

INSTRUCTION MANUAL

for Installing

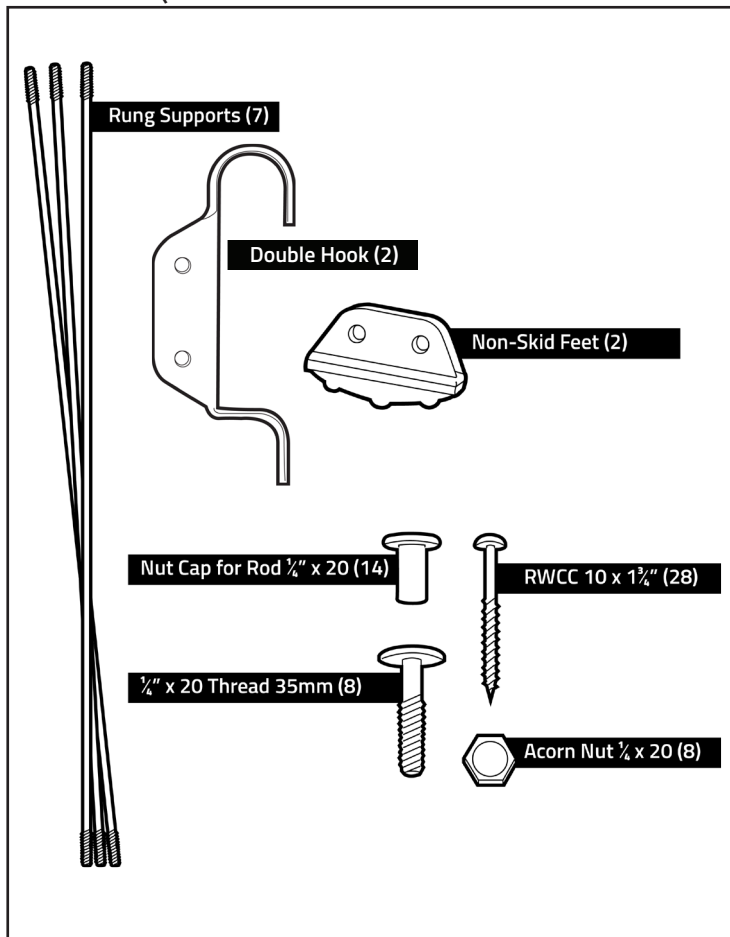
DOUBLE-HOOK HARDWARE

QG.130 Series

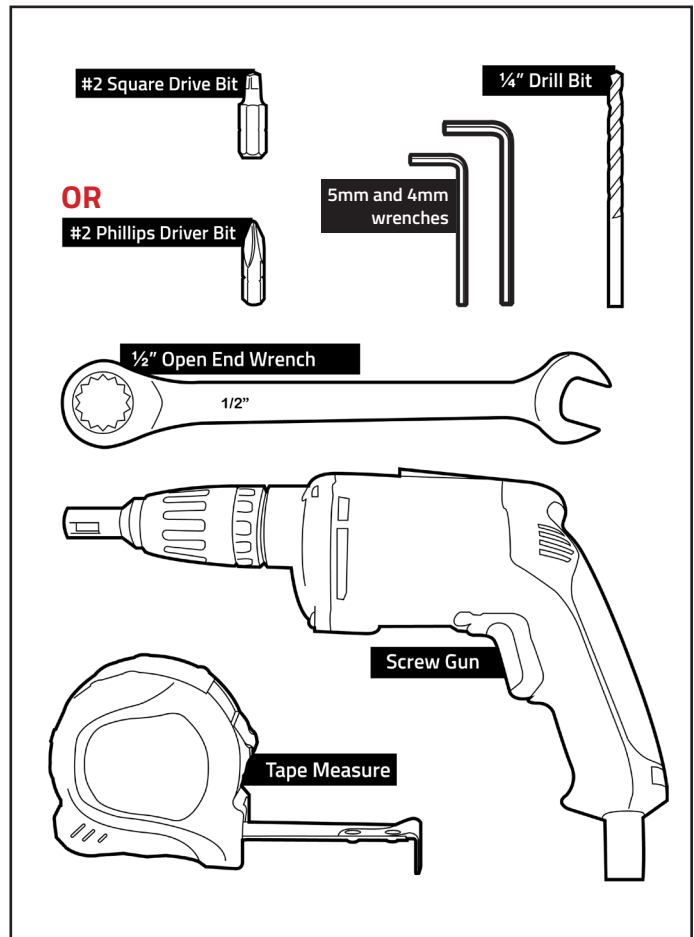


Instruction Manual for Installing Double-Hook Hardware

Shown: QG.130.08



Installation Tools Needed:



Step 1: Rail Installation

Special application notes:

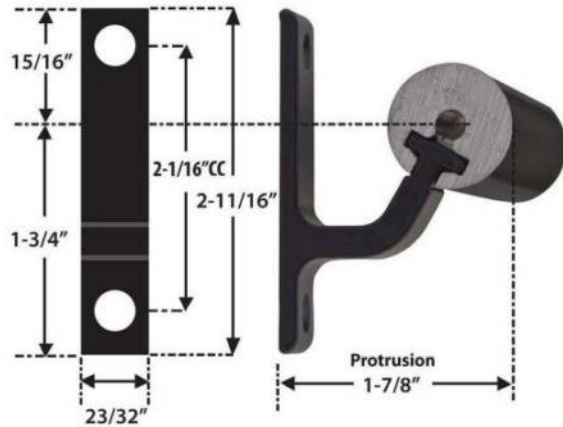
- Leave at least 7" of clearance between the center of the rail and the ceiling, crown moulding or other overhanging protrusions when the ladder is in the stored position (close to the wall/cabinet/bookshelf).
- In the climbing position, leave at least 3" of clearance between the center of the rail and any upper cabinet doors. This will enable the doors to be opened when the ladder is in front of the doors.
- Do not mount rail brackets directly onto a drywall surface. Always mount these brackets to solid wood, and remember to predrill the holes to avoid splitting the wood.

1. Determine the installation height of the center rail, then mark the location on the wood surface where the bottom of the mounting bracket will be located.

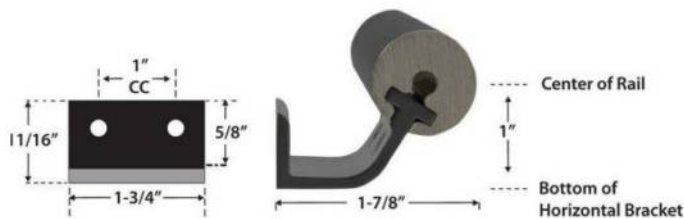
(The distance between the center of the rail and the bottom of the bracket is different for different brackets. See the bracket dimensional specs on the following page for proper measurements).

Using a quality leveling device, verify that the horizontal locations of the brackets are level and true, and draw a line on the wood where the brackets will be located.

Vertical Hook



Horizontal Hook



2. To splice rails together using the Quiet Glide splice kit (QG.41), complete the following steps.

- Insert half the length of the roll pin into one of the rails (Figure 1a).
- Slide the steel bar halfway into the rail and tighten one of the set screws to lock the bar and roll pin into the rail (Figure 1b).

Figure 1a



Figure 1b



- Line up the roll pin hole and slot for the steel bar on the other rail and slide the rail over the pin and bar till a tight connection is made between rails (Figures 2a & b).
- Complete the splice by tightening the remaining set screw.

Figure 2a



Figure 2b



3. Slide all the brackets onto the rail (recommended spacing of the brackets is approximately 32" apart).
4. Using the level horizontal line you drew in step 1 as a guide, secure each bracket to the wood surface with the included screws.
5. Install the end caps to the rail.
 - Using a $\frac{1}{4}$ "-20 tapping tool, tap the ends of the rail (see Figure 3b).
 - Secure the end cap to the rail using the supplied $\frac{1}{4}$ "-20 KD bolt and a 4mm Allen wrench (see Figure 3c).

Figure 3a



Figure 3b



Figure 3c



Figure 3d



Step 2: Ladder Assembly

Special application notes:

To determine the length of the ladder for your specific application, measure from the center of the installed rail to the floor, then add 5" to the measurement.

We recommend sanding the ladder rail sides and steps slightly with 220 grit sandpaper just before applying the finish (stain, paint, clear coat sealer).

It is also much easier to apply the finish to the ladder prior to assembly. Take care to protect both the inside of the dados of the side rails and the ends of the steps from the applied finish (painter's tape works well for this). Failure to do so will prevent the glue from forming a strong bond between the steps and the side rails.

Figure 4



1. Stand one of the ladder side rails on its edge on a flat surface, dados facing away from you (Figure 4).

2. Insert one of the steps into the dado, aligning the compound miter of the step flush with the dadoed surface of the side rail. If not flush, flip and/or rotate the step until it lines up properly with the side rail (Figure 5a and b).

Figure 5a



Figure 5b



3. Once proper alignment of the step is established, apply a thin film of quality woodworker's glue to the end of the step and also in the dado (Figure 6a).

4. Using the supplied 1 $\frac{3}{4}$ " washer-head screws, secure the step to the side rail through the predrilled holes on the side rails. Assemble the remaining steps in the same manner (Figure 6b).

Figure 6a



Figure 6b



(DON'T FORGET TO GLUE IN THE TOP TURNED RUNG WHEN SUPPLIED WITH THE LADDER KIT)

5. Once all the steps are assembled onto one of the side rails, position the side rail on its side with the steps pointing up (*Figure 7a*).

6. Apply a thin film of glue on the ends of each step and in the dado of the other rail, along with the holes in the sides of the rail (for the top turned rung) and the ends of the top turned rung (*Figure 7b*).

Figure 7a



Figure 7b



7. Properly align each step as well as the top turned rung into its corresponding dado/hole. Use the supplied 1 $\frac{3}{4}$ " washer-head screws to fasten the steps into place (*Figure 8a and b*).

Figure 8a



Figure 8b



8. To install the step support rods, push a nut cap (used with the step support rods) in the predrilled hole on the side rail. Slide the step support rod through the hole on the opposite side rail and partially thread it into the nut cap. Install the other nut cap and using two 5mm Allen wrenches tighten each side simultaneously so that there is equal amounts of thread on each end of the rod into each nut cap (*Figure 9*).

Figure 9



Step 3: Installing the Bottom Foot on the Ladder

1. From the back edge of the ladder side rails, draw a line on the bottom of the rail $\frac{1}{4}$ " in from the edge (see figure 10a).
2. Align the back edge of bottom foot hardware to the scribed line, pushing the bottom foot hardware tight and flush to the bottom surface of the ladder (see figure 10b).

Figure 10a



Figure 10b



3. Fasten the bottom foot onto the rail with the $\frac{1}{4}$ " x 20 KD bolts and acorn nuts following the procedure detailed below.

Figure 11



Using the holes in the top roller guide as a drill guide, drill a hole halfway through the thickness of the ladder slide rail using a $\frac{1}{4}$ " drill bit (see figure 11).

Figure 12



Drill the same hole on the opposite side of the top roller guide, producing a $\frac{1}{4}$ " through hole in the ladder side rail (see figure 12).

Follow this same procedure for all four through holes and complete the assembly by securing the Bottom Foot with the supplied $\frac{1}{4}$ " x 20 KD bolts and acorn nuts.

Top Ladder Hardware (Double-Hook, non-adjustable upper guide)

Figure 13

1. After the non-skid feet are installed, take the ladder and stand it up parallel to the wall in its stored position, leaning on the mounting rail (*Figure 13*).



2. Take one of the double hook upper guides and loosely attach it to the angled portion of the ladder side rail above the mounting rail, hooks pointing down.
3. Pull the ladder slightly away from the mounting rail and slide the Double-Hook upper guide down so that the lower hook engages firmly onto the mounting rail. This will be the location of this upper guide on the ladder (*Figure 14a*).
4. Outline the location of this upper guide on the ladder side rail (*Figure 14b*).

Figure 14a



Figure 14b



5. Remove the upper guide from the ladder, lay the ladder down, and measure from the tip of the ladder to the outlined mark where the top of the upper guide is located. Transfer this same measurement onto the other ladder side rail (the location of the upper guide on each of the ladder side rails need to be the same for the ladder to function properly).
6. Using a $\frac{1}{4}$ " drill bit, drill the holes for the $\frac{1}{4}$ -20 KD bolt fasteners that will fasten the double hook upper guide to the top of the ladder. Follow the same procedure used in Step 3, Bottom Foot installation (*Figure 15*).

Figure 15



7. Install the ladder on the mounting rail using the bottom hook of the upper guide. The ladder should now stand upright parallel to the wall. This is the stored position (*Figure 16a*).
8. Remove the ladder from the rail and reinstall it on the upper hook. The ladder should now be in the climbing position, approximately at a 12-degree angle, and the steps parallel to the floor (*Figure 16b*).

Figure 16a



Figure 16b



QuietGlide Ladder Dimensional Specification

Rolling Ladder Application

Notes:

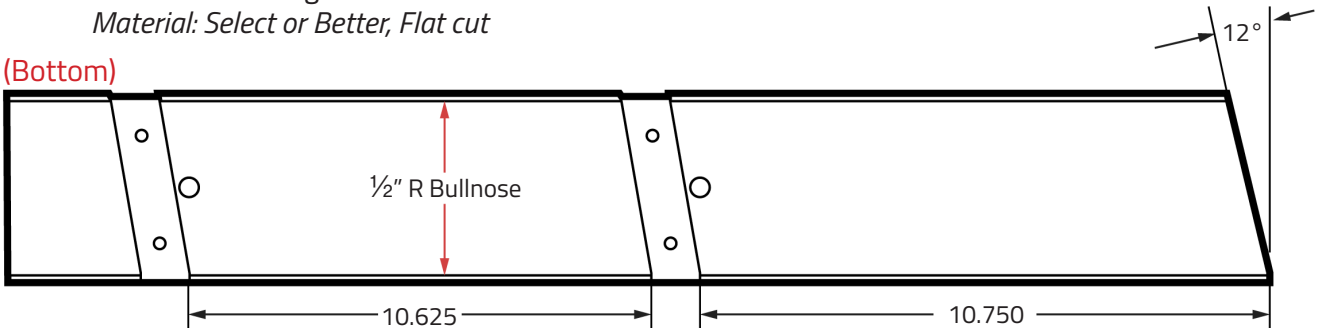
8' : 96 7/16" OA length

9' : 107" OA length

10' : 119" OA length

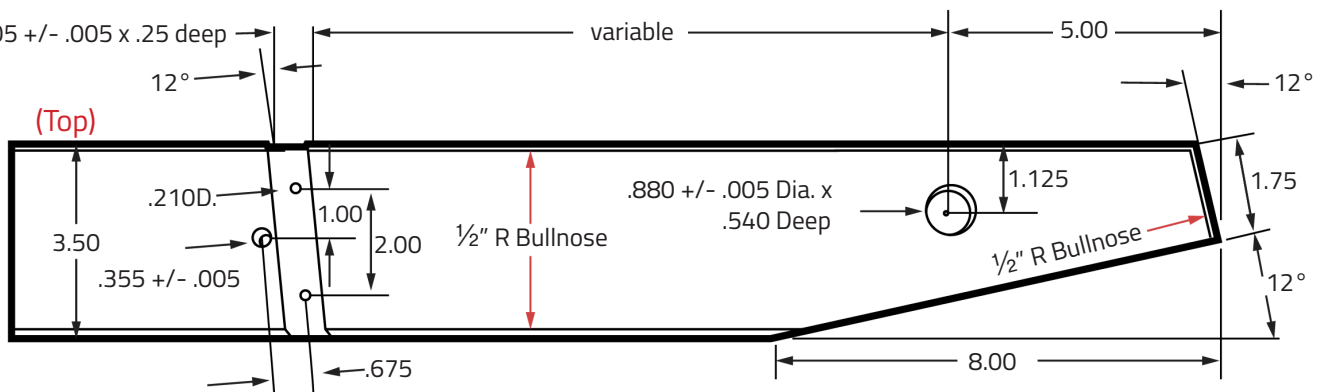
Material: Select or Better, Flat cut

(Bottom)

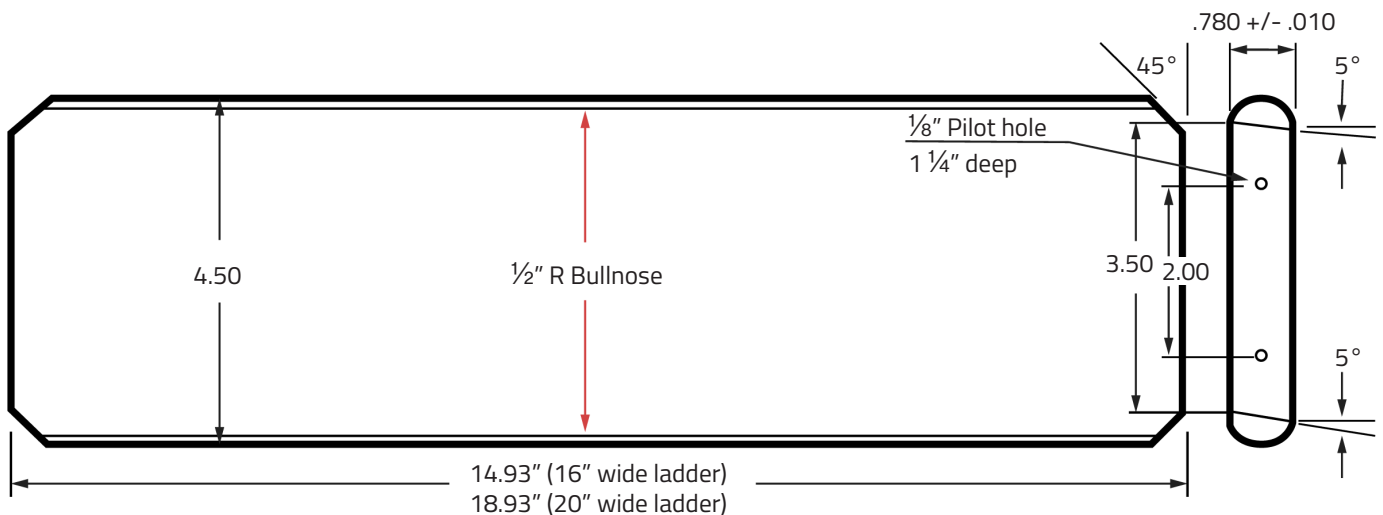
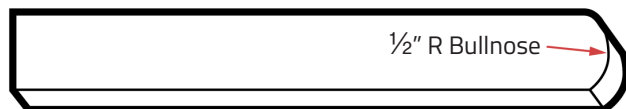


Dado .805 +/- .005 x .25 deep

(Top)



Side Rail Material thickness .805 +/- .010



Rev. 05.27.2020

Application Photos of Rolling Ladders



