# PRODUCT SPECIFICATION GUIDE

# MODEL: EXTRUDED ALUMINUM PENTHOUSE

# DIVISION 23 – HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

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Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) Format.

The section must be carefully reviewed and edited by the Engineer to meet the requirements of the project and local building code. Coordinate with other specification sections and the drawings.

Delete all "Specifier Notes" when editing this section.

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SECTION 23 37 23

EXTRUDED ALUMINUM PENTHOUSES

1. GENERAL

1.1 SECTION INCLUDES

* + - * 1. Extruded Aluminum 4" Frame Horizontal J-Blade Mitered Corner Penthouse.

1.2 RELATED SECTIONS

* + - * 1. Section 03 30 00 – Cast-in-Place Concrete
        2. Section 04 20 00 – Unit Masonry.
        3. Section 05 10 00 – Structural Metal Framing.
        4. Section 06 10 00 – Rough Carpentry.
        5. Section 07 42 00 – Metal Wall Panels.
        6. Section 07 60 00 – Flashing and Sheet Metal.
        7. Section 07 92 00 – Joint Sealants.
        8. Section 08 95 00 – Vents.
        9. Section 09 91 13 – Exterior Painting.

1.3 REFERENCES

* + - * 1. AAMA 2604 – High Performance Organic Coatings on Aluminum Extrusions and Panels.
        2. AAMA 2605 – Superior Performance Organic Coatings on Aluminum Extrusions and Panels.
        3. AMCA 500-L – Laboratory Methods of Testing Louvers for Rating.
        4. AMCA 511 – Certified Ratings Program for Air Control Devices.
        5. ASCE 7 – Minimum Design Loads for Buildings and Other Structures.
        6. ASTM B209 – Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
        7. ASTM B221– Standard Specifications for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wires, Profiles, and Tubes.
        8. ASTM D822 – Standard Practice for Filtered Open-Flame Carbon-Arc Exposure of Paint and Related Coatings.
        9. ASTM D4214 – Standard Test Method for Evaluating the Degree of Chalking of Exterior Paint Films.
        10. ASTM D2244 – Standard Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates.

1.4 SUBMITTALS

* + - * 1. Comply with requirements of Section 01 33 00 - Submittal Procedures.
        2. Product Data: Submit manufacturer's product data.

Manufacturer’s product data including performance data.

Preparation instructions and recommendations.

Storage and handling requirements and recommendations.

Installation methods.

* + - * 1. Shop Drawings: Submit shop drawings indicating materials, construction, dimensions, accessories, and installation details.
        2. Samples: Submit color chip sample for units with factory-applied paint.

1.5 QUALITY ASSURANCE

* + - * 1. Penthouses shall be warranted against manufacturing defects for a period of 5 years.

1.6 DELIVERY, STORAGE, AND HANDLING

* + - * 1. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly indicating manufacturer, material, and location of installation.
        2. Storage: Store materials in a dry area indoor and protected from damage and in accordance with manufacturer’s instructions.
        3. Handling: Protect materials and finishes during handling and installation to prevent damage.
        4. Store and dispose of solvent-based materials, and material used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.7 PROJECT CONDITIONS

* + - * 1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by the manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer’s absolute limits.

1. PRODUCTS

2.1 MANUFACTURER

* + - * 1. All-Lite, 5101 Blue Mound Road, Fort Worth, TX 76106. Phone (817) 509-2300 [www.alllite.com](http://www.alllite.com).

2.2 EXTRUDED ALUMINUM PENTHOUSE

* + - * 1. Model: EFJ-437-MPH
        2. Construction:

Material: Mill finish 6063-T5 extruded aluminum.

Frame: 3 ¼" deep x 0.125" thick (102 x 3) ‘Z’ channel.

Blades: 4" deep x 0.081" (2) thick x 37-degree J-style. **[4" deep x 0.125" (3) thick x 37-degree J-style]**

Screen: ½" x 0.063" (12.7 x 1.6) expanded and flattened aluminum. [**18-by-16 (1.4-by-1.6mm) mesh aluminum insect screen**]

Corners: Mitered

Roof: 0.080" (2) thick formed aluminum with anti-condensate roof undercoating. **[0.125" (3) thick formed aluminum with anti-condensate roof undercoating]**

* + - * 1. Design Load:

Wind Load: Penthouse designs shall withstand the effects of 25 psf (1.2 kPa) of uniform pressure acting in any direction.

Seismic Performance: Penthouse, including attachments to other construction, shall withstand seismic effects determined by ASCE 7.

2.3 ACCESSORIES

* + - * 1. Blank-Off Panels

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Specifier Notes: Select one of the following.

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* Non-insulated, aluminum, 0.050-inch (1.27mm) nominal thickness, black finish, factory installed.
* Insulated, aluminum skin with 1-Inch (25mm) insulated core, closure frame with perimeter gasket, black finish, and factory installed.
* Insulated, aluminum skin with 2-Inch (51mm) insulated core, closure frame with perimeter gasket, black finish, and factory installed.
  + - * 1. Extended sills, aluminum, 0.032-inch (0.81mm) nominal thickness, finished to match penthouse.

2.4 FINISHES

* + - * 1. Finish penthouse after assembly as follows:

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Specifier Notes: Select one of the following.

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* Mill finish
* Baked Enamel or Powder Coat Finish: Immediately after cleaning and pretreating, apply manufacturer’s standard 2-coat baked-on finish consisting of prime coat and thermosetting topcoat, with a minimum dry thickness of 1 mil (0.025mm) for topcoat to comply with coating manufacturer’s written instructions.
  + Color and Gloss: [**As indicated by manufacturer’s designations**] [**Match Architect’s sample**] [**As selected by Architect from manufacturer’s full range**] <**Insert color and gloss**>
* Clear Anodize: Complying with AA-C22A41, Class-1, 0.7 mils (0.018mm) minimum thickness.
  + - * Color: Clear 215-R1
* Integral Color Anodize: Complying with AA-C22A44, Class-1, 0.7 mils (0.018mm) minimum thickness
  + - * Color: [**Champagne**] [**Light** **Bronze**] [**Medium Bronze**] [**Dark Bronze**] [**Black**]

1. EXECUTION

3.1 EXAMINATION

* + - * 1. Examine substrates and openings for compliance with requirements for installation tolerances and other conditions affecting performance.
        2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

* + - * 1. Clean mating surfaces thoroughly prior to installation.
        2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

* + - * 1. Install penthouse at locations as indicated on the drawings and in accordance with manufacturer’s instructions.
        2. Install penthouse plumb, level, and in alignment with adjacent work.
        3. Install joint sealants as specified in Section 07 90 00.

3.4 CLEANING

* + - * 1. Clean exposed surfaces of penthouses with water and mild soap or detergent not harmful to finish taking care to remove fingerprints and soil. Thoroughly rinse surfaces and dry. Do not let soil accumulate during construction period.
        2. Touch-up, repair, or replace penthouses damaged during installation and construction so that no evidence remains of the corrective work.

END OF SECTION