

Installation Instructions for Rolling Shutters

Hardware

We suggest, if you have a masonry house, Tapcon fasteners be used. The #14, x 2.75" will do the job.
Tip: A good hammer drill will be indispensable.

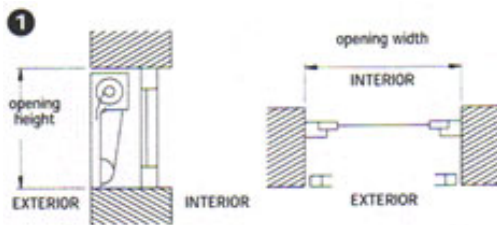
If you have frame construction, we suggest you use #14, 2-1/2" stainless screws for mounting the shutter. The hood and end caps are assembled using #64 aluminum pop rivets.
Tip: A 12-14 volt battery drill will be indispensable.

Pre-Installation

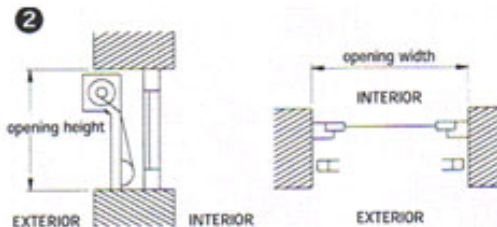
The installation of your roll shutter is critical to overall operation and your satisfaction. We ordinarily would tackle the hardest part of the project first; but since this is your first shutter installation, let's choose the easy one to learn.

Open the package for the shutter you want to install and review the contents. One pack will have the hood, end caps and roll tube. The next pack will contain the slats all rolled up. The third pack will have the side tracks and other miscellaneous items attached to it.

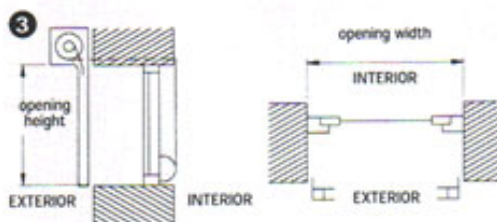
Assemble the hood and drive tube following the instructions provided.



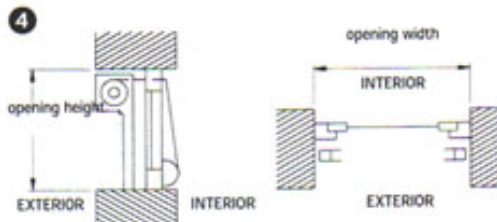
Typical recessed mount with hood inwards.



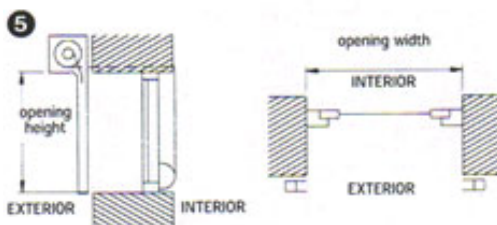
Typical recessed mount with hood facing outwards (most popular)



Typical surface mount hood with recessed mount side tracks.



Similar to #2 except hood fully recessed in opening and operator inside of building.



Typical surface mount installation with operator inside building. (most popular after market installation)

Rolling Shutters Installation Steps

1. **Attach hood assembly to wall.** We suggest you attach the hood assembly to the wall centered on the opening with 3" of the wall showing under the hood. The fasteners should be in the uppermost corner of the shutter when installed. If the hood is over 48" wide, use 2 attach points to avoid stressing the hood. (Make sure the hood is level.)
2. **Side Tracks.** Find the 2 side tracks and slide one onto the legs of each end cap. You can do this prior to attaching the hood or you can maneuver the assembled hood and side tracks together. Then plumb the side track up and attach them to the wall. This step is the critical part. The side tracks must be perfectly vertical (plumb), and the hood assembly must be level (parallel to the ground) or the shutter may not work properly. You would then add additional fasteners as desired to the hood and or end caps. Remember hurricane winds can suck the shutter off the house as easily as push it inward.
3. **The Operator** If you are using a motorized shutter, simply drill a hole in the side cap where the cord should exit to the electrical connection. If this needs to exit the rear of the box, a long 1/2" drill 16" long will be a big help. If the walls are very thick and the drill is not long enough, we use a 24" 1/4" drill to complete a hole for the wire. Then we use the 1/2" drill from inside using the 1/4" hole as a guide.

Assuming an outside mount gear, you can complete this at the end of the installation. If the shutters are to be operated from inside using a gear and universal, we suggest the following: Make sure the gear is oriented so the universal arm will be square to the wall. Then, using the 1/4" drill, simply slide the drill bit through the opening in the gear; and drill a hole through the wall. Using the hole inside the house as a guide, use the 1/2" drill to enlarge the 1/4" hole through the wall.

Next, install the universal shaft through the wall into the gear. The gear has a square opening that the universal shaft will slide into. If the shaft is too long, cut it to the appropriate length.

Make sure that the slats have a place to rest when the shutter is rolled down. Example: The shutter might rest on the floor if it is covering a door, or an angle may be needed if it is covering a window.

If you are using a manual shutter, the manual shutters are as follows:

- A. Gear Only
- B. Gear With Spring Assist

(A) Gear Only Operation: make sure that the gear is bottomed down. (A1) Then, attach the hangers to the top slats, as it can only be done one way. The hangers must go behind the roll tube. Feed the roll at the back of the tube until the slats stop. After the slats are centered, attach the hangers to the tube with pop rivets. Be sure the hangers are equally spaced.

(B) Gear with Spring Assist Operation: you must (B1) load the spring. Before attaching the slats turn the reel clockwise 6 complete turns, then go to step (A1).

Operate the shutter up or down a few times to ensure a smooth operation. Install the hood cover and check that the universal is securely installed. (On the end cap, if outside, or on the wall, if inside.)

Connect the bumper stops at the bottom slat (the one with the rubber strip).

Caulk. Be sure to caulk the side tracks and across the hood and end caps.

**These are manufacturer suggestions on installation. However, it is the sole responsibility of the person/company installing the shutters to do due diligence by making sure the product is installed as per the product approval/engineering to the field conditions in which it is applied.*