

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

**Basis of Design:**

1. Product: Sportworks Vertical+ Direct Wall Mount Bike Rack.
2. Description: Sportworks Vertical+ Direct Wall Mount Bike Rack parks bikes vertically, to reduce handlebar interference. Users can u-lock the front wheel and frame of the bike to a square steel tube which mitigates theft with a pipe cutter. Rack also allows modular configuration, single-sided parking - any horizontal spacing between bikes can be set.
3. Quantity: As shown on plan.
4. Material: Rack support loops: 1.0" x 1.0" x .060" Square Tubing (mild steel).
5. Manufacturer: Sportworks Northwest; [www.sportworks.com](http://www.sportworks.com); 425-483-7000; [salesandsupport@sportworks.com](mailto:salesandsupport@sportworks.com)

**Part 1 General**

1.01 Summary

- A. This section includes specifications for Vertical+ Direct Wall Mount bicycle rack that allows a bicycle to be stored in a vertical, free-hanging position.

1.02 Submittals

- A. Manufacturer technical drawing.
  - i. Size, shape, and finish.
- B. Installation instructions.
- C. Setback requirements.

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. Sportworks manufactured Vertical+ Direct Wall Mount bicycle rack that allows a single bicycle to be stored in a vertical orientation.

2.02 Materials

- A. Rack support loop: 1.0" x 1.0" x .060" Square Tubing (mild steel).
- B. Mounting bracket: .1875" Plate (mild steel).

C. Wheel hook boot/cover: black Santoprene molded boot with enclosed end.

#### 2.03 Finish

A. Rack support loop: TGIC Polyester powder coat (standard).

B. Wheel hook boot/cover: Black Santoprene TPV.

#### 2.03 Dimensions

A. Overall dimensions: 27.3" long x 8.8" wide x 23.9" high.

#### 2.05 Mounting

A. Concrete lag screws  $\frac{1}{4}$ " x 2-5/8" Length.

B. E-Z Lock inserts for mounting to 3/4" thick plywood.

#### 2.06 Description and Features

- A. Support bikes in a vertical free-hanging position, via an upturned wheel hook.
- B. Each support loop will hang one bike by the wheel via a wheel hook covered in a durable and cushioning Santoprene material.
- C. Wheel hooks will be angled upwards in order to reduce the chance of bikes falling off wheel hooks.
- D. Support loop geometry will mitigate interference with the bicycle frame, chain, crank, pedals, fork, derailleurs and wheels.
- E. Support loops will allow bike gear (such as, helmets, jackets, gloves, etc.) to be hung for storage and/or drying purposes.
- F. Support loop geometry will allow the bike frame (of the most common commuter type bikes) and one wheel to be locked to the rack with a variety of u-lock styles as small as 8" long x 4" wide (measured between the inside edges of the u).
- G. Support loops are constructed with square tubing to make cutting with a pipe cutter very difficult thereby increasing security.

### Part 3 Execution

#### 3.01 Installation

##### A. Wall Mount to Concrete:

i. Install 4 fasteners through each hole in the wall mount bracket as designated in manufacturer assembly instructions.

ii. Install bicycle rack in accordance with APBP (Association of Pedestrian and Bicycle Professionals) recommendations for location and spacing.

##### B. Wall Mount to Wood Studs:

i. Install only 2 fasteners using the two holes that are vertically inline in the mounting bracket as designated in manufacturer assembly instructions.

ii. Install bicycle rack in accordance with APBP (Association of Pedestrian and Bicycle Professionals) recommendations for location and spacing.

##### C. Mounting to Plywood:

i. Attached 3/4" thick plywood to wall and install rack using E-Z Lock inserts as designated in manufacturer installation instructions and Plywood Installation Guidelines.

D. The installer is responsible for ensuring the mounting surface and installation method are adequate to safely secure the bicycle rack.