## Aluminum windows and doors fabrication manual

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Video Playback Not Supported As I made my way through the International Builders' Show, I stopped by the JELD-WEN Windows and Doors booth to take a look at some of their new products. One innovative idea I really liked were window screens that had magnets embedded around the frame to hold them securely closed. In addition, the MAG-Lock window locking system from JELD-WEN uses a similar idea to ensure the window locks every time it's closed. I also had a chance to check out wooden windows and doors from JELD-WEN that feature AuraLast, a vacuum pressure wood treatment process that protects the wood throughout from decay and termites. Watch this video to find out more. Further Information One of the more frequent problems that can occur with a car window is when the arm that holds the window can jump out of the tracking of this arm. You may also find that you have damaged glass that needs to be replaced and you will need to remove the remainder of the window to do that. Remove the inside door panel screws that are located in the arm rest in the well for the inside door handle, and the speakers if you have one or all of these items. Depending on the type of vehicle that you have, these screws could require the use of a simple flat head or a Phillips-head screwdriver, a socket set or a set of Allen wrenches. Roll down the window. You will also need to remove the window crank and unscrew the lock lever, if applicable. Use the flat head screwdriver to help pry the door panel open enough so that you can determine what type of securing clips are being used. Different types of cars will have different types of securing clips. Some will with have simple pop-in plastic clips, while others will use a combination of plastic clips and metal slide clips. Remove one section of the door panel at a time, starting from the upper right corner and working your way down to the lower right corner. Repeat this process for the left side of the door panel. If your car also uses metal sliding clips, these will be the securing clips that will hold the top horizontal section of the door panel about halfway down and push up to release the top portion from the metal sliding clips. Set the door panel aside. Remove the water shield, if there is one present, by gently peeling it off the door frame. Remove the bolts or screws that are connected to any brackets that hold the glass upward carefully until it has cleared the channel of the lifter assembly. Slowly slide the window out through the bottom of the door frame at an angle. Now you are ready to repair what is needed. Forget that fancy automatic door -- you want to install a manual garage door. While you might be the only person on your block to have a manual door, there are a few reasons why having one isn't so bad and why this less-convenient option has refused to die out. The main reason for their popularity is that they are often more secure. In addition, they are much easier to install, all you need to do is secure the door with a torsion spring system. This kind of installation generally requires only a drill, its bits, a hex wrench and an open-end wrench. Your installation instructions will probably vary, but the basics generally go something like this: Attach the flag bracket and horizontal angle, and connect them to the jamb. Connect the torsion tubs and the springs, and place them in each bracket. After measuring the length of release of the spring, tighten the screws to the torsion tube. Secure the most basic instructions, but they give you an idea of the steps required to install a manual garage door. If you're looking for the convenience of a motor, read on to find out how to install an automatic garage doors, can be hijacked. You can buy a device that "sniffs" out the frequency that a radio-operated garage door motor uses for less than \$50 [source: Doors 4 Garages]! Automatic doors have a great if your kid is something blocks the path of a closing door, the door will stop closing and go back to opening. This feature is great if your kid is something blocks the path of a closing door, the door will stop closing and go back to opening. This feature is great if your kid is something blocks the path of a closing door, the door will stop closing and go back to opening. if someone with malicious intent puts something in the garage door's path as it closes, the door will automatically open, leaving it ripe for intrusion. Though this is more difficult to pull off without someone noticing, it's still possible. Lastly, manual garage doors generally require a key for entry, something that would be difficult for an unsavory character to obtain. Video Playback Not Supported Watch the previous or next video in our series on home products. There were a number of innovative new doors and windows on display at the 2011 International Builder's Show, including: Decorative glass doors from JELD-WEN Windows & Doors. Acrylic block windows from Hy-Lite. Hinged door sidelights with screens from Therma-Tru Doors. Sliding glass patio doors with blinds between the glass from ODL. Watch this video to find out more. VIDEO TRANSCRIPTDanny Lipford: This entry door from JELD-WEN adds a gorgeous wheat pattern to its obscure glass insert to make a functional element more beautiful. These acrylic block windows from Hy-Lite are lighter than real glass blocks, so they can be made operable for ventilation - as casement, or on units. To add ventilation to entry door units, without covering the beautiful door, Therma-Tru has hinged the side lights and added screens to them. Now that's a great, new concept. Allen Lyle: Blinds between the glass is not that new of a concept. But when they're on a sliding glass door, that's new; and that's what I found here at the ODL booth. Same conveniences, because the blinds are inside the glass. That means no more dust and dirt - I love that. Dangling cords have always been a safety concern; not so, they're eliminated. You've got your up and down, your tilting, open and close, and of course the blinds also move with the door. Now, one other option you can add to this - and I love this - is a low profile, retractable screen door. TAGSacrylicODLpatioTherma-Truwindow This site is not available in your country Video Playback Not Supported Windows and doors are an important part of any addition. With Today's Addition it was important to match the existing vinyl windows on the outside and the new trim and warm-stained wood recently added in the inside of the addition. Energy efficient Premium Clad Wood Windows provided the solution. These windows featured a low maintenance aluminum exterior and clear pine wood on the installation is different, so you'll need to know some principles before you can begin your layout with the particular measurements for your project. Each slat in the louvers will cover one vertical inch of space. You should leave a 1/8" gap between the top and bottom slats and the corresponding rails. For instance, if you have approximately a 24" tall opening for the louvers, make the opening 24-1/4" and insert 24 angled slats at one-inch intervals. Additionally, each seat will be inserted into a 1/4" deep groove in the stiles, so the slats must be formed as 1/2" longer than the width of the opening. Once you know the dimensions of the louvered piecen, you can determine the length and width of the rails and stiles. Use your best judgment as to how wide each of the rails and stiles should be ripped to maintain the integrity of the entire unit. As an example, in the case of the louvered window covering built here as a prototype, the opening is 30-5/8" x 2-1/2", and the rails 20" (to accommodate a 1" long tenon on each end) x 2-11/16" wide. The rails and stiles resulted in an opening of 18" x 25-1/4". This means that thee needed 25 seats of 18-1/2" x 1/4" thickness were ripped out of a second 2x4. Cut a few extra slats, as you'll likely want to cull a few that have some knots or other imperfections. Hands ripping a rail with a table saw The Spruce / Chris Baylor Set up your router in your router table with a 1/8" radius round-over bit equipped with a bearing tip. Adjust the depth so that the lower edge of the router table (as shown in the picture) and ease the four long edges by pushing the seat along the bearing and down each of the long edges. Always move the stock from left to right, against the rotation of the bit. Any attempt to move the stock in the opposite direction may cause the bit to grab the stock and force it out of your hands. After the four long edges on all of the slats have been rounded-over, sand all of the slats with a random orbital sander or 1/4-sheet sander. Use progressively finer grits of sandpaper to remove the sanding marks from the previous sanding. If you plan to paint your project, or if you want to ensure an optimum surface, consider a hand sanding with some 400-grit sandpaper for a very smooth finish. Set the seats aside for the time being. Round Over the Slats The Spruce / Chris Baylor Mortise and tenon joints, it is always easier to cut the mortises first then fit the tenons to the mortises rather than the other way around. The easiest way to form mortises is with a dedicated mortise, which is essentially a drill pit. The drill bit in the center removes most of the stock, while the square chisel does the rest. This allows the operator to drill square holes, perfect for a mortise. Some drill press manufacturers offer optional mortise attachments with various sizes of square chisel bits. However, if you don't have a mortise attachments with various sizes of square chisel bits. However, if you don't have a mortise attachment with various sizes of square chisel bits. However, if you don't have a mortise attachment with various sizes of square chisel bits. drill, then clean up the mortise with a sharp chisel. You could also use a straight bit on your router table in place of the drill bit, by easing the stock down onto the bit. To make a wider mortise, simply move the fence a bit and take another pass. Then, clean up the mortise with a sharp chisel. Your mortises should be about half the width of the stock. For this project, the stock is 1-1/2" wide, so the mortises are 3/4" thick, centered in the width of the stock. For this project, the stock is 1-1/16" wide rails, there will be a 1-11/16" wide tenon, so the mortise will be started back 1/2" from the edge. Cleaning the Mortise The Spruce / Chris Baylor After the mortises have been cleanly cut, it's time to make the corresponding tenons. These tenons can be cut a number of ways: You could cut them by hand with a small hand saw, use a band saw, or cut them on a table saw with a tenoning jig. In this project, the tenons are cut on a radial-arm saw using a stacked dado blade set. (You could accomplish the same task with a table saw using the mortise. For this project, 3/8" will be cut off of each wide edge to leave behind a 3/4" thick tenon. If you're using stock thicker than 1-1/2", then you'll need to adjust the depth of cut. After cutting the two flat sides of each tenon, adjust for a deeper cut. Then turn the stock on its side and make the remaining cuts of the tenons. If they don't fit, cut them down little by little, making any adjustments that you deem appropriate to ensure a perfect fit. After all of the mortise and tenon joints in discreet locations so you know how to re-assemble the frame in the final assembly. Then, sand all of the exposed sides of the rails and stiles. Cutting the Tenon The Spruce / Chris Baylor The key to making louvers is to ensure the grooves for the slots are properly spaced and parallel. A louver jig for your plunge router can be built out of scrap stock and will create a perfect groove every time. Take two long (at least 24") boards that are a bit thicker than the width of the style that you'll be routing. These don't have to be solid boards; you could use a couple of pieces of scrap 3/4" plywood and shim some other scrap stock beneath the two long boards is clear. Position one piece of 1x2 in a 45-degree angle (using a layout square) a few inches to the right of center on the two long boards with screws. Position your router with a 1/4" radius straight-cutting bit on the two long boards, butted against the left side of the angled board you just attached. Position a second board parallel to the first angled board, on the other side of the router base. Attach with screws. Take a piece of scrap the same edge of the board as the groove to be cut in style. Make a mark at the center of this line, then make a 45degree mark (in the same direction that you positioned the router guides in the last step) through the intersection. Make a mark at 3/4" in each directly under your router bit on the jig. Remove the router, and make a pencil mark on the jig that corresponds to the first 90-degree mark made on your test board. This will be the alignment mark for positioning your style when you cut the grooves (as shown in the image above). Put the router back on the jig and move it forward to the point where the edge of the bit meets the far 3/4" mark on the diagonal. Find a short piece of scrap 1x2 and position it against the router base on the jig and screw it into place. This is a stop to keep you from routing too close to the edge of the stile. Move the router base for the bottom side of the jig. You should now have 1-1/2" of travel perfectly centered on the test style. Set your router to make a 1/4" deep cut and clamp the jig and test style for cutting by making a perpendicular mark every one inch along the edge of the stile to be grooved. Start by making a mark at the halfway point of the length of the style. If you need to cut an even number of grooves, you must make a mark 1/2" on each side of the centerline, then a mark every inch on each side until you reach the desired number of slats. With all of the marks completed, clamp, and route to the next mark, clamp, and route the first grooves have been routed. Routing Louver Grooves in a Stile The Spruce / Chris Baylor Either build a second jig or disassemble the first jig so you can repeat the same instructions from the last two steps for the opposite 45-degree angle. Once you have a matched set of grooved stiles, dry-fit the slats in one of the styles as shown in the picture on this page. Then, evenly brush a bit of glue into the mortises and the appropriate rail tenons, then slip the tenons into the mortises. Immediately wipe off any glue that squeezes out of the joints. Working quickly from one rail toward the other, place the individual slats into the proper grooves. Inserting the Louver Slats The Spruce / Chris Baylor Once you have all of the louvers in their appropriate slots and the tenons securely into their mortises, clamp the styles together using some long clamps. Be sure to clean up any glue that squeezes out of the joints. Check the unit for square by cross-measuring the assembly from diagonal to diagonal. If the cross-diagonal measurement across two corners matches the measurement across the other two corners, the unit is square. Clamping the Louver Assembly The Spruce / Chris Baylor Either stain or paint the louvered assembly. You may find it easier to spray on your finish, as opposed to brushing it on, as this will ensure the finish gets into all of the grooves. If you choose to paint the louvered, be sure to give it a couple of thorough coats of primer before adding a couple of coats of the final color. If staining the louvers, apply the stain with a brush, but you can spray on a few coats of polyurethane or lacquer as a final finish. Applying the Finish The Spruce / Chris Baylor

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