

Rutland & Son Machine Shop.



RIVER LEAF MODELS, LLC

Thank you for purchasing the Rutland & Son Machine Shop kit. Your kit includes everything you need to produce the final assembly. We recommend using “Carpenter’s Glue” available in a number of different brands, including Elmer’s. We also recommend using a steel square for aligning your walls for perpendicularity, although a drafting triangle will also suffice. A sharp X-Acto knife and a sanding tool – either fine sandpaper or a nail file will be suitable.

Step #1 –Glue the Four Wall Together.

Apply Carpenters Glue to the edges of the side walls (B & D). Again, do not use an excessive amount of glue or the glue will seep out the sides. Apply a thin bead of glue and spread it to a thin coat. You may also opt to apply a bead of glue to the inside surface of the front and side walls (A & C).

Carpenters Glue will afford you the time to perfectly align your walls, as there is some “setup” time. I recommend you do one corner at a time in one sitting. This will give you the flexibility to adjust the perpendicularity of the structure. Once you have your walls all secured, I recommend letting the glue dry for 24 hours. While the glue is setting, you can use the roof panel as a checking tool to ensure the building corners are perpendicular. You may want to use clamps positioned with the clamping faces on the front and rear of the building to form a tight glued seal.

On structures made of lighter or less sturdy material, it is common practice to run a square brace tucked into each quarter using 1/4” or 3/8” square wood. On River Leaf Models, this is not necessary; however, the option is there to do so if you wish.

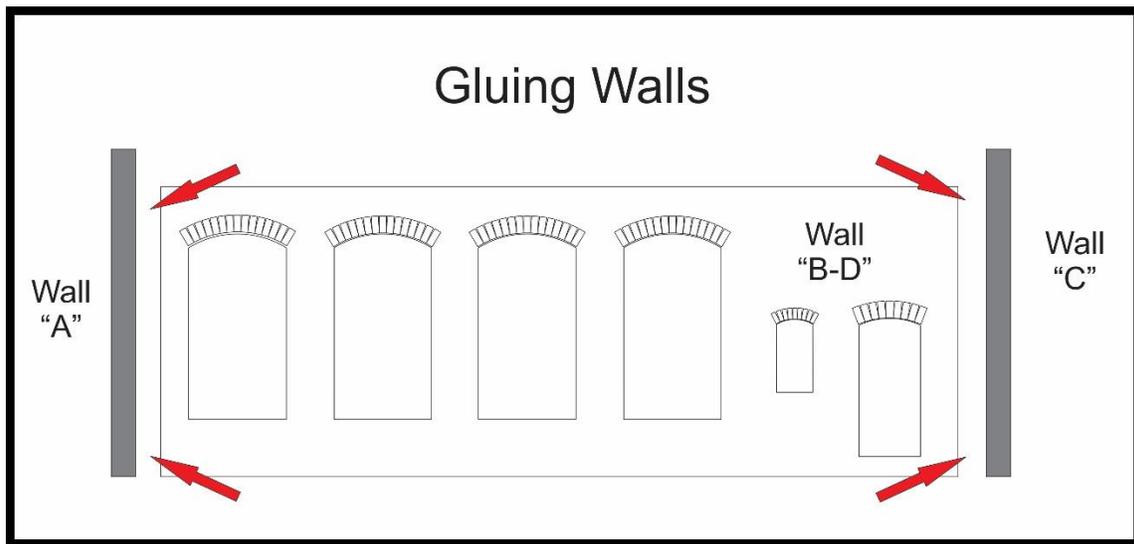


FIGURE 1 – GLUING YOUR STRUCTURE WALLS

Step #2 –Glue the strip of brick facing to the side of the front wall.

The walls of your kit are cut from MDF with the brick pattern etched to the front surface. As a result the side of the wall section of the front and rear of the building (A-C) require adding the brick pattern. As show in the Figure 2, apply the supplied brick pattern strip to the sides of the front wall using carpenter glue.

Be careful to not use excessive amount of glue when applying the strip. Glue will seep from the side. Apply a thin bead down the center of the side surface of the front wall and spread it evenly over the area. Apply the brick pattern strip on the glued area.

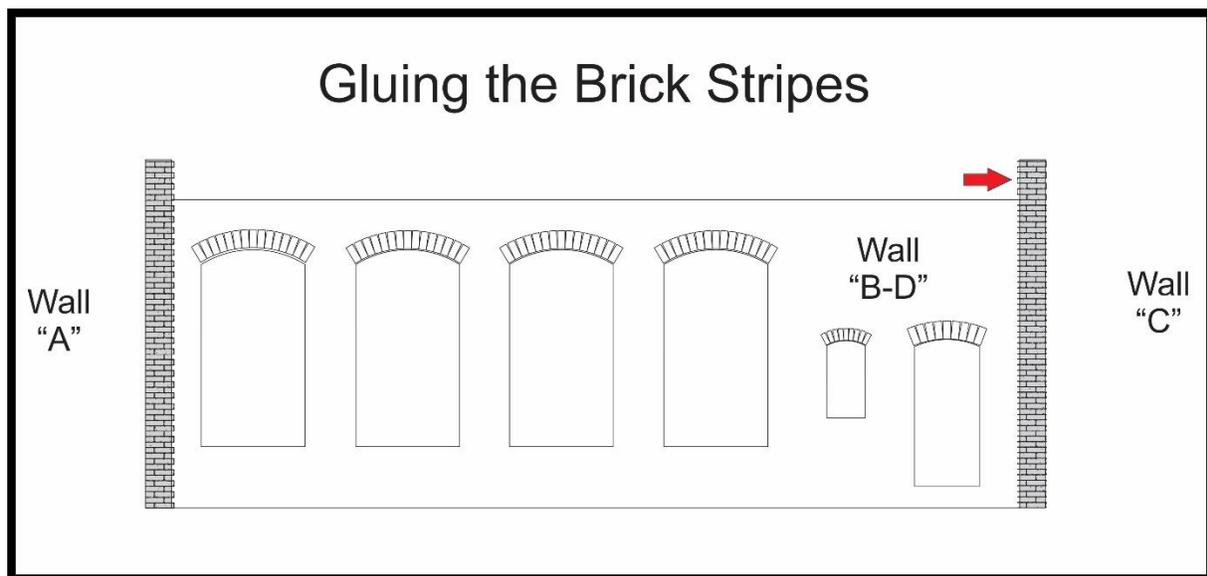
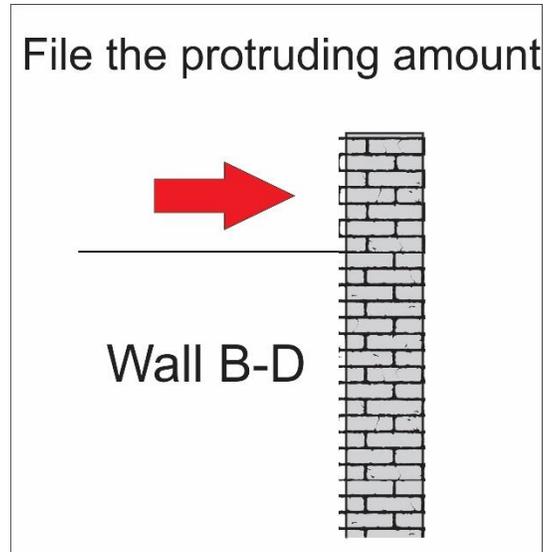


FIGURE 2 – APPLYING BRICK PATTERN STRIP

After the brick stripe dry well file the protruding until flush with the wall. Repeat the process in four corners. This procedure is to allow the roof seat perfectly.



Step #3 - Painting the Base Structure.

There are a number of methods for painting the structure and experienced modelers will find the structure is well suited to any number of painting and detailing techniques. Here is a technique I believe will deliver excellent results.

Acrylic paint is what we recommend and is not necessary to seal or use any type of primer at this point.

Using a sponge roller apply the paint, just painting the brick surface, if the grooves contaminate with paint using a brush you can remove the excess. Uneven tones will make the brick color an old aspect. Let it dry for an hour.

Seal the whole structure using flat clear coat (krylon). Do not over spray because turn glossy.

Be sure the whole four surface were covered completely and let it dry for an hour.

Now your structure is ready for the mortar process.

Using a spackling paste is one of the option. Apply the spackling paste using a flexible spatula, more irregular you apply the paste, the result will be more real. Let it dry few minutes and wipe using a damp cloth. After it dry well you can use many other technique to weatherize the structure.

Step #4 – Assembling the Roof

The skylight opening are not centered along the symmetrical line. The narrow side will be toward the center. Figure #3

Apply small amount of glue on the top of the roof bracket and glue it. The edge brackets are flush with the roof field the other two have to be distributed even for reinforcement.

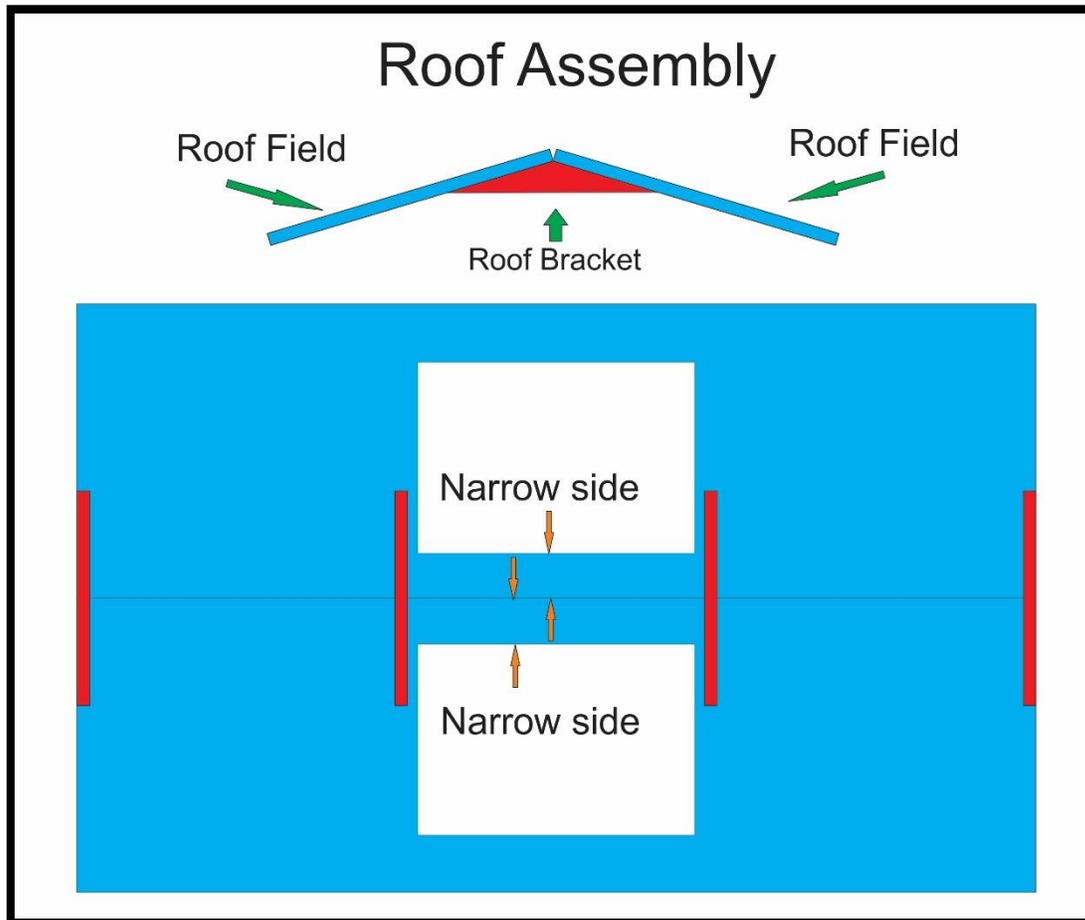


FIGURE 3 – ASSEMBLING THE ROOF

Step #5 – Applying Windows, Doors and Details

After painting, place windows as shown. If you find the fit to be tight, a light sanding on either side should suffice for a good fit. Apply the window glass and insert into wall repeat the procedure with the skylight frame too. The front and side views shown in Figure #4 show window, door and detail placement.

The side and cargo door are precut in case you want to open it.

The cargo door is made from bass good, paint it not using too liquid paint. In case the door bend leave on a flat surface adding some weight to keep it flat until dry.



FIGURE #4 – WINDOW, DOOR & DETAIL PLACEMENT

Step#6 – Coping

Coping are already cut in the installation order. Using a knife remove the pieces, apply a little amount of glue to avoid glue strew and glue it over the end on side walls. The front and side views shows in Figure #4 the coping position.

Congratulations! Your building is complete!

With your building now finished, you may opt to further enhance the structure using weathering techniques such as chalk or misting. Keep in mind weather runs from top to bottom and will be concentrated in areas where water may gather and run off, like around windows. Likewise, you may have weather “splash up” along the base. We will be posting tips on aging and weathering on our website in the near future.

If you have questions on construction or suggestions, please contact us by email at [**riverleafmodels@gmail.com**](mailto:riverleafmodels@gmail.com)

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