.

## **3.2** **CLEANING**

### .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

**END OF SECTION** 32 35 13