**General Description:**

The R-7591-B Bike Bollard offers premium decorative aesthetics and a fluted body. Bike-locking arms are bolted internally to ensure secure storage for cyclists. Locking arms can also be used to assist in removal and transport for removable applications. R-7591-B Bike bollards feature a decorative cast ductile iron assembly, powder coated in 1 of 6 custom colors for exceptional durability and corrosion resistance. Reinforce bollards with embedded steel pipes or select from a range of mounting options: surface or embedded anchors or removable mountings.

**Specifications:**

- **Height:** 31 3/4"
- **Base Diameter:** 10 1/4"
- **Weight:** 84 lbs (Bollard Only)
- **Material:** Ductile Iron w/ Stainless Steel Bike Arms
- **Max. Interior Security Post Size:** 3 1/2" x 25" (Diameter x Height)

**Finish Options:**
- Polyester Powdercoated

See Reliance Foundry's standard color options at: www.reliance-foundry.com/bollard/colors-bollards

**Installation Options:**
- Fixed - Anchor Casting in New Concrete (see sheet 2 of 12)
- Fixed - Concrete Insert Anchor in Existing Concrete (see sheet 3 of 12)
- Fixed - Adhesive Anchor in Existing Concrete (see sheet 4 of 12)
- Fixed - Anchor Casting with Concrete Form (see sheet 5 of 12)
- Post Cover - New Post in New Concrete (see sheet 6 of 12)
- Post Cover - New Post in Existing Concrete (see sheet 7 of 12)
- Post Cover - Existing Post with Adhesive Anchor (see sheet 8 of 12)
- Post Cover - Existing Post with Concrete Anchor (see sheet 9 of 12)
- Removable - Anchor Casting in New Concrete (see sheet 10 of 12)
- Removable - Concrete Insert Anchor in Existing Concrete (see sheet 11 of 12)
- Removable - Premium Retractable in New Concrete (see sheet 12 of 12)

For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

**Care and Maintenance:**

Reliance’s line of bollards are finished with a long-lasting powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements.

See Reliance Foundry’s maintenance guide at: www.reliance-foundry.com/bollard/maintenance-bollards

**Optional Accessories:**
- Chain Eye
- Quick Link
- Chain (5/16"")
- Padlock, Brass (1 3/4"")
- Padlock, Stainless Steel (2")

See Reliance Foundry’s optional accessories at: www.reliance-foundry.com/bollard/accessories-bollards
### Parts List

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
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<td>R7591B</td>
<td>R7591 Base w/ Stainless Steel Bike Arms</td>
<td>Ductile Iron Powder Coated</td>
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<tr>
<td>2</td>
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<td>R7500 Threaded Bar 1&quot; x 31&quot;</td>
<td>Steel Plated</td>
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### General Description:

The R-7591-B Bike Bollard offers premium decorative aesthetics and a fluted body. Bike-locking arms are bolted internally to ensure secure storage for cyclists. Locking arms can also be used to assist in removal and transport for removable applications. R-7591-B Bike bollards feature a decorative cast ductile iron assembly, powder coated in 1 of 6 custom colors for exceptional durability and corrosion resistance. Reinforce bollards with embedded steel pipes or select from a range of mounting options: surface or embedded anchors or removable mountings.

### Specifications:

- **Height:** 31 3/4"
- **Base Diameter:** 10 1/4"
- **Weight:** 84 lbs (Bollard Only)
- **Material:** Ductile Iron w/ Stainless Steel Bike Arms
- **Max. Interior Security Post Size:** 3 1/2" x 25" (Diameter x Height)

### Finish Options:

- Polyester Powdercoated

See Reliance Foundry's standard color options at: www.reliance-foundry.com/bollard/colors-bollards

### Installation Options:

- **Fixed - Anchor Casting in New Concrete**
- **Fixed - Concrete Insert Anchor in Existing Concrete**
- **Fixed - Anchor Casting with Concrete Form**
- **Post Cover - New Post in New Concrete**
- **Post Cover - New Post in Existing Concrete**
- **Post Cover - Existing Post with Adhesive Anchor**
- **Removable - Anchor Casting in New Concrete**
- **Removable - Anchor Casting in New Concrete**
- **Removable - Concrete Insert Anchor in Existing Concrete**
- **Removable - Premium Retractable in New Concrete**

For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

### Care and Maintenance:

Reliance's line of bollards are finished with a long-lasting powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements.

See Reliance Foundry's maintenance guide at: www.reliance-foundry.com/bollard/maintenance-bollards

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**Notes:**

1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
3) Dimensions indicated herein are for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

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**Tools needed:**

1) Measuring tape
2) 1 1/2" wrench
3) 3/16" hex key

**Installation Instructions:**

1) Ensure top of anchor casting is level and flush with finished concrete grade.
2) Wait until concrete is cured.
3) Tighten threaded bar until it reaches approx. 1 to 1 1/2" into the anchor casting.
4) Secure bollard base with 1" washer and 1" nut.
### General Description:
The R-7591-B Bike Bollard offers premium decorative aesthetics and a fluted body. Bike-locking arms are bolted internally to ensure secure storage for cyclists. Locking arms can also be used to assist in removal and transport for removable applications. R-7591-B Bike bollards feature a decorative cast ductile iron assembly, powder coated in 1 of 6 custom colors for exceptional durability and corrosion resistance. Reinforce bollards with embedded steel pipes or select from a range of mounting options: surface or embedded anchors or removable mountings.

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### Installation Options:
- **Fixed - Anchor Casting in New Concrete**  
  (see sheet 1 of 12)  
- **Fixed - Anchor Casting in New Concrete**  
  (see sheet 2 of 12)  
- **Fixed - Adhesive Anchor in Existing Concrete**  
  (see sheet 3 of 12)  
- **Fixed - Anchor Casting with Concrete Form**  
  (see sheet 4 of 12)  
- **Fixed - Anchor Casting with Concrete Form**  
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- **Post Cover - New Post in New Concrete**  
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  (see sheet 12 of 12)  

For more information on bollard post installation, please visit: [www.reliance-foundry.com/bollard/installation-bollards](http://www.reliance-foundry.com/bollard/installation-bollards)

### Care and Maintenance:
Reliance's line of bollards are finished with a long-lasting powder coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements.

See Reliance Foundry's maintenance guide at: [www.reliance-foundry.com/bollard/maintenance-bollards](http://www.reliance-foundry.com/bollard/maintenance-bollards)
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**Finish Options:**

- Polyester Powdercoated

See Reliance Foundry's standard color options at:  
www.reliance-foundry.com/bollard/colors-bollards

**Installation Options:**

- **Fixed - Anchor Casting in New Concrete**  
- **Fixed - Concrete Insert Anchor in Existing Concrete**  
- **Fixed - Adhesive Anchor in Existing Concrete**  
- **Fixed - Anchor Casting with Concrete Form**  
- **Post Cover - New Post in New Concrete**  
- **Post Cover - New Post in Existing Concrete**  
- **Post Cover - Existing Post with Adhesive Anchor**  
- **Post Cover - Existing Post with Concrete Anchor**  
- **Removable - Anchor Casting in New Concrete**  
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For more information on bollard post installation, please visit:  
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<td>19 lbs</td>
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<tr>
<td>3</td>
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<td>Adhesive Anchor</td>
<td>ACO00+ Gold Adhesive Anchoring System</td>
<td>Vinylester Adhesive Mortar</td>
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4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

**Tools needed:**

1) Measuring tape  
2) 1 1/2" wrench  
3) 3/16" hex key  
4) Hammer drill  
5) 1 1/8" Masonry drill bit  
6) Caulking gun and utility knife

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**Installation Bollard**

- **PRODUCT NUMBER:** R7591B
- **WEIGHT:** 84 lbs  (Bollard Only)  
- **BASE DIAMETER:** 10 1/4"  
- **HEIGHT:** 31 3/4"  
- **NUT:** 1 1/8" dia. x 4" depth.  
- **CONE:** Clean drill hole of debris.  
- **CONE:** Cauk adhesive into hole from bottom up and fill 1/4 ful.  
- **CONE:** Push threaded bar into adhesive and turn to ensure bonding.  
- **CONE:** Ensure bar is perpendicular and extend no more than 30" above grade.  
- **CONE:** Wait at least 45 minutes for adhesive to set.  
- **CONE:** Caulk adhesive into hole from top down and turn to ensure bonding.

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### General Description:
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### Specifications:
- **Height:** 31 3/4"
- **Base Diameter:** 10 1/4"
- **Weight:** 84 lbs (Bollard Only)
- **Material:** Ductile Iron w/ Stainless Steel Bike Arms
- **Max. Interior Security Post Size:** 3 1/2" x 25" (Diameter x Height)

### Finish Options:
- Polyester Powdercoated
See Reliance Foundry's standard color options at: [www.reliance-foundry.com/bollard/colors-bollards](http://www.reliance-foundry.com/bollard/colors-bollards)

### Installation Options:
1. **Fixed - Anchor Casting in New Concrete** (see sheet 2 of 12)
2. **Fixed - Concrete Insert Anchor in Existing Concrete** (see sheet 3 of 12)
3. **Fixed - Adhesive Anchor in Existing Concrete** (see sheet 4 of 12)
4. **Fixed - Anchor Casting with Concrete Form** (see sheet 5 of 12)
5. **Post Cover - New Post in New Concrete** (see sheet 6 of 12)
6. **Post Cover - New Post in Existing Concrete** (see sheet 7 of 12)
7. **Post Cover - Existing Post with Adhesive Anchor** (see sheet 8 of 12)
8. **Removable - Anchor Casting in New Concrete** (see sheet 10 of 12)
9. **Removable - Anchor Casting with Concrete Form** (see sheet 11 of 12)
10. **Removable - Premium Retractable in New Concrete** (see sheet 12 of 12)

For more information on bollard post installation, please visit: [www.reliance-foundry.com/bollard/installation-bollards](http://www.reliance-foundry.com/bollard/installation-bollards)

### Care and Maintenance:
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### Tools needed:
1. Measuring tape
2. 1 1/2" wrench
3. 3/16" hex key

### Care and Maintenance:
- Ensure top of anchor casting is level and flush with finished concrete grade.
- Wait until concrete is cured.
- Tighten threaded bar until it reaches approx. 1 to 1 1/2" into the anchor casting.
- Secure bollard cap with 3/8" set screws and cover set screws with plastic plugs.
- Secure bollard base with 1" washer and 1" nut.

### Diagram:
- Diagram showing parts and their assembly.

### Parts List:
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### Bollard R-7591-B

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- **Max. Interior Security Post Size:** 3 1/2" x 25" (Diameter x Height)

**Finish Options:**

- Polyethylene Powdercoated  
  See Reliance Foundry's standard color options at: www.reliance-foundry.com/bollard/colors-bollards

**Installation Options:**

- Fixed - Anchor Casting in New Concrete  
  (see sheet 2 of 12)
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  (see sheet 3 of 12)
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For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

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<td>Hex Nut 1&quot;</td>
<td>Hex Nut 1&quot; - requires 1 1/2&quot; wrench</td>
<td>Steel Plate</td>
<td>1/4 lbs</td>
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<tr>
<td>6</td>
<td>3</td>
<td>Hexagon Socket Set Screw 3/8&quot; x 5/8&quot;</td>
<td>Hexagon Socket Set Screw 3/8&quot; x 5/8&quot; - requires 3/16&quot; hex key</td>
<td>Stainless Steel</td>
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</tr>
<tr>
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<td>3</td>
<td>Polyethylene Plug 3/8&quot;</td>
<td>Polyethylene Plug 3/8&quot;</td>
<td>LDPE Black</td>
<td></td>
</tr>
</tbody>
</table>
**Bollard R-7591-B**

**General Description:**
The R-7591-B Bike Bollard offers premium decorative aesthetics and a fluted body. Bike-locking arms are bolted internally to ensure secure storage for cyclists. Locking arms can also be used to assist in removal and transport for removable applications. R-7591-B Bike bollards feature a decorative cast ductile iron assembly, powder coated in 1 of 6 custom colors for exceptional durability and corrosion resistance. Reinforce bollards with embedded steel pipes or select from a range of mounting options: surface or embedded anchors or removable mountings.

**Specifications:**
- **Height:** 31 3/4"
- **Base Diameter:** 10 1/4"
- **Weight:** 84 lbs (Bollard Only)
- **Material:** Ductile Iron w/ Stainless Steel Bike Arms
- **Max. Interior Security Post Size:** 3 1/2" x 25" (Diameter x Height)

**Finish Options:**
- Polyester Powdercoated

See Reliance Foundry's standard color options at: [www.reliance-foundry.com/bollard/colors-bollards](http://www.reliance-foundry.com/bollard/colors-bollards)

**Installation Options:**
- **Fixed - Anchor Casting in New Concrete** (see sheet 2 of 12)
- **Fixed - Concrete Insert Anchor in Existing Concrete** (see sheet 3 of 12)
- **Fixed - Adhesive Anchor in Existing Concrete** (see sheet 4 of 12)
- **Fixed - Anchor Casting with Concrete Form** (see sheet 5 of 12)
- **Post Cover - New Post in New Concrete** (see sheet 6 of 12)
- **Post Cover - New Post in Existing Concrete** (see sheet 7 of 12)
- **Post Cover - Existing Post with Adhesive Anchor** (see sheet 8 of 12)
- **Post Cover - Existing Post with Concrete Anchor** (see sheet 9 of 12)
- **Removable - Anchor Casting in New Concrete** (see sheet 10 of 12)
- **Removable - Concrete Insert Anchor in Existing Concrete** (see sheet 11 of 12)
- **Removable - Premium Retractable in New Concrete** (see sheet 12 of 12)

For more information on bollard post installation, please visit: [www.reliance-foundry.com/bollard/installation-bollards](http://www.reliance-foundry.com/bollard/installation-bollards)

**Care and Maintenance:**
Reliance's line of bollards are finished with a long-lasting powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements.

See Reliance Foundry's maintenance guide at: [www.reliance-foundry.com/bollard/maintenance-bollards](http://www.reliance-foundry.com/bollard/maintenance-bollards)

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**PARTS LIST**

<table>
<thead>
<tr>
<th>ITEM</th>
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<td>Steel Plated</td>
<td>6 3/4 lbs</td>
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<tr>
<td>4</td>
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<td>Washer 1&quot; OD 3 1/2&quot;</td>
<td>Washer 1&quot; OD 3 1/2&quot; Thick 1/4&quot;</td>
<td>Steel Plated</td>
<td>5/8 lbs</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
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<td>Hex Nut 1&quot; - requires 1 1/2&quot; wrench</td>
<td>Steel Plated</td>
<td>1/4 lbs</td>
</tr>
<tr>
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<td>3</td>
<td>Hex Socket Set Screw 3/8&quot; x 5/8&quot;</td>
<td>Hex Socket Set Screw 3/8&quot; x 5/8&quot; - requires 3/16&quot; hex key</td>
<td>Stainless Steel</td>
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<td>7</td>
<td>3</td>
<td>Polyethylene Plug 3/8&quot;</td>
<td>Polyethylene Plug 3/8&quot;</td>
<td>LDPE Black</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
3) Specifications provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

---

![Diagram of Bollard R-7591-B](image-url)
General Description:
The R-7591-B Bike Bollard offers premium decorative aesthetics and a fluted body. Bike-locking arms are bolted internally to ensure secure storage for cyclists. Locking arms can also be used to assist in removal and transport for removable applications. R-7591-B Bike bollards feature a decorative cast ductile iron assembly, powder coated in 1 of 6 custom colors for exceptional durability and corrosion resistance. Reinforce bollards with embedded steel pipes or select from a range of mounting options: surface or embedded anchors or removable mountings.

Specifications:
- Height: 31 3/4" 
- Base Diameter: 10 1/4" 
- Weight: 84 lbs (Bollard Only) 
- Material: Ductile Iron w/ Stainless Steel Bike Arms 
- Max. Interior Security Post Size: 3 1/2" x 25" (Diameter x Height)

Finish Options:
- Polyester Powdercoated
- See Reliance Foundry's standard color options at: www.reliance-foundry.com/bollard/colors-bollards

Installation Options:
- Fixed - Anchor Casting in New Concrete 
- Fixed - Concrete Insert Anchor in Existing Concrete 
- Fixed - Adhesive Anchor in Existing Concrete 
- Fixed - Anchor Casting with Concrete Form 
- Post Cover - New Post in New Concrete 
- Post Cover - New Post in Existing Concrete 
- Post Cover - Existing Post with Adhesive Anchor 
- Post Cover - Existing Post with Concrete Anchor 
- Removable - Anchor Casting in New Concrete 
- Removable - Anchor Casting in Existing Concrete 
- Removable - Concrete Insert Anchor in Existing Concrete 
- Removable - Premium Retractable in New Concrete 
- Removable - Concrete Insert Anchor in New Concrete 

For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

Care and Maintenance:
Reliance's line of bollards are finished with a long-lasting powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements. See Reliance Foundry's maintenance guide at: www.reliance-foundry.com/bollard/maintenance-bollards

Notes:
1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others. 
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements. 
3) Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation. 
4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

Tools needed:
1) Measuring tape 
2) 1 1/2" wrench 
3) 3/16" hex key 
4) Hammer drill 
5) 1 1/8" Masonry drill bit 
6) Caulking gun and utility knife 
7) Secure bollard base with 1" washer and 2" nut. 
8) Secure bollard cap with 3/8" set screws and cover set screws with plastic plugs.

Part List:
<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>WEIGHT</th>
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<td>R7591C</td>
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<td>5</td>
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<td>Steel Plated</td>
<td>5/8 lbs</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>Hex Nut 1&quot;</td>
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<td>7</td>
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<td>Hexagon Socket Set Screw 3/8&quot; x 5/8&quot;</td>
<td>Stainless Steel</td>
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<tr>
<td>8</td>
<td>3</td>
<td>Polyethylene Plug 3/8&quot;</td>
<td>LDPE Black</td>
<td></td>
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</tbody>
</table>

Notes:
- Existing Concrete Grade 
- Post Cover - Existing Post with Concrete Anchor 
- Removable - Anchor Casting in New Concrete 
- Removable - Anchor Casting in Existing Concrete 
- Removable - Concrete Insert Anchor in New Concrete 
- Removable - Concrete Insert Anchor in Existing Concrete 
- Removable - Premium Retractable in New Concrete 
- Removable - Concrete Insert Anchor in Existing Concrete 

For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

See Reliance Foundry's standard color options at: www.reliance-foundry.com/bollard/colors-bollards
**General Description:**
The R-7591-B Bike Bollard offers premium decorative aesthetics and a fluted body. Bike-locking arms are bolted internally to ensure secure storage for cyclists. Locking arms can also be used to assist in removal and transport for removable applications. R-7591-B Bike bollards feature a decorative cast ductile iron assembly, powder coated in 1 of 6 custom colors for exceptional durability and corrosion resistance. Reinforce bollards with embedded steel pipes or select from a range of mounting options: surface or embedded anchors or removable mountings.

**Specifications:**
- **Height:** 31 3/4”
- **Base Diameter:** 10 1/4”
- **Weight:** 84 lbs (Bollard Only)
- **Material:** Ductile Iron w/ Stainless Steel Bike Arms
- **Max. Interior Security Post Size:** 3 1/2” x 25” (Diameter x Height)

**Finish Options:**
- **Polyester Powdercoated**

See Reliance Foundry’s standard color options at: www.reliance-foundry.com/bollard/colors-bollards

**Installation Options:**
- **Fixed - Anchor Casting in New Concrete** (see sheet 2 of 12)
- **Fixed - Concrete Insert Anchor in Existing Concrete** (see sheet 3 of 12)
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- **Post Cover - Existing Post with Concrete Anchor** (see sheet 9 of 12)
- **Removable - Anchor Casting in New Concrete** (see sheet 10 of 12)
- **Removable - Concrete Insert Anchor in Existing Concrete** (see sheet 11 of 12)
- **Removable - Premium Retractable in New Concrete** (see sheet 12 of 12)

For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

**Care and Maintenance:**
Reliance’s line of bollards are finished with a long-lasting polyester powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements. See Reliance Foundry’s maintenance guide at: www.reliance-foundry.com/bollard/maintenance-bollards

**Notes:**
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3. Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
4. Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

**Tools needed:**
1. Measuring tape
2. 1 1/8” wrench
3. 3/16” hex key
4. Hammer drill
5. 1” Masonry drill bit
6. Hammer
7. Drop-in concrete insert setting tool

**Parts List:**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>WEIGHT</th>
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<td>1</td>
<td>R7591B</td>
<td>R7591 Base w/ Stainless Steel Bike Arms</td>
<td>Ductile Iron Powder Coated</td>
<td>65 lbs</td>
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<tr>
<td>2</td>
<td>1</td>
<td>R7591C</td>
<td>R7591 Cap</td>
<td>Ductile Iron Powder Coated</td>
<td>19 lbs</td>
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<tr>
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<td>1</td>
<td>Drop-in Concrete Insert 3/4”</td>
<td>Drop-in Concrete Insert 3/4” - requires 1” x 3 1/8” hole (dia. x depth)</td>
<td>Steel Plated</td>
<td>1/2 lbs</td>
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<tr>
<td>4</td>
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<td>R7508BAR 3/4”</td>
<td>R7508 Threaded Bar 3/4” Custom Order Length</td>
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<td>5</td>
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<td>Washer 3/4” OD 3 1/2”</td>
<td>Washer 3/4” OD 3 1/2” Thick 1/4”</td>
<td>Steel Plated</td>
<td>1/8 lbs</td>
</tr>
<tr>
<td>6</td>
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<td>7</td>
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<td>Hexagon Socket Set Screw 3/8” x 5/8”</td>
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<td>Polyethylene Plug 3/8”</td>
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www.reliance-foundry.com/bollard/installation-bollards

www.reliance-foundry.com/bollard/colors-bollards

See Reliance Foundry’s maintenance guide at: www.reliance-foundry.com/bollard/maintenance-bollards

For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

**Finish Options:**
- **Polyester Powdercoated**

See Reliance Foundry’s standard color options at: www.reliance-foundry.com/bollard/colors-bollards

**Installation Options:**
- **Fixed - Anchor Casting in New Concrete** (see sheet 2 of 12)
- **Fixed - Concrete Insert Anchor in Existing Concrete** (see sheet 3 of 12)
- **Fixed - Adhesive Anchor in Existing Concrete** (see sheet 4 of 12)
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- **Post Cover - New Post in Existing Concrete** (see sheet 7 of 12)
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- **Post Cover - Existing Post with Concrete Anchor** (see sheet 9 of 12)
- **Removable - Anchor Casting in New Concrete** (see sheet 10 of 12)
- **Removable - Concrete Insert Anchor in Existing Concrete** (see sheet 11 of 12)
- **Removable - Premium Retractable in New Concrete** (see sheet 12 of 12)

For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

**Care and Maintenance:**
Reliance’s line of bollards are finished with a long-lasting polyester powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements. See Reliance Foundry’s maintenance guide at: www.reliance-foundry.com/bollard/maintenance-bollards

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**Tools needed:**
1. Measuring tape
2. 1 1/8” wrench
3. 3/16” hex key
4. Hammer drill
5. 1” Masonry drill bit
6. Hammer
7. Drop-in concrete insert setting tool

**Parts List:**

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<td>R7591 Base w/ Stainless Steel Bike Arms</td>
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<td>65 lbs</td>
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<td>1</td>
<td>R7591C</td>
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<td>7</td>
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<td>Hexagon Socket Set Screw 3/8” x 5/8”</td>
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<td>Polyethylene Plug 3/8”</td>
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General Description:
The R-7591-B Bike Bollard offers premium decorative aesthetics and a fluted body. Bike-locking arms are bolted internally to ensure secure storage for cyclists. Locking arms can also be used to assist in removal and transport for removable applications. R-7591-B Bike bollards feature a decorative cast ductile iron assembly, powder coated in 1 of 6 custom colors for exceptional durability and corrosion resistance. Reinforce bollards with embedded steel pipes or select from a range of mounting options: surface or embedded anchors or removable mountings.

Specifications:
- Height: 31 3/4" Base Diameter: 10 1/4"
- Weight: 84 lbs (Bollard Only)
- Material: Ductile Iron w/ Stainless Steel Bike Arms

Finish Options:
- Polyester Powdercoated

See Reliance Foundry's standard color options at: www.reliance-foundry.com/bollard/colors-bollards

Installation Options:
- Fixed - Anchor Casting in New Concrete (see sheet 2 of 12)
- Fixed - Concrete Insert Anchor in Existing Concrete (see sheet 3 of 12)
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For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

Care and Maintenance:
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Notes:
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4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

Tools needed:
1) Measuring tape
2) 1 1/2" wrench
3) 3/16" hex key

Weights:
- Ductile Iron Powder Coated: 65 lbs
- Ductile Iron Hot Dip Galvanized: 8 3/8 lbs
- Steel Hot Dip Galvanized: 5 8/10 lbs
- Steel Plated: 1/8 lbs
- Hexagon Socket Set Screw 3/8" x 5/8": 5/8 lbs
- Polyethylene Plug 3/8": 5/8 lbs
- Steel Powder Coated: 1 1/2 lbs
- Choice of Brass or Stainless Steel: 5/8 lbs

Notes on Diagram:
- Bollard post is provided as shown.
- Concrete, foundation and/or installation ordered separately or provided by others.
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**Specifications:**

- **Height:** 31 3/4”
- **Base Diameter:** 10 1/4”
- **Weight:** 84 lbs (Bollard Only)
- **Material:** Ductile Iron w/ Stainless Steel Bike Arms
- **Max. Interior Security Post Size:** 3 1/2” x 25” (Diameter x Height)

**Finish Options:**

- **Polyester Powdercoated**

See Reliance Foundry’s standard color options at: www.reliance-foundry.com/bollard/colors-bollards

**Installation Options:**

- **Fixed - Anchor Casting in New Concrete** (see sheet 2 of 12)
- **Fixed - Concrete Insert Anchor in Existing Concrete** (see sheet 3 of 12)
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- **Post Cover - Existing Post with Concrete Anchor** (see sheet 9 of 12)
- **Removable - Anchor Casting in New Concrete** (see sheet 10 of 12)
- **Removable - Concrete Insert Anchor in Existing Concrete** (see sheet 11 of 12)
- **Removable - Premium Retractable in New Concrete** (see sheet 12 of 12)

For more information on bollard post installation, please visit: www.reliance-foundry.com/bollard/installation-bollards

**Care and Maintenance:**

Reliance’s line of bollards are finished with a long-lasting powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements.

See Reliance Foundry’s maintenance guide at: www.reliance-foundry.com/bollard/maintenance-bollards

**Notes:**

1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
3) Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

**Tools needed:**

1) Measuring tape
2) 1 1/8” wrench
3) 3/16” hex key
4) Hammer drill
5) 1” Masonry drill bit
6) Hammer
7) Drop-in concrete insert setting tool
8) Fasten the padlock.
9) Turn bollard base clockwise to tighten it into position.
10) Use hammer and setting tool to drive plug down.

**Parts List:**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>R7591B</td>
<td>R7591 Base w/ Bike Arm</td>
<td>Ductile Iron Powder Coated</td>
<td>65 lbs</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>R7591C</td>
<td>R7591 Cap</td>
<td>Ductile Iron Powder Coated</td>
<td>19 lbs</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Drop-in Concrete Insert 3/4”</td>
<td>Drop-in Concrete Insert 3/4” - requires 1” x 3 1/8” hole (dia. x depth)</td>
<td>Steel Plated</td>
<td>1/2 lbs</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>R7500RM 1”</td>
<td>R7500 Removable Mount 1”</td>
<td>Steel Hot Dip Galvanized</td>
<td>4 1/8 lbs</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>Washer 3/4” OD 2”</td>
<td>Washer 3/4” OD 2” Thick 1/8”</td>
<td>Steel Plated</td>
<td>1/8 lbs</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>Hex Bolt 3/4” x 1 1/4”</td>
<td>Hex Bolt 3/4” x 1 1/4” - requires 1 1/8” wrench</td>
<td>Steel Plated</td>
<td>1/4 lbs</td>
</tr>
<tr>
<td>7</td>
<td>3</td>
<td>Hexagon Socket Set Screw 3/8” x 5/8”</td>
<td>Hexagon Socket Set Screw 3/8” x 5/8” - requires 3/16” hex key</td>
<td>Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>3</td>
<td>Polyethylene Plug 3/8”</td>
<td>Polyethylene Plug 3/8”</td>
<td>LDPE Black</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>R7500 Lock Pin 3/4” x 10”</td>
<td>R7500 Lock Pin 3/4” x 10”</td>
<td>Steel Powder Coated</td>
<td>1 1/2 lbs</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>Padlock (Optional)</td>
<td>Optional Padlock (Brass or Stainless Steel)</td>
<td>Choice of Brass or Stainless Steel</td>
<td>3/8 lbs</td>
</tr>
</tbody>
</table>

**Weight:**

Max. Interior Security Post Size: 3 1/2” x 25” (Diameter x Height)
Bollard R-7591-B

General Description:
The R-7591-B Bike Bollard offers premium decorative aesthetics and a fluted body. Bike-locking arms are bolted internally to ensure secure storage for cyclists. Locking arms can also be used to assist in removal and transport for removable applications. R-7591-B Bike bollards feature a decorative cast ductile iron assembly, powder coated in 1 of 6 custom colors for exceptional durability and corrosion resistance. Reinforce bollards with embedded steel pipes or select from a range of mounting options: surface or embedded anchors or removable mountings.

Specifications:
Height: 31 3/4"  
Base Diameter: 10 1/4"  
Weight: 84 lbs (Bollard Only)  
Material: Ductile Iron w/ Stainless Steel Bike Arms  
Max. Interior Security Post Size: 3 1/2" x 25" (Diameter x Height)

Finish Options:
Polyester Powdercoated
See Reliance Foundry's standard color options at:
www.reliance-foundry.com/bollard/colors-bollards

Installation Options:
- Fixed - Anchor Casting in New Concrete (see sheet 2 of 12)
- Fixed - Concrete Insert Anchor in Existing Concrete (see sheet 3 of 12)
- Fixed - Adhesive Anchor in Existing Concrete (see sheet 4 of 12)
- Fixed - Anchor Casting with Concrete Form (see sheet 5 of 12)
- Post Cover - New Post in New Concrete (see sheet 6 of 12)
- Post Cover - New Post in Existing Concrete (see sheet 7 of 12)
- Post Cover - Existing Post with Adhesive Anchor (see sheet 8 of 12)
- Post Cover - Existing Post with Concrete Anchor (see sheet 9 of 12)
- Removable - Anchor Casting in New Concrete (see sheet 10 of 12)
- Removable - Concrete Insert Anchor in Existing Concrete (see sheet 11 of 12)
- Removable - Concrete Insert Anchor in Existing Concrete (see sheet 11 of 12)
- Removable - Premium Retractable in New Concrete (see sheet 12 of 12)

For more information on bollard post installation, please visit:
www.reliance-foundry.com/bollard/installation-bollards

Care and Maintenance:
Reliance's line of bollards are finished with a long-lasting powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements. See Reliance Foundry's maintenance guide at:
www.reliance-foundry.com/bollard/maintenance-bollards

Notes:
1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.  
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.  
3) Recommended is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.  
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PARTS LIST

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<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>R7591B</td>
<td>R7591 Base w/ Bike Arm</td>
<td>Ductile Iron Powder Coated</td>
<td>65 lbs</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>R7591C</td>
<td>R7591 Cap</td>
<td>Ductile Iron Powder Coated</td>
<td>19 lbs</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>R7000</td>
<td>R7000 Retractable Removable Mount w/ Spacer L</td>
<td>Steel Hot Dip Galvanized</td>
<td>17 1/2 lbs</td>
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<tr>
<td>4</td>
<td>3</td>
<td>Hexagon Socket Set Screw 3/8&quot; x 5/8&quot;</td>
<td>Hexagon Socket Set Screw 3/8&quot; x 5/8&quot; - requires 3/16&quot; hex key</td>
<td>Stainless Steel</td>
<td></td>
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<td>Polyethylene Plug 3/8&quot;</td>
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<td>LDPE Black</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>R7500 Lock Pin 3/4&quot; x 10&quot;</td>
<td>R7500 Lock Pin 3/4&quot; x 10&quot;</td>
<td>Steel Powder Coated</td>
<td>1 1/2 lbs</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>Padlock (Optional)</td>
<td>Optional Padlock (Brass or Stainless Steel)</td>
<td>Choice of Brass or Stainless Steel</td>
<td>5/8 lbs</td>
</tr>
</tbody>
</table>

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