



DERO

## SWERVE RACK

- High security
- Inexpensive bike parking
- Several mounting options available

The design of the Dero 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. Dero Swerve Racks are popular with architects and universities because of their aesthetic design and space efficiency.

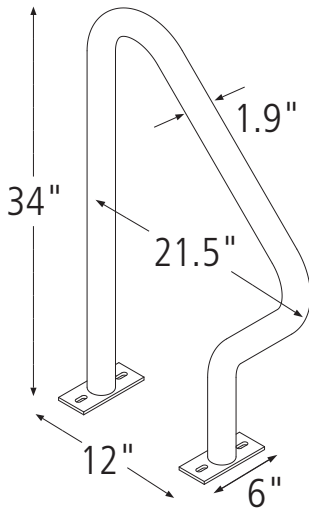


**DERO**  
A PLAYCORE Company

 [www.dero.com](http://www.dero.com)  1.800.337.6729



 Printed on recycled paper



**Product** Dero Swerve Rack  
As manufactured by Dero Bike Racks

**Capacity** 2 Bikes

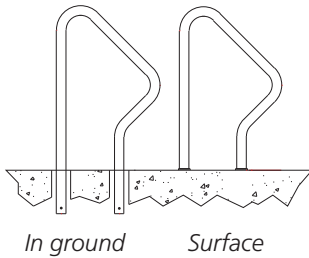
**Materials** 1.9" OD schedule 40 pipe

**Finishes** An after fabrication hot dipped galvanized finish is our standard option. 250 TGIC powder coat colors, thermoplastic coating, PVC dip, and stainless steel finishes are also available as alternate options.

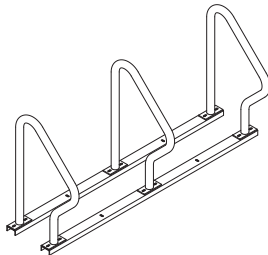
Our powder coat finish assures a high level of adhesion and durability by following these steps:

1. Sandblast
2. Epoxy primer electrostatically applied
3. Final thick TGIC polyester powder coat

Stainless Steel: 304 grade stainless steel material finished in either a high polished shine or a satin finish.



In ground Surface



Rail (freestanding)

**Installation Methods**

**In ground mount** is embedded into concrete base. Specify In Ground Mount for this option.

**Foot Mount** has two 2.5"x6"x.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.

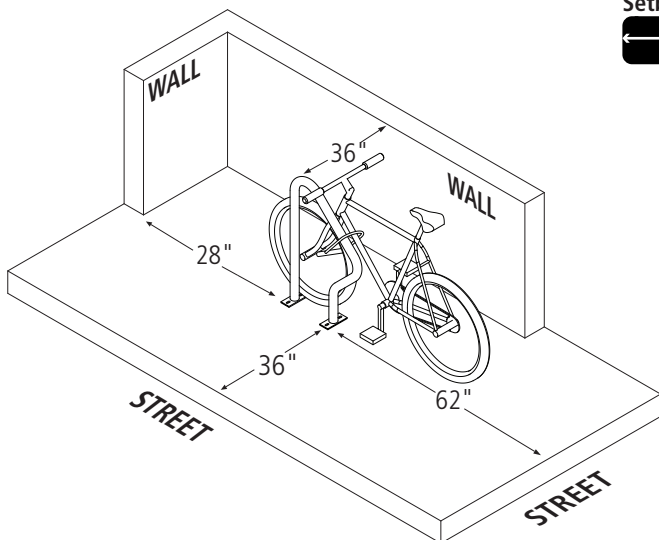
**Space Use and Setbacks**

**Wall Setbacks:**  
For Swerves set parallel to a wall:  
Minimum: 24"  
Recommended: 36"

**For Swerves set perpendicular to a wall:**  
Minimum: 28"

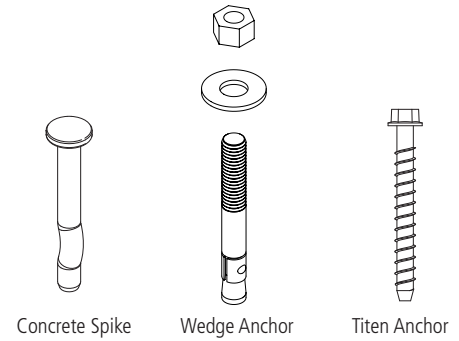
**Distance Between Racks:**  
Minimum: 24"  
Recommended: 36"

**Street Setbacks:**  
Minimum: 24"  
Recommended: 36"



## Tools Needed for Installation

- Tape Measure
- Marker or Pencil
- Masonry Drill Bit
- Drill (Hammer drill recommended)
- Hammer
- Wrench 9/16"
- Level



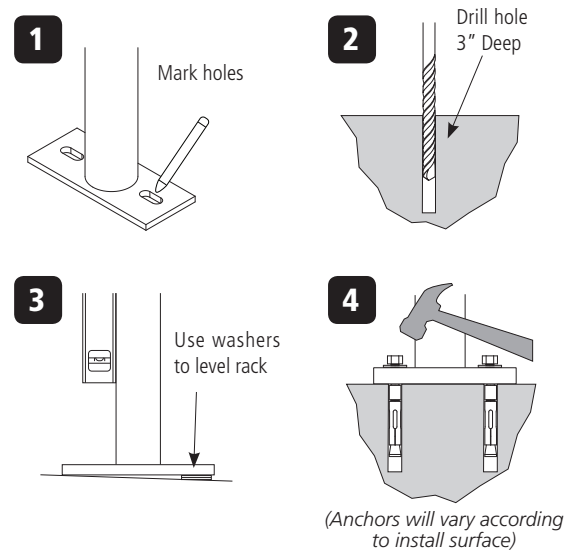
*Standard Anchor Types*

## Recommended Base Materials:

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

## Installation:

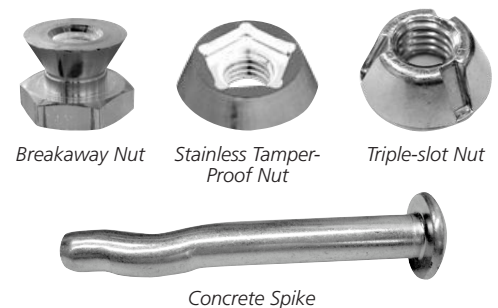
3/8" anchors are shipped with the rack. Place the rack in the desired location. Use a marker or pencil to outline the holes of the flange onto the base material. Drill the holes in accordance with the specifications shipped with the anchors. Make sure the holes are at least 3" away from any cracks in 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 Fasteners

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.



If you have any questions about installation or other features of the Swerve Rack, please call us toll free at 1-800-298-4915



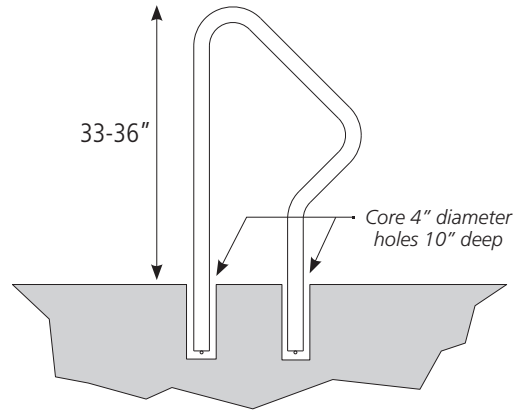


### Tools Needed for Installation

Level	Hole coring machine with 4" bit
Cement mixing tub	Access to water hose
Shovel	Materials to build brace (see "Install Tip" at bottom of page)
Trowel	

### Installing into Existing Sidewalk

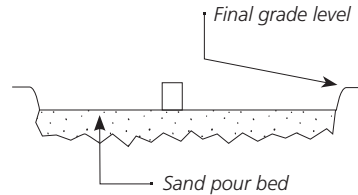
Core holes no less than 3" diameter (4" recommended) and 10" deep into sidewalk. Fill holes with Por-Rok or epoxy grout. Place Swerve Rack into holes, making sure the rack is level. 33"-36" of the Swerve Rack should remain above the surface. If the Swerve Rack is less than 33" high, it will not support the bike adequately. Make sure the rack is level and held in place until the grout has set.



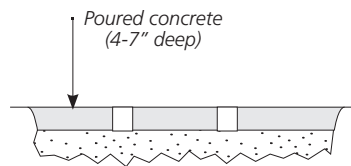
### Installing Into a New Sidewalk:

#### Sleeve Method:

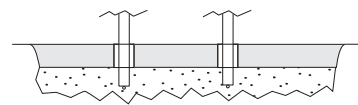
**1** Place corrosion resistant sleeve (min. 3" inside diameter) in sand pour bed in exact location where rack will be installed. Make sure top of sleeve is at same level as desired finished concrete surface. Fill sleeve with sand to keep it in place and prevent it from filling with concrete.



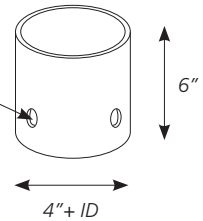
**2** Pour concrete and allow to cure.



**3** After appropriate cure time, dig out sand from sleeves and insert racks, making sure they are level and at the appropriate height. Pour in Por-Rok or epoxy grout and allow to set.

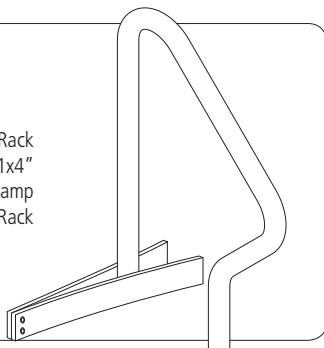


Note: Sleeve should have profile to keep it from coming loose from hardened concrete.



### INSTALL TIP

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



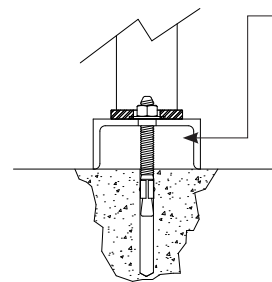
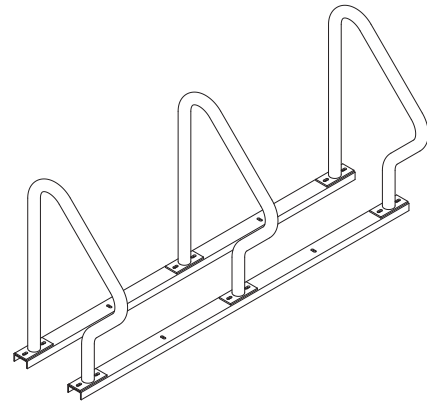


### Rail Mounted Swerves

Rail mounted Swerve Racks are standard foot mounted Swerve Racks attached with bolts to a rail as in the diagram at left. Rail mounted racks provide more flexibility than other mounting options while providing the same degree of security.

Rail mounted Swerve Racks can be left freestanding, or they can be anchored to the ground using several anchors. This option allows for easier snow removal and sweeping. Installation of Rail mounted Swerves is also much less expensive than embedding the racks into the ground.

\* Note: Though racks may be painted, the rails will remain with only a galvanized finish



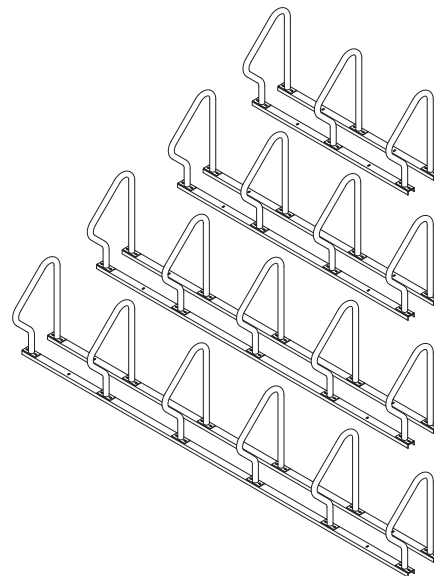
Anchor runs through rail into base install surface

### Advantages to rail mounted Swerve Racks:

- Easier and inexpensive installation
- Can be left freestanding or anchored to the ground
- Easier to remove for sweeping and snow removal

### Applications where Rail Mounted Swerves work best:

- Installation to pavers
- Asphalt Installations
- Ground, dirt, or mulch
- Situations where the rack needs to be moved occasionally



3 Swerves  
76" Long  
Parks 6 Bikes

4 Swerves  
108" Long  
Parks 8 Bikes

5 Swerves  
146" Long  
Parks 10 Bikes

6 Swerves  
181" Long  
Parks 12 Bikes



**Tools Needed for Installation:**

- 9/16" Socket set
- Two 4"x4"x28" (or larger) blocks
- 4 bolts, nuts and washers for every Swerve (included with rack). If using a tamper resistant nuts, install two tamper resistant nuts with each rack.

**Installation Steps**

- 1** Lay out the two channel beams where the rack will be placed. Place the two beams on top of the two blocks of wood so that the open part of the channel faces the ground.
- 2** Place Swerve Racks on beams so holes in rack flanges line up with beam slots.
- 3** Put bolts through Swerve Rack flange holes and beams so bolt head faces up. HAND tighten the nuts using new flange nuts.
- 4** Once nuts are on, tip assembled rack over and use a 9/16" socket to tighten nuts. Before fully 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 the Rails**

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

