Swerve Rack

The design of the Swerve mirrors the bike frame, thus providing superior bike support while making it easy to secure both the bike frame and wheel with a standard u-lock. Swerve Racks are popular with architects and universities because of their aesthetic design and space efficiency.

American Bicycle Security Company
P.O. Box 7359
Ventura, CA 93006
Ph: (800) 245-3723 or (805) 933-3688
Fax: (805) 933-1865
www.ameribike.com
Email: turtle@ameribike.com
Swerve Rack

Product: Swerve Rack
Capacity: 2 Bikes
Materials: 1.5” Schedule 40 pipe (1.9” OD)
Finishes: Standard options: Galvanized or Powder Coated

Also available in PVC, Thermoplastic, or Stainless steel upon request.

Installation Methods

- **In ground mount**: is embedded into concrete base. Specify in ground mount for this option.
  - Foot Mount: has two 2.5”x6”x0.25” feet with two anchors per foot. Specify foot mount for this option.
  - Rail Mounted: Swerves are bolted to two parallel rails which can be left freestanding or anchored to the ground. Rails are heavy-duty 3”x1.4”x3/16” thick galvanized mounting rails. Specify rail mount for this option.

Space Use & Setbacks

- **Wall Setbacks**:
  - For racks set parallel to a wall:
    - Minimum: 24”
    - Recommended: 36”
  - For racks set perpendicular to a wall:
    - Minimum: 28”
    - Recommended: 42”

- **Distance Between Racks**:
  - Minimum: 24”
  - Recommended: 36”

- **Street Setbacks**:
  - Minimum: 24”
  - Recommended: 36”

Example of rack in use
**Tools Needed for Installation**
- Tape Measure
- Marker or Pencil
- Masonry Drill Bit
- Drill *(Hammer drill recommended)*
- Hammer
- Wrench 9/16”
- Level

**Recommended Base materials:**
Solid concrete is the best base material for installation. To ensure the proper anchors are shipped with your rack, ask your American Bicycle representative which anchor is appropriate for your application. Be sure nothing is underneath the base material that could be damaged by drilling.

**Installation:**
3/8” anchors are shipped with the rack. Place the rack in the desired location. Use a marker or pencil to outline the holes of the flange onto the base material. Drill the holes in accordance with the specifications shipped with the anchors. Make sure the holes are at least 3” away from any cracks in the base material. Use washers to level rack if necessary. Tap in anchors and follow your specific anchor instructions provided with the rack.

**Tamper Resistant Hardware**
The concrete spike is a permanent anchor. The top of the wedge anchor can also be pounded sideways after installation so that it cannot be removed. Other tamper resistant fasteners are also available for purchase.

When using the special tamper resistant nuts, always set and first tighten the anchors. Once the rack is installed, replace two nuts from the bracket (opposite sides from each other) with the tamper resistant fastener.

**DO NOT OVERTIGHTEN** the tamper resistant nut.
**Tools Needed for Installation**
- Level
- Cement mixing tub
- Shovel
- Trowel
- Hole coring machine with 4” bit
- Access to water hose
- Materials to build brace

**Installing into New Concrete**

1. Place corrosion resistant sleeve (min. 3” inside diameter) in sand pour bed in exact location where rack will be installed. Make sure top of sleeve is at same level as desired finished concrete surface. Fill sleeve with sand to keep it in place and prevent it from filling with concrete.

2. Pour concrete & allow to cure.

3. After curing, dig out sand from sleeves & insert racks, making sure they are level & at the appropriate height.

4. Place racks in holes, making sure it is level.

**Installing into Existing Concrete**

1. Place rack into holes, making sure it is level.

2. Core holes no less than 3” diameter (4” recommended) & no less than 10” deep into surface.

3. Fill holes with epoxy grout. 32” of the bike rack should remain above surface.

4. Make sure rack is level & held in place until the grout has completely set.

*An easy way to brace the rack while the grout sets is to bolt two 1x4” boards together at one end and clamp them onto the legs of the rack like a clothes pin.

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*Tools Needed for Installation

- 9/16" socket set
- (2) 4"x4"x28" (or larger) blocks
- (4) bolts, nuts & washers for each rack.

*If using tamper resistant nuts, install two tamper-resistant & two standard nuts with each rack.*

**Installation Steps:**

1. Lay out the two channel beams where the rack will be placed. Place both beams on top of the two blocks of wood so that the open part of the channel faces the ground.

2. Place racks on beams so holes in rack flanges line up with beam slots.

3. Put bolts through Hoop Rack flange holes & beams so bolt head faces up. HAND tighten the nuts using new flange nuts.

4. Once nuts are on, tip assembled rack over & use a 9/16" socket to tighten nuts. **Before** tightening nuts, make sure the racks are straight on beams. **If using tamper resistant nuts, use access tool to tighten nuts. Do not over tighten the tamper resistant nuts.** Tip rack upright.

**Anchoring Rails:**

To anchor the rails to concrete, place 3.75" wedge anchor through holes in the rail into the concrete. Secure with nut.

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