

PART 1: GENERAL

1.1 Summary

This section includes written specifications for the Offset® VR2 and XL vertical bike racks and the Side Stage™ and Center Stage™ vertical offset bike rack systems.

1.2 Quality Assurance

A. Manufacturer Qualification:

1. A manufacturer experienced in manufacturing and producing commercial bicycle parking racks similar to the desired specification described for this project and with a record or successful in-service performance.
2. Product Options: The manufacturer will be able to produce several finish and color options, 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 specifications and to the extent indicated for this project.

1.3 Submittals

- A. Product Information: Must contain physical description such as bicycle parking capacity, dimensions, shape, installation hardware requirements, and finish options for each bike rack.
- B. Installation Drawings and/or Installation Video: Detailed installation instructions for the designated bicycle rack. Drawing packages and submittals can be supplied by Ground Control Systems.
- C. Assembly Instructions: For the Offset® vertical bike rack, Side Stage™, and Center Stage™ free standing vertical bike rack systems.
- D. Product Verification: Able to submit finish samples for review and verification upon request.
- E. 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.
- F. 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 performed and noted on the B.O.L. upon receipt of shipment.
- B. Storage: Bicycle racks and components 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 one year limited warranty against defects in materials and workmanship beginning on the date they received.

PART 2: PRODUCTS

2.1 Manufacturer

Provided bicycle racks designed 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. Mechanical tube: ASTM A511M
- B. Steel rod: ASTM A36 Rod size - ¾"
- C. Steel pipe: ASTM A53
- D. Plate steel: ASTM A 1008M or ASTM A36
- E. Polyvinyl Sleeve: Covers the locking loop for extra protection for bikes against paint damage from the metal rack.

2.3 Finishes

- A. Black Duraplas®
- B. Electro galvanized finish - rails and tubing (Side Stage™/Center Stage™)

2.4 Space Use

- A. Offset® Vertical Bike Rack VR2 Setbacks:
 - 1. Ground offset: A minimum of 42" to the bottom edge of the rack
 - 2. Ceiling height: minimum 82", recommended 92" to hook
 - 3. Sidewall to rack center: minimum 20", recommended 24"
 - 4. Distance between racks center to center: minimum 28", recommended 31"
- B. Offset® Vertical Bike Rack XL Setbacks:
 - 1. Ground offset: A minimum of 42" to the bottom edge of the rack
 - 2. Ceiling height: minimum 92" (no obstructions)
 - 3. Side wall to rack center: minimum 22" to the left side of the rack, recommended 24". Minimum 18" to the right side of the rack.
 - 4. Distance between racks center to center:
 - a. For racks not offset: 30" minimum, 36" recommended
 - b. For racks offset: 16" minimum, 23" recommended
 - 5. For ADA compliance, Offset Vertical Racks require a cane detection device surrounding the parking area to prevent injury of the vision-impaired; 22" from the wall
- C. Side Stage™ and Center Stage™ Vertical Bike Rack Systems Setbacks
 - 1. Ceiling height: minimum 92"
 - 2. Distance between racks center to center: minimum 28", recommended 31"
 - 3. Distance from parallel wall: minimum 96" from center of tower
 - 4. Loading Zone: recommended 48" - 72"

PART 2: PRODUCTS

2.5 Product Details

- A. Offset® VR2 - 2 bike rack is a vertical wall mounted bike rack holding two bikes with an offset distance of 12½" vertically and 7¼" horizontally. May require Unistrut™ for studded wall mounting, call Ground Control Systems for details.
- B. Offset® VR1 XL - 1 bike rack is a vertical wall mounted bike rack holding one oversized bike, such as a fat tire or cargo bike. May require Unistrut™ for studded wall mounting, call Ground Control Systems for details.
- C. Optional rail mounted systems available. Configurations include:
 - 1. Side Stage™ SS4 - single sided, 4 bike secured
 - 2. Side Stage™ SS6 - single sided, 6 bikes secured
 - 3. Side Stage™ SS8 - single sided, 8 bikes secured
 - 4. Side Stage™ SS10 - single sided, 10 bikes secured
 - 5. Center Stage™ CS8 - double sided, 8 bikes secured
 - 6. Center Stage™ CS12 - double sided, 12 bike secured
 - 7. Center Stage™ CS16 - double sided, 16 bike secured
 - 8. Center Stage™ CS20 - double sided, 20 bike secured
- D. Add on units for Side Stage™ systems. Configurations include:
 - 1. SSA4 - SSA10 add on units in multiples of two, 4 - 10 bikes secured
- E. Add on units for Center Stage™ systems. Configurations include:
 - 1. CSA8 - CSA20 add on units in multiples of two, 8 - 20 bikes secured

PART 3: EXECUTION

3.1 Examination

Examine footprint to ensure conditions are adequate for installation. Do not proceed with installation if conditions are not adequate for installation. Notify the project manager if conditions are unsatisfactory.

3.2 Preparation

Make sure the location of the bike racks is flat, level, square, accurate for alignment, and correctly located for the installation of the bike racks. Shimming may be necessary for tapered and uneven grades.

3.3 Installation

- A. Wall Mount: the Offset® vertical bike rack mounts into concrete and masonry walls.
- B. Rail Wall Mount: Wall installations into wood studs will require Unistrut™ rails, call Ground Control Systems for details.

3.4 Quoting

- A. Product Specification: Make sure the product item, finish options, installation hardware, fasteners, and expected lead time have been included in the estimate.
- B. Product Pricing: Quotes are in US Dollars and valid for 90 days.
- C. Product Pricing: Quotes for Special Orders are valid for 30 days. (Special orders are purchases containing non-stocking products, custom colors, or quantities higher than what is typically on hand.
- D. Shipping Pricing: Shipping Quotes are estimates and only good for 30 days - cost may fluctuate up to 25%.

3.5 Freight

- A. Offset® bike racks, Side Stage™, and Center Stage™ systems can be shipped UPS and in some cases freight LTL, depending on quantity on order. Call Ground Control Systems at 1-800-630-7225 for a formal quote.
- B. Shipment Pricing: Estimates are good for 30 days; contact a Ground Control Systems representative for a current price list.

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 90 days (30 days for special orders); contact a Ground Control Systems representative for a current price list if the estimate has expired.
- C. Shipping Pricing: Shipping Quotes are estimates and only good for 30 days - cost may fluctuate 25%.
- D. Placing an order: You can order via phone 1-800-630-7225; Fax 1-866-532-9049; Email - info@groundcontrolsystems.com. Or, if submitting purchase orders, mail to: 708 Alhambra Blvd, Suite 200, Sacramento, CA, 95816.