

SPECIFICATIONS

Helix Lock Removable Bollards (HL2002, HL2002L, HL2003, HL2003L, HL2004, HL2004L, HL2006, HL2006L)

US Patent 8,297,873

PART 1 GENERAL

1.1 SECTION INCLUDES

1.1.1 Removable bollards and ground sleeves

1.2 PART SPECIFICATIONS

1.2.1 ASTM A513 Type 1 – bollard post

1.2.2 ASTM A513 Type 5 – bollard ground sleeve, filler piece

1.2.3 ASTM A36 – lid assembly

1.2.4 ASTM A1011-10 & ASTM A500-10 - helix insert

1.3 PERFORMANCE REQUIREMENTS

1.3.1 Bollard will remove completely from the ground sleeve and provide flush surface when galvanized lid drops down or filler piece is inserted.

1.3.2 Unlock helix with custom allen wrench. To replace the bollard, make sure the bollard is still unlocked, replace, and lock the helix to secure bollard in ground sleeve.

1.4 SUBMITTALS

1.4.1 Submittal document can be found at www.trafficguard.net under “document library” or enclosed with bollard purchase. Follow manufacturer’s specifications and installation instructions as required.

1.5 QUALITY

1.5.1 Bollard posts and ground sleeves must be supplied by TrafficGuard to provide consistent quality in appearance and performance.

1.6 DELIVERY, STORAGE AND HANDLING

1.6.1 Inspect materials upon receipt ensure that the correct materials have been received and that they are in good condition.

TrafficGuard, Inc. – PO Box 201 – Geneva, IL 60134

Phone: 877-727-7347 Fax: 800-814-7194 Web: www.trafficguard.net

- 1.6.2 If not installing immediately, store units to avoid damage from other construction activities and elements.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- 2.1.1 TrafficGuard, Inc., P.O. Box 201, Geneva, IL 60134, Tel 877-727-7347, Fax 800-814-7194, Website: <http://www.trafficguard.net>
- 2.1.2 Different body styles for the Helix Lock are available to fit strength and aesthetic requirements.
Architect should specify different body styles:

HL2002 – 2.375" OD, 36" height
HL2002L – 2.375" OD, 36" height
HL2003 - 3.5" OD, 36" height
HL2003L- 3.5" OD, 36" height
HL2004 – 4.5" OD, 36" height
HL2004L – 4.5" OD, 36" height
HL2006 – 6.625" OD, 36" height
HL2006L – 6.625" OD, 36" height

2.2 MATERIALS

- 2.2.1 Bollards supplied should be free from surface blemishes and defects where exposed to view in the finished installation.
- 2.2.2 Steel Tube: ASTM A513 Type 1, ASTM A513 Type 5, ASTM A500-10
- 2.2.3 Steel Plate: ASTM A36, ASTM A1011-10

2.3 FABRICATION

- 2.3.1 After fabrication all units are prepared by removing scale and slag through the sand blasting process.

2.4 FINISHES

- 2.4.1 All surfaces are primed with rust & corrosion resistant, zinc rich primer w/ 5,000 hour salt spray performance.
- 2.4.2 Standard finish, TGIC Polyester outdoor finish RAL1028 Yellow. TGIC Polyester powder definition; meets decorative and functional requirements for gloss retention, physical properties, chemical resistance and weatherability.

PART 3 EXECUTION

3.1 INSTALLATION

- 3.1.1 Comply with manufacturer provided instructions and drawings.
- 3.1.2 Ground sleeves should be installed with the top of the sleeve set flush with the finished surface.
- 3.1.3 Ensure that a minimum of a 3 inch gravel base is put down prior to installation to ensure drainage of the bollard, per installation details.
- 3.1.4 Bollard should not be inserted into the ground sleeve until it is leveled and fully cured. Attach bollard per manufacturer instructions. **DO NOT ATTEMPT TO INSTALL BOLLARD IN THE LOCKED POSITION.**
- 3.1.5 If touch up painting in the field, be careful not to paint moving parts which may restrict the bollard's proper function.

3.2 SITE STORAGE AND PROTECTION

- 3.2.1 Upon receipt of bollard unit(s) all materials should be thoroughly inspected to ensure that all parts are received in good condition.
- 3.2.2 Store units in a dry location away from possible damage until the time of installation.