

"Miami-Dade County Product Control Approved"
Hurricane Shutters and FBC Decorative Shutters
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Patent No: U.S. 6,996,934 B2 & 7,131,480 B2
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Hurricane Shutter Systems - Bahama NOA: 09-0122.07 and Colonial NOA: 09-0122.08, Expiration Date: 11/28/2012
Decorative Shutter Systems - Tested and Certified - Florida Building Code TAS 203-94 and ASTM E1233-06

Installation Instructions: 4-Triple Hinged Bahama Shutter Larger than Opening, Brackets @ Face of Building

Tools required:

Cordless or elec. hammer drill w/ 5/16" nut driver or Phillips head screw driver, check fasteners provided
Tape measure, level, center punch, hammer, pencil and/or masking tape (to eliminate painting the pencil marks), and pilot drill bit depends on the type of fasteners provided

Items Included:

All Fasteners - Tap cons w/ drill bit, Lag bolts w/o drill bit, 1/4 x20 Tap w/ 13/64 or #7 drill bit

Installation Guide:

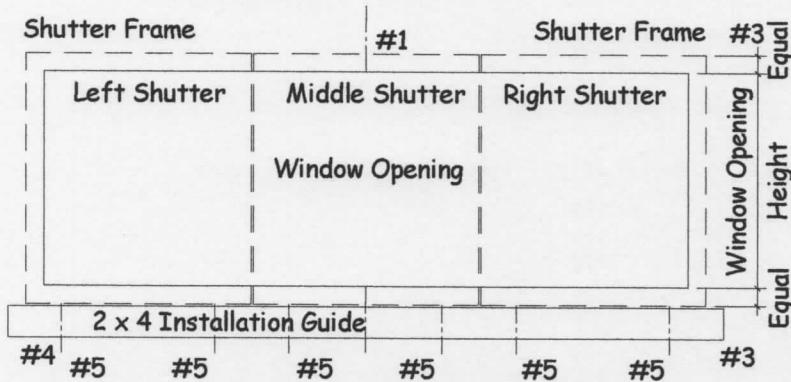
- #1 Divide the window opening width by 2, make a vertical line at the center point, head (top) and sill (bottom) of the opening, figure 1
- #2 Divide the shutter width by 2, measure to the right and left of the centerlines, and make a line, figure 1
- #3 Subtract the window height from the shutter height, divide that number by 2 for equal reveal at the head (top) and sill (bottom), figure 1
- #4 Add a 1/4" to the measurement in Step 3, make a horizontal (level) line at the sill (bottom), figure 1
- #5 Refer to the shop drawings for the hold open/close bracket locations, mount the brackets even with the line in Step 4, figure 2
- #6 Place a 1/4" shim on the hold open/close brackets (middle shutter), place the middle shutter on the shims, line the shutter with the lines (right and left) in Step 3, figure 2
- #7 Drill and screw the left middle hinge to the structure, figure 2
- #8 Drill the screw the right middle hinge to the structure, figure 2
- #9 Make a line 1/4" to the right and left of the middle shutter at the head (top) and sill (bottom), figure 1 and 2
- #10 Repeat Steps 6, 7, & 8 for the right shutter and left shutter, figure 2
- #11 Check the alignment of both shutters
- #12 Drill & screw the rest of the hinges to the building, figure 2
- #13 Close the shutter frame and mark the center of the hole in the hold open/close bracket mounted on the building, center punch the center, drill a hole at each bracket center point, use the 13/64 or #7 drill bit, thread the holes with the 1/4 x 20 tap, figure 3
- #14 Open the shutter and insert the 3/8" aluminum rod into the hole in the hold open/close bracket and into the hole in the shutter frame (two per shutter), figure 3
- #15 When the shutter is in the open position, screw the 1/4" thumbscrews back into the hole in the shutter frame (for storage), figure 3
- #16 Install the plastic bumpers to the shutter frame at the desired locations

Installing the Shutter with a 2 x 4 guide fastened to the wall at the bottom (sill), figure 1

Follow steps 1, 2, 3, & 4 above, mount a 2 x 4 at the sill where you want the bottom of the shutter (length of the 2 x 4, 4" longer than the shutter), place the shutter on the 2 x 4, fasten the shutter to wall, remove the 2 x 4, patch holes, and paint if necessary

1-Triple Hinged Bahama, Larger than Opening Marking the Shutter Location

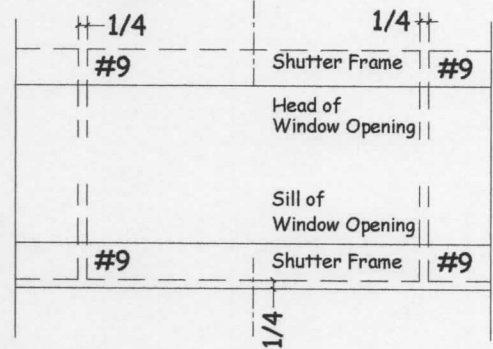
Step #1: Divide the window opening width by 2, make a vertical line at the center point, head (top) and sill (bottom) of the opening



Step #4: Add a 1/4" to the measurement in Step 3, make a horizontal (level) line at the sill (bottom)

Step #2:

Divide the shutter width by 2 measure to the right and left of the centerlines and make a line

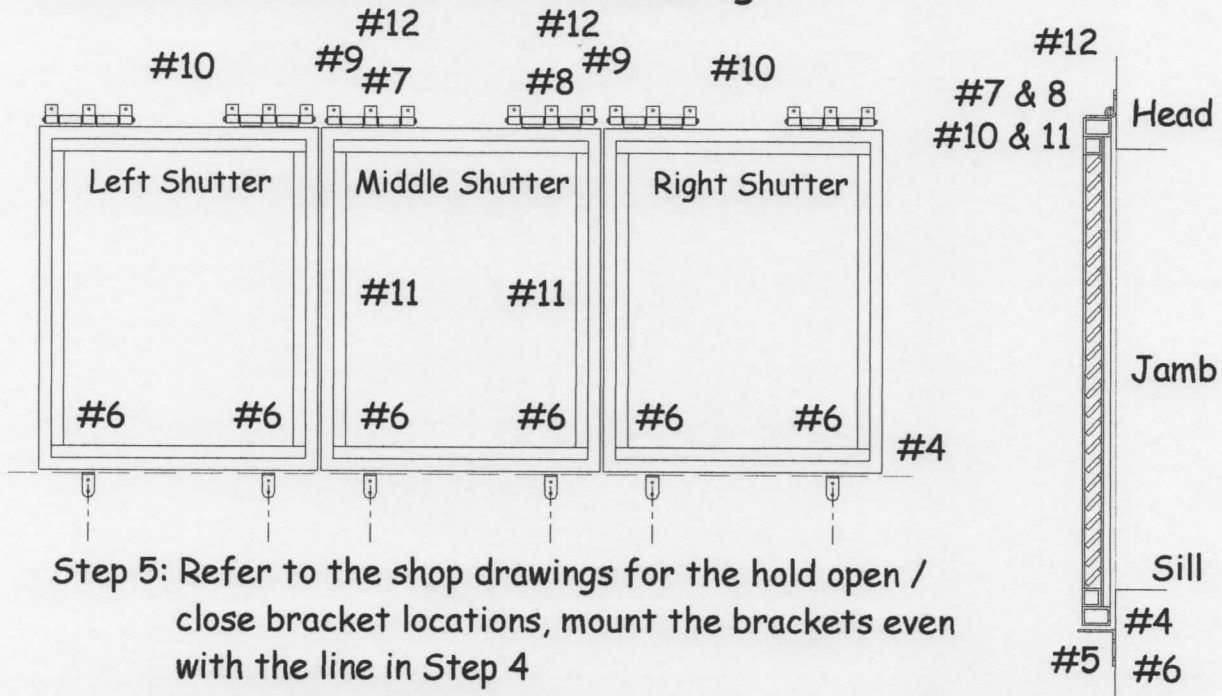


Step #3:

Subtract the window height from the shutter height, divide that number by 2 for equal reveals at the head (top) and sill (bottom)

2-Triple Hinged Bahama, Larger than Opening, Brackets @ Face of Building

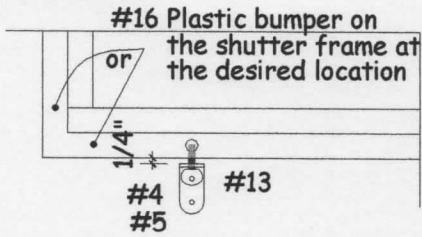
Mounting the Hold Open / Close Brackets and Shutter to the Building



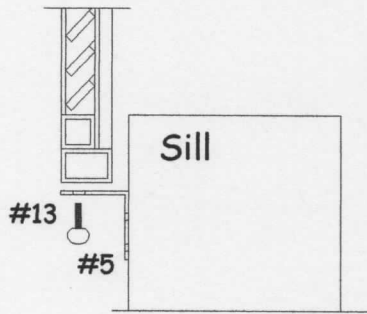
Step 5: Refer to the shop drawings for the hold open / close bracket locations, mount the brackets even with the line in Step 4

3-Triple Hinged Bahama, Larger than Opening, Brackets @ Face of Building

Details



Mounting the Hold Open / Close Bracket to the Building



Hold Close Thumbscrew Location

