BEVELTM LIGHT BOLLARD | CSI Guide Specification

DIVISION 12 00 00 FURNISHINGS
SECTION 12 93 00 SITE FURNISHINGS
SECTION 12 93 53 BOLLARDS
BEVEL LIGHT BOLLARD

PART 1 GENERAL

1.01 WORK INCLUDED

A. Section Includes: Factory molded, glass fiber reinforced ultra high performance concrete (UHPC) manufactured bollards for exterior and interior applications.

1.02 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.03 SUBMITTALS

- A. Provide submittals in accordance with Division 01 Section Submittal Procedures.
- B. Product data:
 - 1. Manufacturer's standard product literature.
 - 2. Shop drawings.
 - 3. Maintenance instructions.
- C. Samples: Representative of finished exposed face of UHPC. For each color specified, submit a minimum of two samples, each not less than 4 by 4 inches (101.6 by 101.6 mm).

1.04 DELIVERY, STORAGE AND HANDLING

- A. Deliver [exterior] [and] [interior] UHPC manufactured bollard components packaged to comply with UHPC bollard manufacturer's requirements and adequately protected from damage during shipment.
- B. Store products in manufacturer's original packaging, covered with tarpaulins or other suitable weather-tight ventilated covering until ready for installation.
- C. Protect products from impacts and abrasion during storage.

1.05 WARRANTY

- A. Provide manufacturer's standard warranty.
 - 1. Warranty terms: one year from date of invoice against defects in materials and workmanship.

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PART 2 PRODUCTS

2.01 EXTERIOR [AND INTERIOR] UHPC BOLLARDS

- A. Basis of Design Product/Manufacturer: BEVEL™ [Exterior] [and] [Interior] Bollard Model #SLBBVL as distributed by SITU™ Urban Elements, manufactured with TAKTL® ultra high performance concrete and reinforced with alkali-resistant (AR) glass mesh. Subject to compliance with requirements, provide either the named product or approved equal.
 - 1. Manufacturer Contact:

SITU Urban Elements

A TAKTL Company

1120 William Flynn Highway

Glenshaw, PA 15116

phone: 412-486-1600

email: info@situ-urban.com

website: www.situ-urban.com | www.taktl-llc.com

- B. Bollards(s)
 - 1. Materials:
 - a. Body: TAKTL glass fiber reinforced ultra high performance concrete (UHPC).
 - 1) TAKTL Material Performance Characteristics:
 - 1. Compressive Strength: ≥ 18,275 lbs./in² (126 MPa).
 - 2. Flexural Strength: ≥ 2,756 lbs./in² (19 MPa).
 - 3. Tensile Strength: 1,160 lbs./in² (8 MPa).
 - 4. Water Absorption: < [measurable limit (kg/m x h0.5)] [3.5%].
 - b. Light and lens: Custom LED with acrylic lens.
 - c. Fasteners: AISI 316 stainless steel.
 - 2. Finish:
 - a. SITU Urban Elements "Matte" finish.
 - 3. Color:
 - a. SITU Urban Elements "Natural" finish.
 - 4. Color is integral throughout the material.
 - 5. Dimensions and Weight:
 - a. Bollard Dimensions: 7" long x 4.6" deep x 30" high.
 - b. Bollard Weight: 100 lbs. (45.36 kg).
 - 6. Mounting:
 - a. Surface mount. Provide installation hardware when surface mount is specified.
 - 7. Locations and Quantities: as indicated.

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PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine structures and conditions for compliance with requirements for installation tolerances, true and level bearing surfaces, and other conditions affecting performance of the Work.
- B. Verify that substrates are stable and capable of supporting the weight of items covered under this section.
- C. Verify that substrates have been adequately prepared to securely anchor those items that will be surface-mounted.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

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

END OF SECTION