

1. Product Name

Alumitex[®] Aluminum Facade System
Aluminum Composite Material (ACM)

2. Manufacturer

Elemex Inc.
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London, Ontario, N5V 0B2
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info@elemex.com

Elemex[®] Architectural Facade Systems is the custom manufacturer of Alumitex Facade System.

3. Product Description

Basic Use

Exterior or interior wall panel for new construction, renovation, commercial and various other applications. Some typical uses include; exterior wall panels, fascia panels, ceiling panels, spandrel panels, beam & column covers, wall trim, accent panels and signage.



Perimeter Institute, Waterloo, ON

4. Unity[®] Attachment Technology

Unity[®] Attachment Technology: a proprietary integrated attachment technology developed and perfected by Elemex to panelize, mount and seamlessly integrate a variety of surfaces such as: Sintered Ceramic, ACM, Aluminum Plate and other specialty veneers.

5. Composition and Materials

Aluminum Composite Material (ACM) is available in FR (fire rated) core material. The manufacturing process involves the core material being sandwiched between two sheets of .5mm thick aluminum in a continuous process. The front side of the material is coated with a high performance coating and the backside is coated with either a chrome or polyester coating. ACM FR is available in a 4mm (5/32") thickness. Specialty veneers such as Metal Composite Materials (MCM) also available.

6. Finishes

ACM coil coated finishes are available in a 2 coat solid or mica finish, as well as 3 coat metallic colors. All of the finishes contain a minimum of 70% Kynar 500[®]/Hylar 5000[®] polyvinylidene fluoride (PVDF) resins. Alumitex carries over 30 standard colors in the stock program and meet the AAMA 2605-98 specification requirements. Minimum quantities may apply to producing standard colors.

7. Sizes

ACM is manufactured in the standard thickness of 5/32" (4mm). Standard sheet widths are 40" (1020mm), 49" (1250mm) and 62" (1575mm). Maximum length of 19'6" (6000mm).

8. Limitations

Non-load bearing use only.

9. Installation

Elemex is a custom manufacturer specializing in the fabrication of aluminum composite panels. Elemex will fabricate the wall panels according to the project specifications and approved shop drawings after site verification of dimensions. Installation is performed by a qualified installation company.

10. Precautions

Elemex takes great care to ensure that all brackets, clips or other fixing devices that come in direct contact with the panel are made from aluminum to avoid electrolytic decay. In situations where the aluminum clips could come in contact with another metal, they will be separated by an isolation tape or similar insulators to prevent corrosion from electrolytic decay.

11. Building Codes

Elemex panels meet or exceed the local building code requirements of North America.

12. Availability & Costs

Elemex can arrange to ship fabricated metal products anywhere in North America.



Architectural Facade Systems

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13. Product Technical Data

ASTM D1781 - Standard test method for climbing drum peel for adhesives

ASTM E8 - Standard test method for tension testing of metallic materials

ASTM C297 - Standard test method for tensile strength on flat sandwich construction in flatwise plane

ASTM C273 - Standard test method for shear properties of sandwich core materials

ASTM C393 - Standard test method for flexural properties of sandwich construction

ASTM C518 - Standard test method for steady-state thermal transmission properties by means of the heat flow meter apparatus

ASTM D648 - Standard test method for deflection temperature of plastics under flexural load in the edgewise position

ASTM D696 - Standard test method for coefficient of linear thermal expansion of plastics between -30°C and 30°C with a vitreous silica dilatometer

Fire Test Data

NFPA 285 - Standard test method for evaluation of fire propagation characteristics of exterior non-load-bearing wall assemblies containing combustible components

ASTM E84 - Standard test method for surface burning characteristics of building materials

CAN/ULC S-134 - Standard test method for fire testing of exterior wall assemblies. (ACM FR)

Systems Technical Data

AAMA 508-07 - Standard test method for pressure equalization behavior & water penetration resistance

ASTM E283 - Standard test method for determining the rate of air leakage through exterior windows, curtain walls, and doors under specified pressure difference across the specimen

ASTM E330 - Standard test method for structural performance of exterior windows, curtain walls, and doors by uniform static air pressure difference

ASTM E331 - Standard test method for water penetration of exterior windows, curtain walls, and doors by uniform static air pressure difference

14. Warranty

Standard 1 year construction warranty. Contact manufacturer for finish warranty information.

15. Maintenance

The high performance PVdF finish coating requires virtually no maintenance. Cleaning the panels, with water and a mild detergent, on a regular basis will enhance the look of the panels. Instructions on cleaning methods are available from the manufacturer.

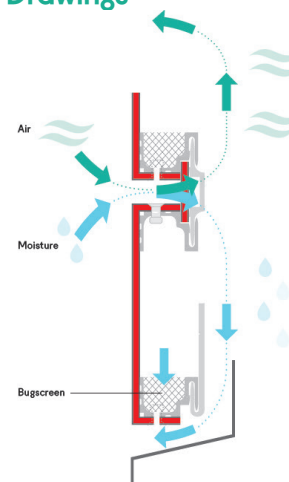
16. Technical Services

Elemex can provide consultation suggestions for preliminary design right through to product application, including the following: Advice for both new work and retrofit applications, Finish samples, Specification assistance, Shop drawings

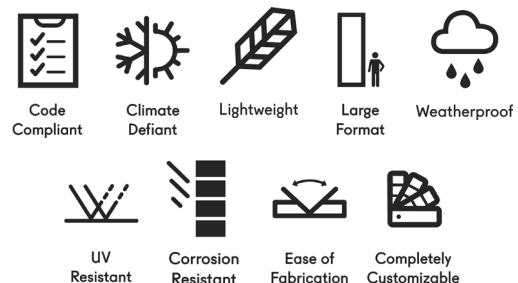
17. Related References

A.A.M.A. technical literature is available from the American Architectural Manufacturers Association. For referenced ASTM standards, visit the ASTM website at www.astm.org or contact ASTM Customer Service at service@astm.org.

18. Assembly Drawings



19. Features and Benefits



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