

1 General

1.1 **SECTION INCLUDES**

- .1 Design, labour, Products, tools, equipment and services necessary for exterior soffit system work complete in accordance with the Contract Documents.

1.2 **REFERENCES**

- ~~.1 ASTM B209, Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.~~
- .1 ASTM C920, Specification for Elastomeric Joint Sealants.
- .2 CAN/CSA-G164, Hot Dip Galvanizing of Irregularly Shaped Articles.

1.3 **DESIGN REQUIREMENTS**

- .1 Design structural steel studs to form soffit system details and connections, where not shown on Drawings.
- .2 Design soffit system to accommodate expansion and contraction of soffit elements without causing buckling, failure of joints, undue stress on fasteners or other effects detrimental to appearance or performance.

1.4 **SUBMITTALS**

- .1 Product data:
 - .1 Submit duplicate copies of manufacturer's Product data in accordance with Section 01 33 00 indicating:
 - .1 Performance criteria, compliance with appropriate reference standard, characteristics, and system limitations.
 - .2 Product transportation, storage, handling and installation requirements.
- .2 Shop drawings:
 - .1 Submit shop drawings in accordance with Section 01 33 00 indicating:
 - .1 Details, sections, dimensions, tolerances, connections, terminations, control joints, system components, installation sequence, accessories and other pertinent information required for proper and complete installation.
 - .2 Complete design data to confirm that soffit system meet design requirements specified.
- .3 Samples: Submit two 300 x 300 mm samples of complete soffit system in accordance with Section 01 33 00.
- .4 Reports: Submit written inspection reports within 5 working days after each inspection.

- .5 Closeout submittals: Submit maintenance and cleaning instructions for soffit system for incorporation into Operations and Maintenance Manuals in accordance with Section 01 78 00.
- .6 Extended warranty: Submit extended warranty signed and registered by the manufacturer providing the warranty in the name of the Owner for the timeframe and coverage specified in this Section.

1.5 **QUALITY ASSURANCE**

- .1 Installers qualifications: Perform work of this Section by a company that has a minimum of five years proven experience installing work of similar size and nature and that is approved by system manufacturer. Submit to Consultant, applicator's current certificate of approval by the material manufacturer as proof of compliance.
- .2 Soffit system manufacturer shall conduct Site inspections, prepare and submit written inspection reports verifying that this part of Work is in accordance with Contract Documents and reviewed shop drawings. Perform inspections once per week minimum.
- .3 Mock-up:
 - .1 Construct one 3000 mm minimum mock-up of soffit system in location acceptable to Consultant.
 - .2 Arrange for Consultant's review and acceptance.
 - .3 Mock-up may remain as part of Work if accepted by Consultant. Remove and dispose of mock-ups which do not form part of Work.

1.6 **SITE CONDITIONS**

- .1 Supply and install temporary protection and facilities to maintain Product manufacturer's, and above specified environmental requirements for 24 hours before, during, and 24 hours after installation.
- .2 Do not proceed with application of materials immediately prior to, during or immediately after inclement conditions, or if wet weather is anticipated within 24 hours after application. Do not apply materials to wet, frozen, or frosted surfaces.

1.7 **EXTENDED WARRANTY**

- .1 Submit an extended warranty for soffit system work in accordance with the General Conditions, except that the warranty period is extended to 5 years from date of Contract Documents.
 - .1 Warrant against failure to meet the design criteria and requirements such as failure to stay in place, cracking, warping, and finish degradation.
 - .2 Coverage: Complete replacement including affected adjacent Work.

2 Products

2.1 **MATERIALS**

- .1 All materials under work of this Section, including but not limited to, coatings, sealants, primers, and sealers are to have low VOC content limits.
- ~~.2 Aluminum Panels (wood-look): 1.78 mm aluminum alloy panels, pre-finished wood-look panels. Finish exposed surfaces of aluminum components as PPG Duranar XL Plus, 3 coat, coil coated fluoropolymer thermal setting enamel containing Kynar 500 resin, meeting requirements of AAMA 605, minimum thickness 2.4 mil, colour: to be determined. Concealed aluminum finish: Mill finish.~~
- .2 **Wood-look soffit panel: 0.61 mm steel panels, pre-finished wood-look panels 15 mm thick x 90 mm profile; 'Bellara – Plank Steel Siding by Vicwest Inc, or approved alternative. Colour to be Warm Rosewood. Provide perforated plank panels sections of 135 mm wide Bellara where indicated on the drawings for soffit venting.**
 - .1 **Finish: Perspectra Series coating system by ArcelorMittal Dofasco, or WeatherX by Vicwest Steel. Colour: to be selected by Consultant.**
- .3 Cedar panels: 19 mm thick x 100 mm width, T&G conforming to NLGA Standard Grading Rules for Canadian Lumber. Bevel siding, western red cedar Clear V. G. Heart grade, horizontal or vertical pattern as indicated on Drawings.
- .4 Accessories: Hot-dip galvanized in accordance with CAN/CSA-G164-M, in locations shown on Contract Drawings.
- .5 Fasteners: Provide type 304 stainless steel fasteners.
- .6 Soffit vents: 115 mm wide continuous, high impact, rigid, same material of each type soffit vent with continuous insect screen. As recommended by soffit manufacture.
- .7 Sealant and sealant primer: In accordance with Section 07 92 00.

3 Execution

3.1 **EXAMINATION**

- .1 Verify condition and dimensions of previously installed Work upon which this Section depends. Report defects to Consultant. Commencement of work of this Section means acceptance of existing conditions.

3.2 **PREPARATION**

- .1 Verify substrate surfaces are solid, free from surface water, frozen matter, dust, and other foreign matter detrimental to performance. Ensure environmental and site conditions are suitable for installation of system.

- .2 Supply and install temporary protection to adjacent surfaces to prevent damage resulting from work of this Section.
- .3 Prepare surfaces in accordance with manufacturer's written instructions.
- .4 Protect finished work at end of each day or on completion of each section of work from water penetration. Protect completed installation from moisture for 48 hours minimum.

3.3 SOFFIT SYSTEM

- .1 Install soffit system in accordance with reviewed shop drawings and manufacturer's written instructions. Comply with system manufacturer's requirements regarding terminations at end of each days work and resumption of work.
- .2 Install panels in accordance with reviewed shop drawings and manufacturer's written instructions. Comply with system manufacturer's requirements regarding terminations at end of each days work and resumption of work.
- .3 Install continuous soffit vents in soffits as indicated on drawings to provide ventilation of concealed soffit spaces in accordance with OBC requirements.

3.4 CONTROL JOINTS

- .1 Install 12.7 mm control joints at the following locations:
 - .1 Soffit abuts a structural element, dissimilar wall or other vertical penetration.
 - .2 Construction changes within the plane of the soffit.
 - .3 Ceiling or soffit dimensions exceed 15 m in either direction.
 - .4 Locations indicated on drawings.

END OF SECTION