

**Product Name**

Silhouette Wall Panels

**Specification Section**

MasterFormat 07 42 13.13

**Manufacturer's Name**

Lenmak Exterior Innovations Inc.



April 4, 2017

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## PRODUCT DESCRIPTION

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### PRODUCT FEATURES

- DESCRIPTION
  - Custom fabricated, perforated metal wall panels with related flashings and accessory components.
  - Online brochure and technical information available at: <http://www.lenmak.com>
- BASIC USES / RELATED USES
  - Custom perforated exterior wall panels.
- 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 several solid and metallic finishes or brushed stainless steel, with no limits on production quantity.
  - Designed to be best in aesthetics, performance and cost efficiency.
- SUSTAINABILITY CRITERIA
  - Aluminum panels are made from recycled materials, and are 100% recyclable.
    - Minimum combined 24.7% pre-consumer and 55.8% post-consumer recycled content
- APPLICABLE STANDARDS, RELATED REFERENCES
  - .1 American Architectural Manufacturers Association (AAMA):
    - .1 AAMA 2604-05 – Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels
  - .2 International Organization for Standardization (ISO):
    - .1 ISO 1519 - Paints and varnishes - Bend test (cylindrical mandrel).
    - .2 ISO 1520 - Paints and varnishes - Cupping test.
    - .3 ISO 2409 - Paints and varnishes - Cross-cut test.
    - .4 ISO 2815 - Paints and varnishes - Buchholz indentation test.
  - .3 American Society for Testing and Materials (ASTM):
    - .1 ASTM B209/B209M-14 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate

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- .2 ASTM B117 – Practice for Operating Salt Spray (Fog) Apparatus.
- .3 ASTM D522 – Test Methods for Mandrel Bend Test of Attached Organic Coatings.
- .4 ASTM D523 – Test Method for Specular Gloss.
- .5 ASTM D714 – Test Method for Evaluating Degree of Blistering of Paints.
- .6 ASTM D968 – Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive.
- .7 ASTM D1400 – Test Method for Nondestructive Measurement of Dry Film Thickness of Nonconductive Coatings Applied to a Nonferrous Metal Base.
- .8 ASTM D1654 – Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments.
- .9 ASTM D1730 – Practices for Preparation of Aluminum and Aluminum-Alloy Surfaces for Painting.
- .10 ASTM D2247 – Practice for Testing Water Resistance of Coatings in 100% Relative Humidity.
- .11 ASTM D2794 – Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
- .12 ASTM D3359 – Test Methods for Measuring Adhesion by Tape Test.
- .13 ASTM D3363 – Test Method for Film Hardness by Pencil Test.
- .14 ASTM D3451 – Practices for Testing Polymeric Powders and Powder Coatings.
- .15 ASTM D4214 – Test Method for Evaluating Degree of Chalking of Exterior Paint Films.
- .16 ASTM D5382 – A Guide to Evaluation of Optical Properties of Powder Coatings.
- .17 ASTM D5861 – Guide to Significance or Particle Size Measurements of Coating Powders.
- .18 ASTM D6441 – Test Methods for Measuring the Hiding Power of Powder Coatings.

- **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 siding panel assembly and between siding and structure to prevent permanent distortion or damage to siding.
- 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 in crates.

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- **SPECIAL WARRANTY**
  - Five-year warranty for architectural projects requires project-specific application. Submit project data to manufacturer for filing of warranty minimum ten (10) days prior to closeout.
- **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.
  - Anodized aluminum may be available is a custom finish, though it is not recommended for commercial projects and does not include a finish warranty.
- **AVAILABILITY**
  - Direct from Lenmak Exterior Innovations Inc.
- **COST**
  - Consult Lenmak Exterior Innovations Inc for specific product costs or relative costs.

**PRODUCT PROPERTIES**

- **MATERIALS**
  - Panels:
    - Aluminum: To 5005 or 5052-H32 to ASTM B209, minimum 24.7% pre-consumer and 55.8% post consumer recycled content
      - Thickness: 2 mm (0.080 inch) with factory-applied coating
    - Stainless Steel: Sheet to ASTM A240, Type 304
      - Thickness: 1.52 mm (16 ga)
  - Trim and Related Components:
    - Same material and finish as panels
      - Aluminum thickness: 0.81mm (.032 inch).
      - Stainless Steel thickness: 0.61mm (.024 inch).
- **SIZES**
  - Panel Size and Profile: Custom designed to suit; consult Lenmak Exterior Innovations Inc.
  - Panel Perforations: Custom designed to suit; consult Lenmak Exterior Innovations Inc.

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- **ACCESSORIES**
  - Fasteners: As recommended by manufacturer in the following materials:
    - Long-term corrosion resistant coated steel
    - Stainless steel
  - Horseshoe Spacers: Supplied by manufacturer, to achieve installation tolerances and isolation from dissimilar metals.
  - 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 site installation.
  - Fabricate in longest practical lengths.
  - All components are site assembled.
- **FINISH**
  - Powder-Coated Finishes:
    - Powder Coating: Super Durable Polyester resin-based thermosetting powder, Series 38 High Performance Architectural Coating.
      - Colour: Select from manufacturer's standard range
    - Finish Manufacturer:
      - TIGER Drylac® U.S.A., Inc., 1261 East Belmont Street, Ontario, California 91761; Phone (909)-930-9100, Fax (909) 930-9111; E-mail address: tiger@drylac.com. Web site address: [www.tigerdrylac.com](http://www.tigerdrylac.com)
  - Stainless Steel: No. 4 (brushed) finish
- **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.
  - Separate dissimilar metals with permanent isolating material.
  - Align 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.

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**Corporate Identification**

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**Classification and Filing**

MasterFormat 2014:

07 42 13.23 – Formed Metal Wall Panels

OmniClass:

23-13 37 15 11 - Metal Exterior Siding

UniFormat:

B2010.10 - Exterior Wall Veneer

**END**