

Product Name

ShadowClad™ Tongue & Groove Wall Panels

Specification Section

MasterFormat 07 46 10

Manufacturer's Name

Lenmak Exterior Innovations Inc.



March 25, 2017

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PRODUCT DESCRIPTION

PRODUCT FEATURES

- DESCRIPTION
 - Factory fabricated metal wall or 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 to standard profiles 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 several pre-finished colours with no limits on production quantity.
 - Available in standard, premium, and NaturClad™ woodgrain colours for use as accents or full exteriors.
 - Designed to be best in aesthetics, performance and cost efficiency.
- SUSTAINABILITY CRITERIA
 - Panels are made from a combination of pre- and post-consumer recycled materials and are 100% recyclable.
 - Steel Recycled Content: 6.8% pre-consumer and 24% post-consumer
- APPLICABLE STANDARDS, RELATED REFERENCES
 - American Architectural Manufacturers Association (AAMA):
 - AAMA 2605-13 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels
 - American Society for Testing and Materials (ASTM):
 - 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
- PERFORMANCE CRITERIA
 - System Design: Design and size components to withstand dead and live loads caused by positive

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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 onto skids or crates.
 - **SPECIAL WARRANTY**
 - Warranties for paint finishes are available, and 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. 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 "oil canning" or "crazing" are not deficiencies.
 - Length limitation varies by finish and by application. Consult Lenmak Exterior Innovations Inc. for further information.
 - **AVAILABILITY**
 - Directly from Lenmak Exterior Innovations Inc.
 - **COST**
 - Consult Lenmak Exterior Innovations Inc for specific product costs or relative costs.

PRODUCT PROPERTIES

- **MATERIALS**
 - Panels: Steel: 0.61 mm (24 ga.) or 0.76 mm (22 ga.) thick
 - Galvanized G90 (Z275), to ASTM A653/A653M
 - Galvalume AZ150 (AZ50), to ASTM A792/A792M
 - Trim and Related Components: Same material and finish as panels.

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- **PANEL SIZES**
 - Exposed Panel Face Dimension:
 - Profile TG4 - Appearance of 2 equal planks totalling 203 mm (8")
 - OR
 - Profile TG5 - Appearance of 2 equal planks totalling 254 mm (10")
 - Panel Depth: 25 mm (1")
 - Minimum Panel Length: 457 mm (18 inches)
 - Maximum Panel Length: 7925 mm (26 feet)
- **ACCESSORIES**
 - Fasteners: As recommended by manufacturer in the following materials:
 - Galvanized
 - Long-term corrosion resistant coated
 - Sealant and Backing Materials: Polyurethane or silicone type
- **SHOP FABRICATION AND ASSEMBLY**
 - Form metal profiles true to shape, accurate in size, square, and free from distortions.
 - Factory fabricate components ready for field installation.
 - Fabricate in longest practical lengths.
 - All components are site assembled.
- **FINISH**
 - Steel Finishes:
 - Galvalume
 - Factory Painted SMP Coating: Two-coat, silicone-modified polyester paint system.
 - Available Colours: Antique Linen, Black, Bright Red, Briarwood Tan, Bone White, Cambridge White, Charcoal, Coffee Brown, Dark Brown, Dark Red, Deep Water Green, Forest Green, Gold, Heron Blue, Labrador Blue, Metro Brown, Melchers Green, Mist Green, Polar White, Royal Blue, Regent Grey, Sapphire Blue, Slate Blue, Surf White, Stone Grey, Tan, Tile Red, Turquoise, White-White.
 - Factory Painted PVDF Coating: Three-coat, 70 percent by weight fluoropolymer resin (Kynar) conforming to AAMA 2605.
 - Available Colours: Regal White, Parchment, Sierra Tan, Old Zinc Grey, Weathered Copper, Bronze, Dark Bronze, Black, Old Town Grey, Slate Grey, Twilight Blue, Regal Blue, Hemlock, Terra Cotta, Retro Red, Colonial Red, Copper Penny, Silver Metallic, Champagne, Weathered Zinc.

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- Lenmak NaturClad™ Finish: PVDF coating with simulated wood-grain finish, conforming to the requirements of AAMA 2605.
 - Available Colours/Patterns: Mahogany, Light Hickory, Weathered Ash, Acorn, Frontier, Espresso, Autumn, Saddle, Gunstock

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.
- **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
07 42 93 – Soffit Panels
OmniClass:
23-13 37 15 11 – Metal Exterior Siding
UniFormat:
B2010.10 - Exterior Wall Veneer

END