

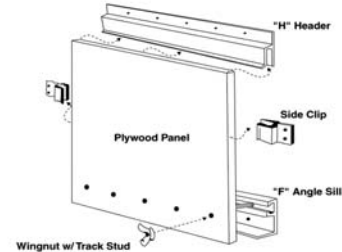


PLYWOOD STORM PROTECTION KIT MOUNTING INSTRUCTIONS

IMPORTANT: Please contact your local building code official for current code requirements prior to mounting your plywood panels.

Tools Required: Cordless or Electric Drill (variable speed), Work Gloves, Level, Pencil, Safety Glasses, Tape Measure, 3/16" Drill Bit (wood or masonry), 3/8" Metal Drill Bit, 5/16" Socket Driver.

Kit Includes: "H" Header, "F" Angle Sill, (2) Side Clips, Mounting Hardware: (14) Flange Concrete Screws, (5) 1/4-20 Track Bolts, (5) Washered Wingnuts



• **Always wear safety goggles and gloves while cutting, drilling, and handling aluminum extrusions and plywood!**

• **The use of side clips is optional for windows 42" wide or less.**

Step 1: Plywood Preparation

1. Measure the opening, and size the plywood to allow at least 1" overlap on the top, sides, and bottom (more, if space allows) below the window or door. Using these measurements, cut the plywood panel to size.
2. Using the 3/8" drill bit, drill holes along the bottom edge of the plywood panel, 1" up from the bottom edge. Begin with a hole 1" from each end and one hole in the center. Place the remaining two holes, one on each side, midway between the end and the center hole.

Step 2: Mount the "F" Angle (Bottom Sill)

1. Prepare the "F" angle sill by drilling 3/8" holes with the metal drill bit. (Note: for smaller window openings, the "H" header and "F" angle sill can be cut to the appropriate size with a carbide-tipped saw blade or hacksaw. Place one hole 1" from each end and one hole in the center of the angle. Place the remaining two holes, one on each side, midway between the end and the center hole.

Flush Wall Mount: Drill holes on the same side of the angle as the "F" angle (the slotted side of the metal piece).

Floor Mount (use if no space is available below opening on wall): Drill holes on the side of the angle without the "F" track (the unslotted side).

2. Center and level the "F" angle at the bottom of the opening and use the drilled holes as guides to mark the wall, or floor, depending on the mounting method. (height location is determined by the amount of space allowed when measuring the plywood).
3. Depending on material being drilled, drill at marks with a 3/16" wood, or masonry drill bit to a depth of 2".
4. Align the holes and mount the track with the concrete screws, using a 5/16" socket driver. Be careful not to over torque the concrete screws - you may damage or shear the head of the fastener.
5. Slide the track bolts into the "F" angle track, placing the bolts at the same spacing as the holes drilled into the plywood. Mark the placement of the track bolts on the track for easier placement during re-mountings.

Note: It is recommended that for door openings, "F" angle sill should be removable

- **To make clips removable and reusable** - 1/4-20 lead machine screw anchors are recommended for concrete and brass wood bushings are to be used in wood. Use these anchors with 1/4-20 x 1" machine screws (above parts are not included)

Step 3: Mount the "H" Header

1. Prepare the "H" header by drilling holes with the 3/8" metal drill bit through the mounting flange. Place one hole 1" from each end and one hole in the center of the angle. Place the remaining two holes, one on each side, midway between the end and the center hole.
2. Place the plywood panel on the "F" angle sill over the opening, and secure with two of the track bolts and wingnuts. Slide the "H" header onto the top edge of the plywood and center it on the panel. Lift the header 1/4", making sure that there is a 1/4" distance between the inside of the header and the edge of the plywood. (The plywood does not go all the way up into the "H" header). While in place, use the holes in the header as guides to mark the surface of the wall. **Note: Make sure the header is level.**
3. Remove the plywood and repeat parts 3 and 4 from "Step 2".
4. Slip the plywood into the "H" header and then onto the track bolts on the bottom sill. Use the washered wingnuts to fasten securely.

The use of side clips is optional for windows 42" wide or less.

Step 4: Mount the Side Clips

1. Prepare the side clips by drilling two mounting holes in the mounting flange of each clip using the 3/8" metal drill bit. Place holes 1" from each end of the clip.
2. Slide one side clip onto each side of the plywood panel and center vertically. Use the holes in the side clip as a guide to mark the surface of the wall.
3. Remove clips and repeat parts 3 and 4 from "Step 2".

To make clips removable and reusable - 1/4-20 lead machine screw anchors are recommended for concrete and brass wood bushings are to be used in wood. Use these anchors with 1/4-20 x 1" machine screws (above parts are not included)

The Plywood Storm Protection Kit is now ready for quick and easy installation as needed. Plywood is vulnerable to moisture. It is recommended that a good quality primer or wood sealer is used to protect both sides of the panel. Store in a dry place, flat if possible, to avoid warping. Carefully store the track bolts and wingnuts with your plywood panels.

The Plywood Mounting Kit can be left up year-round. Unless, a removeable installation is preferred. The mounting metal surfaces can be kept clean using soapy water, and a non-abrasive cloth or sponge, and the Plywood Storm Protection Kit can be painted the same color as your house.

Optional Horizontal Mount - If there is no space above or below openings, and floor mount is not practical, use multiple kits for horizontal mounting using only the "F" angle sills (The "H" headers are not needed).

Openings requiring more than one width of plywood - the plywood can be joined together by using the side clips included in the kit. Additional kits will be required to cover openings wider than 42". A 1/4" metal drill bit and (8) 1/4" x 1-1/2" bolts with washers and nuts will be required (not included in the kit). The "H" headers and "F" angle sills should be mounted following the above instructions before beginning the steps below.

1. Prepare the side clips by drilling two mounting holes in the mounting flange of each clip using the 3/8" metal drill bit. Place holes 1" from each end of the clip. Drill two more holes through the "H" section of the side clip opposite the holes on the mounting flange. Place a scrap piece of wood in the "H" section of the side clips while drilling to maintain shape, and take care to secure each piece prior to drilling (using a vise or clamp).

Note: This image represents the hole orientation in the drilled clip



2. Slide 2 of the clips onto the edge of the first panel to be joined. Make sure the mounting flanges are to the front (away from the glass) and pointing toward the second panel. Place one clip 1/3 of the way from the top, and the other 6" below the center of the panel.
3. Using the holes in the "H" section of the clips as a guide, drill through the plywood with the 1/4" drill bit.
4. Fasten with 1/4" x 1-1/2" bolts with washers and nuts. Make sure that the heads of the bolts will be facing toward the glass of the opening. The washers and bolts are on the outside of the panel.
5. Slide the other two side clips onto the second piece of plywood being joined. Make sure the mounting flanges are to the front (away from the glass) and pointing toward the first panel. Place one clip 1/3 of the way from the bottom of the panel, and the other 6" above the center of the panel.
6. Repeat parts 3 and 4 above.
7. Place the two sheets of plywood together and align. Using the holes in the clip mounting flanges as a guide, drill through the plywood using a 1/4" holes through the plywood.
8. Place the first panel in the mounting metal and secure with the track studs and wingnuts. Place the second panel in the "H" header and slide toward the first panel so that the clip mounting flanges overlap at the holes.
9. Fasten together with 1/4" x 1-1/2" bolts with washers and nuts, making sure that the heads of the bolts are facing the glass of the opening, not the washers and nuts. Secure the bottom of the panel with the track bolts and washered wingnuts.

 **ERTHA**[®] Plywood Storm Protection Kit

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