

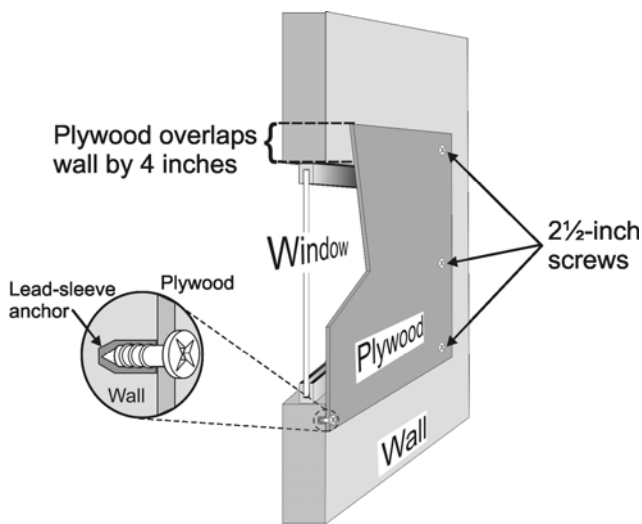


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## Overlapping Plywood Shutters

### Needed Materials:

- Minimum 5/8 inch thick plywood (3/4 inch is recommended)
- Nails (less secure) or screws/bolts (more secure) at least 2 inches long
- Lead or stainless-steel sleeve wall anchors (do **NOT** use plastic)
- Hammer (for nails) and/or drill (for screws)
- Wood shims (if necessary)
- Circular saw



### Basic Installation Directions:

Cut plywood to overlap each window opening by 4 inches or more. Connect multiple sheets with 2×4s or sturdy hinges for large openings. Drill matching holes through the plywood and the wall. Label each panel with “Top” and “Bottom” and the window it fits. Hammer sleeve anchors into wall holes. Screw (or bolt) plywood into the anchors. Plug the holes when not in use.

### Additional Issues to Consider

Avoid OSB: It takes 30% thicker oriented strand board (OSB) to equal the impact strength of plywood. We recommend using plywood.

Plan Ahead: Plywood is cheap, convenient, and available at most hardware stores. However, buy your plywood before a storm approaches. If you wait until the last minute your local hardware store may run out.

Store Properly: Plywood requires proper storage to prevent wood damage. Florida’s hot humid climate can warp or degrade plywood making the shutter unusable. It is best to waterproof your plywood shutters with a sealant or paint and store them in a cool, dry place. Keep the shutter hardware (the bolts and screws) in a labeled container with the shutters. Storing plywood flat may also help prevent warping. Never store wet plywood.

Watch Out for Termites: Additionally, choose a storage location that keeps the plywood shutters off the ground. This will help reduce the potential for termite damage.

Label the Shutters: Most homes have a variety of window types and sizes. It is important to clearly mark each of your plywood shutters so you know which window it fits and which side is up. You may consider making a drawing of your house and marking each window on it with a special number to match your shutter labels.

For more detailed guidelines on a variety of plywood shutter designs, visit the APA (Engineered Wood Association) Web site (see below). Click on their “Publications” page and search for “hurricane shutters.”

### Other Resources

APA – The Engineered Wood Association  
[www.apawood.org](http://www.apawood.org)

NOAA & AOML | Plywood Hurricane Shutters  
<http://www.aoml.noaa.gov/hrd/shutters/index2.html>