

Chesterbrook Mailbox process

Use 4/4 rough white oak lumber

Plane 4/4 lumber to $\frac{3}{4}$ -inches

(2) Cut lumber to 8-inch wide by 18 $\frac{1}{2}$ -inch rough measure (sides)

(2) Cut lumber to 7-inch wide by 21 $\frac{1}{2}$ -inch rough measure (roof)

Cut lumber to 6 $\frac{1}{2}$ -inch wide by 17 $\frac{3}{4}$ -inch rough measure (bottom)

Adjust table saw for 90 - degree cut

Cut 6 $\frac{1}{4}$ -inches wide board to 10-inches rough measure (back)

Trim sides to 8-inches by 18-inches squared corners

Trim roof left to 6 $\frac{1}{8}$ - inches by 21-inches squared corners

Trim roof right to 6 $\frac{7}{8}$ - inches by 21-inches squared corners

Trim bottom to 6-inches by 17 $\frac{1}{4}$ - inches

Adjust table saw for 45 - degree cut

Bevel sides at 8-inches

Bevel roof left at 6 $\frac{1}{8}$ - inches

Bevel roof right at 6 $\frac{7}{8}$ - inches

Adjust table saw for 90 - degree cut

Trim beveled point off left roof at 6 - inches

Trim beveled point off right roof at 6 $\frac{3}{4}$ - inches

Mark front edge of all pieces

Set router to cut $\frac{3}{4}$ - inch wide slot 1/8 - inch deep from $\frac{3}{4}$ to 1 $\frac{1}{2}$ -inches from bottom edge

Cut slots in sides starting $\frac{3}{4}$ - inch back from front edge

Set router to cut $\frac{1}{2}$ - inch wide slot 3/8 - inches deep from 2 $\frac{3}{4}$ - 3 $\frac{1}{4}$ - inches from front edge

Cut slot in roof left from ridge edge for 3 $\frac{1}{4}$ - inches

Cut slot in roof right from $\frac{1}{2}$ - 4 - inches from ridge edge

Mark placement for magnet at 2 - inches from top and 3/8 - inches from the cut slot on roof left

Use Forstner bit to cut hole 3/8 - inches in diameter and 7/16 - inches deep

Score edges of 3/8 - inch by 3/8 - inch rod rare earth magnet

Use 5-minute epoxy in hole, thick coating the surface

Insert magnet and hammer to be flush with the roof

Use marking template to mark hole placements at ridgeline on roof right

Clamp roof left to roof right on roof jig

Drill and countersink 5 holes on roof right at marked locations

Drill 5 pilot holes on roof right

Use 5 - 1 5/8 - inch coated screws to attach roof right to roof left

Plane $\frac{3}{4}$ - inch white oak to $\frac{1}{2}$ - inch thickness

Cut (2) 3 $\frac{1}{4}$ - inch long pieces of the $\frac{3}{4}$ by $\frac{1}{2}$ - inch piece and bevel end at 45 - degrees

Sand off half of the beveled section and round the opposite corner

Use 5-minute epoxy in slots, thick coating the surface

Hammer the (2) pieces into the glued slots and align the beveled edges

Use marking template to mark hole placements at ridgeline on both sides

Clamp the bottom between the two marked sides and ensure the spacing at $5 \frac{13}{16}$ at bottom
Drill and countersink (4) holes on each of two sides
Pilot drill (4) holes on each of two sides
Use (4) – $1 \frac{5}{8}$ – inch coated screws on each of two sides to attach sides to bottom
Cut mailbox back to width and mark centerline
Use sled set at 45 – degrees to cut roof profile in back
Measure wall height from bottom along the sides of the box assembly and cut back to size
Clamp back in place between the sides
Drill and countersink (2) holes from the bottom and one from each side into the back
Pilot drill the (4) holes
Use (4) – $1 \frac{5}{8}$ – inch coated screws to attach the sides and bottom to the back
Using the roof jig, mark the location of the side boards on the roof edges
Attach the roof hole jig at the alignment marks on each side of the roof
Drill 4 holes on each roof side with the $\frac{23}{64}$ – inch bit to $\frac{3}{8}$ – inch deep at the jig holes
Align the roof piece over the box leaving 2 – inches of roof overhang in the front
Clamp spacer blocks and internal spacer front and back on the box to verify alignment
Clamp roof with box to base or table
Drill (4) pilot holes on each side
Attach roof to base with (8) $1 \frac{5}{8}$ coated screws
Fill all countersink holes with plastic wood and let dry
Sand off excess
Cut and plane ridge piece to 2 – inches by 21 – inches by $\frac{5}{16}$ – inches
Cut and plane ridge piece to $1 \frac{11}{16}$ – inches by 21 – inches by $\frac{5}{16}$ – inches
Use 20-minute+ epoxy to glue ridge pieces to roof. Clamp extensively.
Mark ridge pieces between screws
Drill and peg roof ridge pieces with $\frac{1}{4}$ - inch oak pegs using 5-minute epoxy
Cut off dowel excess and sand flush
Measure front opening
Cut front door with 45 – degree angle for roof
Mark door bottom and cut to size
Router edges of door with $\frac{1}{4}$ roundover bit
Mark left edge 2 – inches from top and $\frac{3}{8}$ – inches from side
Countersink hole and drill pilot
Use $1 \frac{5}{8}$ – inch coated screw flush with edge for attachment to magnet
Drill hole on door centerline $3 \frac{1}{2}$ - inches from top with #20 drill bit for knob
Mount knob on door
Plane 2 – inch by 11 – inch white oak to $\frac{3}{8}$ – inches thick
Use flag template to mark flag
Cut and sand flag to shape
Drill $\frac{1}{4}$ - inch hole in flag for pivot
Plane 3 – inch by 10 – inch white oak to $\frac{7}{8}$ – inch for flag block
Bevel top edge of flag block to 45 – degrees to shed moisture

Sand rounded corners on flag block

Drill (5) mounting holes on flag block to attach to box, countersink

Drill (2) peg holes on flag block

Drill pivot hole on flag block

Use $\frac{3}{4}$ - inch Forstner to allow for washer and nut on front of flag block

Use $\frac{3}{4}$ - inch Forstner to allow for washer and nut on back of flag block

Prime box twice

Prime door twice

Prime flag block twice

Prime flag twice

Paint box twice

Paint door twice

Paint flag block twice

Paint flag twice

Assemble flag to block with screw, (2) stainless nuts and (2) stainless washers and one stainless fender washer

Tighten nuts to allow flag to pivot without turning the screw

Align flag block on side of box

Drill through mounting holes into box

Mount flag block with (5) stainless screws

Drill door hinge #20 on door for 6 x $\frac{1}{2}$ - screws and #6 on base for 8 x $\frac{3}{4}$ - screws

Cut stainless strap to 5 $\frac{3}{4}$ - inches

Cut weather stripping to 5 $\frac{3}{4}$ - inches

Use template and metal punch to mark strapping

Drill strapping with #25 bit

Drill pilot holes in door and attach hinge with 6 X 1 $\frac{1}{2}$ - inch stainless screws

Drill pilot holes in base and attach hinge with 8 x $\frac{3}{4}$ - inch stainless screws

Drill pilot holes and mount strapping with weather stripping with 6 x $\frac{3}{4}$ - screws and #8 washers