Hardware for Shutters with Storm System
Installation Instructions

For varying heights of shutters, use the following quantities of hinges per shutter:

- Height from 12" to 48", Two hinges per shutter
- Height greater than 48" to 76", Three hinges per shutter
- Height greater than 76" to 102", Four hinges per shutter

**L-Hinges and Flat Hinges are the only approved hardware for storm rated mounting.**
L-Hinges are typically used at the top and bottom of the shutter. Flat Hinges are used between L-Hinges when 3 or 4 hinges are needed.

The L-Hinge is shown for instructional purposes. If a Flat Hinge is being used, follow the same installation methods.
**STEP 1**
Measure and mark hinge locations as shown. The top and bottom hinges are typically placed 1" from the ends of the shutter.

**STEP 2**
Align the hinge to the outer edge of the shutter and to one of the marks previously measured. If a Polycarbonate Mounting Screw is in the way, remove it.

**STEP 3**
Using the hinge as a template, drill 5/32" pilot holes in the shutter. Use caution not to drill completely through the shutter.
**STEP 4**
Attach the hinge using the supplied #12 x 1" screws.

**STEP 5**
Repeat steps 2-4 for the remaining hinge(s).

**STEP 6**
Repeat steps 1-5 for the other shutter. Make sure to attach hinges to the opposite edge of the shutter as the first. This creates a left and right shutter.

---

**ANCHOR SPECIFICATIONS**
- Existing structure may be concrete, hollow block or wood framing. For proper anchor type based on type of existing structure, see anchor schedule below.
- Anchors shall be installed in accordance with manufacturers’ recommendations.
- Where existing structure is concrete or hollow concrete block, minimum edge distance shall be 3" for all anchors.
- Where existing structure is wood framing, existing conditions may vary. Field verify that fasteners are into adequate wood framing members, not plywood.
- Minimum embedment and edge distance excludes stucco or other exterior wall finishes.

**HINGE PINTEL ALLOWABLE ANCHORS:**
To concrete: 3" fastener edge distance
  - 3/16" X 1 3/4" embed tapcon or equivalent
To wood: 3/4" fastener edge distance
  - #10 X 1 3/4" embed wood screws or equivalent
**STEP 1**
Hold the shutters in place in the window opening. Using shims, position the shutter in the opening to create an 1/8” gap around the top, bottom, and hinge side of the shutter. This is only necessary when mounting the shutter in an opening. The 1/8” gap does not apply for overlap conditions.

**STEP 2**
Identify the locations of the Pintels on the wall and mount each Pintel pointing in the upward position, except for the bottom pintel. See anchor specifications above for correct fastener.

**STEP 3**
Mount the bottom Pintel in the downward position. See anchor specifications above for correct fastener. Mounting the bottom Pintel in the downward position prevents the shutter from lifting off.
**STEP 4**

If Flat Hinges (not shown) are used between LHinges, the corresponding Pintels should point upward.

Once all the Pintels have been fastened to the wall, remove the shims.

**STEP 5**

Repeat steps 1-4 for the shutter on the opposite side.