

Product Name

Aluminaire Wall Panels

Specification Section

MasterFormat 07 42 13.13

Manufacturer's Name

Lenmak Exterior Innovations Inc.



March 27, 2017

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PRODUCT DESCRIPTION

PRODUCT FEATURES

- DESCRIPTION
 - Custom fabricated 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 exterior architectural 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 dozens of standard colours and a variety of specialty finishes with no limits on production quantity.
 - Available in standard and metallic colours for use as accents or full elevations.
 - Designed to be best in aesthetics, performance and cost efficiency.
- SUSTAINABILITY CRITERIA
 - Aluminum panels are made from recycled materials, and are 100% recyclable.
 - Combination of 24.7% pre-consumer and 55.8% post-consumer recycled content
- APPLICABLE STANDARDS, RELATED REFERENCES
 - AAMA 2604-05 – Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels
 - ASTM B209/B209M-14 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
 - ASTM B117 – Practice for Operating Salt Spray (Fog) Apparatus.
 - ASTM D522 – Test Methods for Mandrel Bend Test of Attached Organic Coatings.
 - ASTM D523 – Test Method for Specular Gloss.
 - ASTM D714 – Test Method for Evaluating Degree of Blistering of Paints.
 - ASTM D968 – Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive.
 - ASTM D1400 – Test Method for Nondestructive Measurement of Dry Film Thickness of Nonconductive Coatings Applied to a Nonferrous Metal Base.

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- ASTM D1654 – Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments.
- ASTM D1730 – Practices for Preparation of Aluminum and Aluminum-Alloy Surfaces for Painting.
- ASTM D2247 – Practice for Testing Water Resistance of Coatings in 100% Relative Humidity.
- ASTM D2794 – Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
- ASTM D3359 – Test Methods for Measuring Adhesion by Tape Test.
- ASTM D3363 – Test Method for Film Hardness by Pencil Test.
- ASTM D3451 – Practices for Testing Polymeric Powders and Powder Coatings.
- ASTM D4214 – Test Method for Evaluating Degree of Chalking of Exterior Paint Films.
- ASTM D5382 – A Guide to Evaluation of Optical Properties of Powder Coatings.
- ASTM D5861 – Guide to Significance or Particle Size Measurements of Coating Powders.
- ASTM D6441 – Test Methods for Measuring the Hiding Power of Powder Coatings.
- ISO 1519 - Paints and varnishes - Bend test (cylindrical mandrel).
- ISO 1520 - Paints and varnishes - Cupping test.
- ISO 2409 - Paints and varnishes - Cross-cut test.
- ISO 2815 - Paints and varnishes - Buchholz indentation test.
-
- **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 on skids or crates.

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- **SPECIAL WARRANTY**
 - Five-year warranty for architectural projects requires project-specific application..
- **LIMITATIONS**
 - Oil canning is a moderate deformation of sheet metal surfaces, typically caused by uneven stresses at fastening points. Mild “pillowing”, "oil canning" or “crazing” are not deficiencies.
- **AVAILABILITY**
 - Directly 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, 24.7% pre-consumer and 55.8% post consumer recycled content
 - Thickness: 2 mm (0.080 inch) with factory-applied coating
 - Trim and Related Components: To 5005 or 5052-H32 to ASTM B209, 24.7% pre-consumer and 55.8% post consumer recycled content
 - Thickness: 0.81 mm (0.032 inch) with factory-applied coating
- **SIZES**
 - Panel Size and Profile: Custom designed to suit; consult Lenmak Exterior Innovations Inc.
- **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 panel and trim profiles true to shape, accurate in size, square, and free from excessive

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distortion and defects.

- Factory fabricate components ready for post-finishing, in longest practical lengths.
- Apply coating to requirements of coating manufacturer's written application instructions.
- Environmental Requirements:
 - Maintain substrate and ambient temperature limits required by coating manufacturer.
 - Apply coating only when surface to be coated is dry and adequately pre-treated.
- Preparation: surfaces to receive finishes must be dry and free of debris, oils, dust, or other deleterious materials.
 - Grind fabrication welds smooth.
 - Clean surfaces prior to pretreatment coating.
- Surface Cleaning:
 - Clean surfaces to be coated as follows:
 - Remove all dust, dirt, and other surface debris by vacuuming, wiping dry with clean cloths or compressed air.
 - Rinse scrubbed surfaces with clean water until foreign matter is flushed from surface.
 - Allow surfaces to drain completely and allow to thoroughly dry.
 - If the above procedures do not clean the substrate surfaces, clean the surfaces with high pressure water washing. Use water blasting only when necessary for extreme cases of contamination by oily residue and where hand washing is impractical.
- Pretreatment of aluminum surfaces:
 - Apply pretreatment as soon as possible after cleaning and before surface deterioration occurs.
 - Pre-treat to ASTM D1730 Type B, Method 5 using a multi-stage chromate process or an approved chrome-free pretreatment process approved by powder coating

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manufacturer.

- Method of Application: Electrostatic manual spraying.
 - Provide and maintain equipment that is suitable for intended purpose, capable of properly fluidizing powder coating to be applied.
 - Apply coating materials to clean surfaces to minimum 2.5 - 3.5 mil dry film thickness or as specified by manufacturer.
 - Ensure coating adheres to internal corners and recessed areas.
- Curing:
 - Allow surfaces to cure for minimum time period as required by manufacturer.
 - Cure in accordance with manufacturer's cure curves.
- FINISH
 - Aluminum 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.
 - Approved Manufacturers:
 - 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

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.
 - Separate dissimilar metals with permanent isolating material.
 - Align 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

Lenmak Exterior Innovations Inc.

10404 - 176 Street NW

Edmonton, AB Canada

T5S 1L3

Tel: 780.451.5482 or 888.451.5482

Fax: 780.451.0865 or 888.451.0865

<http://www.lenmak.com>

orderdesk@lenmak.com

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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