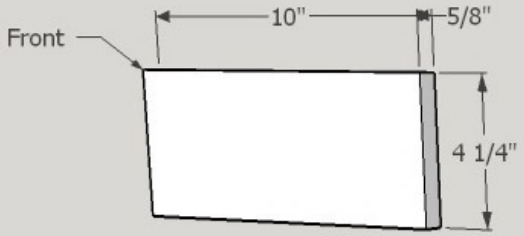
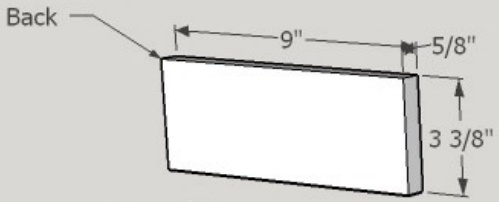
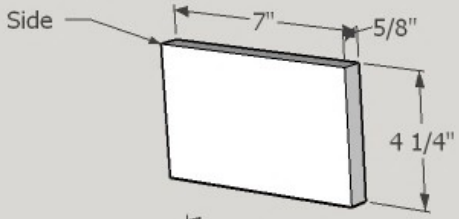
TREASURE CHEST

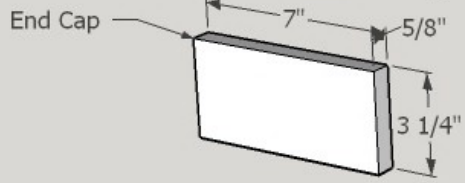
DRAWING 1: PRE-MILLED PARTS

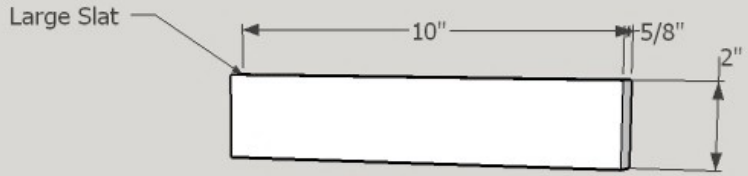
All surfaces should be sanded with 120 grit sandpaper either before or after assembly. However, it's not necessary to ease the sharp corners as they will be rounded or bevelled later.

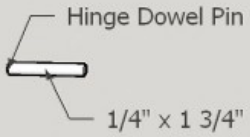


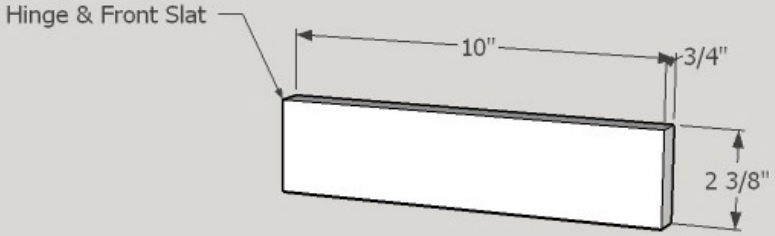


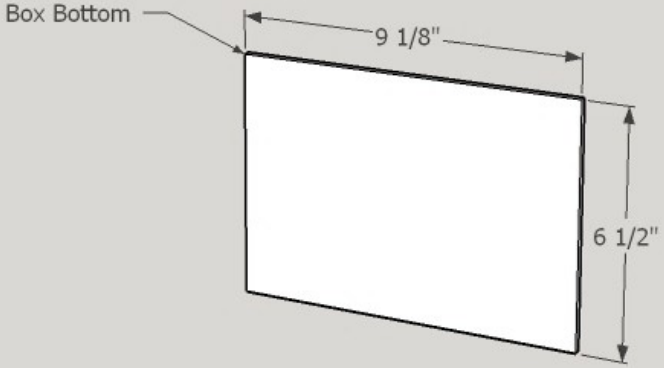










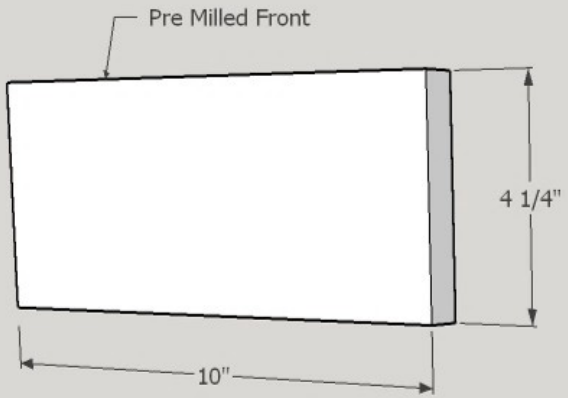


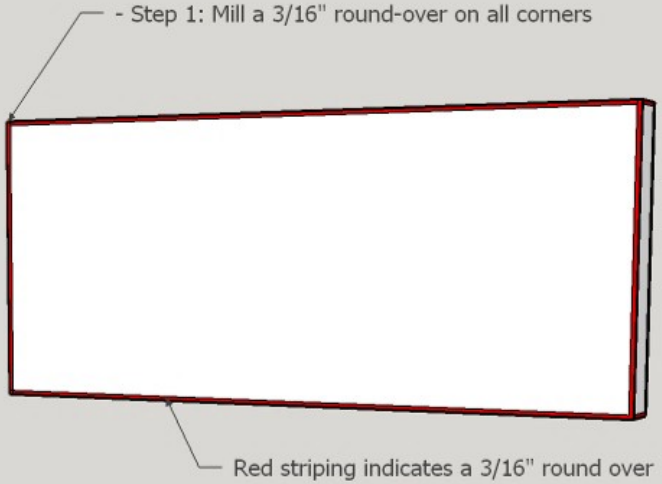
Thickness:
Box Bottom - 1/4" Plywood
Hinge & Front Slat - 3/4"
All other parts - 5/8"

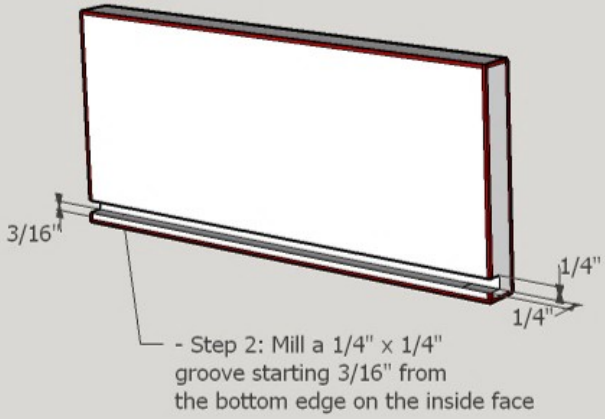
Quantity per TC
Front - 1
Back - 1
Side - 2
End Cap - 2
Large Slat - 5
Hinge & Front Slat - 1
Box Bottom - 1
Hinge Dowel Pin - 2

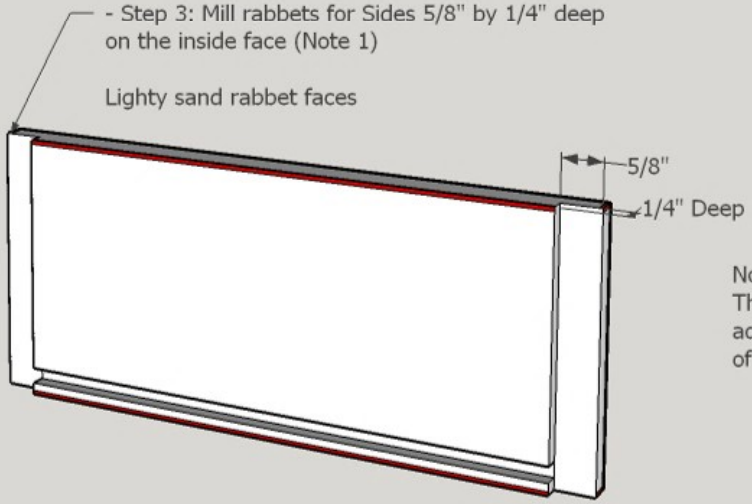
TREASURE CHEST

DRAWING 2: FRONT





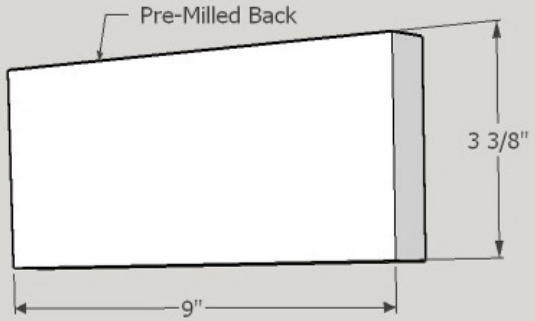


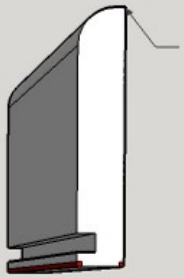


Note 1:
The 5/8" dimension should be adjusted to equal the thickness of the Sides.

TREASURE CHEST

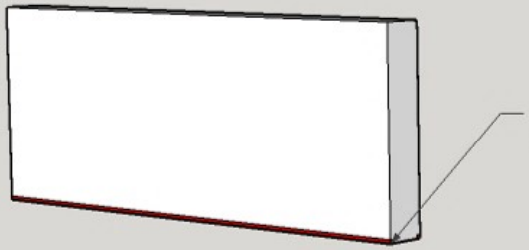
DRAWING 3: BACK



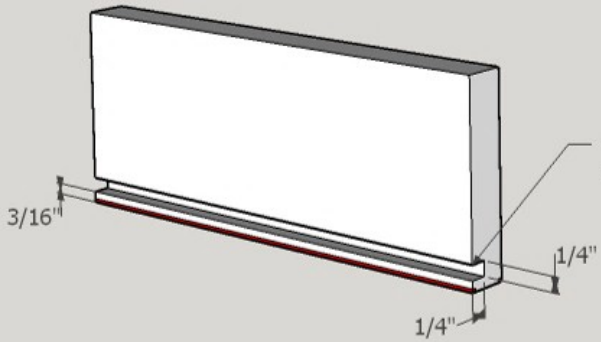


- Step 3: Mill a 1/2" round-over on the inside top

Ease the sharp edge with sandpaper



- Step 1: Mill a 3/16" round over on both bottom corners

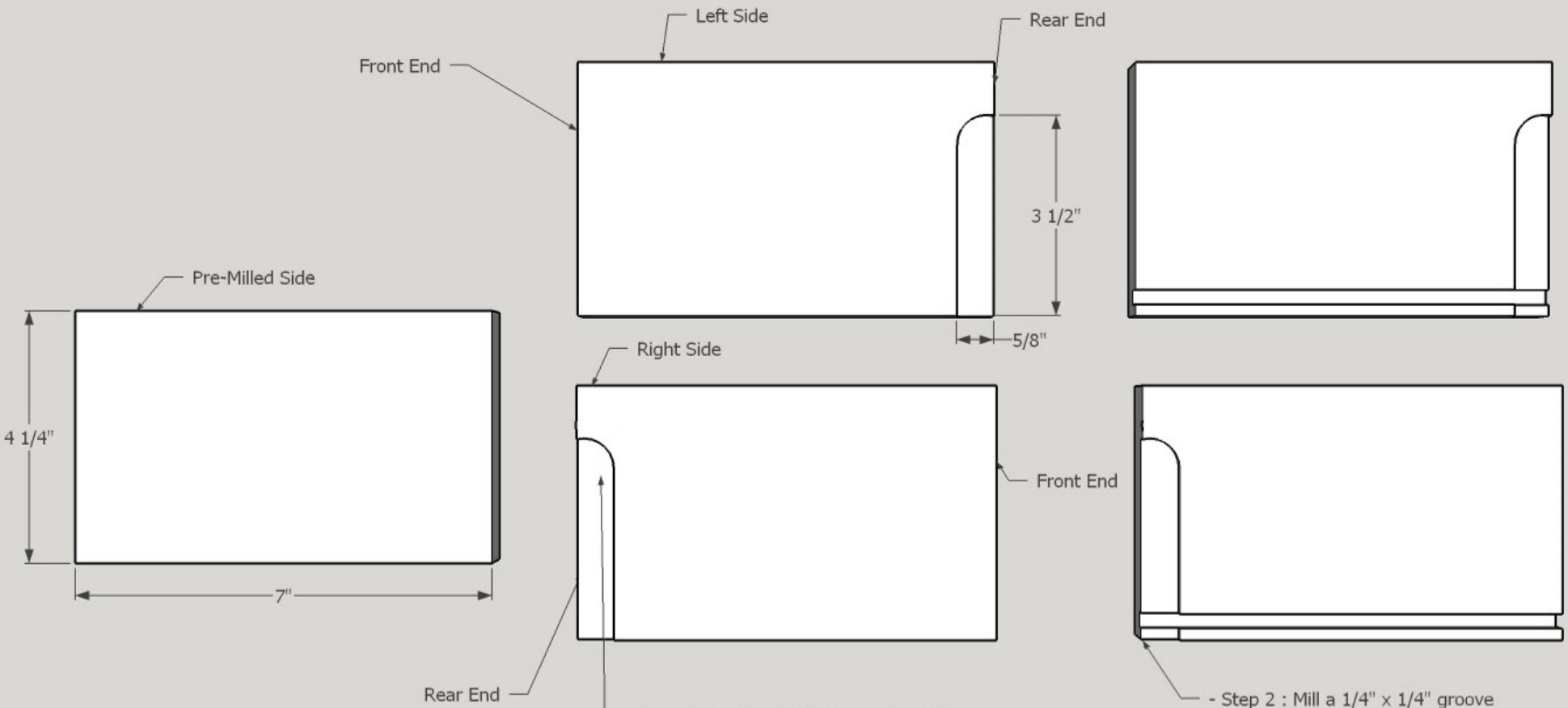


- Step 2: Mill a 1/4" x 1/4" groove 3/16" from the bottom on the inside face

TREASURE CHEST

DRAWING 4A: SIDES

NOTE: The two sides are mirror images of each other.



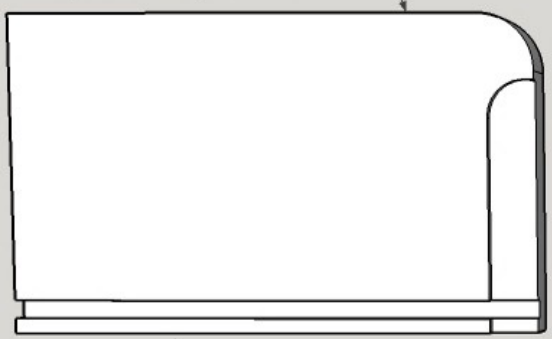
Note 1:
The 5/8" dimension should be adjusted to equal the thickness of the Back.

Lightly sand rabbet faces

TREASURE CHEST

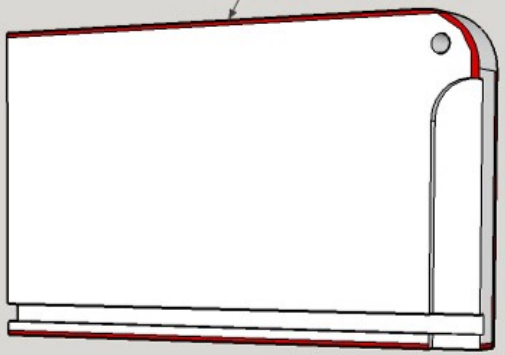
DRAWING 4B: SIDES

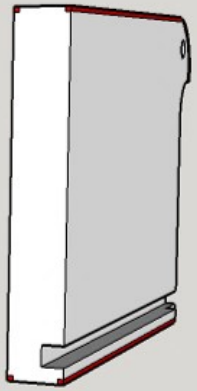
- Step 3: Round over the top back corner of both Sides using a 3/4" round over bit. It may take more than one pass to safely mill this.



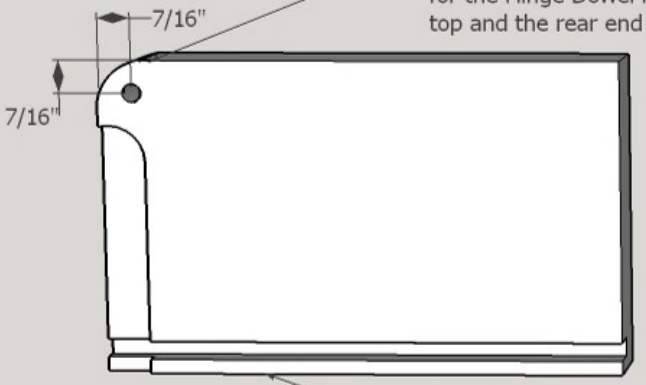
Left Side

- Step 5: Mill 3/16" roundover along all corners as shown

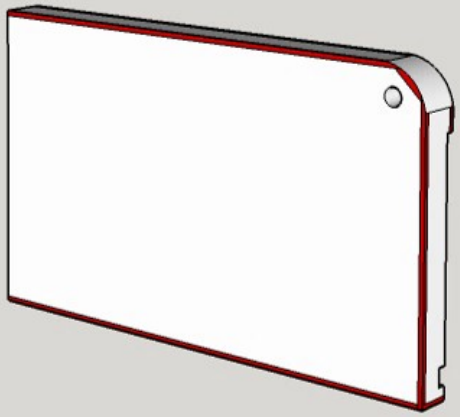




- Step 4: Drill a 1/4" hole in both Sides, for the Hinge Dowel Pin, 7/16" from the top and the rear end

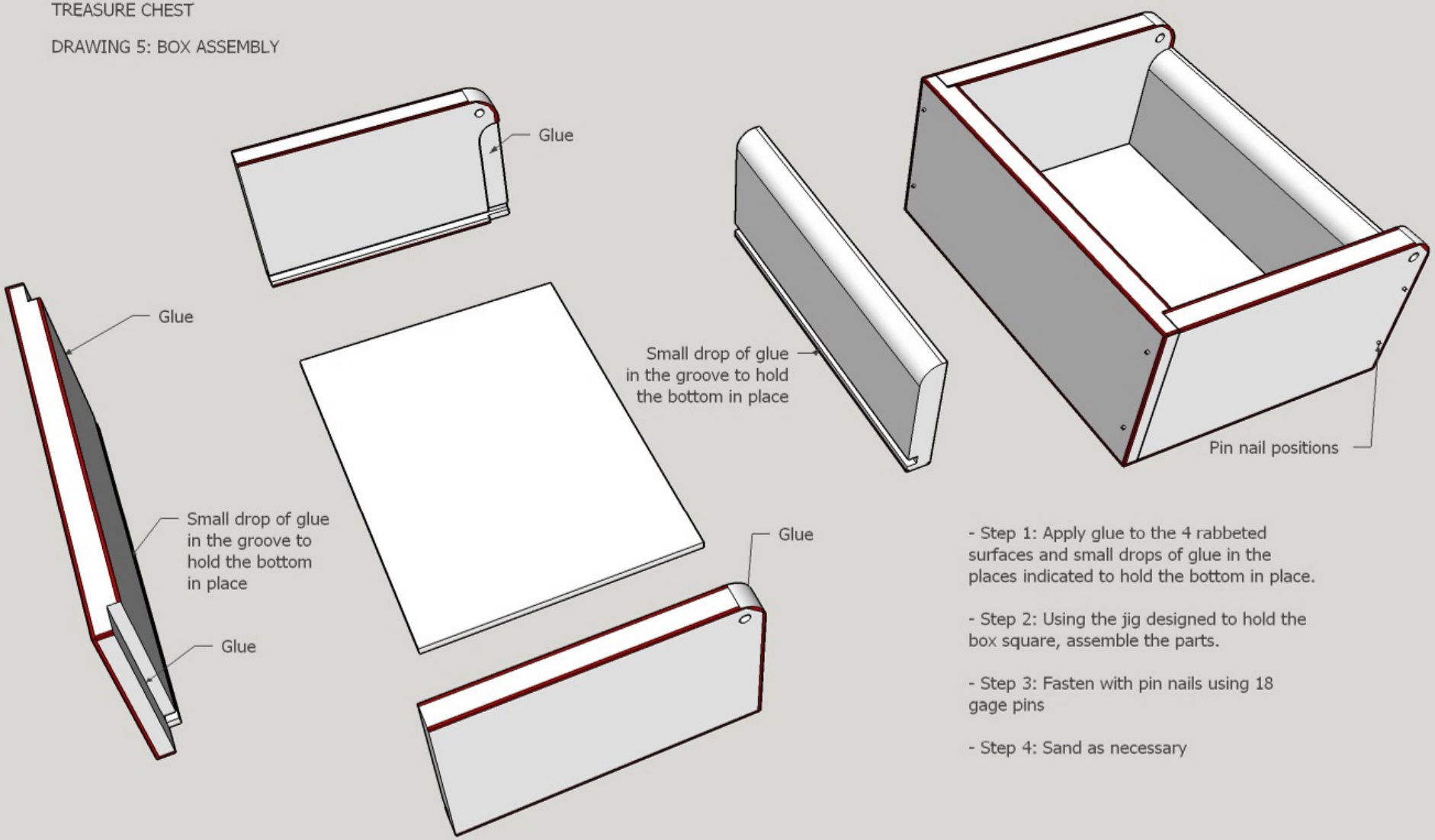


Right Side



TREASURE CHEST

DRAWING 5: BOX ASSEMBLY



- Step 1: Apply glue to the 4 rabbeted surfaces and small drops of glue in the places indicated to hold the bottom in place.

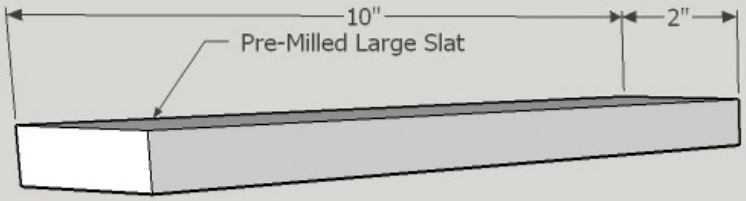
- Step 2: Using the jig designed to hold the box square, assemble the parts.

- Step 3: Fasten with pin nails using 18 gage pins

- Step 4: Sand as necessary

TREASURE CHEST

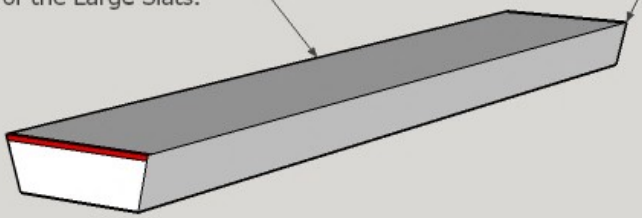
DRAWING 6A: LARGE SLATS



- Step 1: Mill a 3/16" round-over on the top of both ends of the Large Slats.

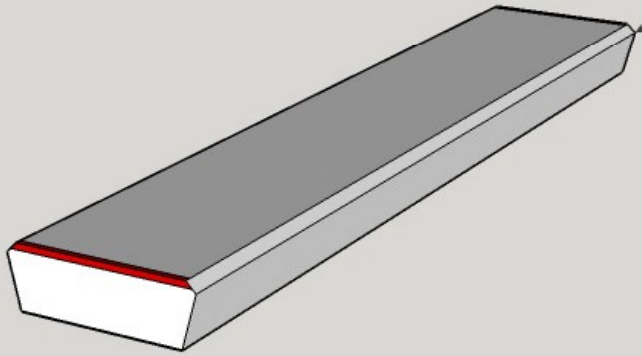
- Step 2: Mill a 15-degree bevel on both sides of the Large Slats.

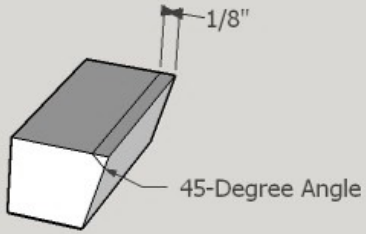
Sand as necessary



- Step 3 : Mill a 45-degree bevel on both angled ends of the Slats per the dimensions shown below.

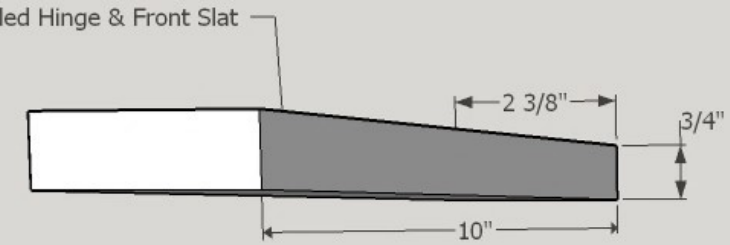
Sand as necessary



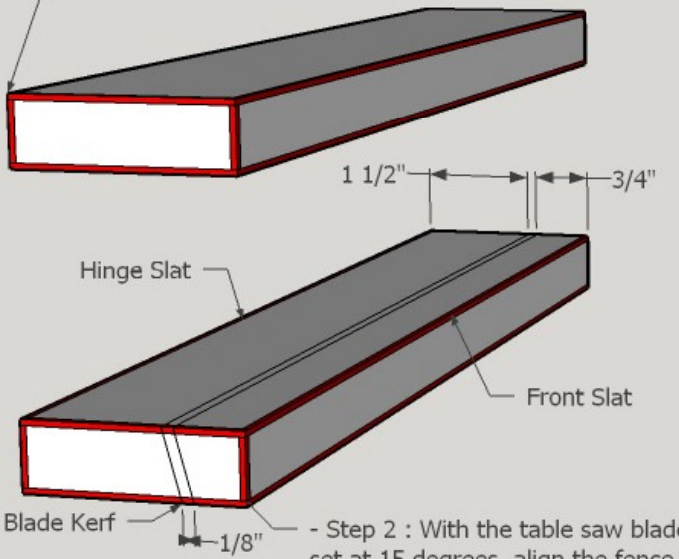


TREASURE CHEST

DRAWING 6B: HINGE AND FRONT SLATS



- Step 1: Mill a 3/16" round-over on all corners



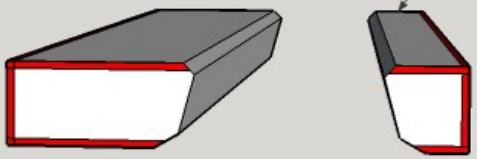
- Step 2 : With the table saw blade set at 15 degrees, align the fence to rip at the distance noted.

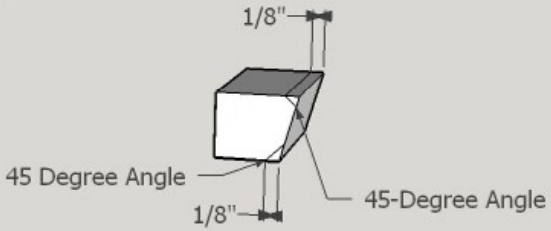
- Step 3: Rip saw the part into the two Slats.

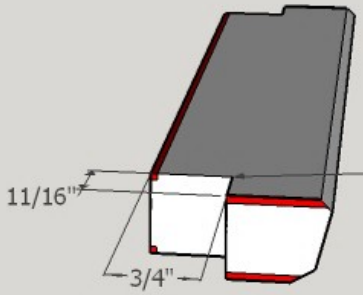
Sand as necessary.

- Step 4 : Mill a 45-degree bevel on both edges of the angled sides of both Slats per the dimensions shown below.

Sand as necessary



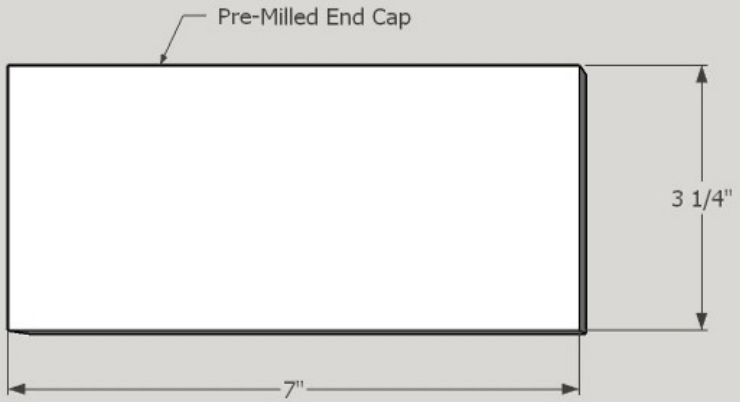




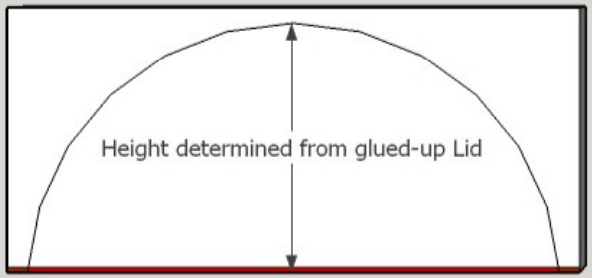
- Step 5: Mill a notch in the non-angled sides of the Hinge Slat to the dimensions shown.

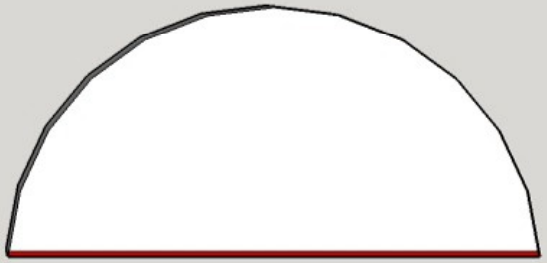
TREASURE CHEST

DRAWING 7: END CAP



- Step 1: 3/16" round-over on bottom corners only





- Step 2: Small variations in wood thicknesses can lead to small changes in the height of the arc.

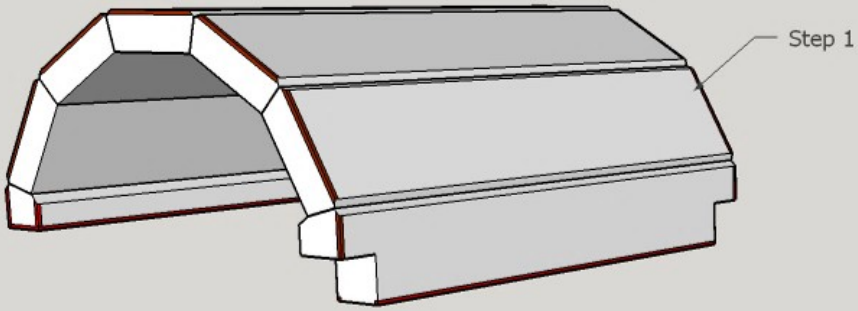
After a Lid has been completed (see Drawing 8, Step 2) the exact height of the arc for the End Cap can be determined

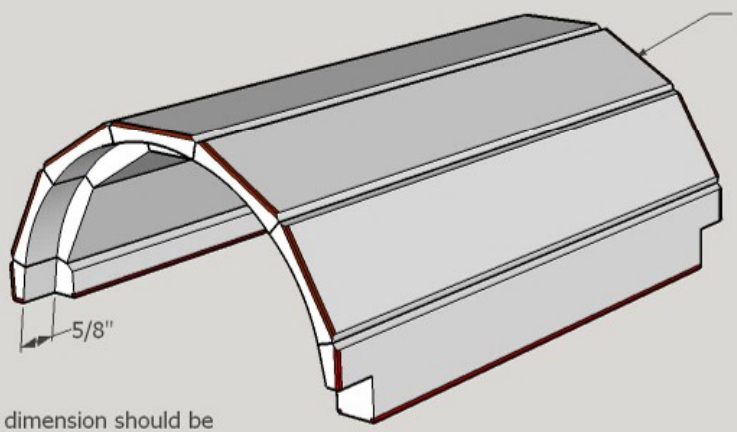
- Step 3: The arc of the End Cap is first cut as close as possible using a band saw or jigsaw

- Step 4: Using the jig designed for this purpose, mill to final dimensions on a router table.

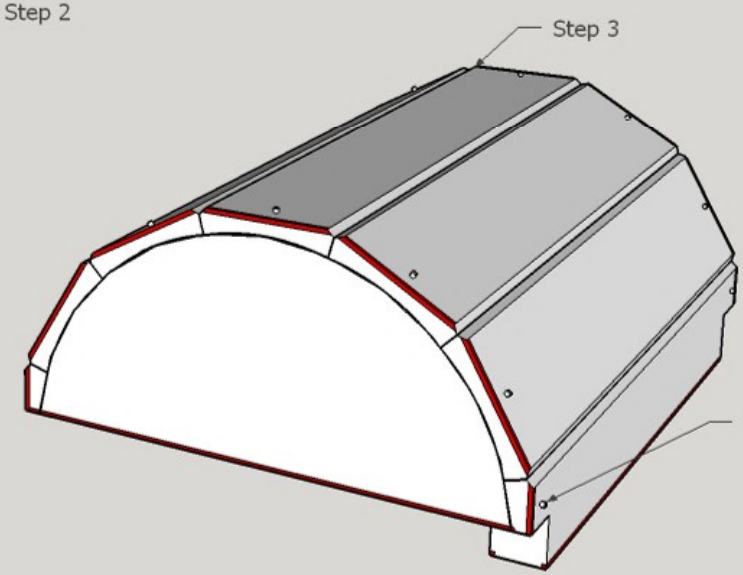
TREASURE CHEST

DRAWING 8: LID ASSEMBLY & MILLING





Note 1:
The 5/8" dimension should be adjusted to equal the thickness of the Sides.



Lid Assembly instructions:
- Step 1: Slats are glued together in the configuration shown using the jig developed for this purpose.

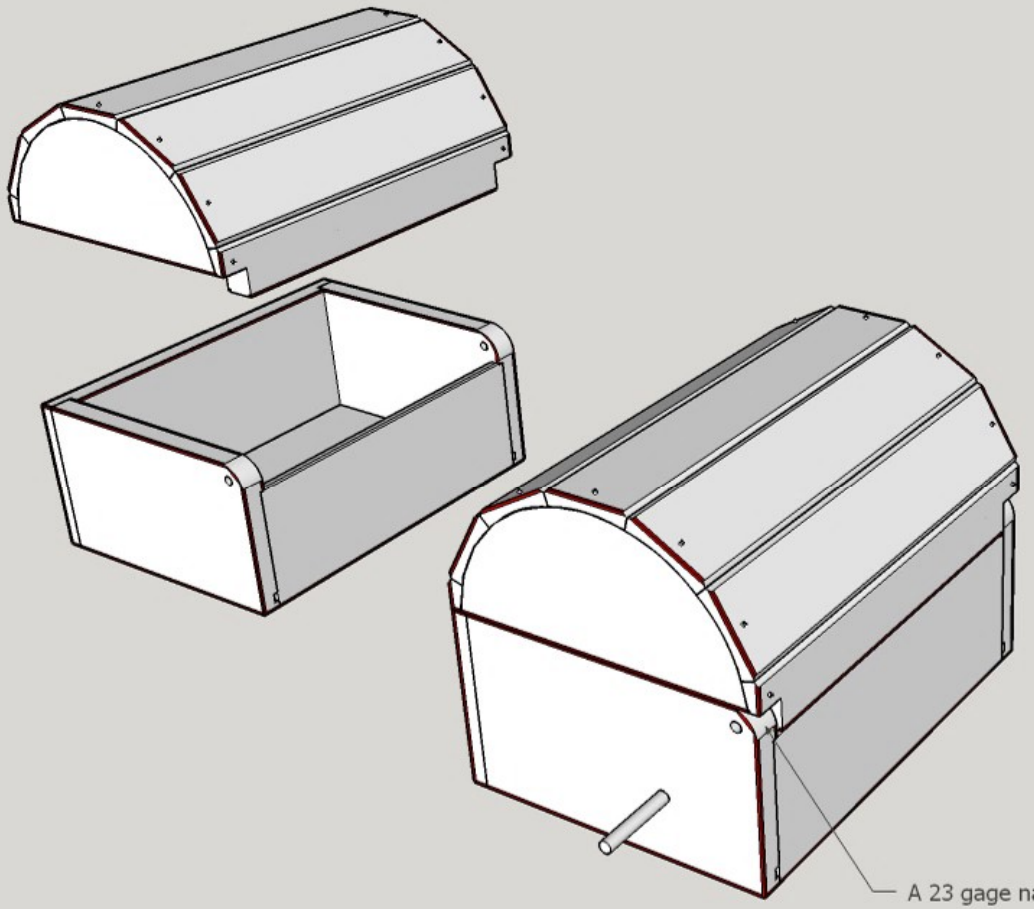
- Step 2: A curved rabbet is routed in both ends of the Lid using the same jig. The rabbet is nominally 5/8" deep but should be milled so the End Cap sits flush with the slats (Note 1)

(Note; This curve is used to set the dimensions of the End Caps, See Drawing 7, Step 2)

- Step 3: End Caps are glued and pin-nailed into the curved rabbet

TREASURE CHEST

DRAWING 9: FINAL ASSEMBLY



- Step 1: Place the lid on the box and align the fronts of the lid and the box using the jig made for this.

- Step 2: Set-up a hand-held drill with a 1/4" drill bit. Set a depth marker on the drill to 1 5/8".

- Step 3: Insert the drill into the hole that has been drilled in one of the sides and drill into the Hinge Slat until the 1 5/8" depth has been reached. Insert Dowel Pin.

- Step 4: Repeat Step 3 on the other side, the Dowel Pins should prodrude slightly.

- Step 5: Using a 23 gage pin nailer, secure the Dowel Pin to the Sides as shown.

- Step 6: Sand the ends of the Dowel Pins flat.

- Step 7: Sand the completed Treasure chest as necessary.

Regarding the Dowel Pins:

We currently use HDPE (plastic) dowels. If wooden dowels are used, an additonal step, slightly enlarging the hole drilled in the Hinge Slat, is required to prevent binding when the Lid is opened.

- Step 4A: Remove the Dowel Pins and lift the Lid off the Box.
- Step 4B: Use a 17/64" or 9/32" drill bit to enlarge the hole in the Lid.