

**[SPEC NOTE:** Document is intended as a short form guide to develop specifications for single skin exposed fastened AWR wall cladding product manufactured by WESTMAN STEEL INDUSTRIES. It is not a complete source of information for all products. Refer to product literature for additional recommendations. <http://westmansteel.com/>]

**[SPEC NOTE:** Edit **Part 1 General** to be edited for specific project requirements. Section includes performance, proprietary, and descriptive specifications; review and edit text to avoid conflicting requirements. Delete all **SPEC NOTES** and brackets on final edit.]

## **Part 1            General**

### **1.1                SECTION INCLUDES**

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

### **1.2                RELATED REQUIREMENTS**

**[SPEC NOTE:** Only list related Sections that are included in the body of this Section and specified elsewhere.]

- .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**

**[SPEC NOTE:** Only include reference standards within this Section that are applicable to project.]

- .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
  - .4      [ASTM C834-17(2023), Standard Specification for Latex Sealants]
  - .5      [ASTM C920-18(2024), Standard Specification for Elastomeric Joint Sealants]
  - .6      [ASTM D2244-23, Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates]
  - .7      [ASTM D4214-23, Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films]
- .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.

**[SPEC NOTE:** Refrain from modifying or extending warranty beyond manufacturers standard terms to avoid conflicts with manufacturers warranty's legal terms and conditions.]

- .2 Provide manufacturer's 2-year warranty against manufacturer's defects and deficiencies from date of Substantial Performance of the Work.

**[SPEC NOTE:** CSSBI S8-18 - Quality and Performance Specification for Prefinished Sheet Steel Used for Building Products, provides paint qualification tests and weathering per ASTM standards, including 40-year film integrity and 30-year chalk and colour change.]

- .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

**[SPEC NOTE:** WESTMAN STEEL David Forsey CTR, Architectural Representative [david.forsey@westmansteel.ca](mailto:david.forsey@westmansteel.ca) (800) 661-2823. Delete on final edit.]

## 2.1 DESCRIPTION

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

## 2.2 STEEL SHEET MATERIALS

**[SPEC NOTE:** Grade 230 MPa is standard for rolled formed profiles with higher Grades available to meet design load requirements. Contact WESTMAN STEEL for additional information on steel Grades and design considerations.]

- .1 Zinc-Coated (Galvanized) Steel Sheet: ASTM A653/A653M, [structural quality (SS)], minimum [Grade 230], [Z275] coating designation.
- .2 Aluminum-Zinc Alloy-Coated (Galvalume) Steel Sheet: ASTM A792/A792M, [commercial steel (CS)] [structural quality (SS)], minimum [Grade 230], [AZM150] coating designation.

## 2.3 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 C920, silicone] [ASTM C834, acrylic co-polymer], single component, [colour matching cladding].
- .4 Fasteners: Suitable for design loads and application, [manufacturer's standard] [colour matching panels where exposed to view].
- .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.

## 2.4 COMPONENTS

**[SPEC NOTE:** Delete Coating and Colour if plain Galvalume steel specified.]

- .1 Cladding Panels: [Prefinished Galvalume steel] [Galvalume], lapped edges with exposed fasteners, panel joints.

**[SPEC NOTE:** Review WESTMAN STEEL Cladding & Roofing Profiles for panel profile dimensions and coverage. Deviating from manufactured standard thicknesses will result in high material costs and longer delivery times.]

- .1 Panel Profile: AWR, 914mm wide.
- .2 Thickness: [0.46mm] [0.61mm] [0.76mm] core steel thickness.

**[SPEC NOTE:** WESTMAN STEEL uses high quality Silicon Modified Polyester (SMP) coating systems for solid colours and Fluoropolymer (PVDF) for printed (wood grain) and metallic paint colours. Contact WESTMAN STEEL for proper paint coatings based on project application and location.]

- .3 Coating: Sheet steel coil coated to ASTM A755 [Silicon Modified Polyester] [Fluoropolymer] coating.

**[SPEC NOTE:** Review WESTMAN STEEL Colour Chart or Steel Profile Sheet for manufacturer's standard stocked colour range. Custom colours available with lead time and approval of colour match sample.]

- .4 Colour: [QC# \_\_\_\_] [As selected from manufacturer's standard range].

### **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] [are as indicated on Shop Drawings] [meet manufacturer's minimum requirements].
- .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**

**[SPEC NOTE:** Additional reference documents.

WESTMAN STEEL Cladding & Roofing Brochure

WESTMAN STEEL Colour Chart

WESTMAN STEEL Load Tables

WESTMAN STEEL Profile Data Sheets

WESTMAN STEEL Commercial Components, Flashings and Accessories

WESTMAN STEEL 40-Year Warranty Pre-Painted Galvanized & Galvalume Steel Roofing & Siding Panels

CSSBI Glossary of Commonly Used Terms for Structural Building Products]