

LUXYCLAD[®] Aluminum
Architectural
Systems

DATA SHEET

Master Format Classification:
07 46 16 - Aluminum Siding



76 RIDLEY ROAD
ST CATHARINES ON L2S 3Y8

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Private Residence, St. Catharines, Ontario John Willmott Architect

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PRODUCT DESCRIPTION

DESCRIPTION

Powder coated and sublimated extruded aluminum rainscreen cladding system.

USES

Prefinished profile aluminum siding and soffit installed to form an exterior rainscreen assembly, or as an interior assembly, using concealed fasteners and extruded aluminum trim and accessory pieces.

PRODUCT ATTRIBUTES AND CHARACTERISTICS

- Extruded aluminum cladding
- Complete rainscreen system including all necessary clips and trim pieces
- High performance powder coating and sublimation finishes available in an extensive variety of wood grains, metallic, and solid colours; custom colours and finishes also available
- Cladding dimensions allow for field adjustment and thermal movement and expansion.
- Four cladding profiles available:
4" V-groove, 6" V-groove, 6" Flush Panel, and 6" Channel
- Custom profiles available.

SELECTION CRITERIA

- Manufactured in Ontario, Canada with highly durable and rigid architectural grade extruded aluminum (6063-T5 alloy)
 - Non-combustible (Class A fire rated)
 - Maintenance free
 - UV resistant
 - Corrosion resistant
 - Hurricane resistant
 - Water tight and air tight
 - 100% recyclable and LEED compliant
 - Seamless wall coverage with 24' profile lengths and unique splicer support accessory piece to allow for butt joints
 - Extruded aluminum rain screen clips to create a ventilated system and secure and easy fastening
 - Perforated soffit profile allows for ventilation
 - Will not rot, warp, peel, or oil can
 - Installer friendly
 - No insect infestation
 - Anti-microbial Non-toxic
 - Sold by the piece without minimum orders
 - 10 business day lead time for stock finishes
 - Wide array of finishes available
- Offered as a complete extruded aluminum system including all necessary installation clips and trim pieces for a consistent, high-quality, and full installation

SUSTAINABILITY CRITERIA

- 100% recyclable
- To satisfy requirements for LEED (Leadership in Energy and Environmental Design) Green Building Rating System®, 6063-T5 alloy, re-melt aluminum billet used by LUXYCLAD® contains the following:
 - 10% post-consumer aluminum
 - 30% prime aluminum
 - 60% pre-consumer aluminum
- VOC free finishes using nearly 100% recyclable, hyper durable, and solvent-free powder coatings that do not emit volatile organic compounds
- Applicable LEED credit contribution also includes:
 - Material & Resources (MR) Credit 2.1, 2.2 – Construction Waste Management
 - Indoor Environment Quality (EQ) Credit 4.1-4.6 –
 - Low Emitting Materials
 - Innovation (IN) Credit – Biophilic Design

APPLICABLE STANDARDS AND RELATED REFERENCES

American Architectural Manufacturers Association (AAMA)

AAMA 2603 - Voluntary Specification Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels

AAMA 2604-13, Voluntary Specification Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels

AAMA 2605-11, Voluntary Specification for Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels

American Society for Testing and Materials International (ASTM)

- ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Material
- ASTM E136, Standard Test Method for Behaviour of Materials in a Vertical Tube Furnance at 750°C.
- ASTM E2768-11, Standard Test Method for Extended Duration Surface Burning Characteristics for Building Materials.
- ASTM E283-04, Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
- ASTM E331-14, Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference.
- ASTM E330-14, Standard Test Method for Structural Performance of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference (Modified)

Underwriters Laboratories Canada (ULC)

- CAN/ULC S114-05, Standard Test Method for Determination of Non-Combustibility in Building Materials ULC-S135-04, Standard Test Method for the Determination of Combustibility Parameters of Building Materials Using an Oxygen Consumption Calorimeter (Cone Calorimeter)

International Organization for Standardization (ISO)

- ISO 9227:1990, Corrosion Tests in Artificial Atmospheres - Salt Spray Tests

Canada Green Building Council (CaGBC)

- LEED v4 Building Design and Construction (2016) LEED
- Canada 2009 Rating System, LEED Canada for New Construction and Major Renovations. LEED Canada for Core and Shell Development

PERFORMANCE CRITERIA

- Air Leakage - ASTM E283-04: Passed Combustibility -
- ULC-S135-04: Passed Combustibility - CAN/ULC-S114-05:
- Passed, Non-combustible
- Corrosion - ISO 9227:1990 (5000 Hours Salt Spray Testing): Passed, No Infiltration, No Blisters
- Fire Rating - ASTM E84-17: Passed, Class 1/Class A Fire Rated
- Structural Performance - ASTM E330-14: Passed
- UV Resistant - AAMA 2604/05: Passed
- Water Penetration - ASTM E331-14: Passed

PACKAGING, HANDLING, PROTECTION, DELIVERY, STORAGE

- Conform to manufacturer’s ordering instructions and lead time requirements to avoid construction delays.
- Deliver materials and components in manufacturer’s unopened cartons, properly labeled and fully identified by product name and brand. Prevent any damage during unloading, storing, and installation.
- Store, protect, and handle materials and components in accordance with manufacturer’s recommendations to prevent any damages.
- Store materials off ground and keep clean, dry, and free of dirt and debris. Store away from areas with failing objects or other construction activity that may occur or cause damage.
- Do not store cartons in stacks more than 6 cartons high. Prevent contact with materials capable of causing discolouration, staining, denting, or other surface damage.

WARRANTY All manufacturer’s product warranties are against physical defects of systems and products that are properly installed and maintained according to the manufacturer’s instructions and recommendations.

- **Material:** LUXYLIFE™ lifetime (up to 50 years) limited warranty guarantees against buckling, warping, rusting, corroding, and defects in material or workmanship on aluminum siding and soffit.
- **Finishes:** LUXYSHIELD™ 15 year limited finish warranty guarantees against cracking, chalking, colour retention, gloss retention, and adhesion.

LIMITATIONS Aluminum cladding must be separated from direct contact with dissimilar metals.

SAFETY

When dealing with any type of construction project, it is necessary to wear appropriate safety equipment to avoid any risk of injury. It is recommended but not limited to the following safety equipment being used when handling, cutting, and installing LUXYCLAD®: gloves, respiratory protection, long sleeves, pants, and safety glasses. More information about personal protective equipment is available at your local government agencies.

AVAILABILITY

Depending on project location, product is available directly through the manufacturer as well as appointed distributors.

COST Contact manufacturer or appointed distributors for product and related costs.

PRODUCT PROPERTIES

MATERIALS, COMPOSITION, PROPERTIES Material: 6063-T5 aluminum alloy architectural grade extruded aluminum

ACCESSORIES

Trim Pieces, 6063-T5 alloy extruded aluminum @ 12' (3657.6mm) lengths

- 1.7" Flat Cap
- 1.7" Flat Cap Base
- 1.7" Finishing Strip Cap
- 1.7" Finishing Strip Base
- J-trim
- 1" Inside Corner Cap
- 1" Inside Corner Base
- 1.7" Outside Corner Cap
- 1.7" Outside Corner Base
- 1" Outside One Piece Corner
- 1" Precision J-Trim
- 1" Precisor J-Trim Base + Cap
- 1" Precision J-Trim Starter Strip
- 1" Precision Finishing Cap + Base
- 1" Precision Outside Corner + Base

Other Components, 6063-T5 alloy extruded aluminum @ 12' (3657.6mm) lengths

- 4" Splicer Support
- 6" Splicer Support
- Starter Strip

Fasteners

- 1-1/2" length, #8 screw with corrosion resistance suitable for the application and climate

Girts

Girt System: Hilti MFT-FOX T (Thermally Broken) or MFT-MFI Aluminum Cladding Support System. The substructure consists of adjustable brackets with up to 40 mm (1.5") of adjustability for site leveling. The MFT-FOX T system features integrated 50% glass-fiber reinforced thermal breaks to virtually eliminate thermal bridging, meeting Passive House levels of efficiency.

Brackets and profiles are fabricated from 6000 series aluminum alloy (6063-T6 or 6005A-T6) and installed using Hilti S-AD self-drilling stainless steel fasteners in accordance with Hilti's Rainscreen Application Guide and project-specific engineering.

- Rain Screen Clips, 6063-T5 alloy extruded aluminum @ 1" (25.4mm) lengths
- Touch Up Pen: Light or Dark Brown (matching specified woodgrain or solid finish).

FINISHES

Selected by owner's representative from manufacturer's range

- Solid colour and metallic finishes: powder-coated finish (per AAMA 2604, AAMA 2605)
- Decorative finishes (i.e. wood grain): powder-coated base finish with sublimated finish (per AAMA 2604, AAMA 2605)

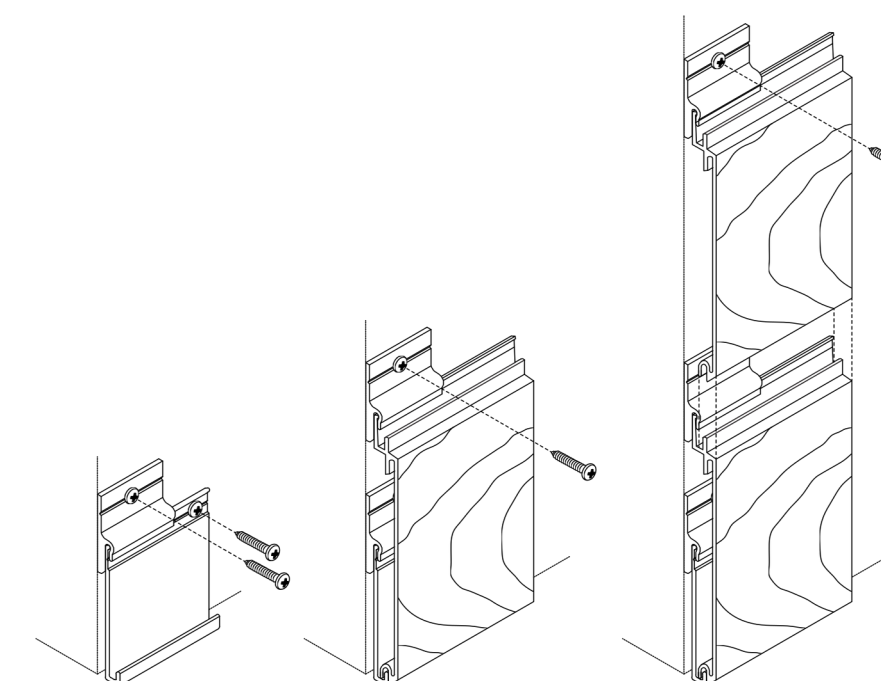
PRODUCT PLACEMENT

PREPARATION

- Obtain dimensions and material take off measurements from job site before ordering product and fabricating material.
- Ensure structural support is properly aligned, installed correctly, and condition is acceptable and ready to receive cladding system. Review drawings that indicate areas to be clad with system.
- Building surfaces shall be smooth, straight, aligned, clean, dry, and free from defects detrimental to the flush and proper installation of the aluminum siding system. Notify Contractor of conditions not acceptable for installation of the system.
- Inspect product before installation and verify that there is no shipping damage; ensure proper handling and storage of all material.
- Do not install any damaged or questionable product; repair or replace as required for smooth, consistent, and high quality finished appearance.

INSTALLATION

- Ensure the requested amount of product has been received. Notify the manufacturer if order has not been properly filled.
- Install cladding and components in accordance with project drawings, and manufacturer's installation instructions.
- Ensure continuity of building envelope air barrier and vapor barrier systems
- Do not install over cementitious materials, dissimilar metals, or pressure treated material without adequate barrier protection.
- Install starter strips, trim and corner base pieces, one-piece corners, j-trims, and flashings as required, in accordance with best practice, with all members plumb and true.
- Install siding and soffit material as required, maintaining joints are true to line, tight fitting, hairline joints. Locate joints over supports or use splicer piece as required to ensure structural stability. Fasten to supports using rain screen clips in an aligned, level, and plumb manner, using spacing recommended by manufacturer's installation instructions.
- Install trim and corner cap pieces
- Fasten and install components in a manner that does not restrict thermal movement. Coordinate installation with flashings and other outside components that relate to the cladding system.
- Install expansion control joints where indicated
- Caulk necessary areas with sealant that is in accordance with Section 07 92 00 - Joint Sealing.
- Apply isolation coating if areas of contact between dissimilar metals is otherwise unavoidable.
- Use the appropriate coloured touch up pen to cover cut ends of exposed aluminum.



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