

Section 12 93 13 Bicycle Racks
SPECIFICATIONS FOR GROUND CONTROL SYSTEMS® GUARDIAN™, DIAMOND BIKE RACKS

PART 1: GENERAL

1.1 Summary

Section includes written specifications for the GUARDIAN™, Diamond Bicycle Rack.

1.2 Quality Assurance

A. Manufacturer Qualifications:

1. A manufacturer experienced in producing commercial bicycle parking racks like the desired specification described for this project.
2. Product Options: The manufacturer will be able to produce several finish and color options, shapes and types of bicycle racks from a single source or from resources able to provide product options of like quality in both form and function.
3. Manufacturer Service Options: The manufacturer will be able to present product specific drawings of the bicycle racks size, shape, dimensional requirements, and weight.

B. Installer Qualifications: Experienced installer has completed installation of bicycle racks similar in specification to that indicated for this project.

1.3 Submittals

A. Product Information: Must contain physical descriptions such as bicycle parking capacity dimensions, shape, installation hardware requirements, and finish options for each bicycle rack.

B. Installation Drawings and/or Installation Video: Details installation instruction for the designated bicycle rack. Drawing packages and submittals can be supplied by Ground Control Systems.

C. Product Verification: Able to submit finish samples for review and verification upon request.

D. Manufacturer's Project References: Able to provide a minimum of three references for whom the firm provided similar or comparable services during the last 5 years and a description of the services provided.

E. Warranty: Submit manufacturer's standard warranty.

1.4 Delivery, Storage and Handling

- A. *Delivery:* In order to ensure shipments are received undamaged, a thorough inspection must be made and noted on the B.O.L.
- B. *Storage:* Bicycle racks should be stored in their original packages or containers until they are ready for installation.
- C. *Handling:* Before and up to installation, bicycle racks should be handled with sufficient care in order to prevent any finish damage.

1.5 Warranty

Manufacturer's Warranty: Bicycle racks carry a limited warranty against defects in materials and workmanship beginning on the date of delivery. Please see the separate warranty document for complete details and limitations on manufacturer liability.

PART 2: PRODUCTS

2.1 Manufacturer

Provided bicycle racks manufactured by Ground Control Systems® 708 Alhambra Blvd, Suite 200, Sacramento, CA, 95816, 1-800-630-7225, Fax: 1-866-532-9049, Website: www.groundcontrolsystems.com

2.2 Materials

- A. *Pipe:* Steel ASTM A500 Pipe, "A" Shaped
- B. *Flange:* Steel ASTM A36 Sheet Metal Laser Cut
- C. *Lock Bar:* Steel ASTM A36 Sheet Metal Laser Cut, Arched and Crowned
- D. *Guard:* EPDM Compression Molded Guards
- E. *Cross Bar:* 8-3/8" Steel Bike Separation Cross Bar to Eliminate Bike Entanglement and Reduce Bike(s) From Sliding Down

2.3 Finishes

- A. UV Resistant Powder Coat – Silver (Standard)

2.4 Product Details

GUARDIAN™

- A. 2 bike capacity
- B. 1½" x 1½" Sq. Pipe
- C. All steel construction
- D. Lock bar allows for secure locking of bike frame and wheel without bike slipping
- E. Compression molded elastomeric guards reduce the metal to bike contact while the bike(s) is leaned and locked to the rack
- F. Surface mount (Anchors available), Rail mount accessory for freestanding applications
- G. U-lock compatible

2.5 Space Use

Guardian™ Setbacks:

Measurements are from said setback to the center of the rack unless otherwise specified.

1. Wall Setback: For racks set parallel to the wall, a minimum of 30" is recommended. For racks installed perpendicular to the wall, 22" measured to the center of first flange bolt is recommended.
2. Street Setback: For racks parallel to the street 45" is recommended. For racks perpendicular to the street 38" measured to the center of the first flange bolt is recommended. Where vehicle parking is prohibited 22" is the recommended minimum. If possible, avoid installing a bike rack in a car door opening zone.
3. Distance Between Racks: 36" center-to-center spacing is recommended for best space and bike efficiency. 42" is recommended for the best user-friendly experience.
4. Diagonal positioning will increase walk space for narrow areas but will decrease the space needed for locking the bike.

2.6 Mounting

A. Rail Mount

1. Precision Laser Cut Steel ASTM A36 Sheet Metal
2. Comes in 4, 6, or 8 bike segments
3. Extendable with use of rail extensions and common rack mounting hardware for infinite lengths and combinations.
4. Can be used with other products from Ground Control Systems.
5. Hardware: 3/8" -16 X 1.50" RHSN Bolt QTY: 4, 3/8" Flat Washer QTY: 4, 3/8" - 16 Hex Nut QTY: 4
 - Hot Dip Galvanized (Standard)
 - Stainless Steel (Upon Request – Additional Cost)

B. Permanent Mount

1. Hardware: Wedge Anchor 3/8" -16 X 3 3/4" QTY: 4

PART 3: EXECUTION

3.1 Examination

Examine footprint to ensure conditions are adequate per architect specifications and plans. Do not proceed with installation if conditions are not adequate for install. Notify project architect if conditions are unsatisfactory.

3.2 Preparation

Make sure the location of the racks is flat, level, square, accurate for alignment, and correctly located for install of bicycle racks.

3.3 Installation

Surface or Flange Mount: An above ground mount that is anchored to the base material through the product specific flange plate.

Surface Rail Mount: An above ground rail that allows for the mounting of 4, 6 or 8 bikes and has the option to adjoin rails for additional parking.

3.4 Quoting

- A. *Product specification:* Make sure the product item, finish options, fasteners, and expected lead time have been included in the estimate.
- B. *Pricing:* Estimates are good for 45 days; contact a Ground Control representative for a current price list.

3.5 Freight

- A. The Guardian™ Bicycle Rack can be shipped UPS and in some cases ship freight, dependent on quantity order. Call Ground Control at 1-800-630-7225 for a freight quote.

3.6 Purchasing

- A. *Product specification:* Make sure the product item, finish options, fasteners, and expected lead time have been included in the estimate.
- B. *Pricing:* Estimates are good for 45 days; contact a Ground Control Systems representative for a current price list if estimate has expired.
- C. *Placing an order:* You can order via phone 1-800-630-7225; Fax: 1-866-532-9049; email - info@groundcontolsystems.com. Or, if submitting purchase orders, mail to: 708 Alhambra Blvd., Suite 200, Sacramento, CA 95816