



**BULLARD
BOLLARDS**
Think Bollard Think Bullard



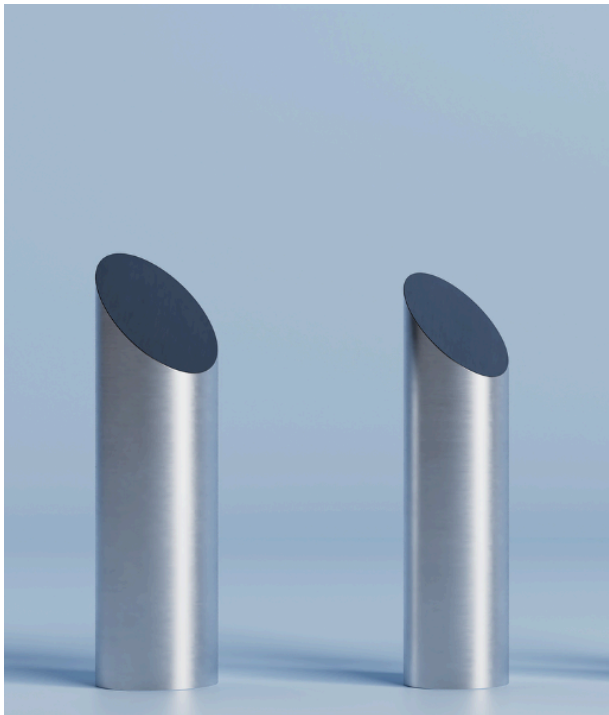
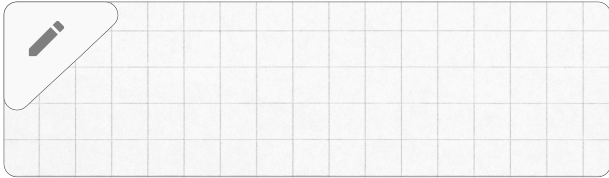
MR. ANGLE

K12
RATING

NON-ILLUMINATED **SECURITY & SAFETY BOLLARDS**

Fixture Type:

Project Name:



General Information:

A purpose-driven solution for protecting people and critical spaces, MR. ANGLE is designed to enhance safety across commercial, industrial, and high-security environments. Its sloped top profile reinforces a clean, controlled boundary—helping guide movement while reducing risk from vehicle intrusion.

Engineered for certified impact performance, it offers a range of security ratings to meet specific site requirements. Durable construction and customizable finishes allow it to integrate seamlessly into both functional and design-led environments.

Adaptable and reliable, MR. ANGLE supports safer perimeters without compromising visual clarity.

Applications: commercial sites, industrial facilities, high-security perimeters

Fixture Type:

Non-Illuminated Security & Safety Bollard

Bollard Cover Materials:

Stainless Steel
Aluminum

Finishes:

White
Green
Corten
Grey
Black
Stainless Steel
Custom on request

IP Rating:

IP 65



Due to the dynamic nature of lighting products and the associated technologies, luminaire data on all specification sheets is subject to change at the discretion of Gordon Bullard LLC and associated companies.

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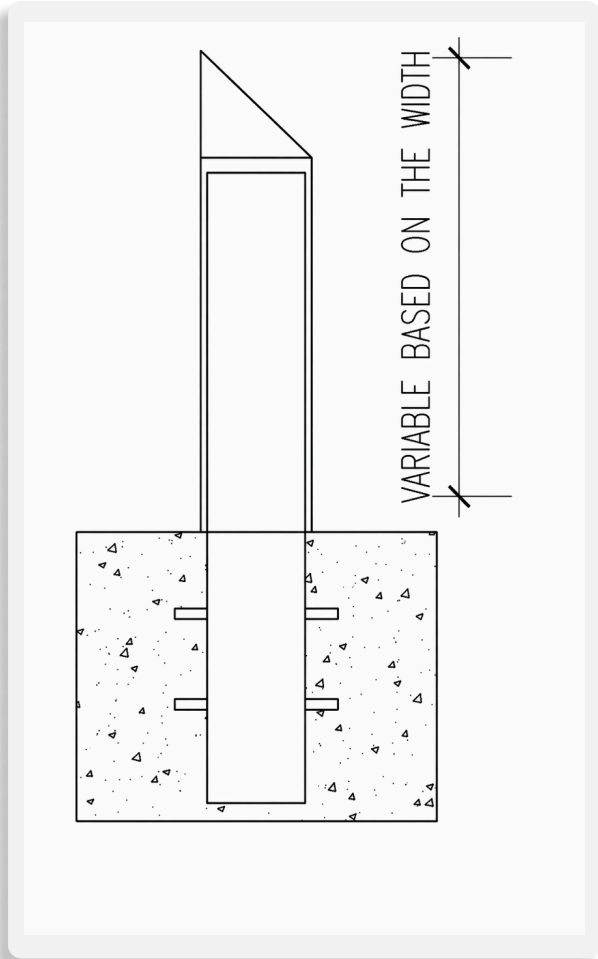


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CODE:
BB-MRAN-SB-K12

Fixture Type:

Project Name:



HOW TO ORDER:

CODE:

CODE EXAMPLE:
BB-MRD-SB-K12-H4-01-11

**BB-MRD-SB-K12-
H4-01-11**

1 BOLLARD DIAMETER:

Diameter - Ø: 12" (30.4 cm)

2 BOLLARD HEIGHT:

- | | |
|------|---------------------|
| -H1 | H: 40" (101.6 cm) |
| -H2 | H: 42" (106.6 cm) |
| -H3 | H: 43.5" (110.4 cm) |
| -H4 | H: 44.5" (113 cm) |
| -H5 | H: 46" (116.8 cm) |
| -H6 | H: 47.5" (120.6 cm) |
| -H7 | H: 48" (121.9 cm) |
| -H8 | H: 49" (124.4 cm) |
| -H9 | H: 51" (129.5 cm) |
| -H10 | H: 54" (137.1 cm) |
| -H11 | H: 56" (142.2 cm) |
| -H12 | H: 57" (144.7 cm) |
| -H13 | H: 59" (149.8 cm) |
| -H14 | H: 62" (157.4 cm) |
| -CUS | Custom Height |

3 BOLLARD COVER MATERIALS:

- | | |
|-----|-----------------|
| -01 | Stainless Steel |
| -02 | Aluminum |

4 FINISH OPTIONS:

- | | | |
|------|--------------------|--|
| -392 | White | |
| -393 | Green | |
| -394 | Corten | |
| -395 | Grey | |
| -396 | Black | |
| -11 | Stainless Steel | |
| -CUS | Custom on request* | |



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DOS K-RATING EXPLAINED

DOS K-ratings are a legacy U.S. Department of State crash-testing classification system used to define the performance of security barriers (such as bollards) against vehicle impact. The rating is based on a standardized test involving a 15,000 lb vehicle impacting at defined speeds—K4 (30 mph), K8 (40 mph), and K12 (50 km/h ≈ 50 mph)—with performance measured by how effectively the barrier stops the vehicle and limits penetration beyond the barrier line.



DOS K12

- **Vehicle weight:** 15,000 lbs
- **Impact speed:** (50 mph)
- **Vehicle type:** medium-duty truck
- **Penetration:** 1 meter or less (L3)
- **Test standard:** U.S. Department of State (DOS) crash test protocol

FOUNDATION OPTIONS EXPLAINED

Understanding foundation type and depth is critical to ensure the bollard performs as designed under impact. Improper installation can significantly reduce crash-rating effectiveness and compromise site safety.



Deep Foundation

- **Excavation:** 47.25 in (1200 mm) depth
- **Reinforcement:** Rebar cage (#5 / #8)
- **Installation:** Bollard embedded and fully encased in concrete
- **Function:** Transfers impact load into deep concrete mass



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