

Product Name

ShadowClad™ Prime Soffit & Wall Panels

Specification Section

MasterFormat 07 46 10

Manufacturer's Name

Lenmak Exterior Innovations Inc.



April 16, 2021

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PRODUCT DESCRIPTION

PRODUCT FEATURES

- DESCRIPTION
 - Factory fabricated metal wall and soffit cladding with related flashings and accessory components.
 - Online brochure available at: <http://www.lenmak.com>.
- BASIC USES / RELATED USES
 - Exterior wall finish installed with profiles running horizontally or vertically.
- PRODUCT ATTRIBUTES AND CHARACTERISTICS
 - Factory fabricated or custom designed to order and produced on demand.
 - Competitive lead times, due to automation and lean manufacturing processes. Rapid turn-around times.
 - Interlocking panel design permits fully concealed fastening.
 - Available in standard and premium pre-finished colours with no limits on production quantity.
 - Designed to be best in aesthetics, performance and cost efficiency.
- SUSTAINABILITY CRITERIA
 - MR Credit 4 – Recycled Content: Panels are made from a combination of pre-consumer and post-consumer recycled materials and are 100% recyclable.
 - Steel Recycled Content: 6.8% pre-consumer and 24% post-consumer
- APPLICABLE STANDARDS, RELATED REFERENCES
 - AAMA 2605-13 Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels
 - ASTM A653/A653M-13 - Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc Iron Alloy Coated (Galvannealed) by the Hot Dip Process
 - ASTM A792/A792M-10 - Standard Specification for Steel Sheet, 55 % Aluminum Zinc Alloy Coated by the Hot Dip Process
 - ASTM D1005-95 Standard Test Method for Measurement of Dry-Film Thickness of Organic Coatings Using Micrometers
 - CSSBI 20M-2015, Standard for Sheet Steel Cladding for Architectural, Industrial and Commercial Building Applications
 - CSSBI S8-2008, Quality and Performance Specification for Prefinished Sheet Steel Used for Building Products

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- CSA S16-2016, Design of steel structures, Includes Update No. 1 (2016)
- CSA S136-14, North American Specification for the Design of Cold-Formed Steel Structural Members and Commentary
- **PERFORMANCE CRITERIA**
 - System Design: 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 applicable code.
 - Thermal Movement: Provide for expansion and contraction within system components.
 - Design expansion joints to accommodate movement in cladding and between cladding and structure to prevent permanent distortion or damage to cladding.
 - Seismic Loads: Design and size components to withstand seismic loads and sway displacement as calculated in accordance with applicable code.
 - Drainage: Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.
- **PACKAGING, HANDLING, PROTECTION, AND DELIVERY INSTRUCTIONS**
 - Packaged on skids or crates.
- **SPECIAL WARRANTY**
 - Manufacturer's warranty covers finish failure, including peeling, cracking, checking, blistering, chipping and excessive colour fading.
 - Twenty (20) year for SMP standard colour finishes
 - Twenty five (25) year for PVDF Premium Printech and NaturClad™ finishes
 - Twenty five (25) year for PVDF premium 12,000 series finishes
 - Warranties for paint finishes vary depending on the finish type. Consult Lenmak Exterior Innovations Inc. for further information.
- **LIMITATIONS**
 - Pre-finished post-formed metal panel assemblies may exhibit certain behaviors common to all fabricators. Panel surfaces may display a slight convex effect (pillowing) due to panel stresses during manufacture, fabrication, or installation. Oil canning is a moderate deformation of sheet metal surfaces, typically caused by uneven stresses at fastening points. Metal forming during panel fabrication may result fine cracks in finishes (crazing) at outer edges or bends. Mild "pillowing", "oil canning" or "crazing" are not deficiencies.
- **AVAILABILITY**
 - Directly from Lenmak Exterior Innovations Inc.

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- **COST**
 - Consult Lenmak Exterior Innovations Inc. for specific product costs or relative costs.

PRODUCT PROPERTIES

- **MATERIALS**
 - Panels:
 - Sheet Steel Cladding, Tension Levelled, Commercial Steel (CS) designation, Type A, Grade 230 (Grade 33), Thickness: 0.76 mm (22ga)
 - Galvanized G90 (Z275) to ASTM A653/A653M
 - Galvalume AZ150 (AZ50) to ASTM A792/A792M
 - Sheet Steel Cladding, Tension Levelled, Commercial Steel (CS) designation, Type A, Grade 230 (Grade 33), Thickness: 0.68 mm (24ga)
 - Galvanized G90 (Z275) to ASTM A653/A653M
 - Galvalume AZ150 (AZ50) to ASTM A792/A792M
 - Trim and Related Components: Same material and finish as panels.
- **SIZES**
 - Panel Profile:
 - 305 mm (12 inches) wide,
 - 203mm (8 inches) wide, or
 - 152mm (6 inches) wide
 - Panel Depth: 25 mm (1 inch)
 - Panel Reveal:
 - No Reveal – PM8 or PM12 profile only
 - 3mm (0.125 inch) reveal – all profiles
 - 6mm (0.25 inch) – PM8 or PM12 profile only
 - 12.7mm (0.5 inch) – PM8 or PM12 profile only
 - 25mm (1 inch) – PM8 or PM12 profile only
 - Minimum Panel Length: 914 mm (36 inches)
 - Maximum Panel Length: 6400 mm (21 feet)
- **ACCESSORIES**
 - Fasteners: As recommended by manufacturer in the following materials:
 - Galvanized

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PRODUCT DESCRIPTION

- Long-term corrosion resistant coated
- Stainless Steel
- Fixed Clip:
 - Galvalume AZ150 (AZ50) to ASTM A792/A792M with or without painted finish
 - 3048 mm (10 foot) lengths to be cut down to size by customer
 - Completely hidden when installed
- Sealant and Backing Materials: Polyurethane or silicone type
- SHOP FABRICATION AND ASSEMBLY
 - Form sections true to shape, accurate in size, square, and free from distortions.
 - Factory fabricate components ready for site installation.
 - Fabricate in longest practical lengths.
 - All components are site assembled.
- FINISH
 - Steel Finishes:
 - Factory Painted SMP Coating: Two-coat, silicon-modified polyester paint system, 0.90-1.15 mil dry film thickness to ASTM D1005-95
 - Factory Painted PVDF Standard 12,000 Series Coating: Two-coat, 70 percent by weight fluoropolymer resin (Kynar 500 or Hylar 5000), nominal 1.0 mil dry film thickness
 - Factory Painted PVDF Printech Coating: Three-coat, 70 percent by weight fluoropolymer resin (Kynar 500 or Hylar 5000), nominal 1.0 mil dry film thickness
 - Factory Painted PVDF NaturClad™ Finish: PVDF coating of simulated wood-grain finish (Kynar 500 or Hylar 5000), nominal 1.1mil dry film thickness, low gloss

PRODUCT PLACEMENT

- INSTALLATION
 - Install supporting furring or framing secured to structural framing members, cast-in-place concrete structure, or structural concrete unit masonry.
 - Install panels in accordance with manufacturer's written instructions, and as indicated on shop drawings.
 - Install assembly plumb and level, free of twist. Maintain assembly dimensional tolerances, aligning with adjacent work.

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PRODUCT DESCRIPTION

- WASTE RECYCLING
 - Any metal waste generated during installation is fully recyclable.

Corporate Identification

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Classification and Filing

MasterFormat 2014:

07 46 10 - Metal Siding

OmniClass:

23-13 37 15 11 - Metal Exterior Siding

UniFormat:

B2010.10 - Exterior Wall Veneer

END