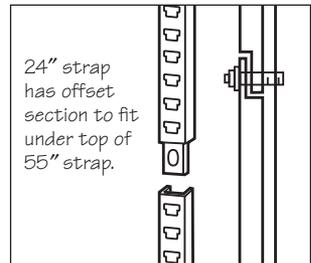


These installation instructions cover mounting on both stud walls and concrete walls. Wherever the rack is mounted, it is advisable to have the strap extend all the way to the floor or put a 1"×2" hardwood spacer vertically between the floor and the bottom of each wall strap. These spacers will support most of the vertical load, and the screws/bolts holding the wall straps will only need to resist the cantilever loading of the lumber.

The 24" wall strap has bolt mounting holes at each end. The 55" wall strap uses the shelf support holes as the screw mounting holes.

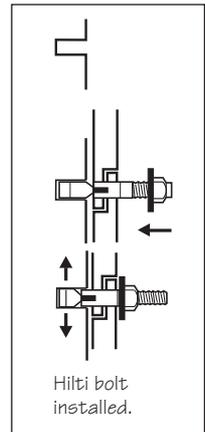
If the 55" and 24" wall straps are to be installed in line to form a 79" wall strap, the offset tail on one end of the 24" strap should be let in to the top of the 55" strap.



## Concrete Walls

The recommended fasteners for installing the wall straps to concrete walls are Hilti Kwik Bolts.

1. Hold the wall strap in its desired location and mark off the bolt locations, ensuring that there is no span greater than 24" without a Hilti bolt.
2. Using a 1/2" diameter carbide masonry bit, drill holes 2" deep.
3. Unscrew the nut on the Hilti bolt until it is flush with the top thread so that only the tip of the stud (the hammering surface) is protruding.
4. With the wall strap in position, drive the Hilti bolt in.
5. Tighten the nut two to four turns to set the wedges.



## Stud Walls

The cantilever action on wall studs resulting from a heavily loaded set of racks can be extremely high. Accordingly, wall studs should be secured with additional screws and blocks where they meet headers and the bottom plate.

The recommended fastener for installing the wall straps to a stud wall is a 3/8" diameter × 3 1/2" long lag bolt with a flat washer.

1. Hold the wall strap in its desired location and mark off bolt locations, ensuring that there is no span greater than 24" without a bolt.
2. Using a 1/4" diameter drill bit, drill holes 2 1/2" deep.
3. Fasten wall straps to the wall with lag screws and flat washers.



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