

Part 1 General

1.1 SECTION INCLUDES

- .1 Formed metal wall panels.
- .2 Accessory components.

1.2 RELATED REQUIREMENTS

- .1 Section 05 12 00 - Structural Steel: Structural steel building frame
- .2 Section 07 62 00 - Sheet Metal Flashings and Trims
- .3 Section 07 92 00 - Joint Sealants

1.3 REFERENCE STANDARDS

- .1 American Society for Testing and Materials (ASTM):
 - .1 ASTM A653/A653M-23, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
 - .2 ASTM A792/A792M-23, Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process
 - .3 ASTM A755/A755M-18(2024), Standard Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Prepainted by the Coil-Coating Process for Exterior Exposed Building Products
- .2 Canadian Standards Association (CSA):
 - .1 CSA-S136-16, North American Specification for the Design of Cold-Formed Steel Structural Members
- .3 Canadian Sheet Steel Building Institute (CSSBI):
 - .1 CSSBI 20M-17, Standard for Sheet Steel Cladding for Architectural, Industrial and Commercial Building Applications
 - .2 CSSBI S8-18, Quality and Performance Specification for Prefinished Sheet Steel Used for Building Products

1.4 QUALITY ASSURANCE

- .1 Structural design in accordance with CSA-S136.
- .2 Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum 5 years documented experience.
- .3 Installer Qualifications: Company specializing in performing the work of this section with minimum 5 years documented experience and approved by the manufacturer.

1.5 DELIVERY, STORAGE, AND HANDLING

- .1 Section 01 61 00: Transport, handle, store, and protect products.

- .2 Protect panels from weathering by removing or venting sheet plastic shipping wrap.
- .3 Store prefinished materials off ground, protected from weather, to prevent twisting, bending, and abrasion, and to provide passive ventilation. Slope metal sheets to ensure drainage.
- .4 Prevent contact with other materials which will cause discolouration, staining or corrosion.

1.6 WARRANTY

- .1 Section 01 78 00: Warranties
- .2 Provide manufacturer's 2-year warranty against manufacturer's defects and deficiencies from date of Substantial Performance of the Work.
- .1 Provide manufacturers panel finish warranty including degradation of paint finish under normal atmospheric conditions including colour fading caused by exposure to weather.
 - .1 40-year film integrity and 30-year chalk and colour change in accordance with CSSBI S8-18

Part 2 Products

2.1 MANUFACTURERS

- .1 Westman Steel Industries.
- .2 Other acceptable manufacturers offering functionally and aesthetically equivalent products.
- .3 Substitutions: Refer to Section 01 62 00.

2.2 DESCRIPTION

- .1 System Description:
 - .1 Wall System: Preformed and prefinished single skin metal siding panels with vertical profile.

2.3 STEEL SHEET MATERIALS

- .1 Aluminum-Zinc Alloy-Coated (Galvalume) Steel Sheet: ASTM A792/A792M, commercial steel (CS), minimum Grade 230, AZM150 coating designation.

2.4 ACCESSORIES

- .1 Flashing and Trim: As specified in Section 07 62 00, of same material, colour and gloss as cladding in exposed locations.
- .2 Closures: Manufacturer's standard metal closures and trims, to suit cladding profile.
- .3 Sealants: As specified in Section 07 92 00, and as follows:
 - .1 Concealed Sealant: Tape or compound, non-skinning, non-drying, butyl rubber.

- .2 Exposed Sealant: ASTM C834, acrylic co-polymer, single component, colour matching cladding.
- .4 Fasteners: Suitable for design loads and application.
- .5 Site Touch-up Paint: Air-dry paint finish specifically designed for repainting of sheet steel.
- .6 Bituminous Paint: Asphaltic base.
- .7 Expansion Joints: Same material, thickness and finish as exterior sheets type, of profile to suit system.
- .8 Anchors: Galvanized steel.

2.5 COMPONENTS

- .1 Cladding Panels: Prefinished Galvalume steel, lapped edges with exposed fasteners, panel joints.
 - .1 Panel Profile: AWR, 914mm wide.
 - .2 Thickness: 0.76mm core steel thickness.
 - .3 Coating: Sheet steel coil coated to ASTM A755 Silicon Modified Polyester coating.
 - .4 Colour: QC#8062 Charcoal.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify existing conditions before starting work.
- .2 Verify dimensions, tolerances, and method of attachment with other work.
- .3 Verify site measurements are as indicated on Drawings.
- .4 Report unsatisfactory conditions to Consultant in writing; Do not start work of this section until unsatisfactory conditions are rectified.

3.2 INSTALLATION

- .1 Install components to CSSBI 20M and manufacturer's written instructions.
- .2 Flashing: Install starter flashing, drip and other flashing, corners, edgings, and window and door flashings as shown on Drawings.
- .3 Exterior Cladding:
 - .1 Install wall cladding to manufacturer's standard installation procedures, providing proper laps true to line, and tight fitting to ensure a weather-tight face.
 - .2 Install finishing flashing, cap flashing, trims and closures.
 - .3 Attach components in manner not restricting thermal movement.

- .4 Sealants: Install sealants at junctions with adjoining work as shown on Drawings, in accordance with Section 07 92 00.

3.3 CLEANING

- .1 Section 01 74 00: Final Cleaning, and as follows:
 - .1 Remove site cuttings from finished surfaces, edges, trims and flashings.
 - .2 Clear weep hole obstructions.
 - .3 Remove temporary protective coverings and strippable films, if any, as soon as each panel is installed.
 - .4 Clean and wash prefinished surfaces with mild soap and water, rinse with clean water.
- .2 Repair and touch up minor surface damage.
- .3 Replace damaged panels and components that cannot be repaired.

END OF SECTION