

650LED MILFORD LIGHTED BOLLARD SPECIFICATIONS

GENERAL

The Model 650LED decorative lighted bollard shall be aluminum, one-piece construction. The 15" diameter cast aluminum fluted base shall be constructed with a 7" diameter straight fluted aluminum shaft. The Model shall be Sternberg Lighting #650LED lighted bollard or #650LED-QR quick release lighted bollard. The bollard shall be U.L. or E.T.L. listed in U.S. and Canada.*

CONSTRUCTION

The base shall be designed with a fluted bell shaped lower section. The upper base shall have an extruded fluted shaft with 12 flat flutes. It shall have a 3/16" wall thickness and be made of cast aluminum 356 alloy and ASTM 6061 aluminum tempered to a T6 condition. It shall have a 7/8" thick floor cast as an integral part of the base. The bollard cap will be cast aluminum. The overall height of the bollard shall be 42". (For other heights, consult factory).*

ELECTRICAL / LED

The optical assembly shall be constructed of twelve (12) fluted openings with a white acrylic lens. The LED light source shall have an IP65 rated assembly. The assembly shall consist of highly efficient, four (4) [optional three (3)] sided extruded aluminum heat sink, four (4) [optional three (3)] LED boards with 6 each high brightness LEDs and a sealed acrylic tube. The bollard shall be supplied with electrical surge protection in accord with IEEE/ANSI C62.41.2 and shall be U.L. or E.T.L. Listed in U.S. and Canada. The LED lighted bollard shall have an L70 expected life of 70,000 hours with the LED life ratings determined in accordance with IESNA LM-80. The electronic LED driver shall be a U.L. Recognized, constant current design with THD<20%.

QUICK RELEASE MOUNTING (Optional)

The Model 650LED-QR shall have a quick release option which allows quick removal of the bollard for convenience or emergency access. The burial portion shall be made of aluminum extrusion and shall have a keyway and flexible connection system for securing to bollard. The bollard shall have a mated extension and anti-rotation key and padlock slot. The quick release system shall allow for a flush pavement installation after temporary bollard removal.

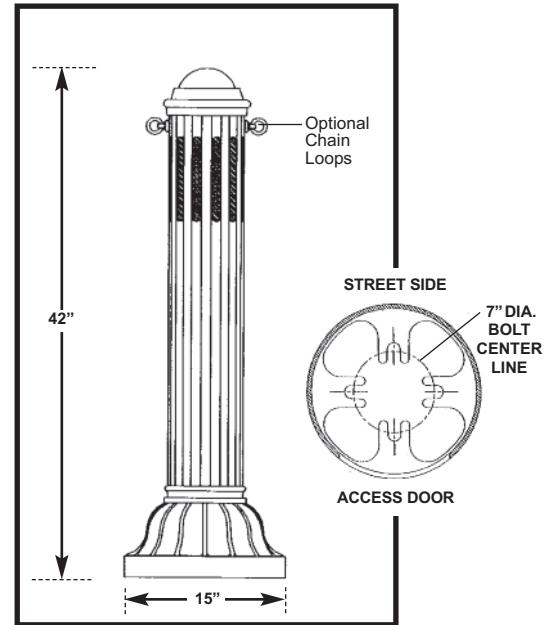
FINISH

Prior to coating, each assembly shall be chemically cleaned and etched in a 5-stage washing system which includes alkaline cleaning, rinsing, phosphoric etching, reverse osmosis water rinsing, and non-chrome sealing to ensure corrosion resistance and excellent adhesion for the finish coating. The finish coating shall be electrostatically applied semi-gloss, super durable polyester powder baked at 400 degrees for a durable and superior, color retentive finish. Our optional antique Verde Green finish and Swedish Iron finish are hand brushed using a 3-step process. The total assembly shall be wrapped in shockproof wrapping or fully enclosed in corrugated cartons.


INSTALLATION

Four, hot dipped galvanized "L" type anchor bolts shall be provided with the post for non-quick release bollard anchorage. Quick release anchorage requires no anchor bolts. A door shall be provided for wiring and anchor bolt access. It shall be secured with tamper-proof, stainless steel hardware. Bollard will be provided with a grounding stud mounted on the base floor opposite the access door.

WARRANTY Seven (7) year limited warranty. See product and finish warranty guide for details.



See installation template for exact door position.

BUILDING A PART NUMBER				PART NUMBER SELECTIONS									
BOLLARD MODEL	OPTIONAL CHAIN LOOP	LIGHT SOURCE	DRIVER	OPTIONS	FINISH	MODELS	LIGHT SOURCES	STANDARD FINISHES*	• RT Rust	• WBR Weathered Brown	• CD Cedar	• WBK Weathered Black	• TT Two Tone
650LED	CL2	3S45TLCA	ML	FHD	VG	<ul style="list-style-type: none"> • 650LED • 650LED-QR 	<ul style="list-style-type: none"> • 4S60TLCA 30W 6000K Type V • 4S45TLCA 30W 4500K Type V • 4S35TLCA 30W 3500K Type V • 3S60TLCA 23W 6000K Type V • 3S45TLCA 23W 4500K Type V • 3S35TLCA 23W 3500K Type V 	<ul style="list-style-type: none"> • BKT Black Textured • WHT White Textured • PGT Park Green Textured • ABZT Architectural Medium Bronze Textured • DBT Dark Bronze Textured 	<ul style="list-style-type: none"> • SI Swedish Iron • OWGT Old World Gray Textured 	<ul style="list-style-type: none"> • FHD Dual Fuses and Holder • GFI Ground Fault Interrupter Duplex Outlet¹ 			
						<p>DRIVERS</p> <ul style="list-style-type: none"> • ML-120-277V • MDL- Dimming 120-277V 	<p>OPTIONAL CHAIN LOOP</p> <ul style="list-style-type: none"> • CL1 Chain Loop • CL2 Chain Loops 180° 	<p>CUSTOM FINISHES</p> <ul style="list-style-type: none"> • Ol Old Iron 	<p>STERNBERG SELECT FINISHES</p> <ul style="list-style-type: none"> • VG Verde Green • SI Swedish Iron • OWGT Old World Gray Textured 	<p>OPTIONS</p> <ul style="list-style-type: none"> • PEC1¹ Photocell-Bimetal 120 Volt • PEC2¹ Photocell-Bimetal 208-277 Volt • PEC1-E¹ Photocell-Electronic 120 Volt • PEC2-E¹ Photocell-Electronic 208-277 Volt • LP Low Power/ Reduced Output 11W (3S TLCA only) 			
<p>* NOTES</p> <p>¹U.L. listed components only. Bollard is not U.L. or E.T.L. listed with a photocell.</p>						<p>TO ORDER CHAIN: Specify total length of chain required for project.</p>	<p>*Smooth Finishes are available upon request</p>	<p>¹GFI not available with QR option</p>					