

Bicycle Rack Locations & Installation Information

History:

In 2008 Viva Downtown designed bicycle racks for the downtown Redding area. Healthy Shasta partnered with them to fund rack manufacturing at Gerlinger (in downtown Redding) and to spread racks to a broader area. The cities of Redding, Anderson and Shasta Lake have installed the racks in their jurisdictions. The first round of bicycle racks was installed in spring 2009.

Bicycle Rack Guidelines

A great source of information about bicycle racks and where to locate them is the Bicycle Parking Guidelines from the Association of Bicycle and Pedestrian Professionals: <http://www.apbp.org/?page=Publications> (scroll down to Bicycle Parking Guidelines).

Installation

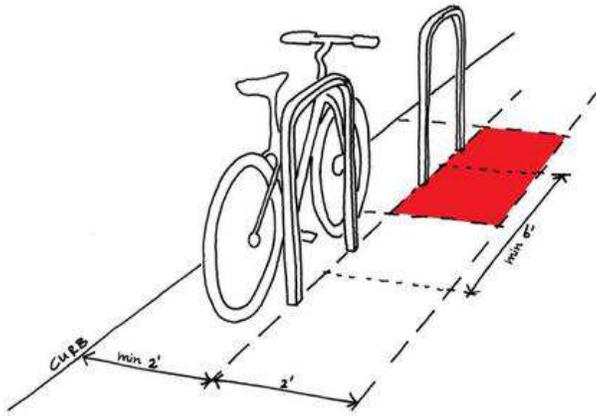
Selecting a location:

- Choose a location near a main entrance to the building. It should be visible to bicyclists approaching as well as easy to access by bike.
- Locations near busy doors and windows with seating inside increase security, as does good lighting.
- Locations protected from the weather (under an awning, for example) are ideal.
- Avoid interfering with the movement of pedestrians and do not block ADA access.

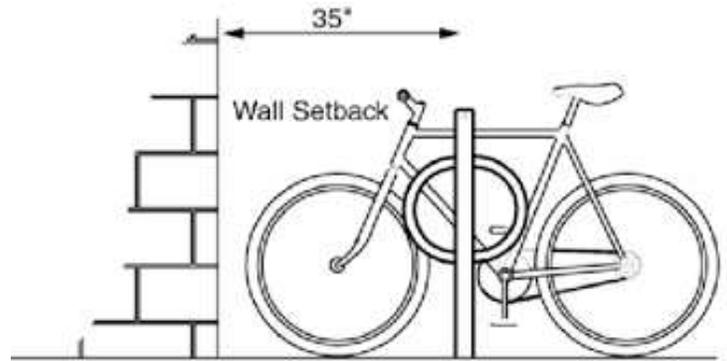
Placement:

- Install on concrete
- Near street: at least 18 inches back from curb face, with flat side parallel to curb; use a square to align with sidewalk; keep enough clearance for pedestrians
- Near building or structure: Place appropriate distance from walls or structures to ensure plenty of room for a bicycle on each side of the rack (most bicycles are about 24 inches wide and 70 inches long, 2 bikes on the rack are usually offset for a total length of about 83 inches); plus room for the rider to access the space from the side
 - The post should be at least 35 inches from the wall when the bike is running perpendicular to the wall (see sketch below)
 - The post should be at least 20 inches from the wall (ideally more) when the bike image is running parallel to the wall (bikes would then be parking parallel to the wall – one on each side of the post)
- Watch for interference with car doors, loading zones, fire hydrants and other hazards (rack will need room to hold 2 bikes, 1 per side running parallel to rack)
- Contact Healthy Shasta for assistance with rack locations to meet bicyclist needs and placement by calling 229-8243 or 245-6457

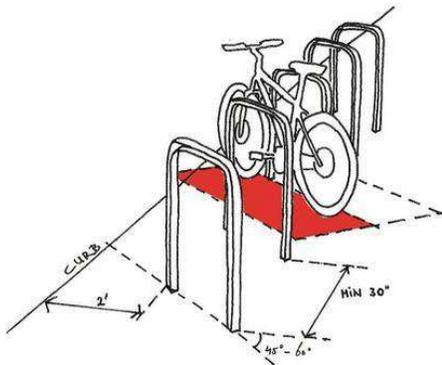
If parallel to wall or curb:



If perpendicular to wall:



If diagonal from wall or curb:



Approximate cost:

- Hardware to install one rack, including a concrete drill bit: about \$14.00
- Approximate installation time is less than 20 minutes

Supplies for 1 bike rack (Supplies available at Fastenal, 8905 Airport Road, Suit 1, in Redding; 226-9074; part # from Fastenal). Select non-rusting hardware. This is what City of Redding uses:

- 4 “Red Heads” (1/2 – 13 x 4 1/4 external/internal tooth lockwashers, such as part #52011)
- 4 Flange Nuts (1/2”), such as part #110167001
- Flat washers (used to level the rack if pavement uneven)
- 1/2” x 6 concrete drill bit (plus extra in case it breaks?)
 - Bosch drill that has settings for drilling and hammering works well with 1/2 x6 PP Drill Bit, #0234628

Installation on concrete (anti-theft strategy):

- Use washers under the rack's plate to level the rack if concrete is uneven
- Use bolt from Red Head with two nuts (that come with it) screwed onto the top end, slightly above grade (to protect the end of bolt).
 - Run it down through the hole in the plate and into the concrete as far as it will go
 - Take the two nuts off
- Run the Flange Nut as tight as it will go
- Mushroom the bolt top with a sledge hammer (may also need to cut off the top of the bolt if it is too far above the Flang Nut)