BULLARD
BOLLARDS
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# MR. ANGLE S

M50
RATING

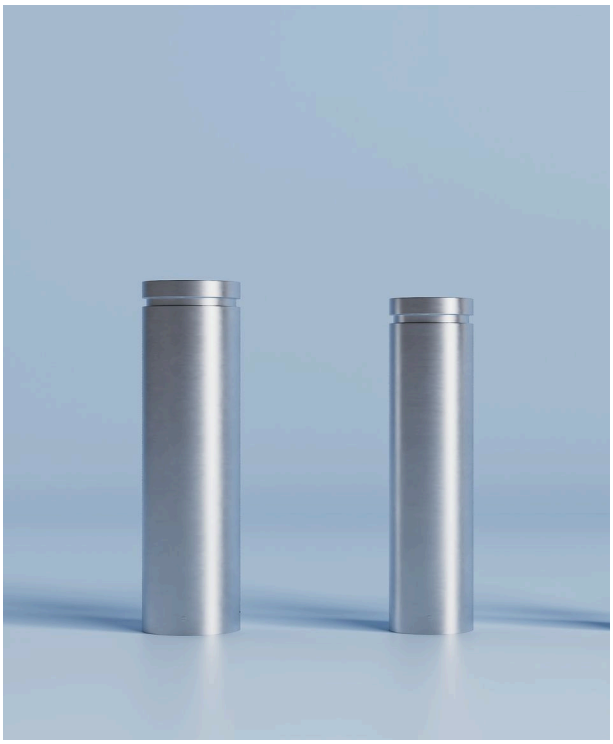
NON-ILLUMINATED **SECURITY & SAFETY BOLLARDS**

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**CODE: BB-MRFTS-SB-M50**

Fixture Type:

Project Name:



## General Information:

Combining structure with subtle detailing, MR. FLAT S enhances safety by reinforcing visible boundaries within the built environment. The single reveal detail adds visual definition while maintaining dependable impact resistance.

Engineered for performance and adaptability, it offers configurable security ratings and finishes to align with both safety requirements and architectural intent.

Applications: controlled perimeters, commercial environments, industrial sites

### 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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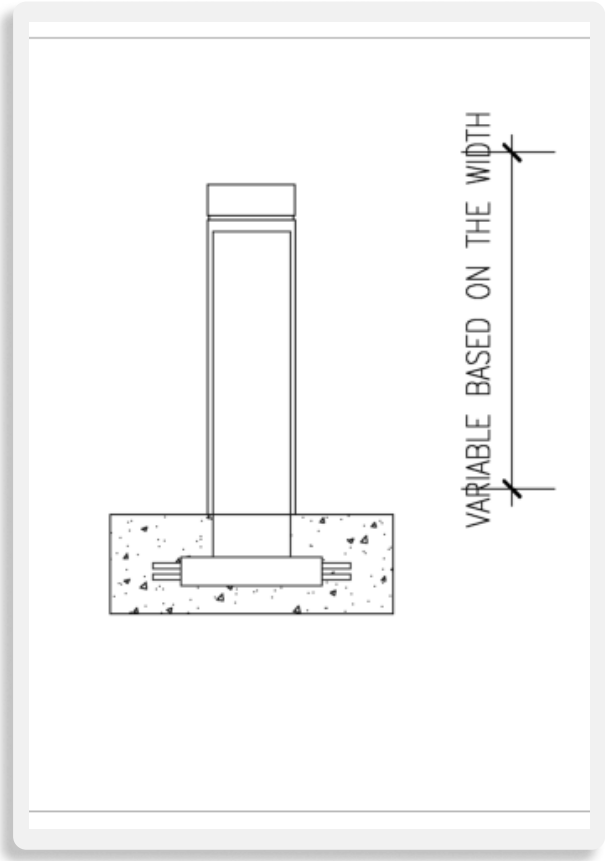
Updated 04/20/2026

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**CODE:**
**BB-MRFTS-SB-M50**

Fixture Type:

Project Name:




IP65 | M50 RATING | SHALLOW FOUNDATION | MADE IN USA

HOW TO ORDER: CODE:

**CODE EXAMPLE:**
**BB-MRFTS-SB-M50-H4-01-11**

**BB-MRFTS-SB-M50-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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# ASTM CRASH RATINGS EXPLAINED

ASTM crash ratings (ASTM F2656) are a U.S. standard used to classify the performance of vehicle security bollards based on their ability to stop specific types of vehicles under controlled impact conditions, including small passenger cars (SC), pickup trucks (PU), and medium-duty trucks (M), each tested at defined impact speeds and performance levels.

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## THE RATING CATEGORIES BREAK DOWN AS FOLLOWS:

### SC (SC) Small Passenger Car

- Vehicle weight: 2,430 lbs
- Speed ratings: SC40 (40 mph), SC50 (50 mph), SC60 (60 mph)
- Use case: Low-mass vehicle threats; urban or light-security environments

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### PU (PU) Pickup Truck

- Vehicle weight: 5,070 lbs
- Speed ratings: PU40 (40 mph), PU50 (50 mph), PU60 (60 mph)
- Use case: Mid-range threats; commercial zones, parking perimeters

### M (M) Medium-Duty Truck

- **Vehicle weight: 15,000 lbs**
- **Speed ratings: M30 (30 mph), M40 (40 mph), M50 (50 mph)**
- **Use case: Elevated risk scenarios; logistics hubs, public infrastructure**

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## 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.

### Shallow Foundation

- **Excavation: 15 in (381 mm) depth**
- **Reinforcement: Rebar cage (#5 / #8)**
- **Installation: Bollard anchored to reinforced slab system**
- **Function: Distributes impact load across surface (horizontal spread)**

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