

# Special Specification 6371

## Illuminated Weathering Steel Earwall Panel



### 1. DESCRIPTION

Furnish, fabricate, and install illuminated weathering steel earwall panels with light-emitting diode (LED) fixtures. An illuminated weathering steel earwall panel is the complete assembly of the weathering steel panel, LED light source, power supply, components, mounting hardware, and other hardware constituting a complete and structurally sound illuminated unit.

### 2. MATERIALS

Use new materials conforming to the details shown in the plans and the pertinent requirements of the following Standard Specification Items:

- Item 449, "Anchor Bolts,"
- Item 616, "Performance Testing of Lighting Systems,"
- Item 618, "Conduit," and
- Item 620, "Electrical Conductors."

2.1. **Submittals.** Furnish 2 sets of submittals of the panels with weathering steel panel, LED fixtures, and all mounting hardware to the Engineer at the project address. Do not purchase materials or begin work before these submittals are approved.

2.2. **Weathering Steel Panel.** Water-jet cut 2 foot tall letters in Times New Roman font into 3/8 weathering steel panel. All edges and faces to be smooth and clean of burrs, metal shavings, paint, and foreign material. Provide an SSPC-SP 6 blast in the shop to all surfaces of unpainted weathering steel panels. Allow panels to develop natural patina on all faces by storing outside, uncovered, for a minimum of 12 weeks before installation.

2.3. **LED Fixture:**

2.3.1. **General Requirements.** Provide a LED fixture with the length and mounting type as detailed in the plans.

2.3.2. **Type 1.**

2.3.2.1. **Option 1:** Essential LEDs 5SLW-6760-40-BL-PG-CUSTOM-72UL; or

2.3.2.2. **Option 2:** Approved equivalent according to the following specifications:

- Lamp Spec: Linear luminaire, 875 lm/ft, 6.5 w/ft (39.0w total), 85 CRI – LED fixture. Power is provided through a 4ft power cable provided by manufacturer. For use with LED lamps, operating from integral electronic control gear.
- Housing: Shall be a linear, exterior rated square extrusion, black in color, measuring 0.75" wide x 0.70" high x 72.05" long
- Distribution: 94 degrees
- Watts: 39
- Clear acrylic lens
- UL listed
- IP67 Rated
- Color Temp.: 4000K

- Suitable for damp and wet environments
- All LEDs binned to within 2 MacAdam ellipse CCT tolerance of +/- 60°K

### 2.3.3 Type 2.

2.3.3.1 **Option 1:** Essential LEDs 5SLW-6760-40-BL-PG-CUSTOM-36UL; or

2.3.3.2 **Option 2:** Approved equivalent according to the following specifications:

- Lamp Spec: Linear luminaire, 875 lm/ft, 6.5 w/ft (39.0w total), 85 CRI – LED fixture. Power is provided through a 4ft power cable provided by manufacturer. For use with LED lamps, operating from integral electronic control gear.
- Housing: Shall be a linear, exterior rated square extrusion, black in color, measuring 0.75" wide x 0.70" high x 36.61" long
- Distribution: 94 degrees
- Watts: 19.5
- Clear acrylic lens
- UL listed
- IP67 Rated
- Color Temp.: 4000K
- Suitable for damp and wet environments
- All LEDs binned to within 2 MacAdam ellipse CCT tolerance of +/- 60°K

2.4. **Warranty.** The manufacturer will replace failed fixtures, when non-operable due to defect in material or workmanship, within five years of installation.

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## 3. CONSTRUCTION

Perform work in accordance with the details shown on the plans in accordance with the manufacturers' requirements and the requirements of this Item.

Use established industry and utility safety practices when installing panels and luminaires. Prevent scarring or marring of panels and fixtures. Replace damaged components.

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## 4. MEASUREMENT

This Item will be measured as each Illuminated Weathering Steel Earwall Panel.

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## 5. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Install Illuminated Weathering Steel Earwall Panels."

This price is full compensation for furnishing, installing, and testing LED fixtures, drivers, all necessary feed wire, surge protection, and all miscellaneous appurtenances to LED lighting; furnishing and installing weathering steel panels, brackets, anchoring, templates, and connections; conducting system performance testing; and materials, equipment, labor, tools, and incidentals.

New conduit will be paid for under Item 618, "Conduit." New conductors, except the conductors internal to the pole, will be paid for under Item 620, "Electrical Conductors." New duct cable will be paid for under Item 622, "Duct Cable." New ground boxes will be paid for under Item 624, "Ground Boxes." New electrical services will be paid for under Item 628, "Electrical Services."