

Revised and Reissued by Addendum No. 1

1. GENERAL

1.1 Summary

- .1 Provide metal siding, in accordance with requirements of the Contract Documents.

1.2 References

- .1 AA, "Aluminum Association".
- .2 AAMA 2605, Voluntary Specification, Performance requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
- .3 AAMA 2604, Voluntary Specification, Performance requirements and Test Procedures for High Performing Organic Coatings on Aluminum Extrusions and Panels.
- .4 AAMA 2603, Voluntary Specification, Performance requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.

1.3 Submittals

- .1 Action Submittals: Provide the following submittals before starting any work of this Section:
- .1 Shop Drawings: Submit shop drawings showing assembly and installation details, method of sealing and flashing, building connection attachments, provision for thermal movement, and static release loads and static release forces.
- .2 Samples:
- .1 Section of pre-formed metal siding and soffit systems, minimum size 450 mm x 450 mm, showing pre-formed corner, vertical joint for horizontal surface.
- .2 Metal cladding / siding, in selected colour on actual metal base.

1.4 Performance Requirements

- .1 Maximum deflection not to exceed L/180 under system own weight plus wind and suction loads acting normal to plane in accordance with Building Code Climatic Data, wind load 1:30 years.
- .2 Provide movement of components without causing buckling, failure of joint seals, undue stress on fasteners when subject to seasonal temperature range, from -40°C to 50°C, and preceding noted wind and suction loads.
- .3 Include expansion joints to accommodate movement in system and between soffit system and building structure and , where these movements are caused by deflection of building structure. Accommodate these movements, without permanent distortion, damage to infills, racking of joints, breakage of seals, or water penetration.
- .4 Provide for positive drainage to exterior of all water entering or condensation occurring within system.
- .5 Field Quality Control:
- .1 The manufacturer's representative and Contractor shall carry out final inspection and approval of completed Work.

Revised and Reissued by Addendum No. 1

1.5 Delivery, Storage And Handling

- .1 Cover pre-finished components to protect surface finishes and insulation core from damage and deterioration.
- .2 Store components off ground to prevent twisting, bending or delamination. Slope to shed moisture.

2. **PRODUCTS**

2.1 Materials

- .1 Prefinished 24 ga steel, designed with no exposed fasteners and connect with either clips or a nailing strip.
- .2 Siding and Soffit Panel – Wood Grain: METALWORKS CANADA – TRADITIONAL PANEL, Metal Cladding: AUTUMN.
 - .1 Size: 8" profile.
 - .2 Finish: woodgrain As selected from manufacturer's standard range.
 - .3 Basis of Design: METAL WORKS CANADA



Traditional

- 8" width - Unlimited length
- Wall or soffit application
- Sleek, modern design



Colour

2.2 Accessory Materials

- .1 Accessories: Prefinished aluminum, to match panels, and starter strips as recommended by manufacturer.
- .2 Fasteners: as recommended by manufacturer.
- .3 Sealant: Refer to Section 07 92 00.
- .4 Thermally broken back framing system: as recommended by manufacturer for siding and soffit installation.

2.3 Fabrication

- .1 All exposed adjacent flashing of the same material and finish as roof panels.
- .2 Hem all exposed edges of flashing on underside, 12.70 mm.

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- .3 Prepare surfaces, pre-treat and coat components in accordance with AAMA 2604 and 2605 Quality Standards and applicable European standards for the coating material specified.
 - .4 Wrap and package coated components using methods suitable for transit and covered site storage without damage.
- 2.4 Finish
- .1 Super Durable Powder Coatings: Alluminate Premium Wood Finishes use a polyurethane powder coat with ink based wood grain patterns sublimated into the base powder effectively tattooing the powder. The combined effect creates all the aesthetic aspects of real wood while offering the same environmental advantages of powder coated finishes.
 - .2 Wood Grain as selected by Consultant from manufacturer finishes.
3. **EXECUTION**
- 3.1 Preparation
- .1 Obtain dimensions from job site.
 - .2 Ensure structural support is aligned and condition is acceptable.
 - .3 Provide additional structural framing as may be required to conform to Performance Requirements.
- 3.2 Installation
- .1 Install in accordance with manufacturer's written instructions and Contract Documents, plumb, true, level, and rigid.
 - .2 Install siding and soffit panels to structural support by hidden mechanical fasteners.
 - .3 Install support girts, as required, to structural support. Interlock and seal side and end joints.
 - .4 Place insulation between Larson truss to cover complete wall area, full thickness as indicated. Refer to Drawings for details.
 - .5 Install flashings to divert all moisture and condensation to exterior.
 - .6 Install pre-formed corners and end enclosures, caulked and sealed to arrest direct weather penetration.
 - .7 Ensure panels aligned vertically and horizontally.
 - .8 Barrier Protection: Do not install over cementitious materials, dissimilar metals or pressure treated material without adequate barrier protection.
 - .1 Install building paper horizontally on walls to receive metal siding.
 - .2 Weather lap edges 6 inches (150 mm) and ends minimum 6 inches (150 mm).
 - .3 Stagger vertical joints of each layer.
 - .4 Securely staple, nail in place.
 - .9 Fasten siding to structural supports; aligned, level, and plumb.
 - .10 Locate joints over supports.

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- .11 Install expansion control joints where indicated.
 - .12 Use concealed fasteners.
- 3.3 Adjusting And Cleaning
- .1 Remove all excess materials, debris and equipment at completion.
 - .2 Clean all panels clean and free of all grime and dirt.

END OF SECTION