

## **SECTION 07 46 16**

### **ALUMINUM LINEAR METAL PANEL SYSTEMS**

#### **Zeeff Panel Systems – Linear Series**

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#### **PART 1 – GENERAL**

##### **1.1 RELATED SECTIONS**

- .1 Section 05 40 00 – Cold-Formed Metal Framing: Metal framing for support of aluminum panel systems.
  - .2 Section 01 74 21 – Construction/Demolition Waste Management and Disposal.
  - .3 Section 06 10 00 – Rough Carpentry.
  - .4 Section 07 62 00 – Sheet Metal Flashing and Trim.
  - .5 Section 07 92 00 – Joint Sealants.
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##### **1.2 REFERENCES**

###### **.1 ASTM – American Society for Testing and Materials**

- ASTM C423 – Sound Absorption and Sound Absorption Coefficients (NRC)
- ASTM E84 – Surface Burning Characteristics of Building Materials
- ASTM E136 – Non-Combustibility of Materials
- ASTM E283 – Air Leakage of Exterior Wall Assemblies
- ASTM E331 – Water Penetration of Exterior Wall Assemblies
- ASTM E2768 – Extended Duration Surface Burning Characteristics (30-minute tunnel test)

###### **.2 UL / ULC**

- UL 723 – Surface Burning Characteristics
- CAN/ULC S102 – Surface Burning Characteristics of Building Materials
- CAN/ULC S114 – Non-Combustibility

###### **.3 AAMA – American Architectural Manufacturers Association**

- AAMA 2604 – High Performance Organic Coatings

- AAMA 2605 – Superior Performance Organic Coatings
  - AAMA 509 – Drained and Back-Ventilated Rainscreen Wall Cladding Systems
  - AAMA 501.1 – Dynamic Water Penetration
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### **1.3 SUBMITTALS**

- .1 Product Data: Manufacturer's technical data sheets and specifications for Linear Series panels and accessories.
  - .2 Samples: Submit two (2) 6" x 6" samples of panel material, finish, and profile specified.
  - .3 Shop Drawings: Indicate panel dimensions, profiles, joint conditions, attachment methods, wall elevations, trims, and accessories.
  - .4 Certifications: Manufacturer certifications demonstrating compliance with specified standards.
  - .5 LEED Submittals: Product data contributing toward LEED credits, where applicable.
  - .6 Installation Instructions: Manufacturer's written installation instructions.
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### **1.4 LEED**

- .1 Material & Resources
    - MR Credit: Construction Waste Management
  - .2 Indoor Environmental Quality
    - EQ Credit: Low-Emitting Materials
  - .3 Innovation
    - ID Credit: Biophilic Design (woodgrain and natural finishes)
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### **1.5 WARRANTY**

- .1 Provide manufacturer's written warranty covering finish and material performance for **10 to 20 years**, dependent on project exposure zone and coating selection.
  - .2 Warranty covers replacement of defective materials only. Installation deficiencies are the responsibility of the installer.
  - .3 Manufacturer shall not be liable for incidental or consequential damages.
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## **PART 2 – PRODUCTS**

### **2.1 LINEAR METAL PANEL SYSTEM**

.1 Manufacturer:

#### **Zeeff Panel Systems**

Linear Series Aluminum Plank System

.2 Material:

- Aluminum alloy **5052**
- Base Metal Thickness: **.063 inch**

.3 Panel Sizes (Nominal):

- 6" x 120"
  - 7" x 120"
  - 8" x 120"
  - 10" x 120"
  - 12" x 120"
- (Custom lengths available)

.4 Panel Depth:

- Minimum: **1 inch**
- Maximum: **3 inches**

.5 Finish:

- Factory-applied **Powder Coating (FEVE)**
- Color as selected by Architect
- Gloss level per manufacturer's standard

.6 Panel Joints:

- **1/2 inch horizontal joint** between panels

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### **2.2 ATTACHMENT & ACCESSORIES**

.1 Attachment System:

- Integrated **Linear Series concealed attachment design** allowing for thermal movement
- Clip-free or integrated wind-clip system per Zeeff Panel Systems standard details

.2 Fasteners:

- Stainless steel or corrosion-resistant fasteners as recommended by manufacturer
- Fasteners concealed where possible

.3 Trims and Accessories:

- Starter tracks, termination trims, reveals, corners, and transitions
- Fabricated from aluminum
- Finished to match panel system unless noted otherwise

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## **2.3 MANUFACTURER**

Zeeff Panel Systems  
United States  
info@zeeffpanels.com  
www.zeeffpanels.com

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## **PART 3 – EXECUTION**

### **3.1 ORDERING, DELIVERY, STORAGE & HANDLING**

- .1 Order materials in accordance with manufacturer's lead times.
  - .2 Deliver panels in manufacturer's original packaging.
  - .3 Store panels off the ground, covered, ventilated, and protected from moisture and damage.
  - .4 Do not store panels in contact with dissimilar materials.
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### **3.2 INSTALLATION**

- .1 Install Linear Series panels in accordance with Zeeff Panel Systems' written instructions and approved shop drawings.
- .2 Install panels to allow for thermal expansion and contraction.
- .3 Secure panels to solid framing or approved substructure.

- .4 Install accessories and trims with positive anchorage and alignment.
  - .5 Do not install damaged panels; replace as required.
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### **3.3 CLEANING**

- .1 Upon completion, remove debris and construction residue.
  - .2 Clean panels in accordance with manufacturer's recommendations.
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**END OF SECTION 07 46 16**