

DIVISION 26 00 00
SECTION 26 50 00
SECTION 26 56 00

ELECTRICAL
LIGHTING
EXTERIOR LIGHTING
HELIO BOLLARD

Part 1 General

01. Summary

A. Section Includes:

1. Helio Bollard, Series 600, 6" diameter column, illuminated
2. Helio Bollard, Series 600, 6" diameter column, non-illuminated

02. Submittals

A. Provide submittals in accordance with Section 01 33 00 – Submittal Procedures.

B. Product data:

1. Manufacturer's standard product literature.
2. Shop drawings.
3. Installation instructions.
4. Maintenance instructions.

C. Submit finish samples for approval.

03. Quality Assurance

A. Manufacturer Qualifications:

1. Minimum 15 years experience in the manufacture of outdoor lighting.
2. Provide reference list of at least ten major transportation authorities, municipalities, universities, or other high-use public environments currently using outdoor lighting fabricated by the manufacturer.

04. Delivery, Storage and Handling

A. Handle products in accordance with manufacturer's instructions.

B. Store products in manufacturer's original packaging until ready for installation.

C. Protect products from impacts and abrasion during storage.

05. Warranty

A. Provide manufacturer's standard warranty:

1. Warranty terms: one year from date of invoice against defects in materials and workmanship.

Part 2 Products

01. Manufacturer

A. Basis-of-design product: provide bollards based on the product named.

1. Helio Bollard by Forms+Surfaces

2. Manufacturer Contact:

Forms+Surfaces
30 Pine Street
Pittsburgh, PA 15223
phone: 800-451-0410

fax: 412-781-7840
email: sales@forms-surfaces.com
website: www.forms-surfaces.com

B. Bollards

1. Materials:

- a. Body: Stainless steel.
- b. Base: Aluminum.
- c. Head Cap: Stainless steel casting.
- d. Lens: .118" thick colorless acrylic.
- e. LED Driver: Input voltage is 120-220 VAC nominal. Includes constant output current, with over-voltage, short circuit, overload protection, and has 0-10V dimming capabilities. Certifications include: IP66 (waterproof) enclosure, and Class 2 rated output (UL8750).
- f. LED Light Engine (for illuminated bollards) (Select color temperature below):
 - 1) LED 3000K:
 - A) 32W custom LED light engine.
 - B) Luminaire lumens: 643.
 - C) Color temperature: 3,000K.
 - 2) LED 4000K:
 - A) 32W custom LED light engine.
 - B) Luminaire lumens: 643.
 - C) Color temperature: 4,000K

2. Finishes:

- a. Body and Head Cap:
 - 1) Satin.
 - 2) Polyester powdercoat (Select one option below):
 - A) Standard Texture/Gloss from Forms+Surfaces Powdercoat Chart.
 - B) Premium Texture/Gloss from Forms+Surfaces Powdercoat Chart.
 - C) Custom RAL powdercoat color.

- b. Base: Custom powdercoat.

3. Dimensions: 41" high x 6" diameter.

4. Mounting:

- a. Surface mount with J-bolts. Templates available upon request.

Part 3 Execution

01. Examination

- A. Verify that substrates are stable and capable of supporting the weight of items covered under this section.
- B. Verify that substrates have been adequately prepared to securely anchor those items that will be surface mounted.

02. Installation

- A. Install according to the manufacturer's installation instructions.
- B. Install in conformance to applicable ADA guidelines and End User's established accessibility policies.

END OF SECTION