

PART 1 GENERAL

1.1 SECTION INCLUDES

- .1 Preformed metal siding system for walls with related flashings and accessory components.
- .2 Preformed metal soffit system with related flashings and accessory components..

1.2 RELATED SECTIONS

- .1 Section 07212 – Insulation , Air and Vapour barriers.
- .2 Section 05310 - Steel Deck

1.3 REFERENCES

- .1 ASTM A653/A653M - Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- .2 ASTM A792 – Sheet Steel, 55% aluminum Zinc alloy coated by the Hot Dip Process
- .3 ASTM A606 - Steel Sheet and Strip, Hot-Rolled and Cold-Rolled, High-Strength, Low-Alloy, with Improved Corrosion Resistance.

1.4 SYSTEM DESCRIPTION

- .1 System: Preformed and prefinished steel siding system of horizontal and vertical profile; site assembled.
- .2 System (soffit panels): Preformed and prefinished steel cladding system site assembled.

1.5 DESIGN REQUIREMENTS

- .1 Components: Design and size components to withstand dead and live loads caused by positive and negative wind pressure acting normal to plane of wall as calculated in accordance with building code.
- .2 Maximum Allowable Deflection of Panel: 1/180 of span.
- .3 Movement: Accommodate movement within system without damage to components or deterioration of seals, movement within system; movement between system and perimeter components when subject to seasonal temperature cycling; dynamic loading and release of loads; deflection of structural support framing.
- .4 Drainage: Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.

1.6 SUBMITTALS

- .1 Shop Drawings: Indicate dimensions, layout, joints, construction details, methods of anchorage .

- .2 Samples: Submit three samples of siding finish, 300 mm x 300 mm in size illustrating finish colour, sheen, and texture and profile.

1.7 QUALITY ASSURANCE

- .1 Manufacturer: Company specializing in manufacturing the products specified in this section with minimum five years documented experience.
- .2 Installer: Company specializing in performing the work of this section with minimum five years documented experience and approved by manufacturer.

1.8 DELIVERY, STORAGE, AND PROTECTION

- .1 Transport, handle, store, and protect products.
- .2 Protect panels from accelerated weathering by removing or venting sheet plastic shipping wrap.
- .3 Store prefinished material off ground protected from weather, to prevent twisting, bending, or abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.
- .4 Prevent contact with materials which may cause discolouration or staining.

PART 2 PRODUCTS

2.1 SHEET MATERIALS

- .1 Factory prefinished coloured panels: Grade A galvanized steel conforming to requirements of ASTM A446, with minimum 275 g/m² coating as defined in ASTM A525. Finish to be Baycoat 8,000 or HMP series finish.

2.2 ACCESSORIES

- .1 Gaskets: Manufacturer's standard type suitable for use with system, permanently resilient; ultraviolet and ozone resistant.
- .2 Sealants: Manufacturer's standard type suitable for use with installation of system.
- .3 Fasteners: Manufacturer's standard type to suit application; with soft neoprene washers, Exposed fasteners same finish as panel system.
- .4 Bituminous Paint: Asphalt base.

2.3 COMPONENTS

- .1 Exterior horizontal sheet siding: Minimum 0.76 mm galvalume steel stock to match Tectum P11 corrugated profile; 737 mm wide panel; lapped edges. Other acceptable products; Vic West corrugated panels 19 mm deep profile.
- .2 Vertical flat panels: Min 0.76 mm steel stock to match Vic West AD 300 profile; 300 mm wide, concealed fastening, other acceptable manufacturers; Flynn Canada.

- .3 Metal soffit panels: Min 0.76 mm steel stock to match Vic West AD 300 profile; 300 mm wide, concealed fastening, other acceptable manufacturers; Flynn Canada. Colour to be white.
- .4 Expansion Joints: Same material, thickness and finish as exterior sheets.
- .5 Trim, Closure Pieces, Caps, Flashings, Infills: Same material, thickness and finish as exterior sheets; brake formed to required profiles.
- .6 Anchors and fasteners: Galvanized if concealed or to match paneling steel if exposed.

2.4 FINISHES

- .1 Refer to building elevations A2.1 and A3.2.
- .2 Colour 1: corrugated panel to match HMP Tan.
- .3 Colour 2: corrugated panel to match HMP Stone Grey.
- .4 Colour 3: Flat panels (vertical); Colour to match HMP Tan.
- .5 Flat panels (soffit): 8,000 or HMP series finish , Colour to be white.

2.5 FABRICATION

- .1 Form sections true to shape, accurate in size, square, and free from distortion or defects.
- .2 Form pieces in longest practicable lengths.

PART 3 EXECUTION

3.1 EXAMINATION

- .1 Verify that building framing members are ready to receive panel system.

3.2 INSTALLATION

- .1 Install air barrier to exterior walls as per Section 07212.
- .2 Install metal siding system on walls in accordance with manufacturer's instructions.
- .3 Protect surfaces in contact with cementitious materials and dissimilar metals with bituminous paint. Allow to dry prior to installation.
- .4 Fasten siding to structural supports; aligned, level, and plumb.
- .5 Locate joints over supports. Lap panel ends minimum 50 mm.
- .6 Provide expansion control joints where required.
- .7 Use colour matched exposed fasteners on paneling.
- .8 Seal and place gaskets to prevent weather penetration. Maintain neat appearance.

3.3 TOLERANCES

- .1 Maximum Offset From True Alignment Between Adjacent Members Butting or In Line:
2 mm..
- .2 Maximum Variation from Plane or Location Indicated on Drawings: 3 mm.

3.4 CLEANING

- .1 Remove site cuttings from finish surfaces.
- .2 Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.

END OF SECTION