Crash-rated bollards have proven their stopping power in rigorous third-party tests. When installed as directed, they offer security against vehicle accident or attack. Protect people and property with a well-constructed perimeter.

Removable and fixed models are available.

**ACCIDENT PROTECTION**

*THE ASTM C40 BOLLARD*

- Stops a 2,430-pound vehicle (passenger car) moving 40 mph
- Halts vehicle within 3.3 feet (P1 penetration)
- Excellent for areas with curbs, speed bumps, or parking stops where vehicle speeds are slow due to environmental design
- Improved parking lot protection against accidents due to inattention and pedal confusion.

**MEDIUM SECURITY**

*THE K4 / ASTM M30 BOLLARD*

- Stops a 15,000-pound vehicle (medium-duty truck) moving 30 mph
- Halts vehicle within 3.3 feet (P1 penetration)
- May be used in anti-ram raid and anti-terrorist perimeters where there is no open road offering an acceleration zone
- Most popular choice for securing against vehicle accident in urban traffic

**ANTI-TERRORIST PROTECTION**

*THE K12 / ASTM M50 BOLLARD*

- Stops a 15,000-pound vehicle (medium-duty truck) moving 50 mph
- Halts vehicle within 4 feet (P2 penetration)
- Security for locations with long stretches of open road
- Two adjacent halt vehicles within 3.3 feet (P1 penetration)
- Popular at government buildings, high security installations, and commercial organizations vulnerable to ram-raid attack

**EASY INSTALLATION**

Before you dig, check for underground utilities. Learn and follow relevant municipal codes.

Dig to specified dimensions below frost line.

Set a brace or block at the base of the excavation.

Pour concrete and let cure.

No specialized installation knowledge necessary. Detailed install instructions available on website.
## CHOOSING THE RIGHT IMPACT PROTECTION

<table>
<thead>
<tr>
<th>RISK</th>
<th>Are you securing against accident or deliberate attack?</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRAFFIC PATTERN</td>
<td>What are likely accident scenarios? A sharp curve in an arterial presents a higher impact risk than a light-controlled one-way street, even one with high traffic volume.</td>
</tr>
<tr>
<td>TRAFFIC SPEED</td>
<td>Consider what is typical and possible. Areas with speed bumps, trees, fences, or switchback turns offer less threat than long stretches of empty road.</td>
</tr>
<tr>
<td>OTHER BARRIERS</td>
<td>A mix of security and crash-rated barriers offer value and protection.</td>
</tr>
</tbody>
</table>

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### Architectural and Decorative Covers

*Beauty and Strength, Together.*

Choose from a range of architectural covers to complement your site. Create a consistent look when using a combination of fixed, removable, security, and crash-rated bollards around the perimeter. Available in cast iron, steel, stainless steel, or plastic. Customize by choosing from a range of colors and finishes.