

Division 12 00 00 FURNISHINGS
Section 12 93 00 SITE FURNISHINGS
Section 12 93 13 BICYCLE RACKS

Basis of Design

1. Product: VelopA CapaCITY Two-Tier Bike Rack.
2. Description: VelopA CapaCITY Two-Tier Bike Rack parks bikes horizontally in two tiers. On each tier, bikes are staggered vertically to reduce interference between handlebars and pedals of adjacent bikes. Solid steel locking loops suitable for a U-lock are provided for each bike. Lower trays allow bikes to be rolled in with no lifting. Upper trays slide out and articulate down to a shallow 43° loading angle allowing bikes to be lifted as little as 14.57" (37 cm) and rolled up into the tray. Each upper tray incorporates a safely concealed gas spring to provide lift assistance when articulating the tray back up. All racks configurations other than 4 bike single sided units do not require floor anchors for rapid installation and maintenance. Racks are designed for continuous interior or exterior use with minimal maintenance. Lower trays fit bike tires up to 2.35" (60 mm) in width and upper trays fit up to 2.0" (50 mm) in width.
3. Quantity: As shown on plan.
4. Material: The bike rack frame, locking loops, upper and lower bike trays are galvanized mild steel. Upper bike tray handles are injection molded PA6 glass-fiber filled plastic. All fasteners are stainless steel and are tamper resistant.
5. Distributor: The exclusive distributor for VelopA two-tier bike racks in the United States and Canada is Sportworks Northwest, Inc.; www.sportworks.com; 425-483-7000; salesandsupport@sportworks.com.

Part 1 General

1.01 Summary

- A. This section includes specifications for high density modular bike racks arranged in 2 vertical tiers (one tier on the ground and one tier above the ground tier) with the upper tier employing a gas spring for lift assistance.

1.02 Submittals

- A. Installation instructions.
- B. Maintenance Guide.

1.03 Quality Assurance

- A. Manufacturer Qualifications:
 - i. Minimum 5 years of bicycle rack manufacturing experience.
 - ii. Have manufactured and delivered this style of rack.

1.04 Delivery, Storage and Handling

- A. Inspect shipment upon delivery for freight damage and note complaint with carrier.
- B. Protect bicycle racks during storage and installation.
 - i. Use original packing if possible for storage.
 - ii. Protect finish of rack from scratches or damage with careful handling.

1.05 Warranty

- A. Provide manufacturer's standard warranty.
 - i. Terms of warranty: 1 year from invoice date against defects in materials and/or workmanship.

Part 2 Products

2.01 Manufacturer

A. Distributor Information:

- i. Name: Sportworks Northwest, Inc.
- ii. Address: 15540 Woodinville-Redmond Rd NE, Bldg A-200, Woodinville, WA, USA
- iii. Phone: (425) 483-7000
- iv. Fax: (425) 488-9001
- v. Web: www.sportworks.com

2.02 Materials

- A. Upper Bike Trays: 3.6" width x 3.5" height (91 mm x 90 mm) custom formed profile (mild steel).
- B. Lower Bike Trays: 0.1" thick (3 mm) sheet metal (mild steel).
- C. Cross Beams: 3.9" x 3.9" (100 mm x 100 mm) OD square tubing (mild steel).
- D. Legs: 2.4" x 1.2" (60 mm x 30 mm) OD rectangular tubing (mild steel).
- E. Locking Loops: 1.2" (30 mm) solid round rod (mild steel).
- F. Plastic Elements: PA6 glass-fiber filled.
- G. Fasteners: Pin-in-Torx stainless steel.

2.03 Finish

- A. Standard finish for racks is hot-dip galvanize for all mild steel parts.

2.04 Dimensions

- A. Length is determined based on the number of bike spaces and the spacing.
- B. Standard spacing between bikes is 14.8" (375 mm) or 15.7" (400 mm); optional spacing between bikes is 17.7" (450 mm), 19.7" (500 mm), 25.6" (650 mm).
- C. All racks have standard widths and heights; the following dimensions include bikes loaded in the racks:
 - i. Single-sided racks: 74.8" (1900 mm) depth, 108.3" (2750 mm) height
 - ii. Double-sided racks: 114.2" (2900 mm) depth, 108.3" (2750 mm) height.

2.05 Mounting

- A. Surface anchors are required only for 4 bike single-sided units (2 bikes in low tier, 2 bikes in high tier), anchors are optional on all other configurations.
- B. All anchors are 3/8 diameter concrete wedge anchors.

2.06 Additional Specifications

- A. Rack to require front tire of bike to be lifted no more than 14.57" (37 cm) for loading into upper tier racks.
- B. Rack to provide a shallow angle of 43° for ease of rolling bikes into upper trays.
- C. Rack to require bike to be loaded into upper tier racks without lifting the full weight of the bike.
- D. Rack to require a gas spring for lifting assistance for upper tier racks.
- E. Rack to allow the frame of the bike to be locked to the racks with a variety of U-lock styles as small as 8" long x 4" wide (measured between the inside edges of the U).
- F. Rack to provide at least two points of contact for each bike.
- G. Rack to require all exposed fasteners to be tamper resistant.

Part 3 Execution

3.01 Installation

A. Install bicycle rack in accordance with:

- i. Installation instructions provided by Distributor
- ii. Association of Pedestrian and Bicycle Professionals recommendations for location and spacing
- iii. All applicable municipal and local requirements for bicycle parking