

How To Build A Barn Box

Beginning Materials: (“ = inches, ‘ = feet)

- Exterior walls 1”x6”x7’ fencing (2 boards) or any 0.5” thick waterproof plywood (1 sheet)
- 1 sheet- exterior grade plywood for roof, eaves, and floor. (Can be used for walls too.)
- 1 piece- weatherproof wood 2”x2”x8’
- 1 piece- 2”x4”x8’ wood stud
- 1 box- 1.5” exterior deck screws (Piece L)
- 1 box- 0.75” exterior deck screws (Piece M)
- 1 quart- exterior grade paint
- 1 quart- primer
- 1 tube- exterior grade caulk, paintable
- 2 - White Economy Magnetic Catch with Strike (Typically used for cabinets.) (Magnetic catch- Piece O, Strike- Piece P)
- 2 - 1.25” Rowland Knob (Inexpensive wood pulls.) (Piece K)
- 4 - 1.5” Narrow Utility Hinge (Piece N)
- 4 - 1” plastic gripper pads

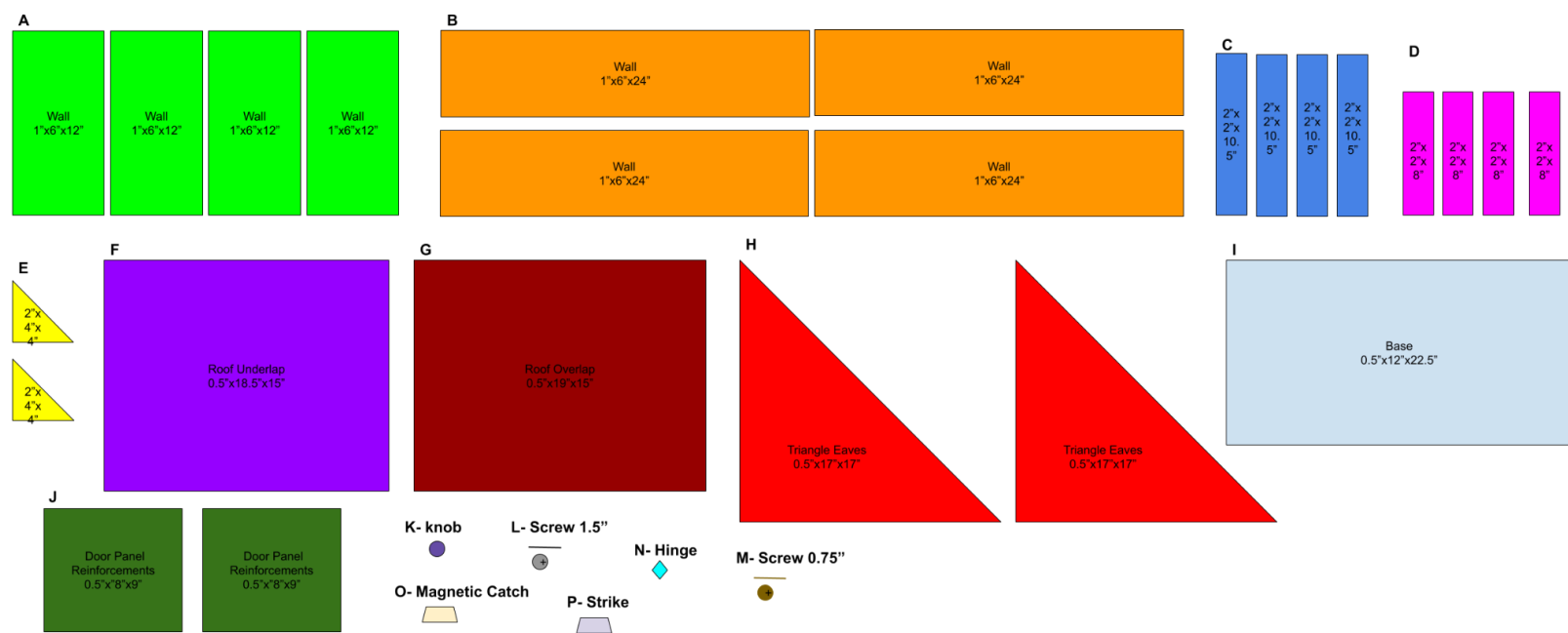
Tools:

- 1 - 3” inch wide paint brush
- Cordless screwdriver
- Fine punch (an ice pick or a large nail will work too.)
- Hammer (typical household carpenter hammer.)
- Circular saw (optional: Miter Saw)
- Measuring tape
- Eye protection
- Optional: Staple gun

Cut to Size

- 4 - 1”x6”x12” → Wall (Piece A)
- 4 - 1”x6”x24” → Wall (Piece B)
- 4 - 2”x2”x10.5” → Wall Reinforcements (Piece C)
- 4 - 2”x2”x8” → Wall Reinforcements (Piece D)
- 1 - 2”x4” Roof Reinforcements, (cut a 3.5” square then cut diagonally in half to make two triangles) (Piece E)
- 1 - 18.5”x15” plywood, Roof (underlap) (Piece F)
- 1 - 19”x15” plywood, Roof (overlap) (Piece G)
- 1 - 17”x17” plywood, Triangle Eaves (cut square diagonally in half to make two triangles w/ a hypotenuse of 24’.) (Piece H)

- 1 - plywood 12"x 22.5", Base for Barn Box (Piece I)
- 2 - 0.5"x"8"x9" Door Panel Reinforcements (Piece J)



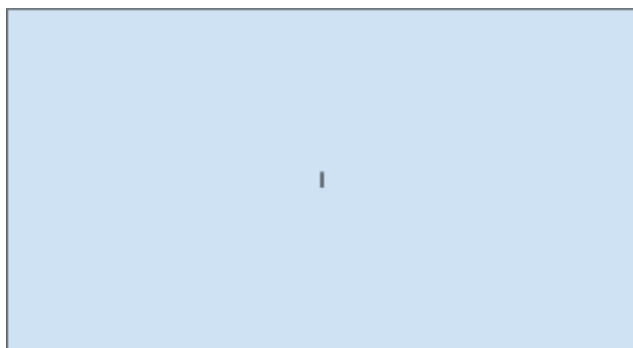
Instructions

Step 1:

Using a circular saw (and/or miter saw) and a measuring tape, cut all the pieces needed. Then prime every piece, making sure you don't forget all the sides and edges.

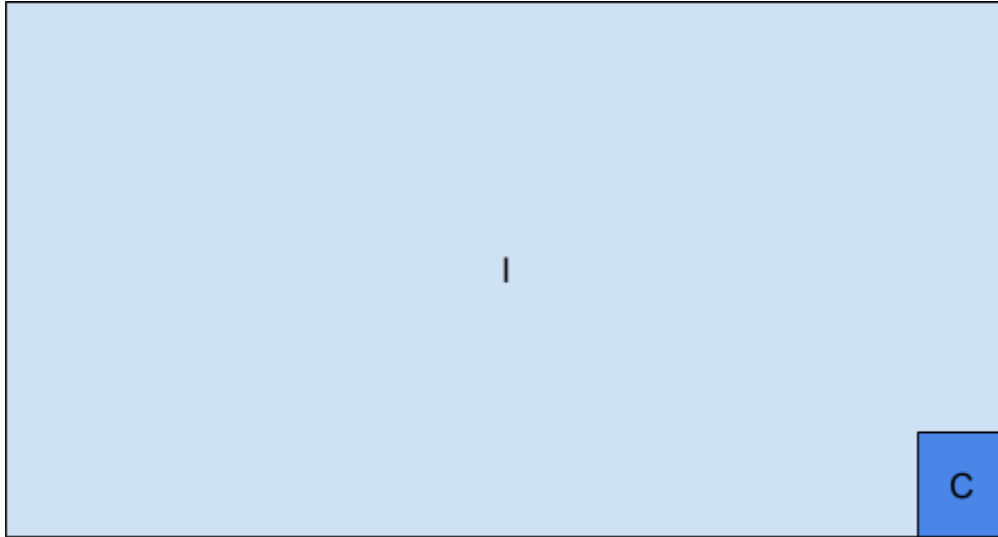
Step 2:

Lay part I down flat in front of you



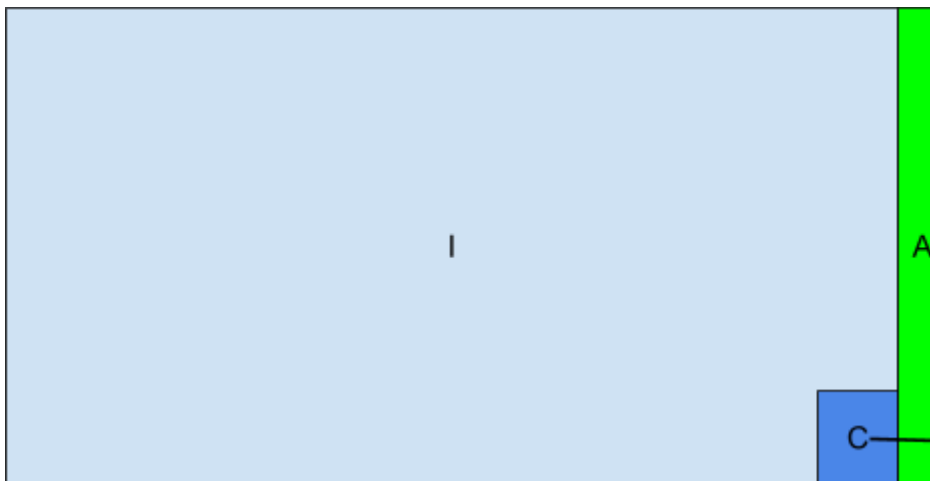
Step 3:

Take part C (reinforcement) and place it vertically on a corner of the I. (Image is the view from above looking down)



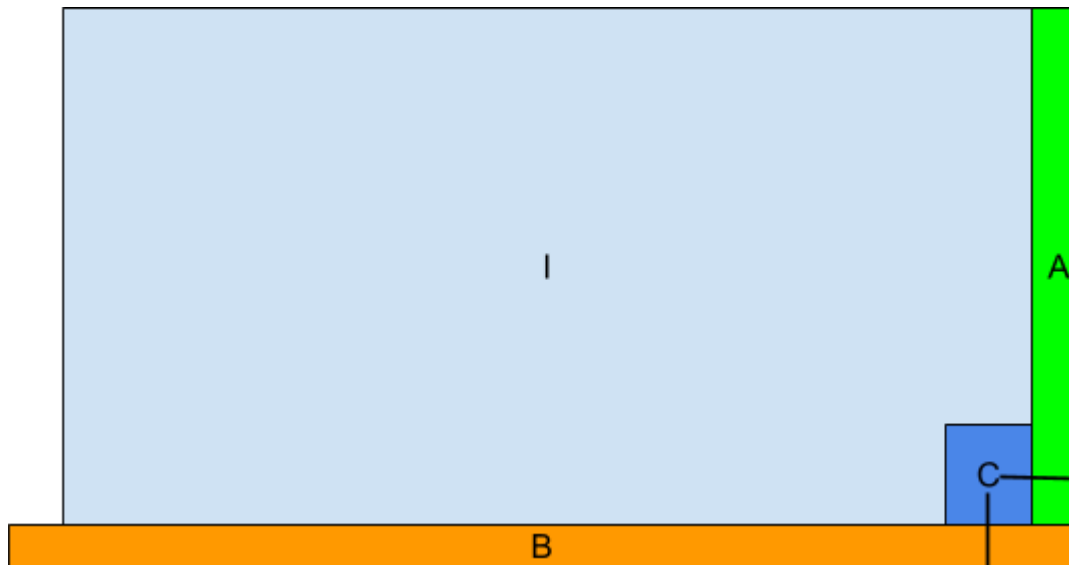
Step 4:

Take 1 part A (shorter wall) and place against the part I and C (make sure part A is not directly on the base, but on your work surface touching part I and C). Screw 2,1.5" screws connecting A to C. (Image is the view from above looking down)



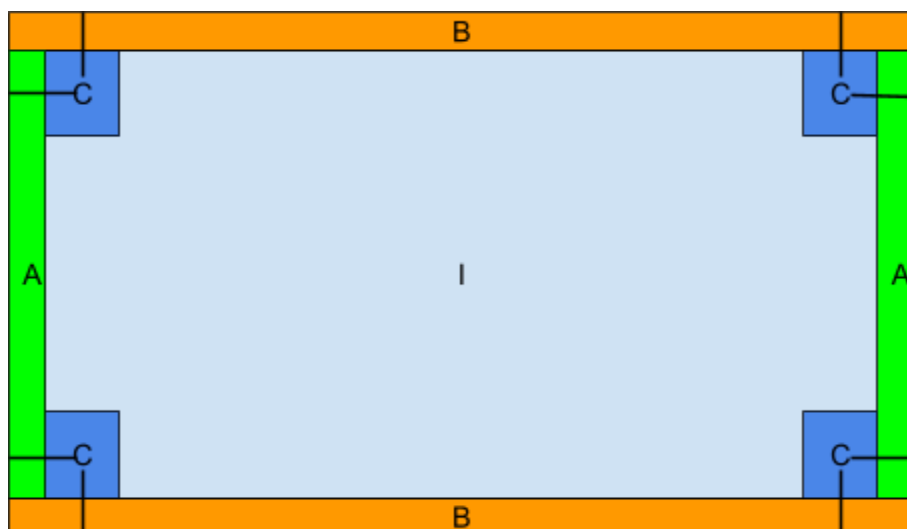
Step 5:

Take 1 part B (longer wall) and place against the part I, C, and A (make sure part B is not directly on the base, but on your work surface leaning against the part I and C). Screw 2, 1.5" screws connecting B to C. (Image is the view from above looking down)



Step 6:

Repeat steps 3 and 4 for the remaining 3 corners. (Image is the view from above looking down)

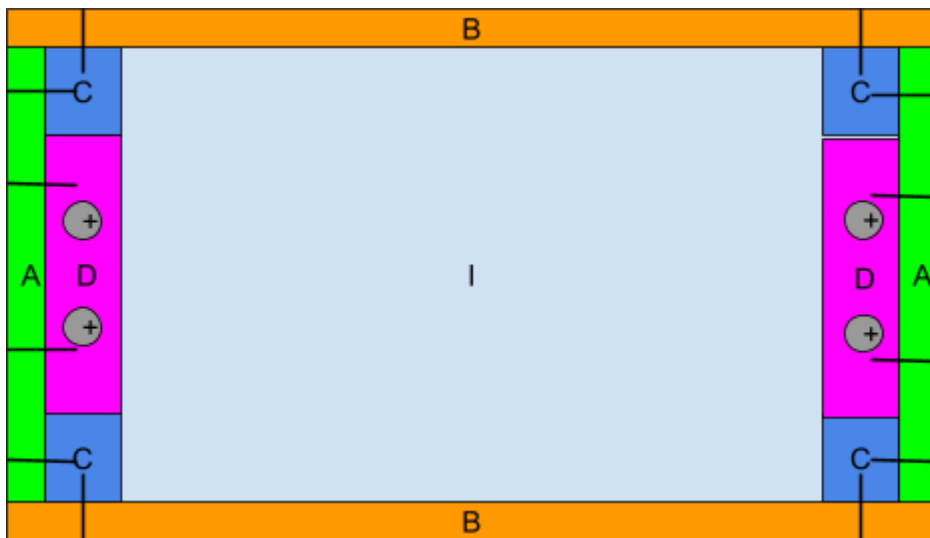


Step 7:

Stack remaining wall pieces and connect to corner reinforcements.

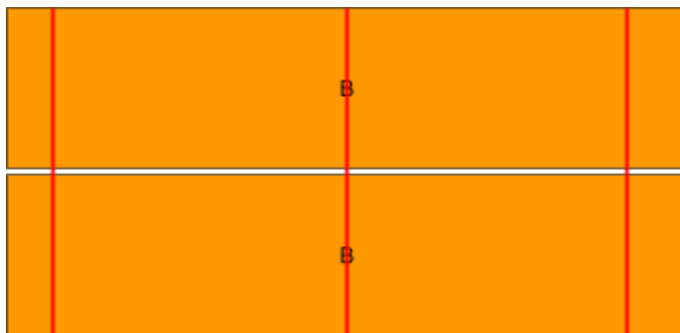
Step 8:

Place part D (shorter reinforcements) on part I, in between part C, and up against part A. Screw 2, 1.5" screws connecting A to D, and 2 screws connecting D to I. Repeat on the other side.
(Image is the view from above looking down)



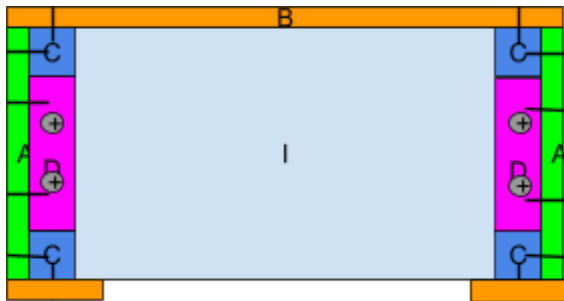
Step 9:

On 1 side of wall B, measure and mark with a pencil a vertical line 2in from the edge (do this for both the left and the right sides). Also, mark a vertical center line.

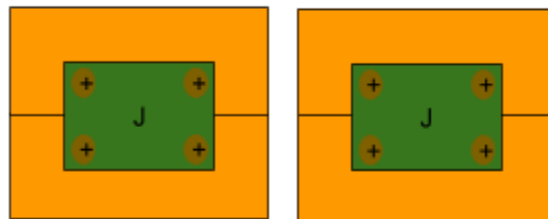


Step 10:

(Optional if using plywood). Using a circular saw, cut along your vertical lines. (Adjust the depth of the circular saw so it doesn't damage the base.) After, take part J and place one panel on each pre-cut door (B). Screw 0.75" screws into each corner to connect J and B. (Image is the view from above looking down)

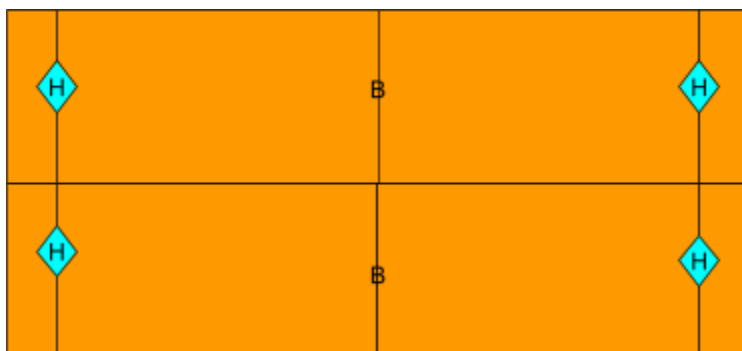


Inside Face of Doors



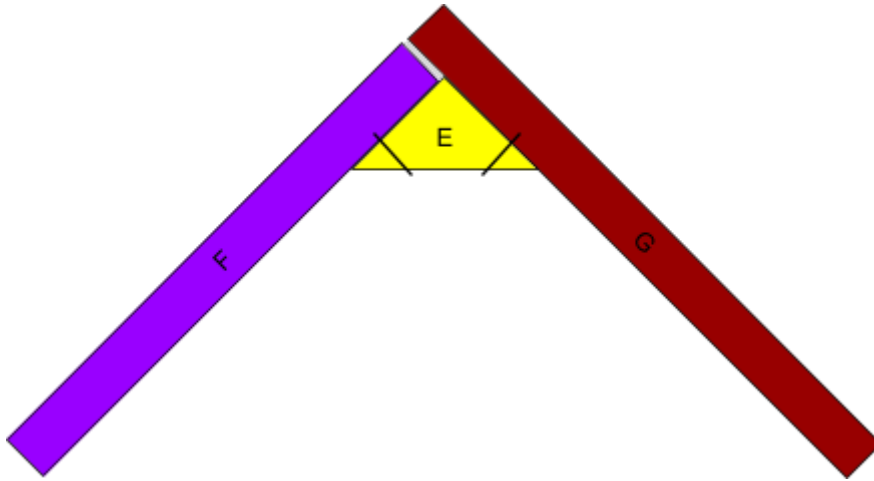
Step 11:

Now grab your box and, with J facing inward, attach hinges to the recently reinforced door panels and box (may be helpful to use a punch and hammer to start the screws).



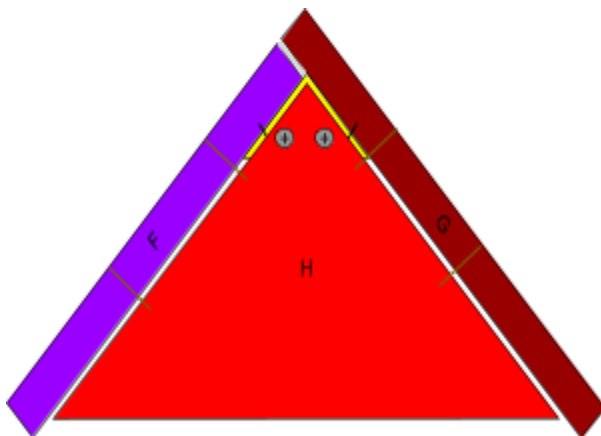
Step 12:

(An extra pair of hands will be helpful for this step.) Off to the side on your work surface, take piece F (underlap roof) and piece G (overlap roof) and caulk between the underlap and overlap. Then take 1 part E and place between the overlapping pieces 1" from the edge of the roof. Screw 1, 1.5" screw connecting part E and part F, and 1 screw connecting part E and part G. Repeat for the other side.



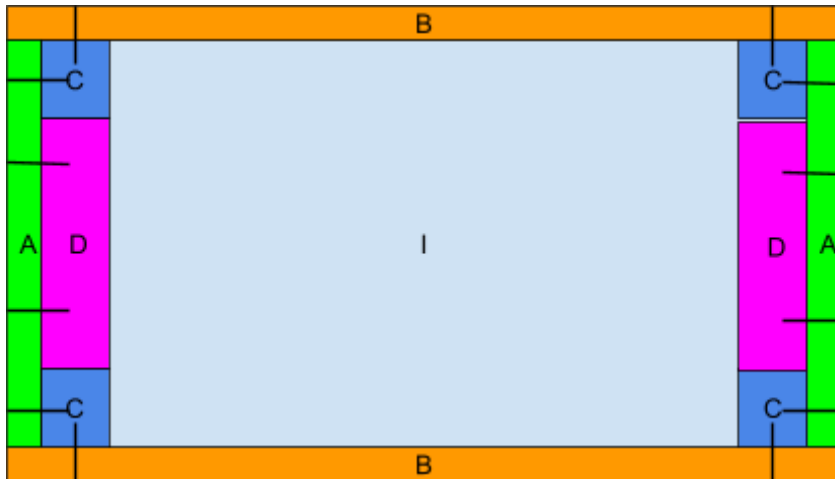
Step 13:

Place part H against part E and screw 2, 1.5" screws connecting the two pieces. Then, while carefully holding part H to make sure there is a consistent distance between the face of the eave and the edge of the roof, drive 2, 0.75" screw through the roof into the edge of the eave. Repeat for the other side of the roof assembly.



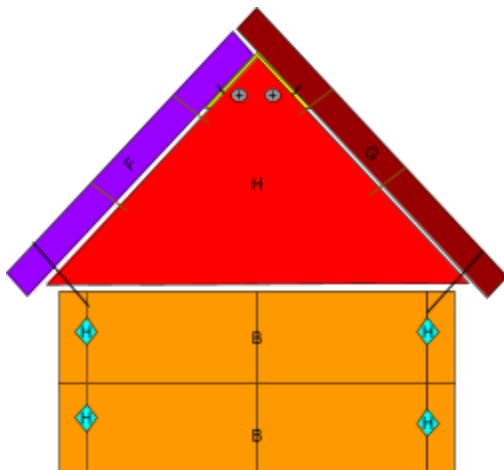
Step 14:

Place part D between part C and up against part A, in line with the top edge of the wall. Screw 2, 1.5" screws connecting A to D. Repeat on the other side. (Image is the view from above looking down)



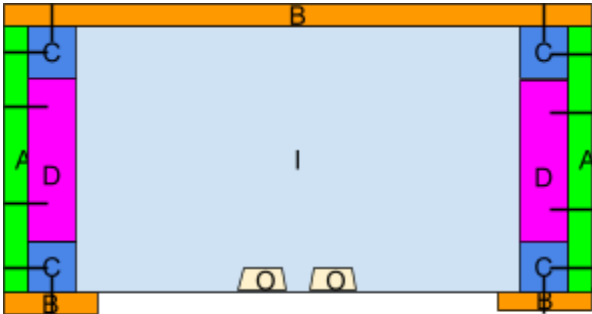
Step 15:

Place the assembled roof onto the assembled box base centering it side to side and front to rear. There may be a slight overhang with the eaves (this is really good when it rains). Attach the assembled roof to the assembled box by driving screws through the roof into part D (inside upper reinforcements.) Use 2-3, 1.5" screws per side.

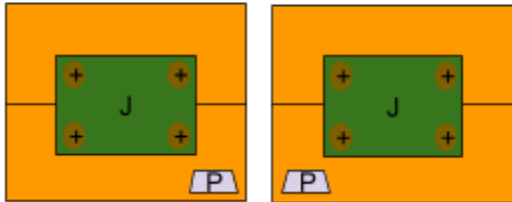


Step 16:

Attach magnetic catches to the base and attach corresponding plates on the doors, as close to the center line as you can. (Image is the view from above looking down)

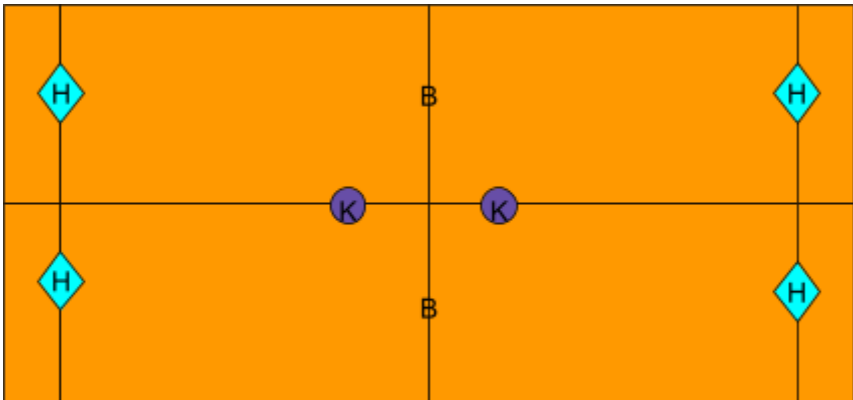


Inside Face



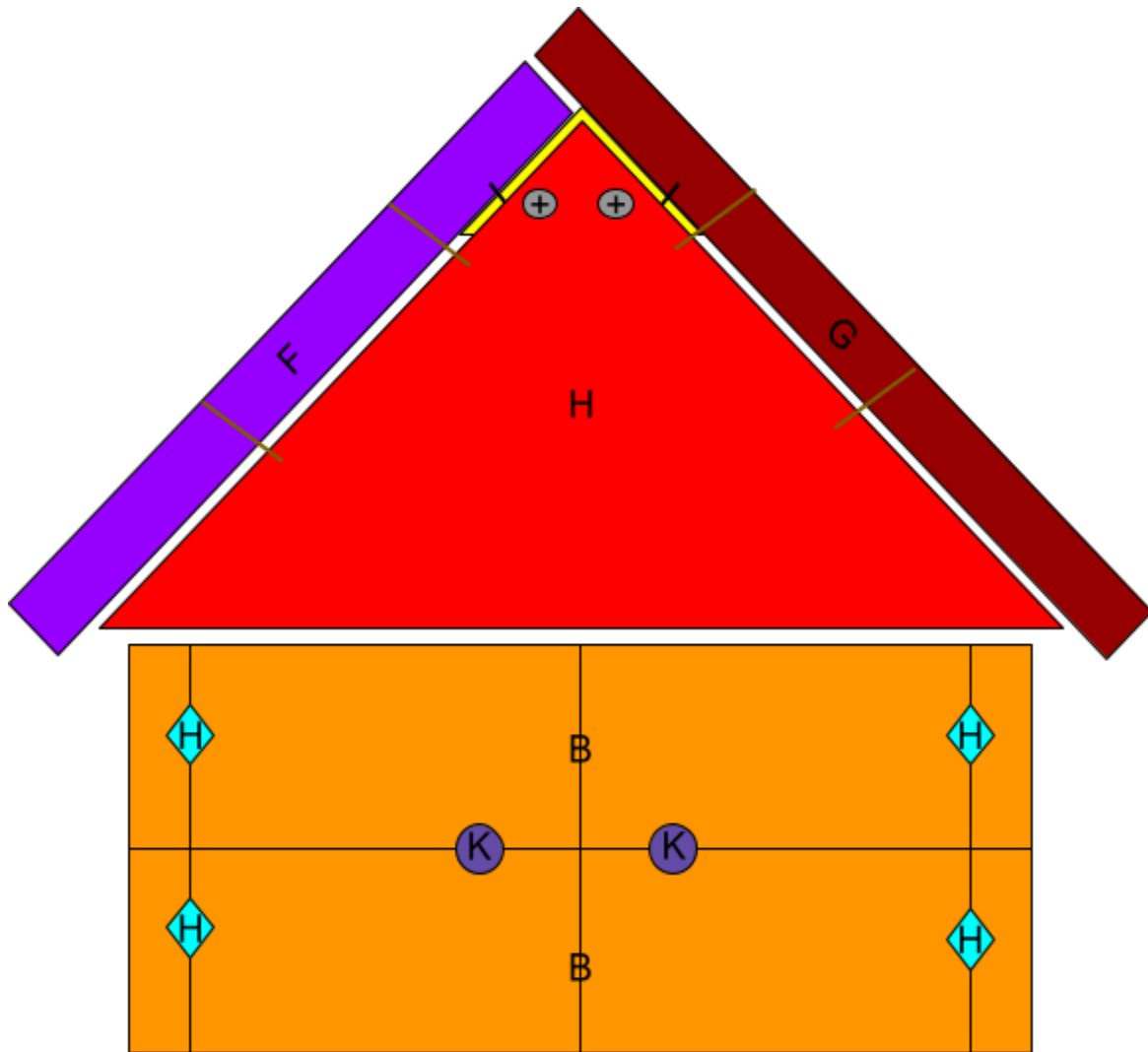
Step 17:

Drill and attach handle/pull (L) 2in from the center line, and centered vertically in the door. Repeat for the other side.



Step 18:

Paint and decorate your Barn Box however you would like



Step 19

Add plastic gripper pads to the bottom corners of your barn box to allow full motion of the door. Use a staple gun (this is what we used), caulk, or exterior grade glue to have better attachment.