

"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: 3-Double 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:**

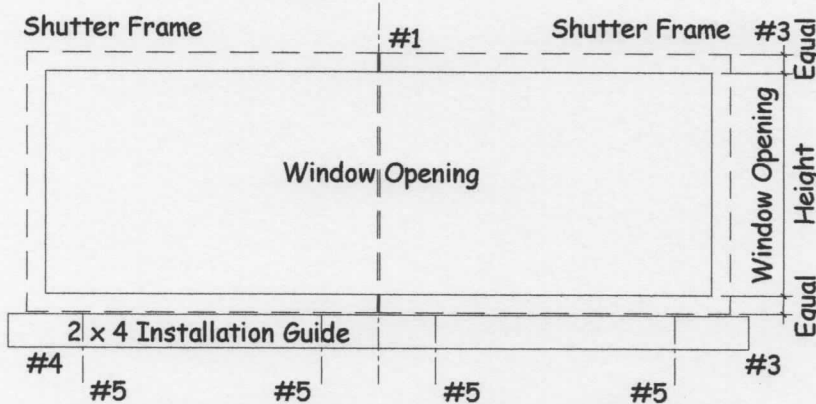
- #1 Divide the window opening width by 2, make a vertical line at the center point, head (top) and sill (bottom) of the opening, figure 1
- #2 Make a vertical line 1/8" on both sides of the centerline, Step 1, at the head (top) and sill (bottom), figure 1
- #3 Subtract the window height from the shutter 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 (right shutter), place the right shutter on the shims, line the left side of the shutter with the right line 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 Place a 1/4" shim on the hold open/close brackets(left shutter), place the left shutter on the shims, line the right side of the shutter with the left line in Step 3, figure 2
- #10 Drill the screw the right middle hinge to the structure, figure 2
- #11 Drill and screw the left middle hinge to the structure, figure 2
- #12 Check the alignment of both shutters
- #13 Drill & screw the rest of the hinges to the building, figure 2
- #14 Close the shutter frame and mark the center of the hold open/close bracket mounted on the building, center punch the center, drill a hole at each bracket center point using the 13/64 or #7 drill bit, thread the holes with the 1/4 x 20 tap, figure 3
- #15 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
- #16 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
- #17 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 then 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-Double Hinged Bahama Larger than Opening Marking the Shutter Location

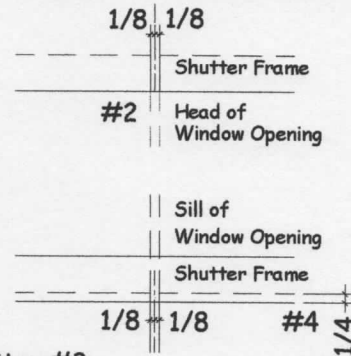
Step #1: Divide the window opening width by 2, make a vertical line at the center point, head (top) and sill (bottom) of the opening



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

Step #2:

Make a vertical line 1/8" on both sides of the center in Step 1 at the head (top) and sill (bottom)

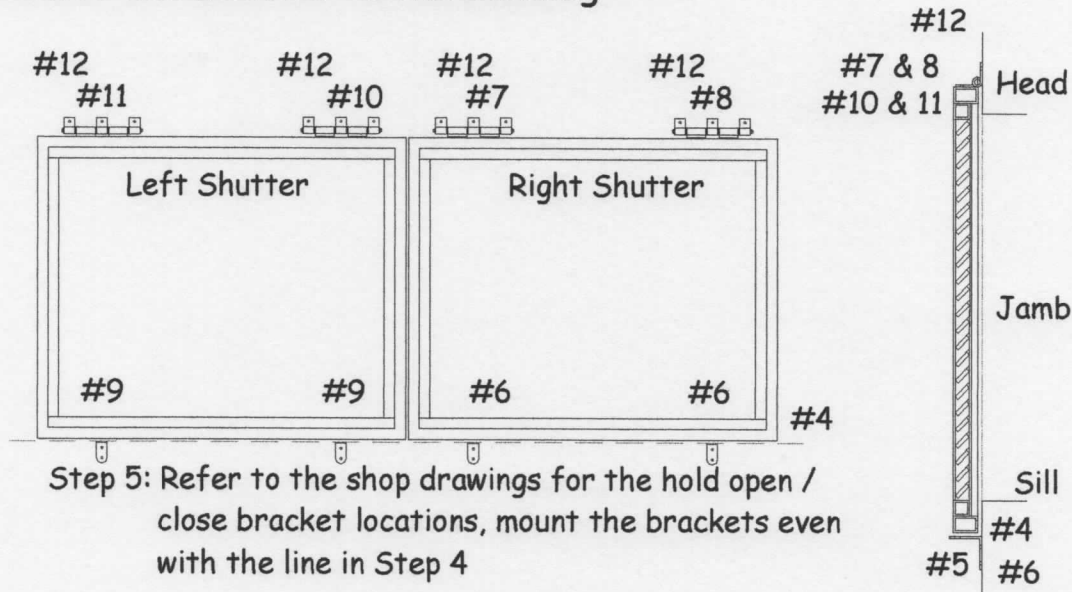


Step #3:

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

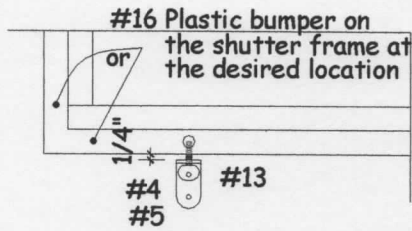
## 2-Double Hinged Bahama Larger than Opening, Brackets @ Face of Building

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

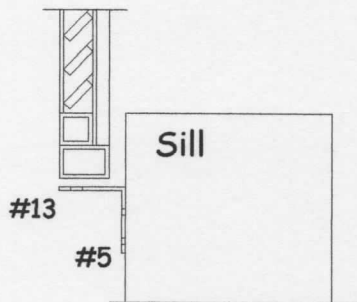


Step 5: Refer to the shop drawings for the hold open / close bracket locations, mount the brackets even with the line in Step 4

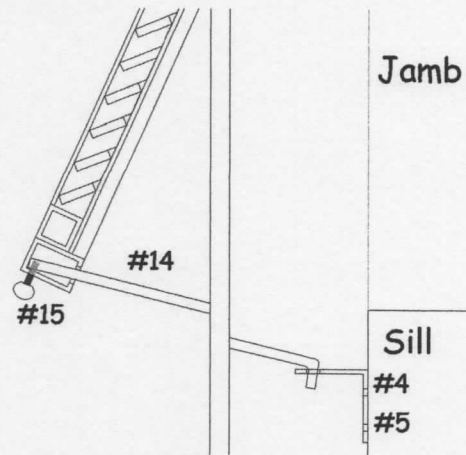
### 3-Double Hinged Bahama Larger than Opening, Brackets @ Face of Building



Mounting the Hold Open / Close Bracket to the Building



Hold Close Thumbscrew Location



Hold Open Rod