

Division 12 00 00 FURNISHINGS**Section 12 93 00 SITE FURNISHINGS****Section 12 93 13 BICYCLE RACKS****Basis of Design:**

1. Product: Sportworks No Scratch® Vertical+ Direct Wall Mount Bike Rack.
2. Description: Sportworks No Scratch® Vertical+ Direct Wall Mount Bike Rack parks bikes vertically, to reduce handlebar interference, while a polyurethane pad mitigates bike scratches. 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) with Polyurethane No Scratch® pad to protect bikes from being scratched.
5. Manufacturer: Sportworks Northwest; www.sportworks.com; 425-483-7000; salesandsupport@sportworks.com

Part 1 General

1.01 Summary

- A. This section includes specifications for a No Scratch® direct wall mount bicycle rack that allows a bicycle to be stored in a vertical, free-hanging position, while protecting the bike frame from being scratched.

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 No Scratch® direct wall mount bicycle rack that allows a single bicycle to be stored in a vertical orientation.

2.02 Materials

- A. No Scratch® pad: black polyurethane.

- B. Rack support loop: 1.0" x 1.0" x .060" Square Tubing (mild steel).
- C. Mounting bracket: .1875" Plate (mild steel).
- D. 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.
- C. No Scratch® pad: Black Polyurethane.

2.03 Dimensions

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

2.05 Mounting

- A. Concrete lag screws ¼" 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. Any potential interface zones between the bike and the rack is covered with a Polyurethane No Scratch® pad to help protect the bike frame from being scratched.
- F. Support loops will allow bike gear (such as, helmets, jackets, gloves, etc.) to be hung for storage and/or drying purposes.
- G. 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).
- H. 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.