



# Sentinel™ Bollard

May 2012

With our roots in the landscape and a stated purpose to “Enrich Outdoor Spaces,” Landscape Forms has a special relationship to the natural environment. We have always been mindful that as we design and manufacture products that are acted upon by the environment, we act upon it in turn. Environmental sustainability is completely consistent with our purpose, our goals, our values and our principles. We make stewardship of the environment a vital part of our business.

To learn more about our sustainability initiatives, refer to our [Environmental Statement](#).

## SENTINEL IS MANUFACTURED USING THE FOLLOWING MATERIALS:

Material	Parts	Recyclable
steel	internal tube, surface mount plate	100%
aluminum	bollard sleeve, top casting	100%
stainless steel	some hardware, removable	100%
	bollard apparatus	
polyurethane	lens	100%
various, see guide specs	lighting components	

### Finishing

All metal is finished with Pangard II® polyester powdercoat, which is lead-free, hazardous air pollutants-(HAPS) free, does not generate hazardous waste, and contains less than 1% VOCs. Once processed, these trace VOCs are fully inert therefore the finish does not release airborne contaminants.

Packaging Materials	Parts	Recyclable
biodegradable plastic	product bagged to protect finish	100%
recycled skid		100%
cardboard with 35% recycled content		100%

To find local recyclers visit: for steel: [www.recycle-steel.org](http://www.recycle-steel.org); for cardboard: [www.corrugated.org](http://www.corrugated.org).

### LEED®

This product may help achieve the following points under the LEED 2009 Rating System. For specifics regarding rules for the inclusion of furniture, please consult the rating system and reference guide that applies to your project.

### EA Credit 2: Optimize Energy Performance

#### Intent

To achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.

This product utilizes LED technology. LED's, are extremely energy efficient. Today's high-performance LED's produce @90 lumens per watt (90 lm/W) in comparison to @15 lm/W for conventional 60-100 watt incandescent bulbs. Using LED technology can help reduce excessive energy use to assist in obtaining this credit.

## Materials and Resources

### MR Credit 4, Recycled Content

#### Intent

To increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.

#### Recycled Content

Style	Post Consumer	Pre Consumer
bollard	41	26
security sleeve	21	19

---

## CARE AND MAINTENANCE

Sentinel is designed and engineered to live a long, useful life in outdoor spaces without the use of chemical cleaners to maintain the finish. The durability, longevity and low maintenance of our products contribute to responsible stewardship of the earth's resources.

All metal is finished with Landscape Forms' proprietary Pangard II® polyester powdercoat, a hard yet flexible finish that resists rusting, chipping, peeling and fading and requires no cleaning solvents once installed. Clean surface as needed using a soft cloth or brush with a mild detergent. Avoid steam cleaning, abrasive cleansers, carbon steel brushes/wools and cleaners containing chlorine. Outdoor use will require periodic finish inspection and maintenance. Inspect periodically for scratches, nicks and gouges. Touch-up paint is included with every order and can be used to repair minor nicks and scratches.

Polyurethane lens may be scrubbed with warm soapy water and soft bristle brush. Pressure washing, steel wool/wire brushes are not recommended.