

Product Overview

Safety Bollard Posts made from steel pipe are designed to protect buildings, pedestrians, equipment, and other assets from vehicle or forklift collisions. These bollards are suitable for indoor and outdoor applications, including parking lots, warehouses, storefronts, and pedestrian zones.

General Specifications

Material

- Steel Type:** ASTM A500 Grade B structural steel (100% U.S. or North American steel)
- Pipe Schedule:** Schedule 40 (standard) or Schedule 80 (heavy-duty)
- Wall Thickness** (varies by diameter):
 - 4.5" diameter: 0.120" (Schedule 40) or 0.237" (Schedule 80)
 - 5.5" diameter: 0.134" (Schedule 40)
 - 6.5" diameter: 0.134" (Schedule 40)
 - 8.5" diameter: 0.148" (Schedule 40)
- Concrete Fill:** Optional, typically 5,000 psi concrete with microfibers for added strength

Dimensions

- Diameters Available:** 3", 4", 4.5", 5.5", 6", 6.5", 8", 10"
- Standard Heights:** 27", 36", 42", 48", 52" (custom heights available)
- Length (Inground):** 7 ft. standard (includes embedded portion)
- Base Plate** (for surface-mounted models):
 - Size: 8" x 8" or 10.25" x 10.5" (varies by model)
 - Thickness: 0.24" to 0.625"
 - Mounting Holes: Four (4) pre-drilled holes, typically 3/8" or 3/4" diameter

Weight

- Range:** 12 lbs. to 115 lbs. (depending on diameter, height, and concrete fill)
- Example:**
 - 4.5" x 36" (Schedule 40, hollow): ~26 lbs.
 - 6" x 48" (Schedule 40, concrete-filled): ~92 lbs.

Performance Characteristics

- Impact Resistance:**
 - Standard bollards (concrete-filled, Schedule 40): Up to 4,000 lbs. at 4 MPH
 - Heavy-duty (Schedule 80, concrete-filled): Higher impact resistance, dependent on site conditions and installation
 - Note: Impact ratings vary based on installation (inground vs. surface-mounted) and site engineering. ASTM crash ratings require on-site engineering supervision.
- Corrosion Resistance:**
 - Galvanized or powder-coated finishes provide protection against rust and weathering.
 - Stainless steel options available for marine or high-corrosion environments.

Finishes

- Standard Finishes:**
 - Powder-coated safety yellow for high visibility
 - Galvanized (hot-dipped) for corrosion resistance
 - Primed or raw steel (requires additional painting)
- Optional Finishes:**
 - Custom powder-coated colors
 - Decorative bollard covers (plastic, stainless steel, or aluminum)
 - Concrete or plastic caps for sealed, clean finishes
- Maintenance:**
 - Regular painting or touch-up recommended for non-galvanized bollards.
 - Rust inhibitors and periodic cleaning with mild detergent advised.

Installation Options

- Inground (Core-Installed):**
 - Embedded in concrete, asphalt, or soil with a minimum 4" footing depth.
 - Concrete fill recommended during installation for added strength.
- Surface-Mounted (Base Plate):**
 - Secured with four anchor bolts (zinc-plated steel, typically included).
 - Base plate options: Hidden, Rounded, Beveled, Square, or Super Duty (for forklift protection).
- Removable or Collapsible:**
 - Surface-mounted with lockable base plate (padlock not included).
 - Collapsible models available for temporary access.
- Custom Installations:**
 - Cut-outs, eye bolts, or sign systems available for specific applications.
 - U-shaped or fold-down bollards for specialized uses.

Applications

- Primary Uses:**
 - Protect buildings, utility meters, storefronts, and pedestrian areas from vehicle collisions.
 - Traffic control in parking lots, sidewalks, and bike paths.
 - Warehouse and industrial settings to safeguard equipment and personnel.
- Specialized Uses:**
 - Gas station pumps, bank drive-throughs, and high-security perimeters.
 - Decorative applications with architectural covers.

Standards and Certifications

- Material Standards:** Complies with ASTM A500 B for structural steel.
- Buy American Act:** Many models comply with U.S. sourcing requirements.
- IWA 14-1 Certification:** Available for heavy-duty models with proper installation.
- Prop 65 Warning:** May apply for California residents (check with supplier).

Additional Features

- Caps:** Removable plastic or welded steel caps (optional concrete caps for durability).
- Bollard Covers:** Plastic or metal sleeves for aesthetic enhancement and weather protection.
- Mounting Kits:** Anchor bolts and wrenches included with some models.
- Customizations:**
 - Chain slots, sign systems, or electric vehicle charging station integration.
 - Stainless steel covers for low-maintenance applications.

Maintenance and Care

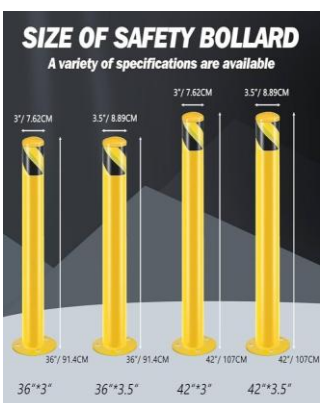
- Inspection:** Regular visual checks for damage, rust, or loose anchoring.
- Cleaning:** Use soap and water or mild detergent; remove graffiti with safe cleaners.
- Rust Prevention:** Apply rust inhibitors and touch up chipped paint promptly.
- Winter Care:** Clear snow and ice to maintain visibility and function.
- Retractable/Removable Models:** Lubricate moving parts and lock mechanisms.

Notes

- Lead Times:** Vary by manufacturer; custom sizes may require additional time.
- Shipping:** Typically via truck freight for commercial addresses.
- Warranty:** Varies by supplier; contact manufacturer for details.
- Site Engineering:** Required for crash-rated installations to ensure impact resistance.

References

- Ideal Shield: Steel Pipe Bollards
- Reliance Foundry: Steel Pipe Bollards
- Vestil: Steel Pipe Safety Bollards
- VEVOR: Safety Bollard Post
- Bollard Company: Steel Pipe Bollards
- Speedrack West: Bollard Posts
- Traffic Safety Warehouse: Steel Bollards
- Bollard Barrier: Inground Steel Pipe Security Bollards
- Beacon Technology: Steel Bollards



What will you get ?

- 01 Anchor Bolt
- 02 Wrench
- 03 Locating Plate

- STEP1**
Drill holes with 10mm drill bit based on reference diagram
- STEP2**
Drive in expansion bolts
- STEP3**
Tighten the bolts

