

## Section 07 46 19R - Preformed Steel Siding

### Part 1 General

- .1 Siding applied over building paper on exterior grade sheathing.

### 1.2 RELATED SECTIONS

- .1 Section 01 33 00 – Submittal Procedures.
- .2 Section 05 41 00 – Structural Metal Stud Framing.
- .3 Section 06 10 00 – Rough Carpentry.
- .4 Section 07 62 00 – Sheet Metal Flashing and Trim.
- .10 Section 07 92 00 – Joint Sealing.

### 1.3 REFERENCES

- .1 American National Standards Institute (ANSI).
  - .1 ANSI B18.6.4-99, Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws.
- .2 Canadian General Standards Board (CGSB).
  - .1 CAN/CGSB-51.32-M77, Sheathing, Membrane, Breather Type.
  - .2 CAN/CGSB-93.4, Galvanized and Aluminium-Zinc Alloy Coated Steel Siding Soffits and Fascia, Prefinished, Residential.
  - .3 CGSB 93.5, Installation of Metal Residential Siding, Soffits and Fascia.
- .3 Canadian Standards Association (CSA International).
  - .1 CSA B111-1974(R2003), Wire Nails, Spikes and Staples.
- .4 Canadian Construction Materials Centre (CCMC) number. LUX Architectural Products official CCMC number: CCMC 14137-L

### 1.4 SUBMITTALS – ACTION AND INFORMATION

- .1 Product Data: Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Shop Drawings:
  - .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
  - .2 Indicate dimensions, profiles, attachment methods, schedule of wall elevations, trim and closure pieces, [soffits, fascia, metal furring, and related work].
- .3 Samples:
  - .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
  - .2 Submit duplicate 300 mm samples of siding material, of colour and profile specified.

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- .4 Manufacturer's Instructions:
  - .1 Submit manufacturer's installation instructions.

### 1.5 QUALITY ASSURANCE

- .1 All products and components from same manufacturer/supplier.

### 1.6 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver, store and handle materials in accordance with manufacturers instructions.
- .2 Deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Store materials [off ground] [indoors] [in dry location] and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.

## Part 2 Products

### 2.1 ACCEPTABLE MANUFACTURER

- .1 LUX Architectural Products Inc.
  - .1 Edmonton: 14525 112 Avenue N.W., Edmonton, Alberta T5M2V5.  
Phone: 780.540.0589, Toll Free: 1.800.540.0589

### 2.2 MATERIALS

- .1 Exterior Sheet: 0.559 base metal with Z275 zinc coating, factory prefinished to [Consultant's] [Owner's] selection.

### 2.3 FINISHES

- .1 Finish: Prefinished, coil coated. 1.0 mil fluoropolymer (PVDF)
- .2 Colour: As selected by Owner from manufacturer's standard colours.

### 2.4 SIDING/ CLADDING COMPONENTS

- .1 Metal Panel Siding: Lux Panel - Roll-formed, galvanized steel, to custom profile, for horizontal or vertical installations:
  - .1 Base Metal Thickness: 0.559 mm (24 gauge).
  - .2 Exposed Face: 100 mm (4 inch).
  - .3 Profile: .438 mm deep, 100.88 width, bevelled face edges, preformed interlocking joints, fastener holes pre-punched.

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1. Metal Panel Siding: Lux Panel - Roll-formed, galvanized steel, to custom profile, for horizontal or vertical installations:
  - .1 Base Metal Thickness: 0.559 mm (24 gauge).
  - .2 Exposed Face: 152 mm (6 inch).
  - .3 Profile: .438 mm deep, 152.88 width, bevelled face edges, preformed interlocking joints, fastener holes pre-punched.
- .2 Exposed Metal Trim:
  - .1 Composition: Match to metal siding panel.
  - .2 Finish/Colour: Match to metal siding panel.
  - .3 Base Metal Thickness: 0.559 mm (24 gauge).
  - .4 Shapes: Starter Strip, base trim, J-Channel, Hidden Closure, Outside Corner, Inside Corner, Joiner J, Drip Cap, Window Batten, Open Outside Corner, Open Inside Corner, Three Piece Outside Corner, Two Piece J-Channel, Three Piece Inside Corner, Two Piece Joiner J, Soffit J, Fascia Trim, L Trim, Two Piece Window Batten.
- .3 Soffit:
  - .1 Colour: [custom colour] [colour match to wall panel].
  - .2 Profile: flat sheet 'V' crimped for stiffness, vents preformed with elongated slits and small perforations. Vented 0.1 m<sup>2</sup> of opening for every 30 m<sup>2</sup> of building area.
  - .3 Thickness: Match to metal siding panel, 0.559 mm.
- .4 Fascia and exposed trim:
  - .1 Colour: [custom colour] [colour match to wall panel].
  - .2 Profile: [custom] [manufacturer's standard] as indicated.
  - .3 Pattern: [plain] [pattern] surface.
  - .4 Base Metal Thickness: 0.559 mm (24 gauge).
  - .5 Profile: flat sheet "V" crimped for stiffness, preformed with elongated slits and small perforations.

### 2.5 FASTENERS

- .1 Screws: ANSI B18.6.4. Purpose made [aluminium alloy] [stainless steel], [cadmium plated steel].

### 2.6 JOINT SEALANTS

- .1 Sealants: Section 07 92 00 – Joint Sealants.

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- .2 Sealant: [one component acrylic to CGSB 19-GP-5M:
  - .1 [two component polysulphide to CAN/CGSB-19.24]
  - .2 [one component silicone to CAN/CGSB-19.18]

### 2.7 MEMBRANE

- .1 Membrane: Building paper, #15 asphalt felt to CSA A123.3.
- .2 Exterior Wall Sheathing Membrane: to CAN2-51.32, [single ply] [laminated] [spunbound olefin] type [coated] [impregnated] [as indicated].

## Part 3 Execution

### 3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written data, including product technical bulletins and installation instructions.

### 3.2 EXAMINATION

- .1 Confirm acceptability of wall sheathing of soundness, measurement and flatness.
- .2 Verify that building framing members are ready to receive siding system.

### 3.3 PREPARATION

- .1 Protect siding surfaces with isolation coating from concrete, mortar, plaster or other cementitious surfaces.

### 3.4 INSTALLATION

- .1 Install membrane on exterior sheathing horizontally by [stapling] [nailing].
  - .1 Lap horizontal edges minimum 75 mm; vertical edges minimum 150 mm.
  - .2 Install two [single] [double] layer application.
- .2 Install control or expansion over and in alignment with building control or expansion joints. Install where and as indicated.
- .3 Install cladding in accordance with manufacturer's written instructions.
- .4 Install continuous starter strips, inside [and outside] corners, edgings, soffit, drip, cap, sill and window/door opening flashings as indicated.
- .5 Install outside corners, fillers and closure strips with carefully formed and profiled work.
- .6 Install siding and attachments sequentially from sill up, to manufacturer written instructions
- .7 Attach components to allow for thermal movement.
- .8 Install soffit and fascia cladding as indicated.

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- .9 Maintain joints in exterior cladding, true to line, tight fitting, hairline joints.
- .10 Apply joint sealant at junctions with adjoining work with sealant. Do work in accordance with Section [07 92 00 - Joint Sealing].

### 3.5 CLEANING

- .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.
- .2 Wash interior and exterior surfaces with solution recommended by manufacturer.
- .3 Remove excess sealant as recommended by manufacturer.

END OF SECTION