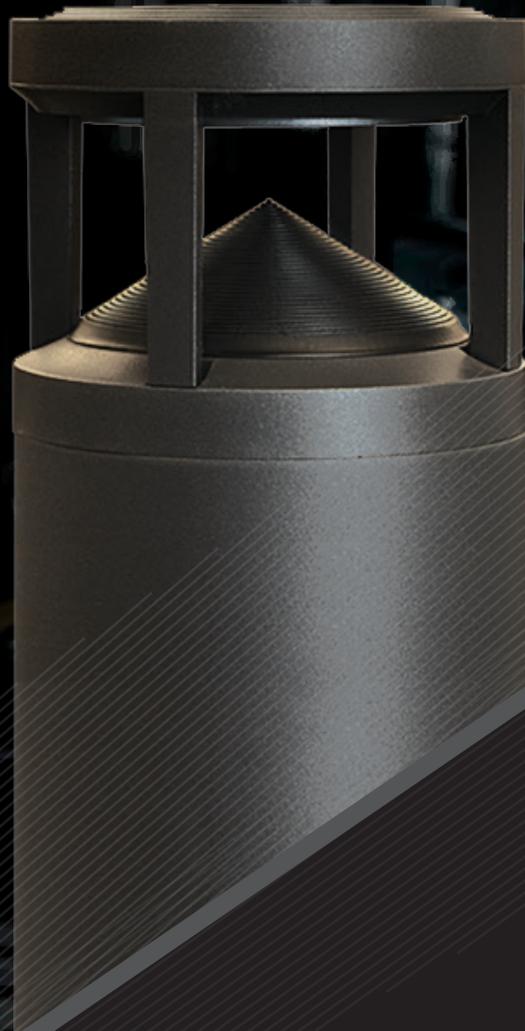


APPLICATION  
GUIDE

Pavilion<sup>™</sup>  
impact bollard



**KIM**LIGHTING

Current 



ARCHITECTURAL IMPACT BOLLARD

# family

The Pavilion Round Impact Bollard consists of two 44" tall products:

- The lit bollard offers Pavilion's 8 optical options, 6 distribution types, control options, battery backup and the optional RGBW color changing ring with flat or crowned tops.
- The non-lit, or blind bollard, offers the crowned or flat top and matches the design language of the Pavilion.
- Matching 44" *non-impact rated* bollard to match a project for environments where a mix of impact and non-impact rating bollards are required

These two Architectural impact bollards can be used singularly or in concert with each other to provide an architectural aesthetic where safety and security of people

and property are required. The typical applications are parking lots, pedestrian walkways, defining a traffic pattern and malls to protect storefronts.



Pavilion  
Impact  
BOLLARD

**History**

People have been driving into buildings and installing security devices for centuries starting with the invention of the carriage. One of the first recorded bollards was documented in 1721 consisting of two oak posts installed to secure Waltham Cross from injury by carriages.

IMPACT.  
**rating**

The Pavilion Impact Bollard, joins the Pavilion family, is ASTM F3016 S20 rated and designed to provide additional security from vehicles weighing up to 5,000 pounds traveling up to 20 mph protecting people and property. The American Society for Testing and Materials (ASTM) is an international standards organization that develops and publishes voluntary consensus technical standards for a wide range of materials, products, systems, and services. The S20 rating is the standard for parking lot applications.

Kim's impact bollard systems are full-scale crash tested by an independent accredited test agency to meet ASTM F3016 and proven safety solutions for stopping a 5,000-lb passenger truck at 10, 20, or 30 mph. These should not be confused with "engineered solutions" where calculations or finite element analyses are performed to estimate the bollard's performance. Full documentation is available showing these bollards have been real-world, dynamically tested to meet the rigorous criteria of ASTM F3016 and will perform as specified.



STANDARD TEST METHOD	CONDITIONAL DISIGNATION	TEST WEIGHT (LB)	TEST VEHICLE CLASS
ASTM F3016 / F3016M	S20		Passenger pickup surrogate
TEST SPEED (MPH)	KINETIC ENERGY (KIP-FT)	MOMENTUM (KIP-S)	
20	66.8		

# design

CONSIDERATIONS



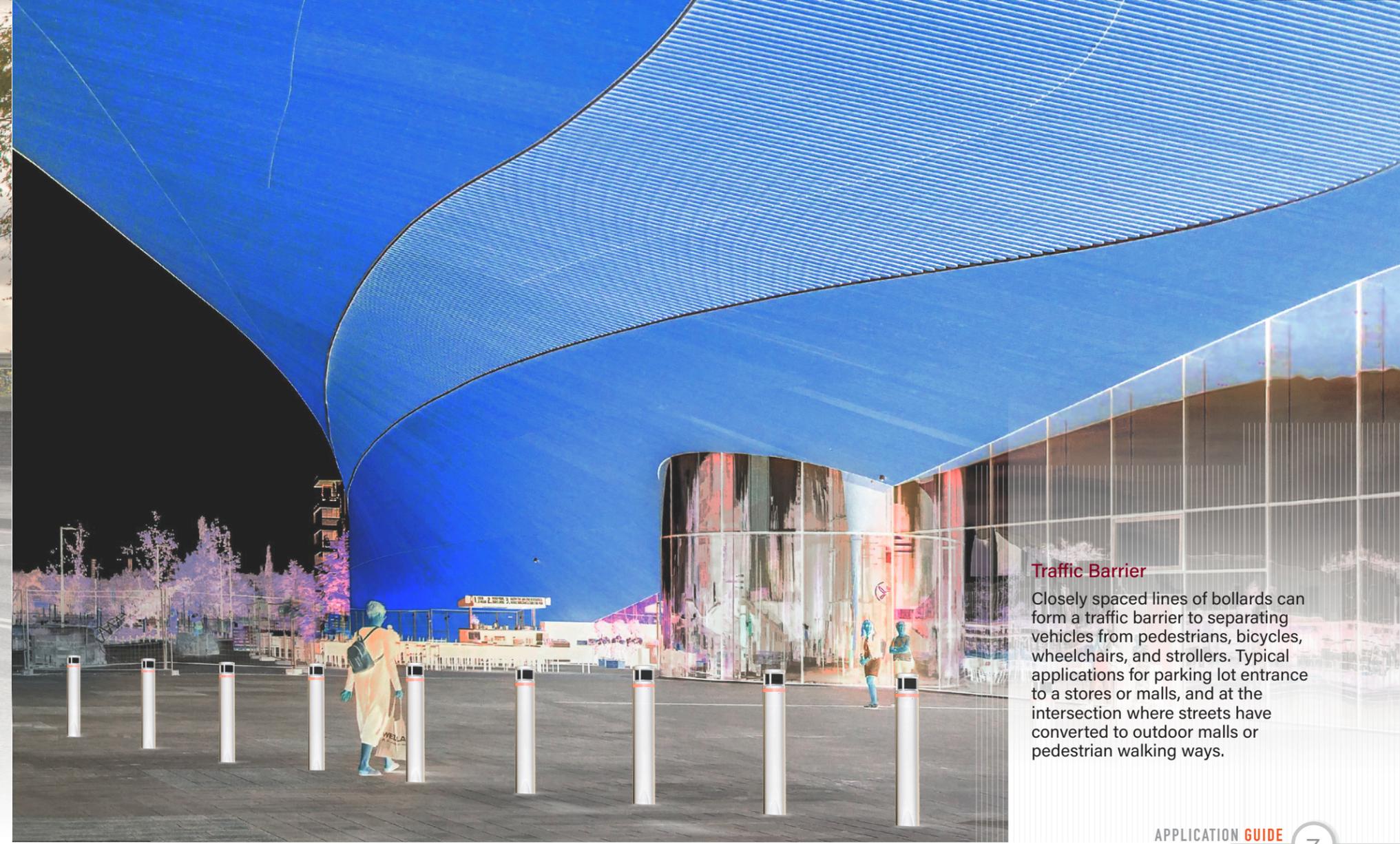
### Protection for Infrastructure

Impact bollards can be used to protect valuable infrastructure: electrical boxes, telephone switch boxes, water shut off valves, etc., keeping vehicles at safe distance. (Product above specified with RAL 1003 Signal Yellow)



### Lane Delineation for Cyclists

Marked bike lanes along the road are often not enough to keep cyclists safe. Impact bollards prevent motorists from crossing over into the bike lane while making a right turn or using them as parking lanes. Bollards used to delineate lanes requires drivers to sharing the roadway with cyclists and to stay in their own lanes.



### Traffic Barrier

Closely spaced lines of bollards can form a traffic barrier to separating vehicles from pedestrians, bicycles, wheelchairs, and strollers. Typical applications for parking lot entrance to a stores or malls, and at the intersection where streets have converted to outdoor malls or pedestrian walking ways.



# design

## CONSIDERATIONS

### Pedestrian Safety

Bollards can help guide traffic in congested areas such as parking lots to define traffic lanes and help the flow of traffic, demark entry and exit points, and provide protection to parking booths. A frequent application is using impact bollards in malls, shopping centers to prevent cars from jumping the curb to protect pedestrians foot traffic.



# design

CONSIDERATIONS

## Architectural Accents

Decorative bollards can be used as architectural element to define boundaries and are solely decorative. They mark off areas to discourage entry with an architectural aesthetic.



Pavilion  
Impact  
BOLLARD

# Current

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All values are design or typical values when measured under laboratory conditions.

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