

HORIZONTAL STORM U-BAR

Installation Instructions

Shutters Less Than 46" in Height
Require:

- 1 pc. Storm U-Bar
- 2 pc. 1/4-20 x 1-1/2 Carriage Bolt
- 2 pc. 1/4" Bolt Retainer
- 2 pc. 1/4" Flanged Wing Nut

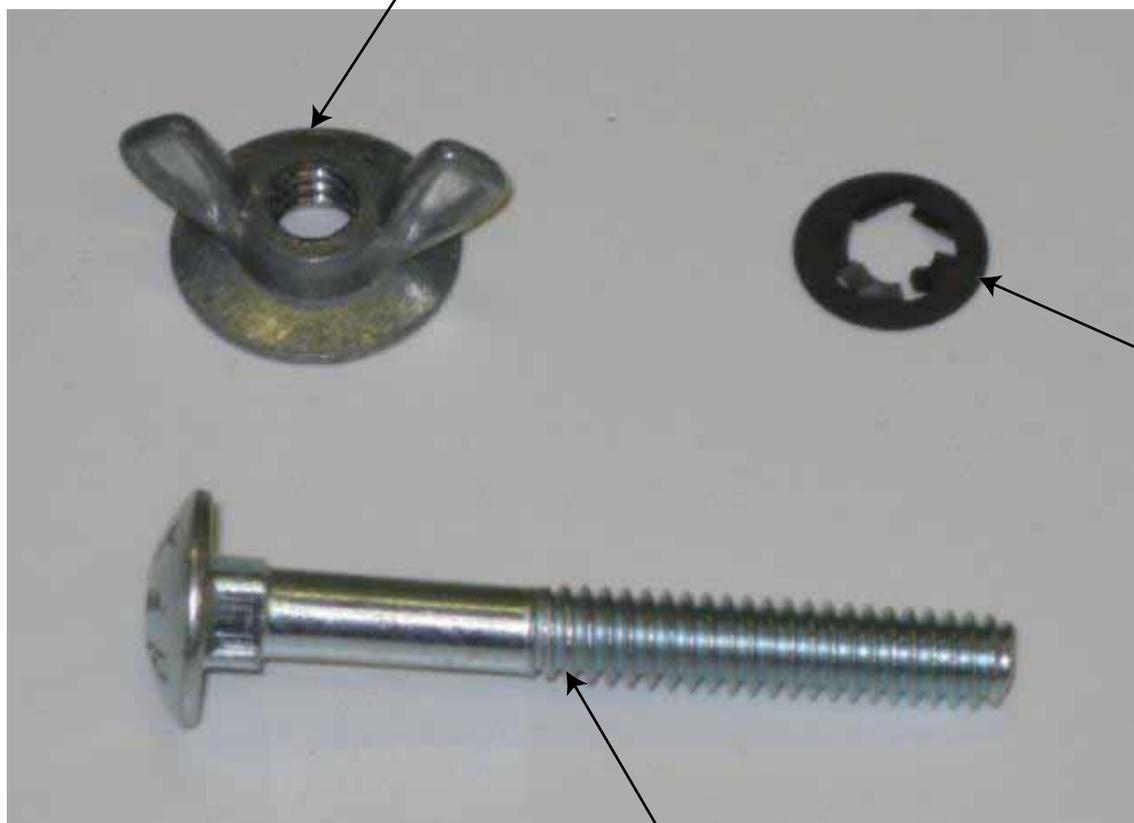
Shutters 46"-102" in Height
Require:

- 2 pc. Storm U-Bar
- 4 pc. 1/4-20 x 1-1/2 Carriage Bolt
- 4 pc. 1/4" Bolt Retainer
- 4 pc. 1/4" Flanged Wing Nut



Storm U-Bar

1/4-20 Flanged Wing Nut



1/4" Bolt Retainer

1/4-20 x 1-1/2" Carriage Bolt

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Note: Instructions illustrate installation of the Storm Bar for use from the interior of the structure.

- 1 Close shutters over the window.



Shutter Height	Number of Storm Bars
Less Than 46"	1
46" to 102"	2

- 2 Reference the chart for the number of Storm Bars required for the shutter size.

For one Storm Bar, see Step 3a.
For two Storm Bars, see Step 3b.

- 3a Mark the holes for mounting the Storm Bar. One hole is drilled in each shutter, near the center of the assembly.

Vertical location:

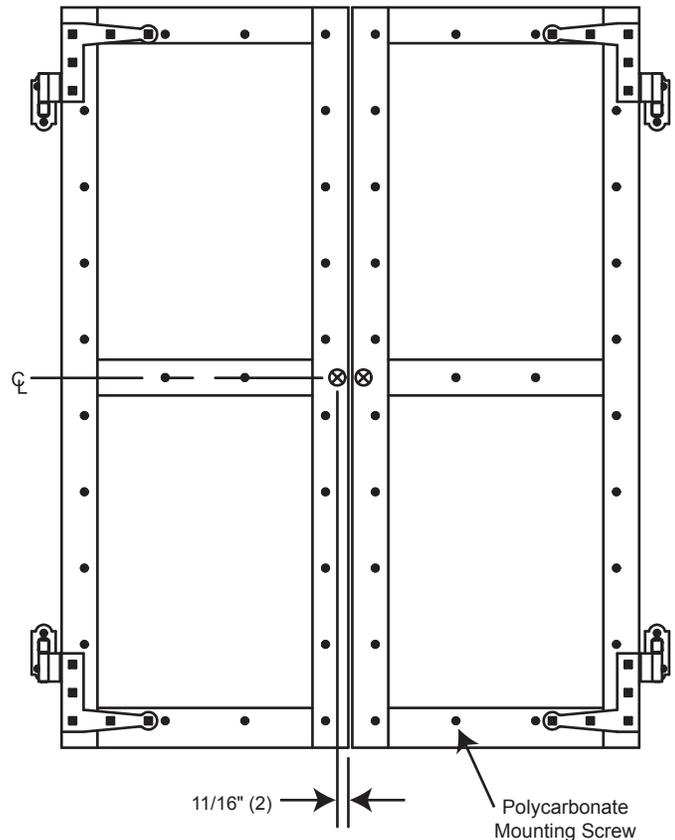
- Measure and find the center of the shutter.

Horizontal location:

- Measure 11/16" from the inside edge of both shutters at the previous height location and mark (two holes total).

*Hole locations marked on diagram with ⊗.

Proceed to Step 4.



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3b Mark the holes for mounting the Storm Bars. Holes are located in two sets of two, horizontally across the shutter assembly.

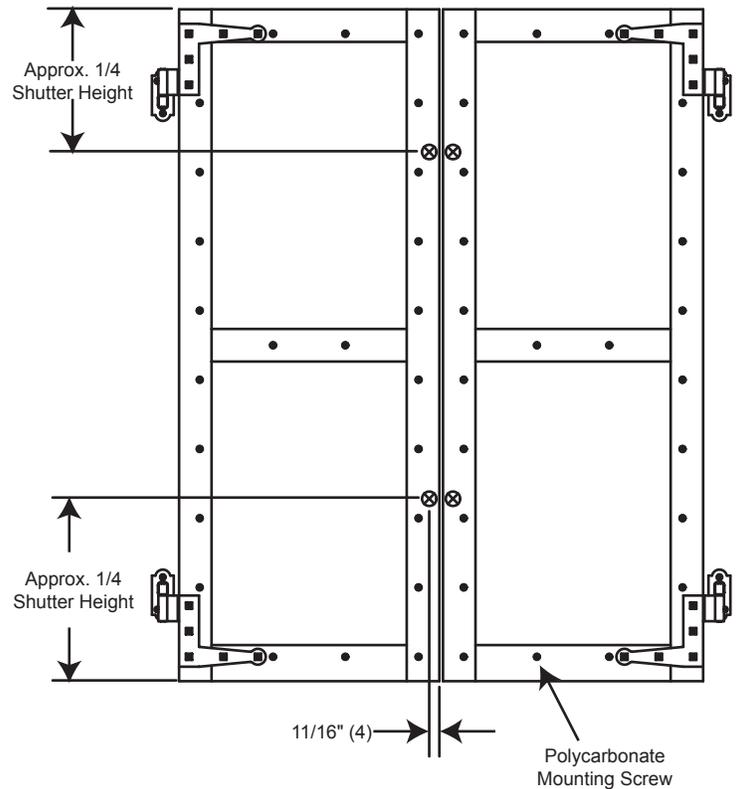
Vertical location:

- Measure approximately 1/4 the height of the shutters from the top and mark. Measure approximately 1/4 the height of the shutters from the bottom and mark.

Horizontal location:

- Measure 11/16" from the inside edge of both shutters at the previous height locations and mark (four holes total).

*Hole locations marked on diagram with ⊗.



4 For one Storm Bar, drill two 1/4" diameter holes completely through the shutters at marked locations.

OR

For two Storm Bars, drill four 1/4" diameter holes completely through the shutters at marked locations.

*Note: Use caution when drilling through the shutters to avoid chipping off any paint on the face of the shutters.

5a Insert 1/4-20 x 1-1/2 Carriage Bolts through holes in the shutters. The bolts should be inserted from the side with polycarbonate attached, so the stud end sticks out of the side opposite the polycarbonate (inside the house).



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- 5b Give each bolt head a firm tap with a hammer to seat the bolt into the shutter.



1/4" Bolt Retainer

- 6 Place one 1/4" Bolt Retainer over the end of each bolt (teeth facing out) and press into place, using a 7/16" socket (or similar tool), snugly against the shutter. Hold the bolt head in place while attaching the Bolt Retainer to ensure that it is fully seated (maximum number of threads exposed).

*Note: Bolts remain in the shutters during Storm Bar use and also while bars are in storage.

- 7 Place one Storm Bar on the shutter assembly by aligning the slots in the bar with one set of the two bolt studs sticking out of the shutter assembly.



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- 8 Attach one 1/4-20 Flanged Wing Nut to each stud and tighten.



- 9 Repeat steps seven and eight for the other Storm Bar. (Skip this step if only mounting one Storm Bar.) When completed, the assembly should resemble the picture.



- 10 *Optional: Use shutter touch-up paint (supplied with shutters) to paint the heads of the 1/4-20 x 1-1/2 Carriage Bolts.

Carriage Bolt Head

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- ⑪ Final Storm Bar assembly should resemble the picture.

Two Storm Bars



One Storm Bar



Storm Bar Removal and Storage

- ① Remove the Wing Nuts and Storm Bar(s).
- ② Attach the Wing Nuts to the studs and tighten.
- ③ Store Storm Bar(s).

1/4-20 Wing Nut

