

# Urban HD Vertical Rack - Installation Guidelines

Model: UB-1900-Ground Mount

The Urban High Density Vertical Rack can be installed either directly to a suitable wall, or ground mounted using the optional ground mounting assembly. This guide refers to racks being ground mounted.

## Minimum Ground Requirements

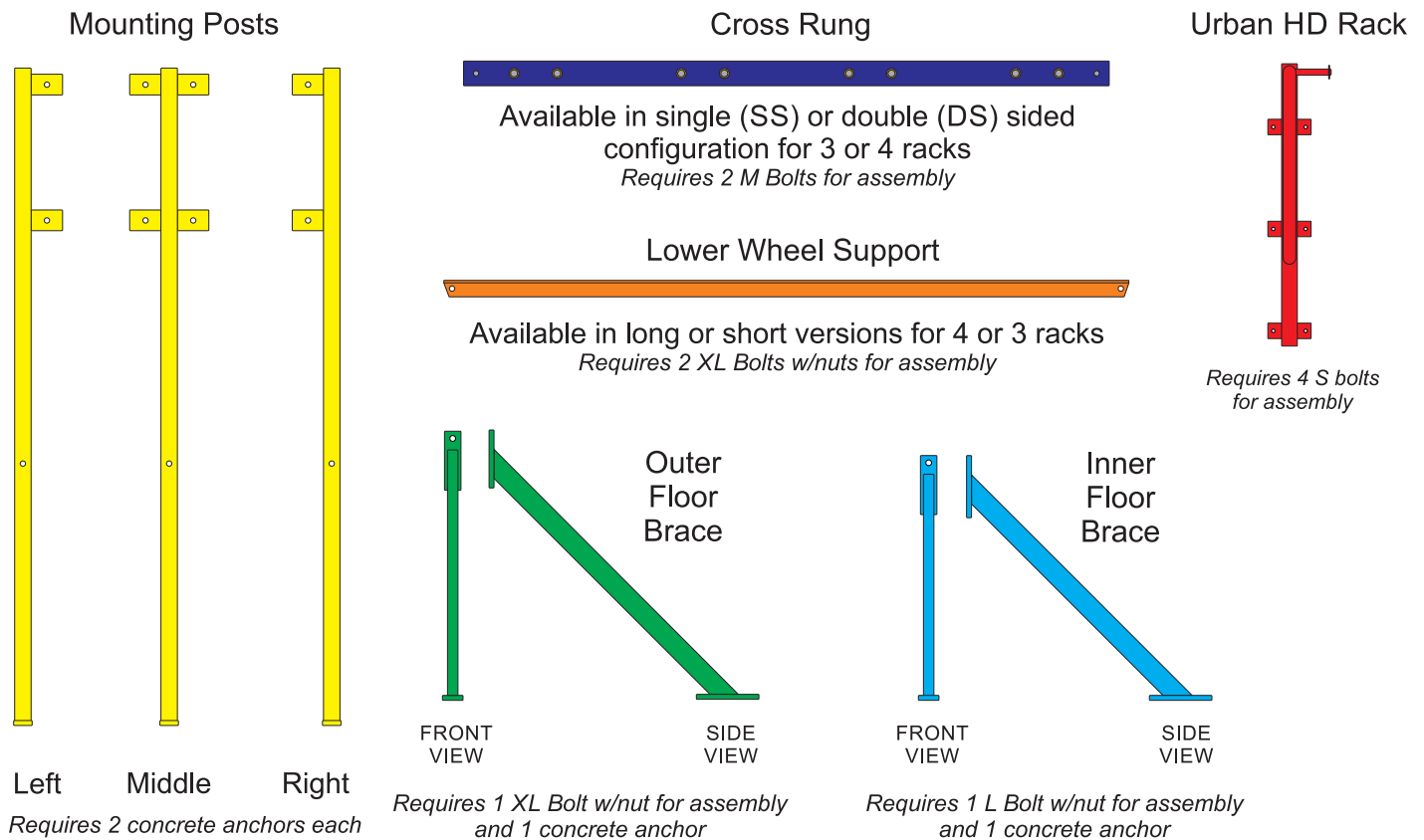
**Concrete:** common concrete floors are recommended for ground mounting.

**Asphalt:** asphalt is not an ideal mounting surface, however the use of an effective asphalt epoxy adhesive will help to insure a stable installation.

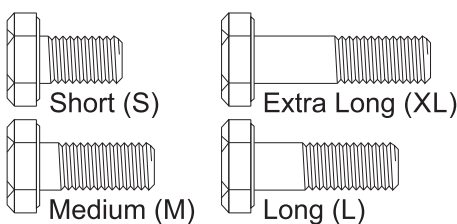
## Tools Required

- Tape Measure
- Level
- Chalk Line (optional)
- Ratchet with Extension or Drill/Driver
- 1/2" Masonry Drill Bit
- Hammer Drill
- Hammer
- Deep Socket with Extension

## Parts Identification



## Assembly Bolts



## Recommended Anchor Types



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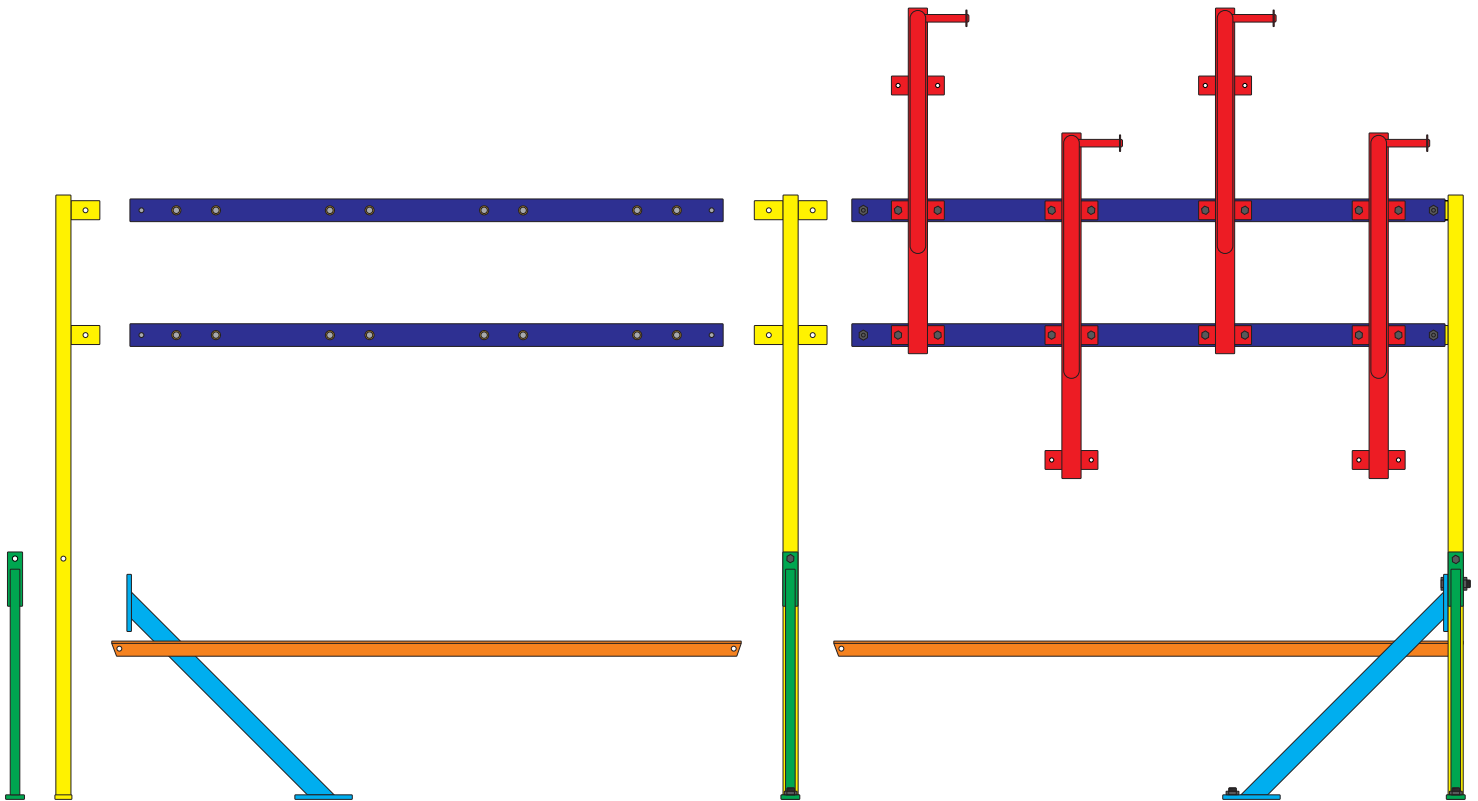
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## General Assembly Tips

The parts can be assembled using any number of methods, but following these assembly tips will help insure a trouble free installation.

- Layout the parts of the supporting structure on the ground prior to assembly
- Test fit the parts on the ground and install the appropriate bolts finger tight
- Do not install the Urban HD Vertical Rack onto the supporting structure until the structure is fully assembled and properly anchored
- Raise the assembled structure into it's approximate installation location
- Tighten the assembly bolts once the structure has been raised
- Position the structure into it's proper location
- Use the assembled structure as a drilling template
- Set concrete anchors to secure the structure to the mounting surface
- Install the Urban HD Vertical Racks onto the completed structure

## General Assembly Diagram



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## Special Considerations for Longer Installations

For installation of a single “section” of racks (3 or 4 racks wide) the general assembly tips will apply as complete instructions.

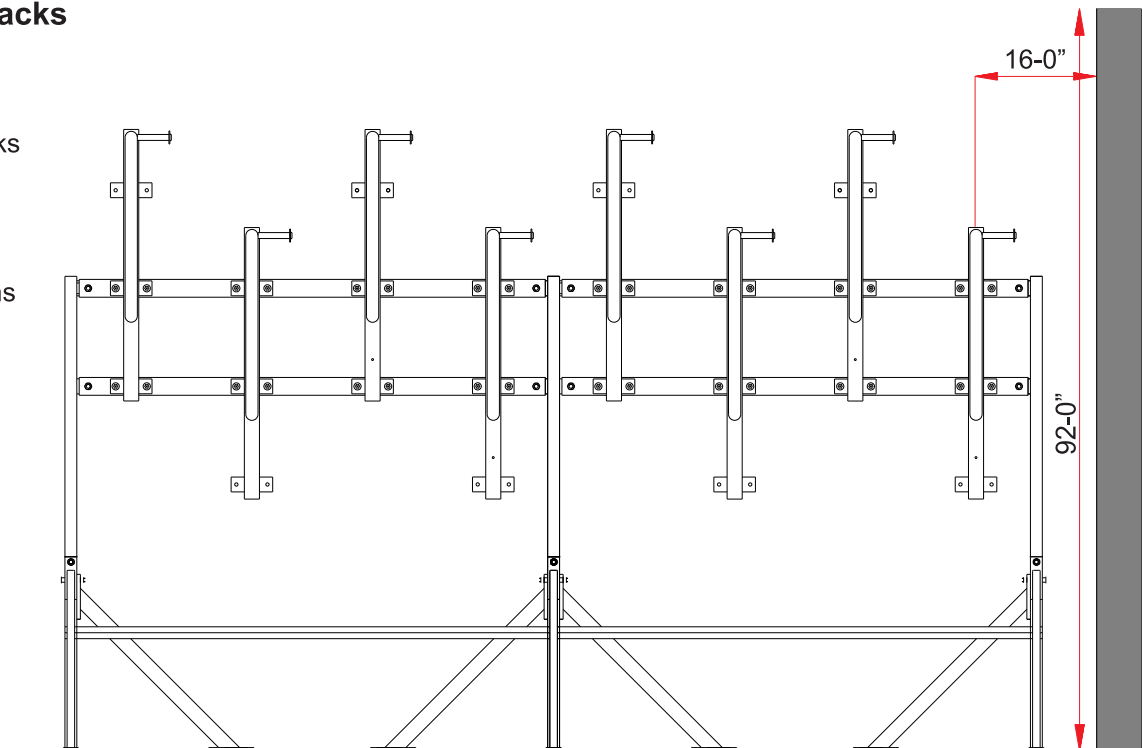
For larger installations, there are some additional considerations:

- Each section of racks can be bolted together by substituting an end (left or right) post with a middle post.
- Assemble only the first section on the floor, then raise and anchor it to be used as the starting point for any assembly that requires additional sections.
- Subsequent sections can be added to the first by bolting the cross rungs to the end post of the first section and adding the next post accordingly.
- It is not necessary to use inner floor braces on every post in a longer configuration, however there must be a minimum of two inner braces in total. An inner brace on every second post is recommended for stability.
- In a double sided configuration, it is necessary to use an outer floor brace on both sides of the posts.
- When installing the lower wheel supports on configurations of multiple sections, it is necessary to alternate the location of the wheel support to the front and rear of the posts to avoid overlapping.
- If the structure is being installed parallel to and against a wall, the lower wheel supports can be omitted.

## Clearances & Setbacks

Allow a minimum of 16” from the end racks to any adjacent walls or other structures.

Clearance to any overhead obstructions is a recommended minimum of 92”.



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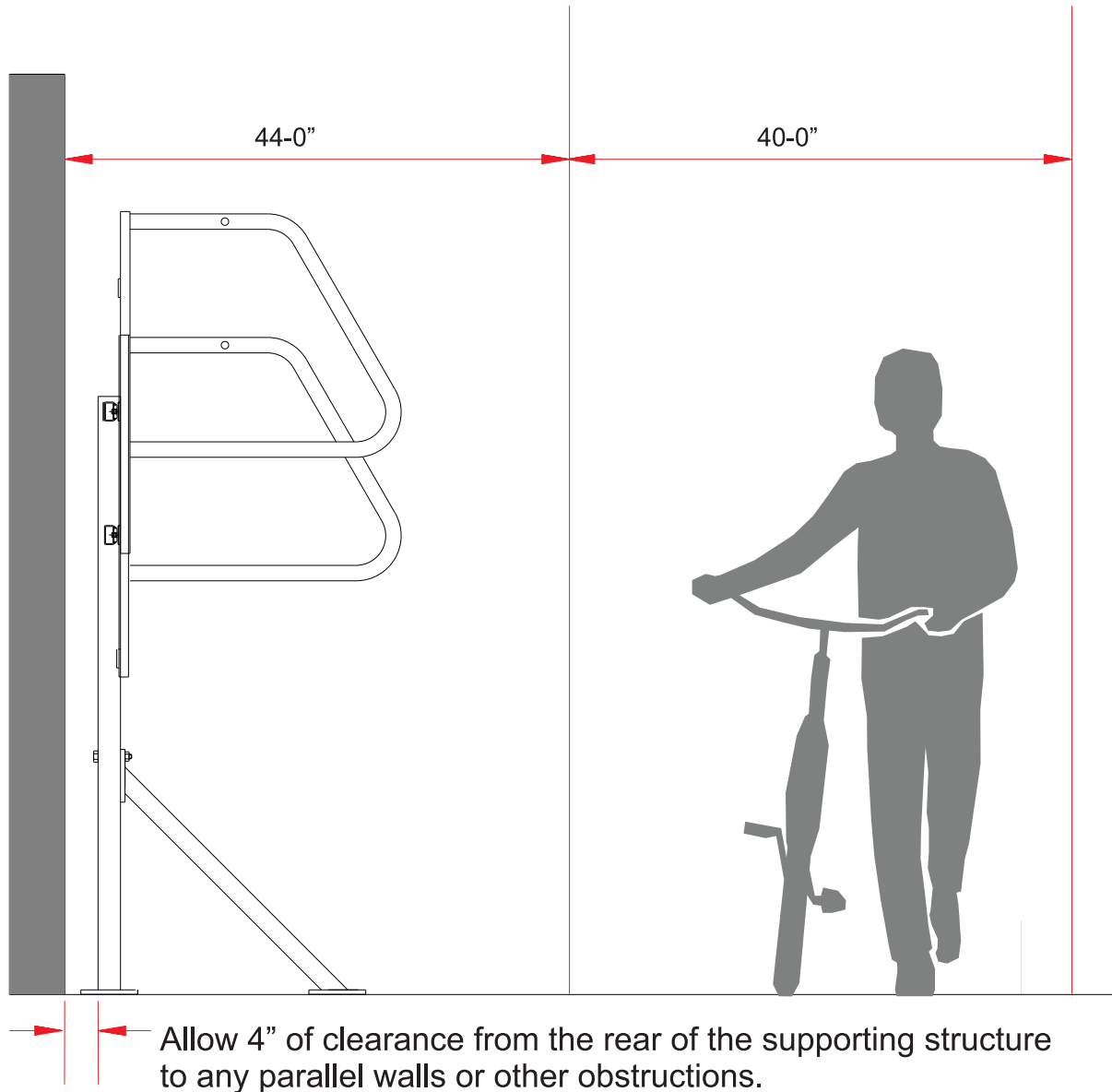
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## Clearances & Setbacks continued



If the ground mounted racks are installed parallel to a wall or other structure, allow roughly 84 inches from the wall to the opposite wall (or other obstructions).

An average bike, when hanging on the rack will extend about 44 inches from wall.

An additional 40 inches will allow cyclists enough room to move comfortably past parked bikes.

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