**PART 1 GENERAL**

**1.1 RELATED SECTIONS**

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

.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.

.5 Section 07 92 00 - Joint Sealants.

**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 E136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C

#### .3 ASTM E283-04 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen

#### .4 ASTM E331-00 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

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

#### .6 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

.2 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.

.3 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 509 - Voluntary Test and Classification Method for Drained and Back Ventilated Rainscreen Wall Cladding Systems

.4 AAMA 501.1-17 - Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure

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

 .1 ICC-ESR 4182 Evaluation Report

**1.3 SUBMITTALS**

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

### .2 Submit duplicate 4 inch X 6 inch (102mm 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

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### .3 Category – Innovation and Design Process

#### .1 ID Credit – Biophilic Design

## **1.5** **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 4 inch (102mm) Castellation planks extruded aluminum 6063 T5

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

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

#### SOLID COLORS ONLY (used without Link & Lock),

#### ALL FINISHES (used with Link & Lock).

#### .3 Gloss: 30 ± 5.

#### .4 Thickness: 1/16 inch (1.57mm) base metal thickness.

#### .5 Profile: 4 inch (102mm) Castellation X 12 ft (3657.6mm) plank

## **2.2 ACCESSORIES**

### .1 TRIM COMPONENTS: Starter Strip, Back-to-Back Starter, 5/8" Starter J-Track, 5/8" J-Track, 5/8" Two Piece J-Track, 7/8” J-Track, 7/8” Two Piece J-Track, 1-3/8" Two Piece J-Track, 3/4" Inside Corner, 1" Outside Corner, 2" Corner Set, 3/16" Outside Corner, 3” Smooth Corner, 3” V-Groove Corner, 5/8" Termination Set, 7/8” Termination Set, 1-3/8" Termination Set, 1/2" Flat Reveal, 3/4" U-Reveal Set, 1-1/2" U-Reveal Set, 1-1/2" Flat Reveal Set, 3/4" T&G U-Reveal, 1-1/2" T&G U-Reveal, 1/2" T&G Flat Reveal, 2” Offset Flat Reveal, in same material and finishes as ceiling planks.

.2 PLANK CLIPS: 316 Stainless steel Quick-Screen Clips that are shipped loose for field installation.

.3 FASTENING: Butt-Joint Fastening Kit (Aluminum backing plate & 4 x rivets), 1/16” U-Shims.

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

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

### Abbotsford, BC, Canada V2T 5X5

###  info@longboardproducts.com

###  1.800.604.0343

**2.4 MANUFACTURER FACILITY PERFORMANCE AND QUALITY CONTROL**

.1 ISO 9001 Certification- International Standard showing facility is in accordance of Quality Management protocols throughout company.

.2 ISO 14001 Certification- International standard showing facility is in accordance of Environmental Management Systems reflecting the 3 pillars: Environment, Society and Economy.

.3 AAMA 2605 Certification- Showing compliance of AAMA 2605 standards.

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

## **3.1 ORDERING, DELIVERY, STORAGE AND HANDLING**

### .1 Ordering: Conform to manufacturer’s ordering instructions and lead time requirements to avoid construction delays

### .2 Deliver materials and components in manufacturers’ unopened containers or bundles. Prevent damage during unloading, storing and installation

### .3 Store, protect and handle materials and components in accordance with manufacturer’s recommendations to prevent twisting, bending, mechanical damage, contamination and deterioration

### .4 Stack metal cladding horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal cladding to ensure dryness, with positive slope for drainage of water. Do not store metal cladding in contact with other materials that might cause staining, denting, or other surface damage

## **3.2 INSTALLATION**

### .1 Install cladding and components in accordance with manufacturer's written instructions and shop drawings, including product technical bulletins, datasheets and install videos

### .2 Install all cladding planks using Quick-Screen Clips in accordance with the manufacturer's written instructions, technical bulletins, datasheets and install videos to not restrict thermal movement at specified o.c. spacings. Install screws in pre-punched holes. Install one (1) hard-fastened screw per plank, except where butt-joints are used(see butt-joint detail for more information), through the outermost location of the plank flange to prevent plank migration. All fasteners should penetrate into solid, secure framing or blocking

### .3 Install components in accordance with the manufacturer's written instructions and shop drawings, including technical bulletins, datasheets and install videos with positive anchorage to building and provide for thermal movement

### .4 Install screw fasteners using power tools having controlled torque adjusted to compress Quick-Screen Clips tight without damage or deformation of the Quick-Screen Clips, screw heads, screw threads or cladding

### .5 Install Butt-Joints as per installation guide to maintain tight fitting hairline joints. Never exceed one (1) hard-fastener per plank or multiple plank run, all other attachment points to use Quick-Screen Clips to not restrict thermal movement

### .6 Do not install damaged panels; repair or replace as required

## **3.3 CLEANING**

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

**END OF SECTION** 07 46 16