

# Tools and Tips:

As you build instructions will show in my many picture manual how to assemble. You can use your own methods as you desire, my results are very good. A smooth, flat work surface is very important and the more space the better.

The photo on left is basic tools needed:

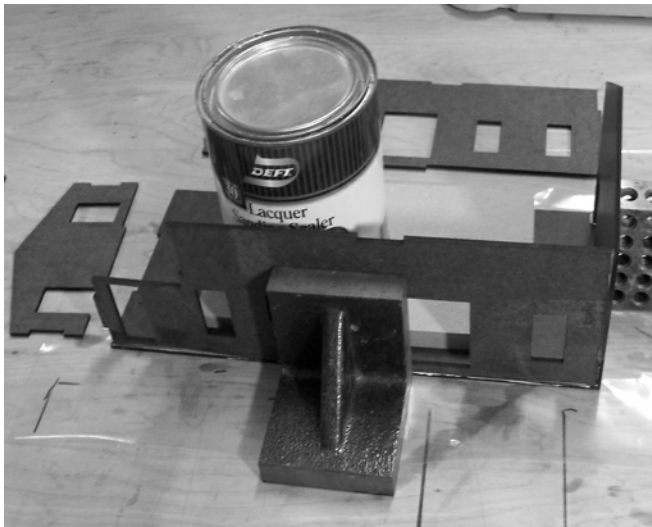
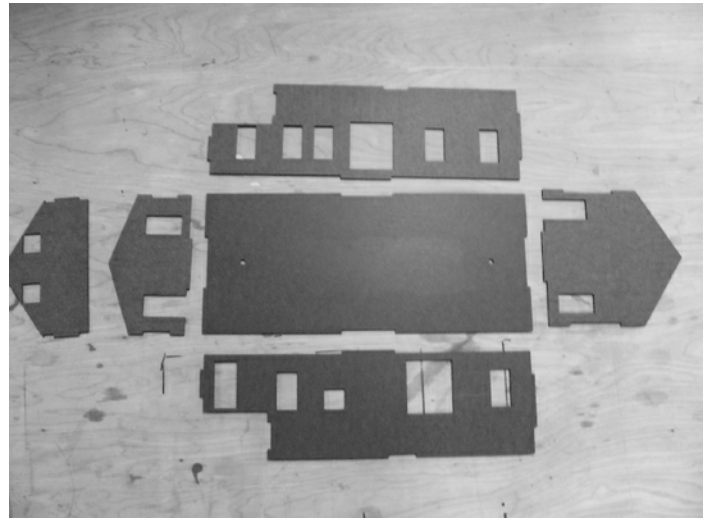
- A square and angle plates, also I use 123 blocks both to square and use as weights while glued parts dry.
- Hobby knives and plenty of # 11 blades
- While majority if not all parts are laser cut some of kits will need parts cut. A zona saw & miter is handy as also a Chopper.
- A assortment of sanding blocks a must to touch up parts and make perfect fits.
- For glues, CA (cyanoacrylate and quick set) white glue, I like Aleene's Tacky Glue. And most important how you apply the glue, not to much but enough to make strong bond. Using syringes for water base glues and needle point applicators on CA a must.
- For clean up q-tips or micro tip brushes work great to clean excess glue.

Most all of these can found at good hobby shop or from Micro-Mark online.

For painting will depend on materials but for wood best to not use water base paints. For best results use Floquil solvent-based enamel. Apply with air brush is best but brushing works also. I will make suggestions when to paint and colors I used for model built. The important thing is to take your time, test fit parts, look over photos before you make the final bond. If ever not sure feel free to contact me for help my advice.

# Reamer & Green Assembly

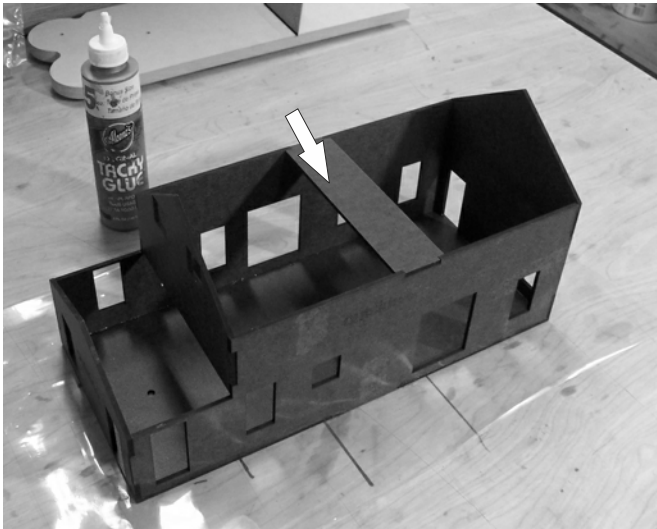
Locate package for assembling main center part of building. This package includes masonite and 1/32 scribed plywood siding. You will be bonding masonite first as parts to right. Inspect and lightly sand edges where it will be bonded.



Use white glue or aleenes tacky glue to bond. Set base down on flat surface with wax paper under. Test fit end wall and side wall as pictured to left. I like to use steel angle plates to keep walls square and hold while glue dries. But not required, any type of weight will do. And or tape.

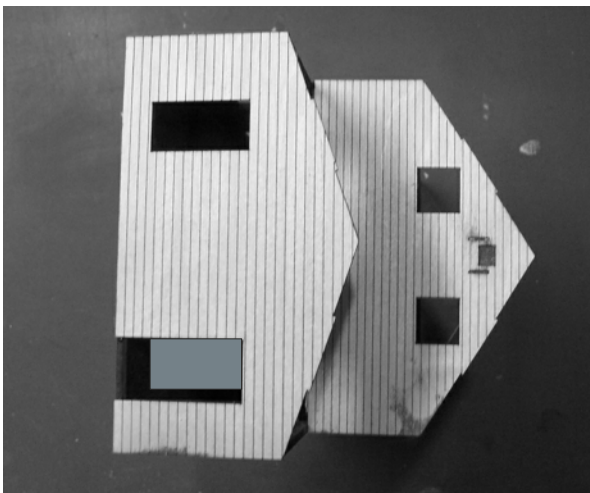
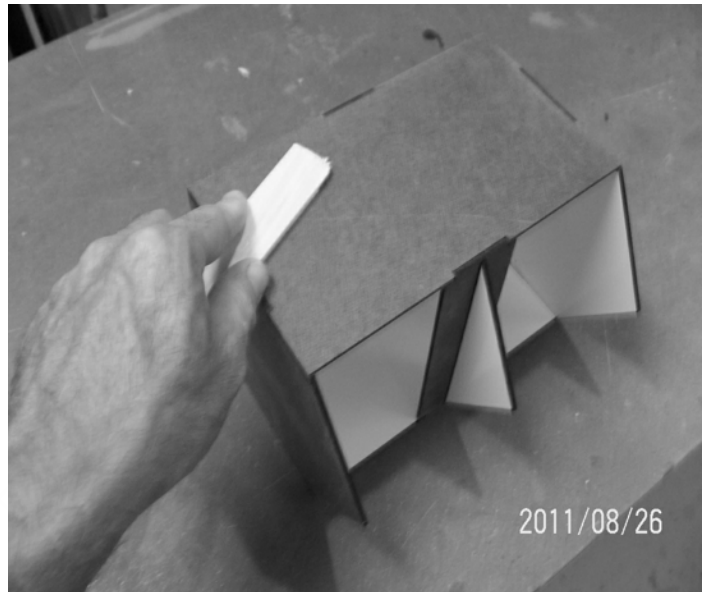
After first two walls dry lay out next walls as pictured to right. Test fit then glue in place. Note that wall marked outside face out. As always wipe up excess glue w/damp towel.





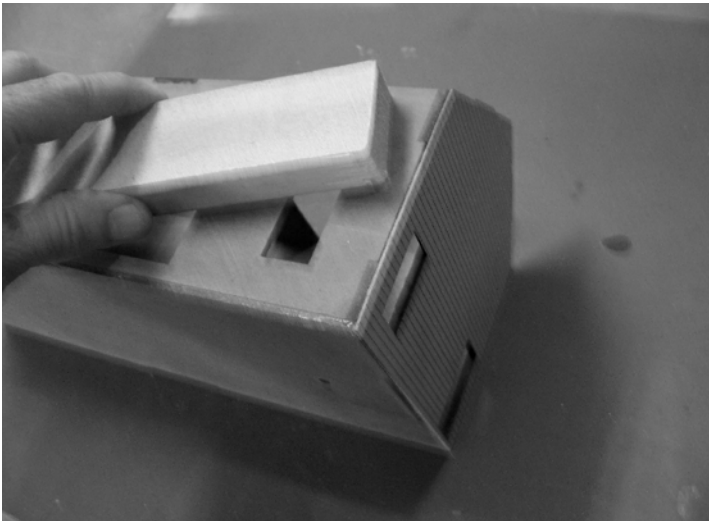
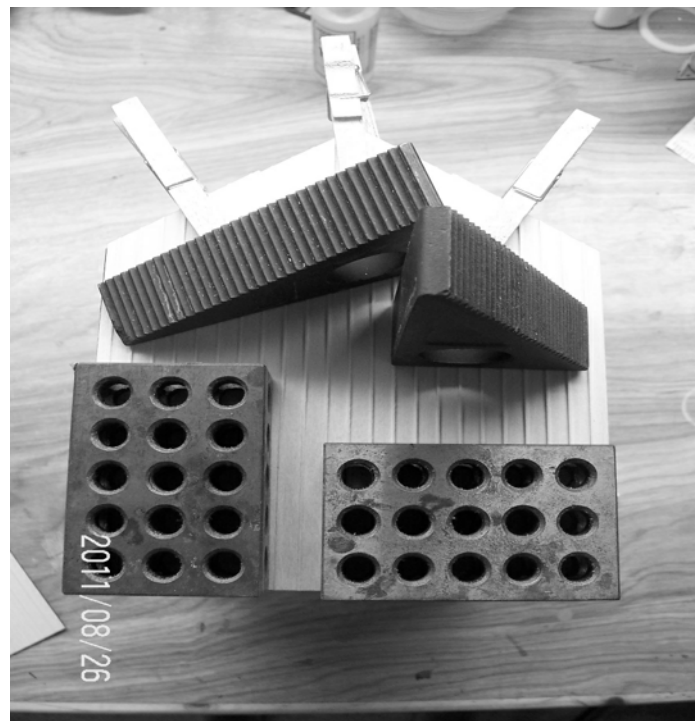
Then bond upper support  
and after walls dry as  
arrow points to on left.  
No shown bond center support.

After main structure dries  
completely sand with  
sanding block 80-150 grit  
Sand all flat surfaces smooth  
and flat. Note this picture is  
from different model but  
shows block being used.



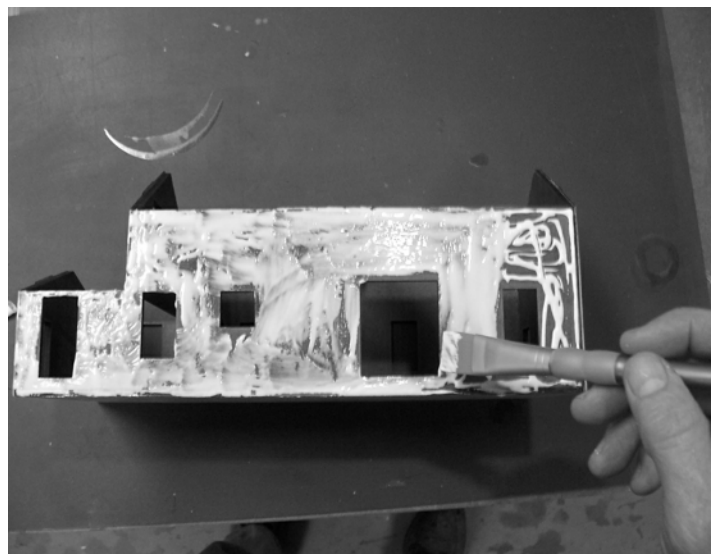
Next locate siding for ends walls  
and bond first. I used Aleenes  
tacky glue, using small brush  
spread over masonite a thin coat  
then center 1/32 plywood on  
ends. I use small flat weights  
to hold down will glue dries.  
Bond both end walls first before  
long sides.

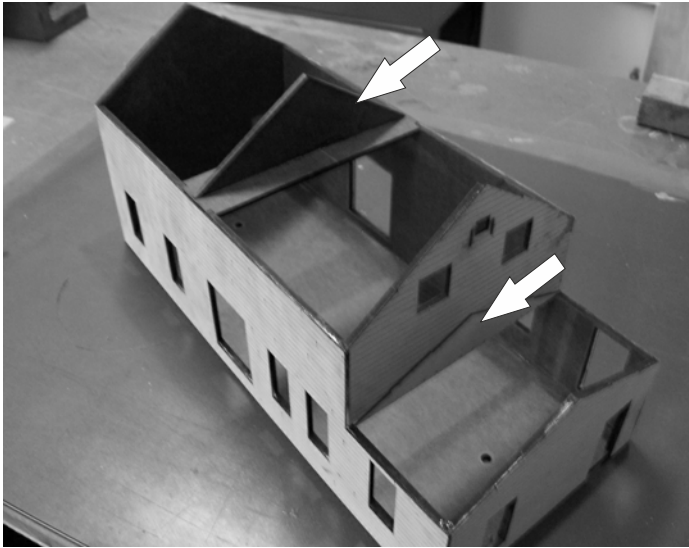
From different project you see here the use of flat weights to hold down siding flat. At top I used clothes line pins to clamp top. Repeat for opposite side. The main thing is bond siding flat and tight up to edge. The edge may over hang a little but will be sanded flush before bonding sides.



Next after ends dry sand sides and bottom flush with tile board. Then clean and test fit sides.

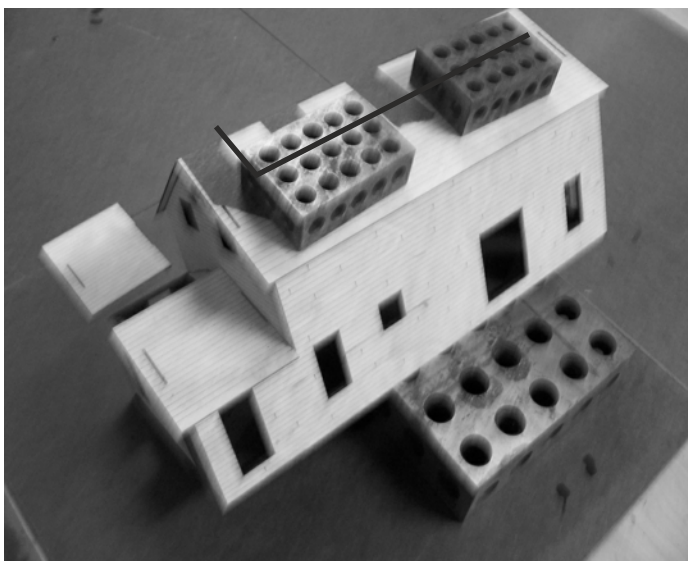
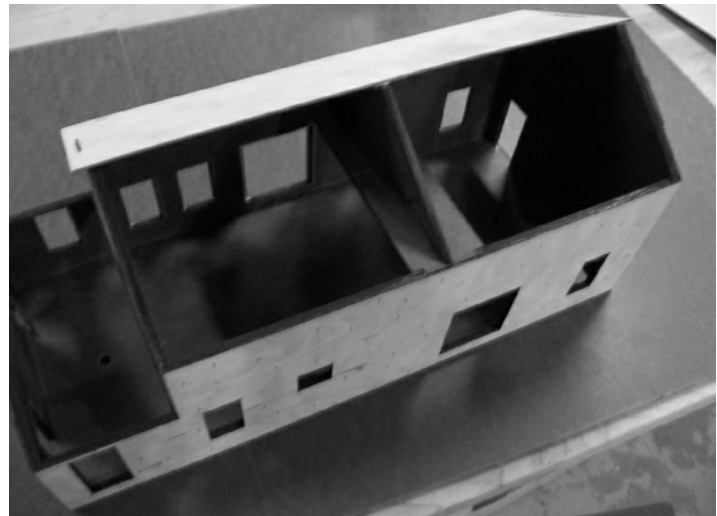
Here we see glue being spread out with brush to bond side wall. Again weight down siding flat and clean up excess glue. bond opposite side next.



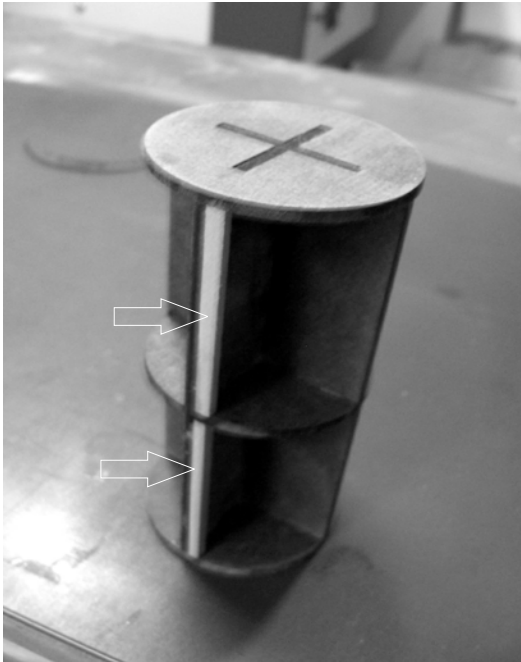


Sand any excess siding flush with sides w/ sanding block.  
Next bond roof support CA can be used here to speed up but be careful not to get on siding.

The last sheets in first package are roof to main building. You will notice scribe marks. These go up and as noted below the direction show be placed.  
Test fit then bond your choice of glue, I use tacky tape and weight on side first. Clean up any excess glue.

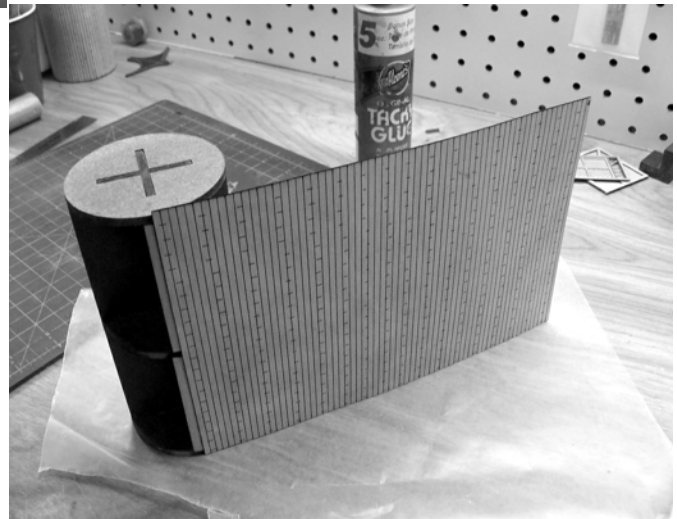


Then test fit and bond rest of roof parts to main roof. Note shingle scribes as to left.



Next assemble silo tower frames from masonite to look like picture. Use Aleenes Tacky glue, when dry lightly sand edges. Then glue vertical basswood strips as pointed out to left, these are where you glue wrapping for siding.

On flat surface start ply wood wrap as pictured. You notice scribes, long go vertical and shorts used for cable locations. Bond to basswood strip as starting point, as pictured to right. Let dry and test before glueing up. Also you will need to purchase 4 3" holes clamp. Or tie wraps work well to hold wrap in place while dries.

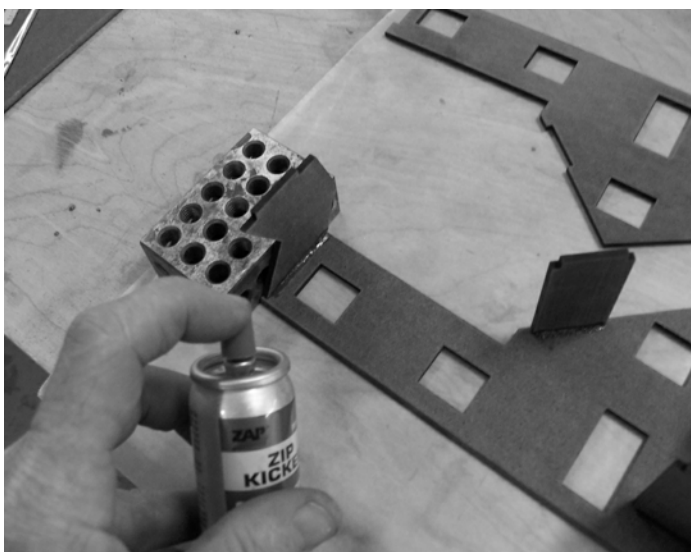
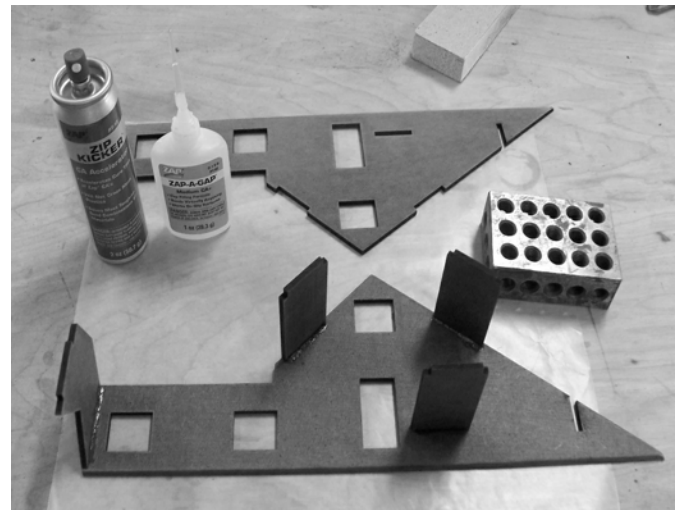


Test before glueing as pictured to right, also adjust your clamps for quick fit. When all makes sense glue up edges of edge frame and roll up plywood siding and clamp.



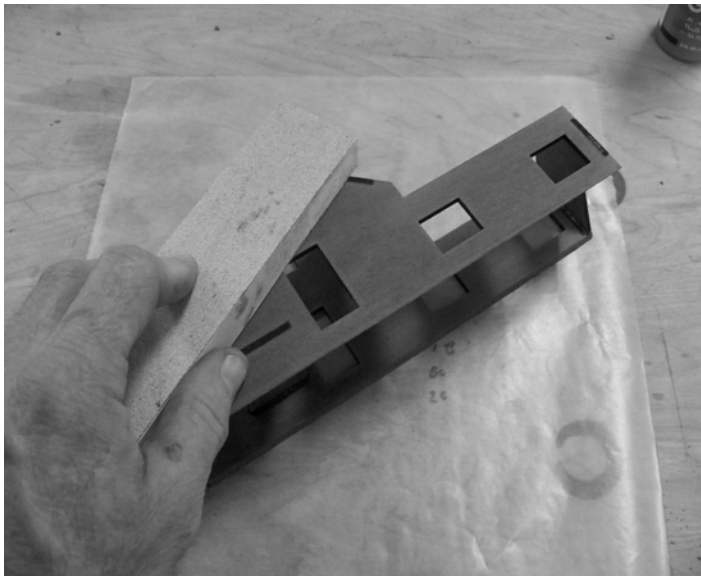
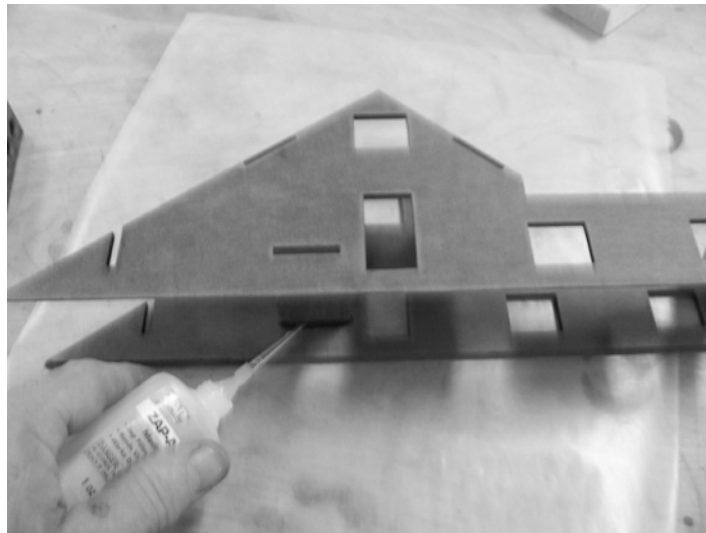
The finished assembly should look as pictured but use 4 clamps for best results. Do not over tighten clamps just snug. Also clean up any excess glue.

Next locate upper structure pack and layout masonite as pictured. I use thick CA here to speed things up and angle or 123 blocks to get parts square.



Here CA accelerator being used, take care to set frames square. Complete one side as pictured, note the wax paper on table top to keep from bonding parts to table top.

Then bond apposite side wall in place.

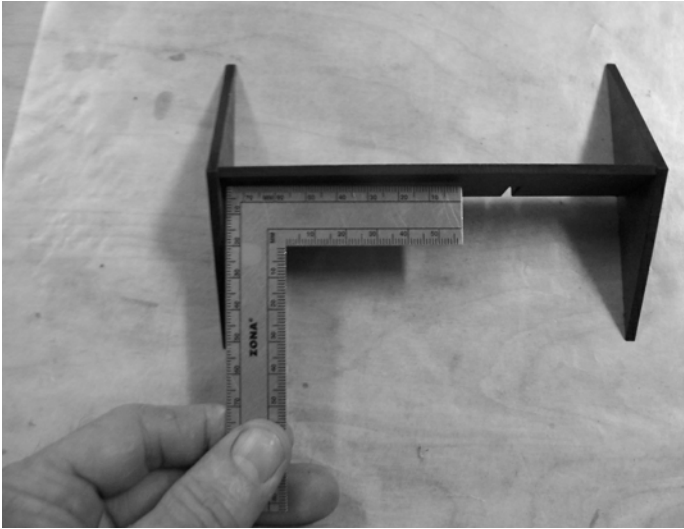


When dry sand all flat surfaces smooth w/ sanding block.

Then bond upper structure to main building. Notice notches by silo end, they should set right at edge of roof. Arrow to right is area of concern. Once fit understood weight down and bond with CA.

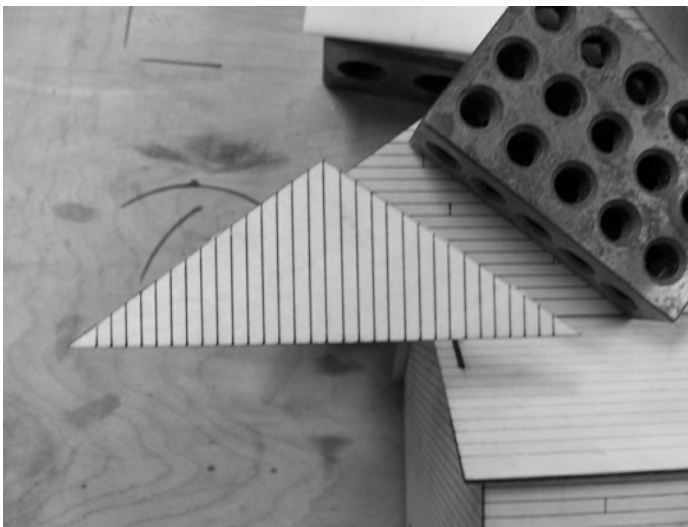
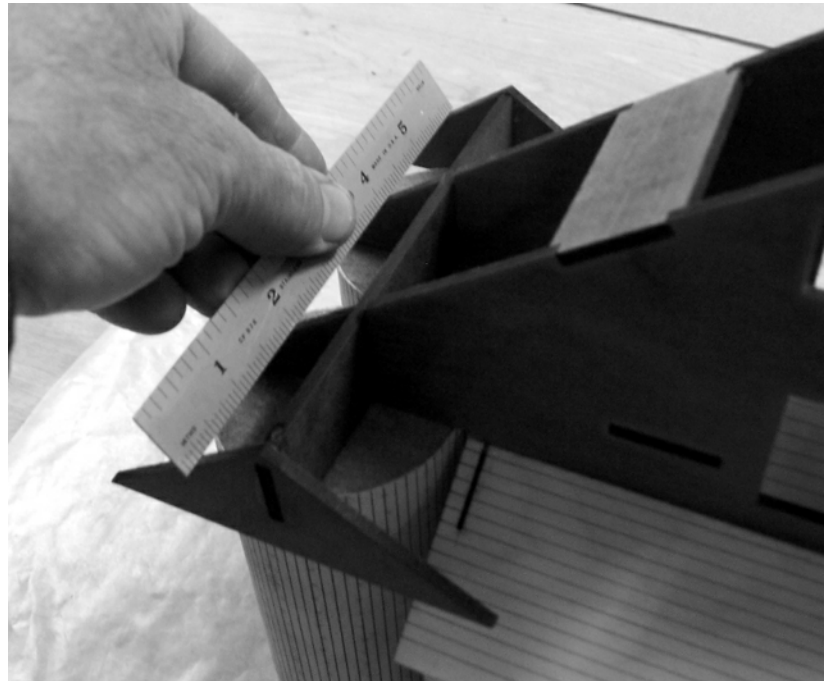




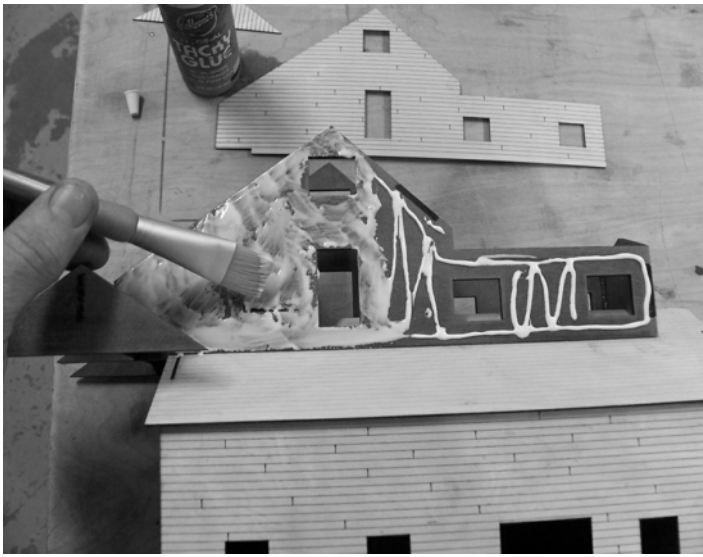


Next bond up silo roof structure as pictured to left. Slots go down on cross brace. Use square as pictured.

Test fit assembly to end tangs, square up and bond with CA. The two triangle vertically scribed plywood end walls can then also be bond to the masonite. Flush the top edges to masonite, the bottom of plywood will hang below slightly.

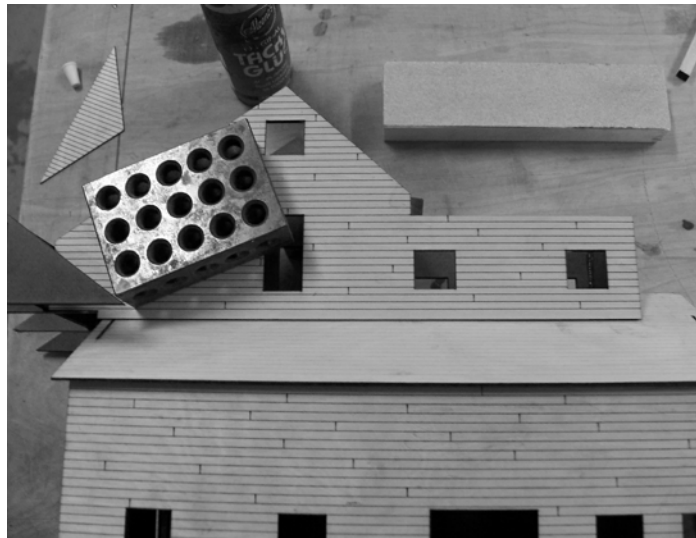


Here we see vertical sides bonded to masonite ends

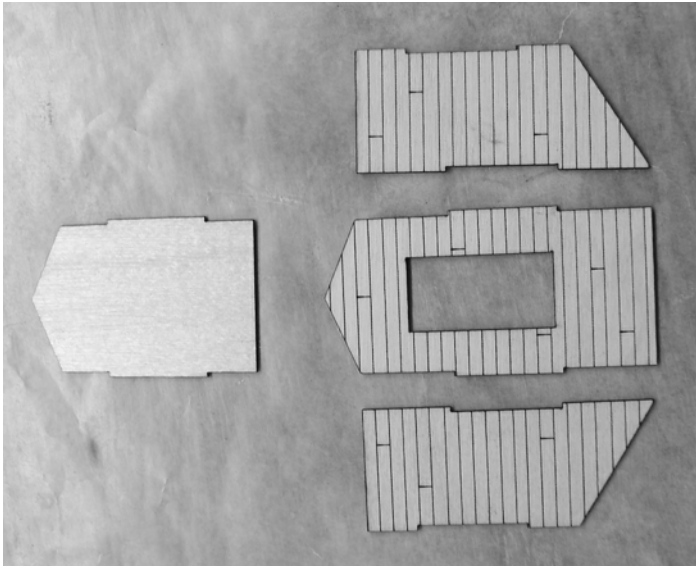


Next bond upper structure siding to masonite. Use tacky glue but white glue OK, also use small brush to smooth out glue.

I use my 123 blocks to weight down siding. But any thing flat to press siding down will work. Also clean up any excess glue with damp towel

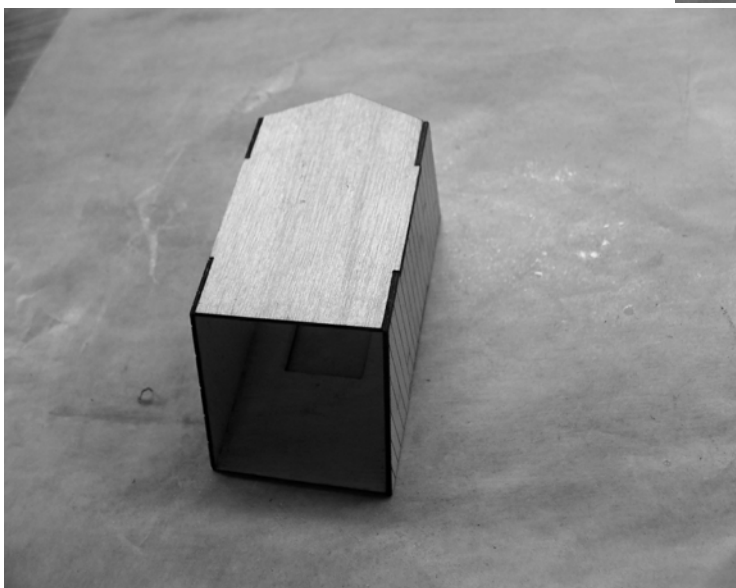
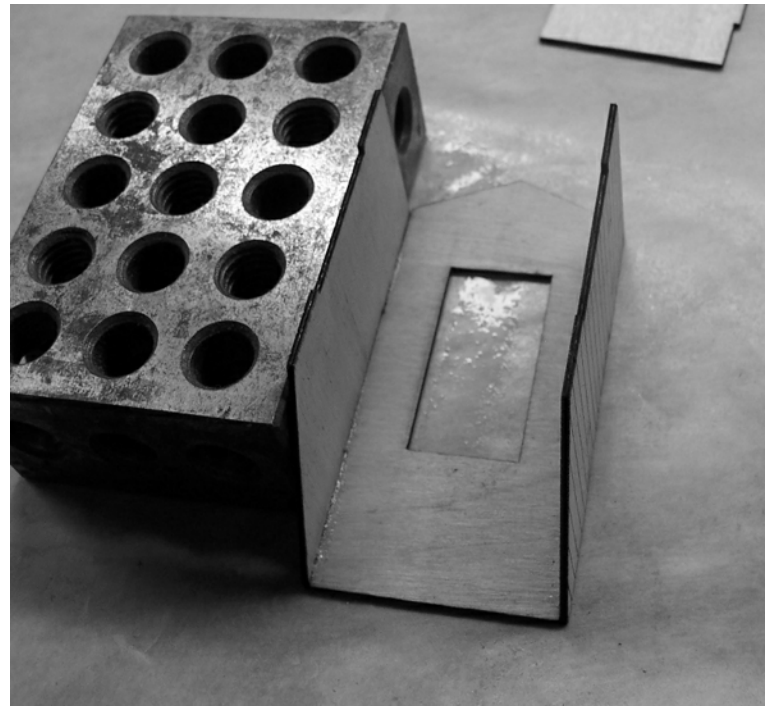


After siding dries sand edges even with sanding block.

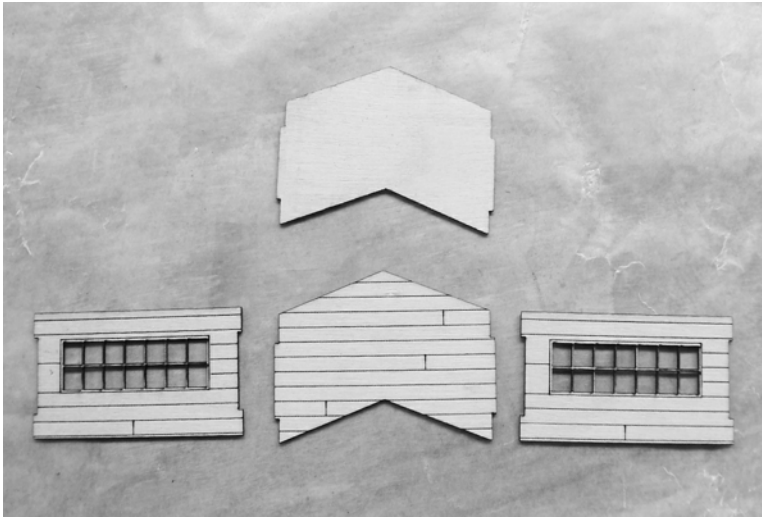


From sheet S-001 cut side copula parts #1 parts.  
Lightly sand edges clean.

With front face scribed wall down bond side walls as pictured to right. Scribes planks to outside and bottom lines angles up to side of upper structure. Using angle or square block to keep things square, use CA here but again be careful not to bond to table or excessive adhesive on planking face.

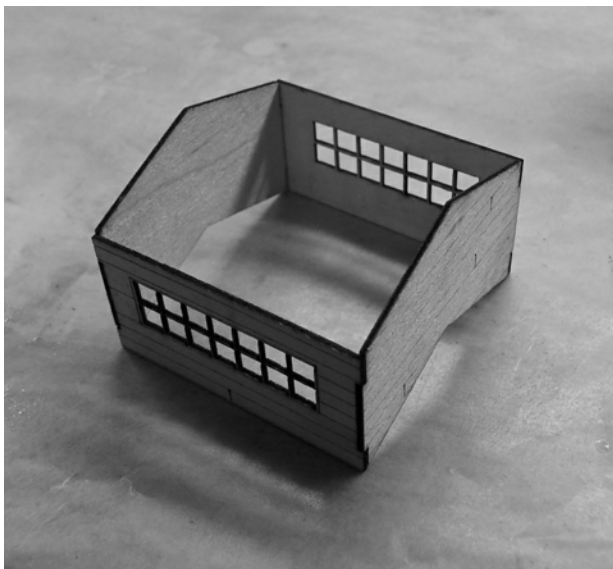
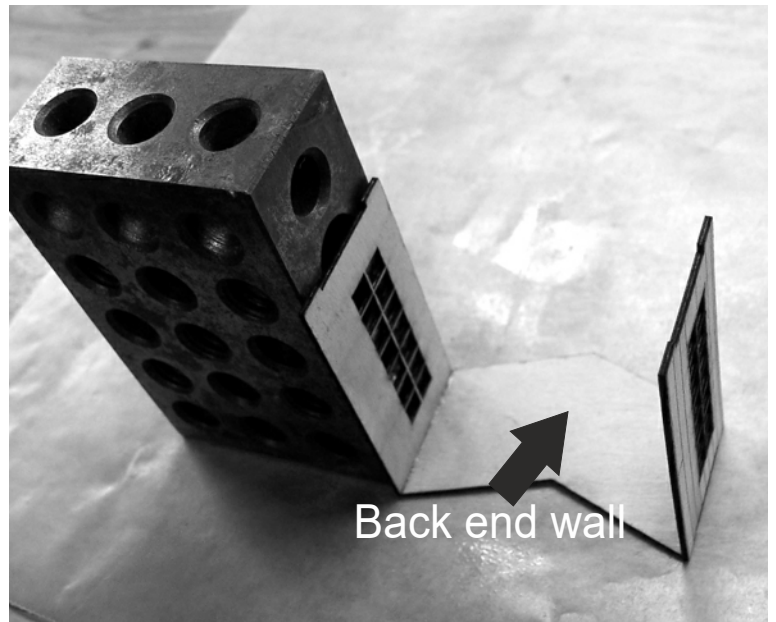


Then bond back wall to tangs



Next locate from sheet S-001 parts located in #2 box. Cut from sheet clean edges.

Place end wall flat on table  
this wall has no scribes  
Set side walls in notches  
short space to top, using a  
square or machine block to  
set square then glue with CA.  
Bond both sides

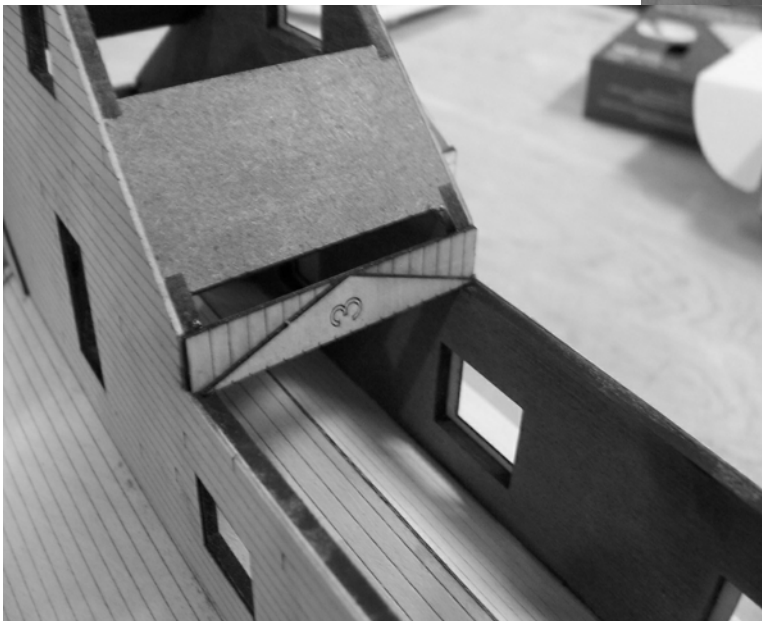


Next bond other scribed end  
planking out. Test fit then glue  
with CA.

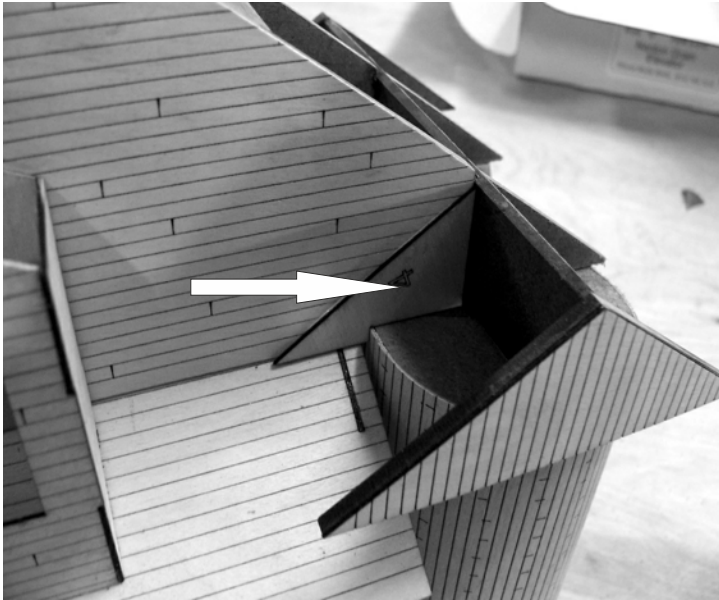


Bond side copula over center of window opening

Bond copula lower main roof area.



From sheet S-001 remove the scribed wall and roof support and bond to open area on upper structure as pictured. CA here is fine.



From sheet S-001 remove parts 4 L&R and bond side wall on upper structure. Test fit checking that top matches peak. Bond both sides CA fine to bond.

Next lets bond roof parts from sheet marked. To left of 1 cut loose lower copula roof. Test fit, lightly sand peak angle so when two meet at top peak to tight. Notice scribe lines for shingles the wide space goes down and is first row laid. Use tacky glue when bonding.



Here roof is complete peak is tight and note scribes for laying shingles in correct location.



Next install roof on side copula. These parts to right of #3 of ROOF PARTS sheet. Same manner as early test fit then bond.

Next bond roof above copulas this is right of #4 on sheet. Test fit, sand peaks tight and bond. You see here I use a needle applicator on syringe to apply glue. Put a fine line down where needed.

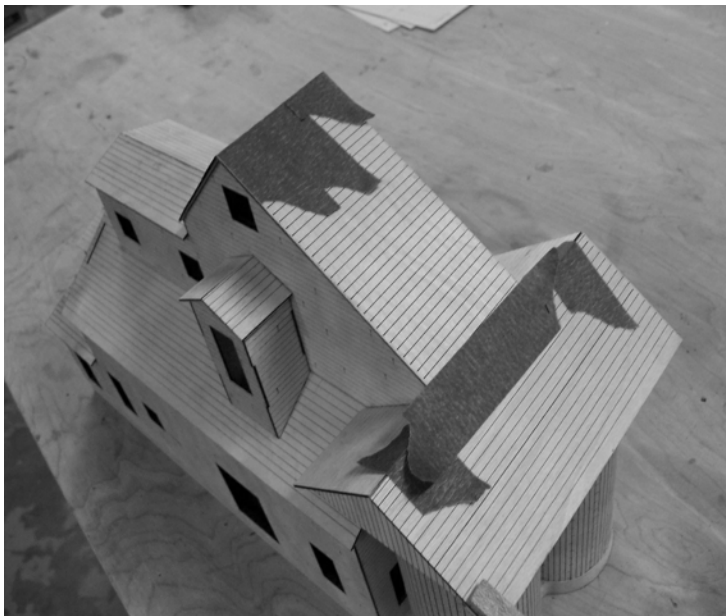


With mini Q-tip clean any excess glue, clean with water to reuse.



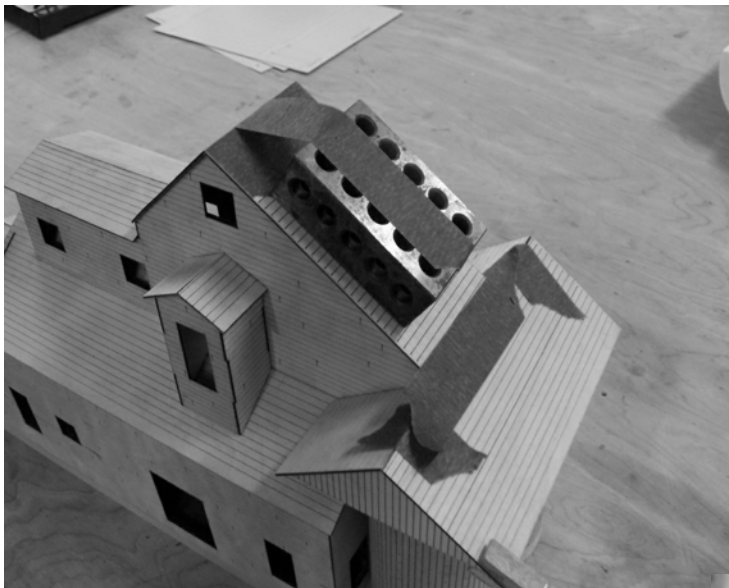
Next remove parts right of #1 and below #5 these are silo roof. You will test the two small sections first, but do not bond as you will remove them to shingle roof. Put a few small drops of tacky glue to temporary hold in place.

Next test fit #5 but do not glue to peak of #1 parts only glue to trusses. You can see I used clothes pins and tape to hold and remember to clean any excess glue on end faces.



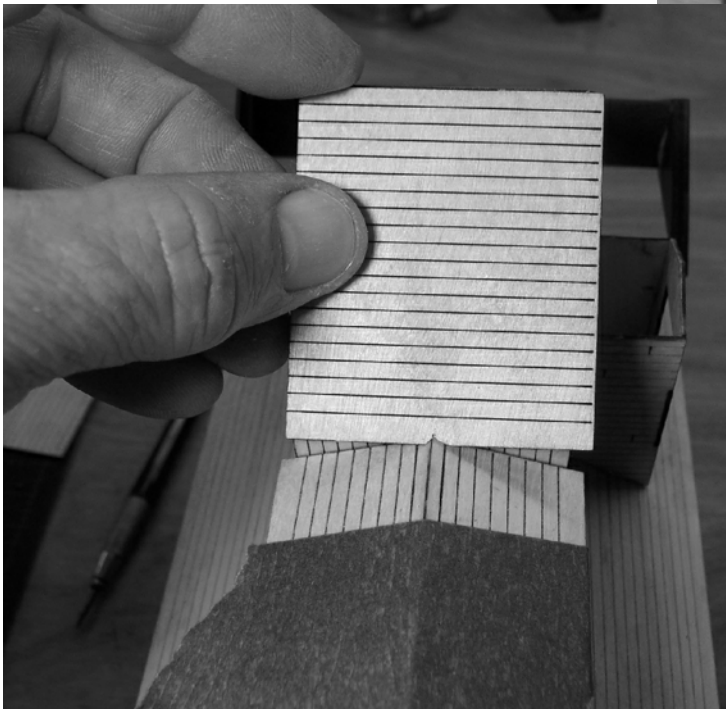
Next bond roof section above silo roof, this to right of #2. test fit so spacing of shingle scribe is equal then bond with tacky glue.





Here you see how the use of a 123 block as a weight to hold roof tight will glue dries. I have 6 of these, they are great to keep things flat and square. MSC or Enco is a machinest supply company that sells these. Very handy.

Remember to wipe any excess glue with q tip. This makes for neat job and is the difference in final out come of job. Take your time, the details make model real.

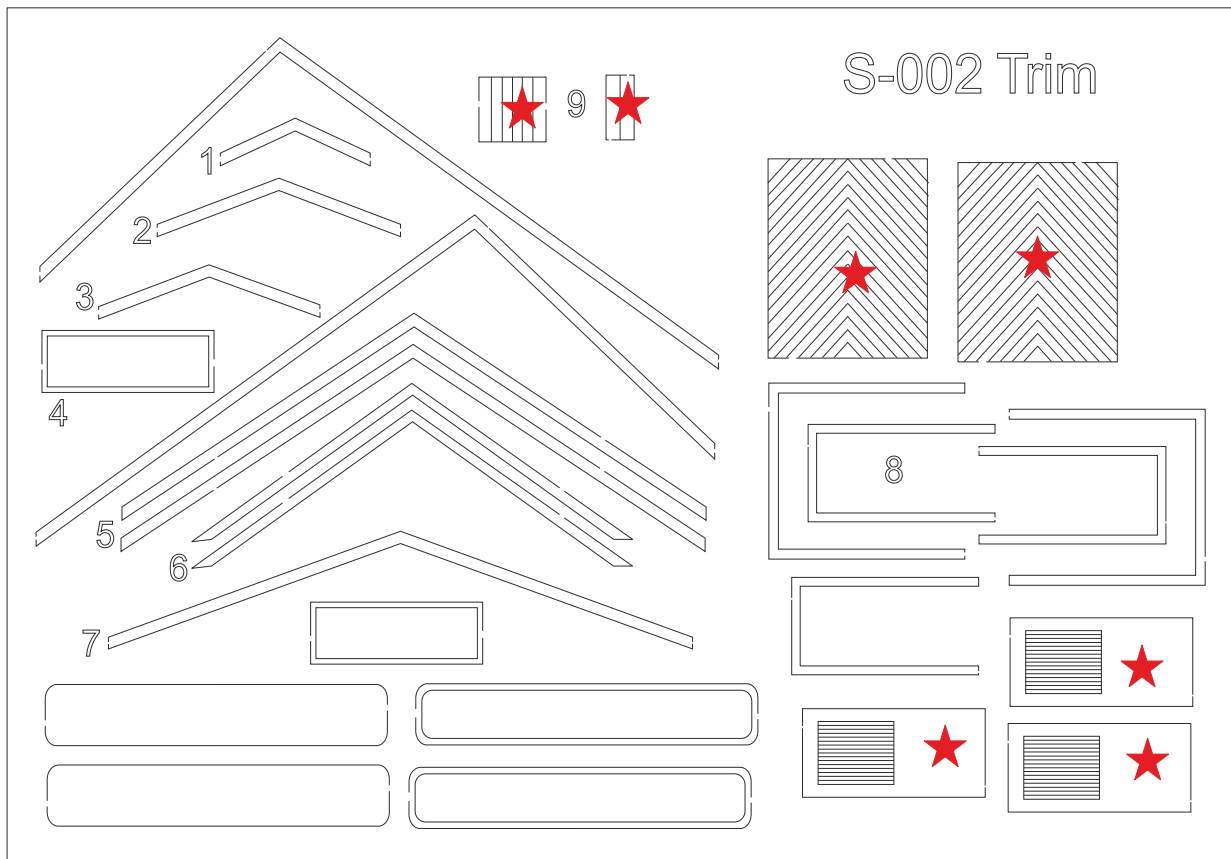


The final roof section left of # 2 is test fit then bonded. At bottom you need to sand notch for better fit. Bond with tacky glue.

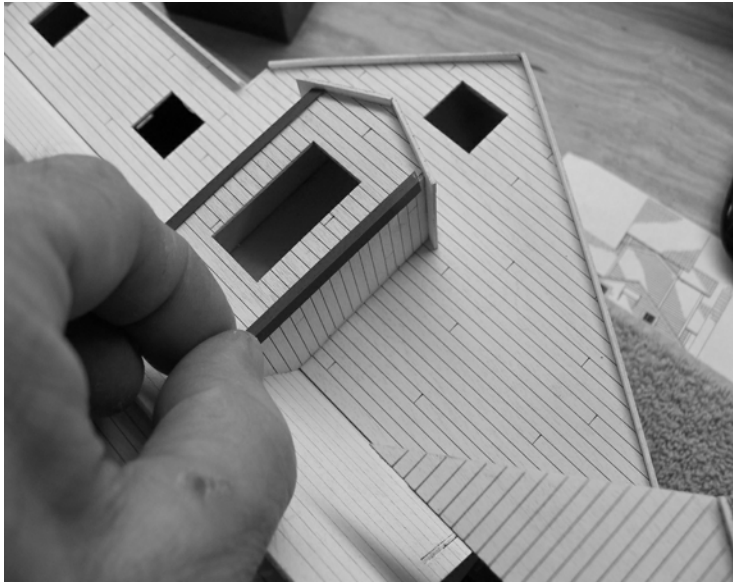


Next step will prep building for painting. I found a light coat of floquil glaze thinned 1 to 1 and sprayed on plywood works well. But before doing so make all edges flushed up, check openings and any defects repair. Using a tooth brush rub in the direction of wood grain is good. But not to aggressive, then with air hose blow all dust off. I use airbrush nearly 100%, spray with reduced glaze allow to dry over night. If don,t plan on two tone scheme then install all trim at this time before painting. Again I use floquil and airbrush for best results, but you may have other methods you desire so will not get into great detail. Please feel free to contact me on advice on additional painting.

Now that main building is painted is time to assemble doors and details. Take note of S-002 trim sheet:



The above parts with red star should be remove before painting trim parts. They are backing of doors and #9 vent parts used later. Paint trim color you desire, I use airbrush . But results fine with brush using floquil. Paint method you desire then let dry over night before cutting from sheet and assembling. Next paint wood angle trim and plastic windows. The large windows I was only able to find in 8 pain glass in S scale so you will need to cut some frames out with #11 xacto blade.



Cut painted trim to fit over and in corners. This part of building kit takes time and care. Cut slightly long and sand to fit. For outside corners of building cut angle to fit under roof and leave a little long. Once glue sand flush with bottom of building. I use Aleenes tacky with a needle point applicator.

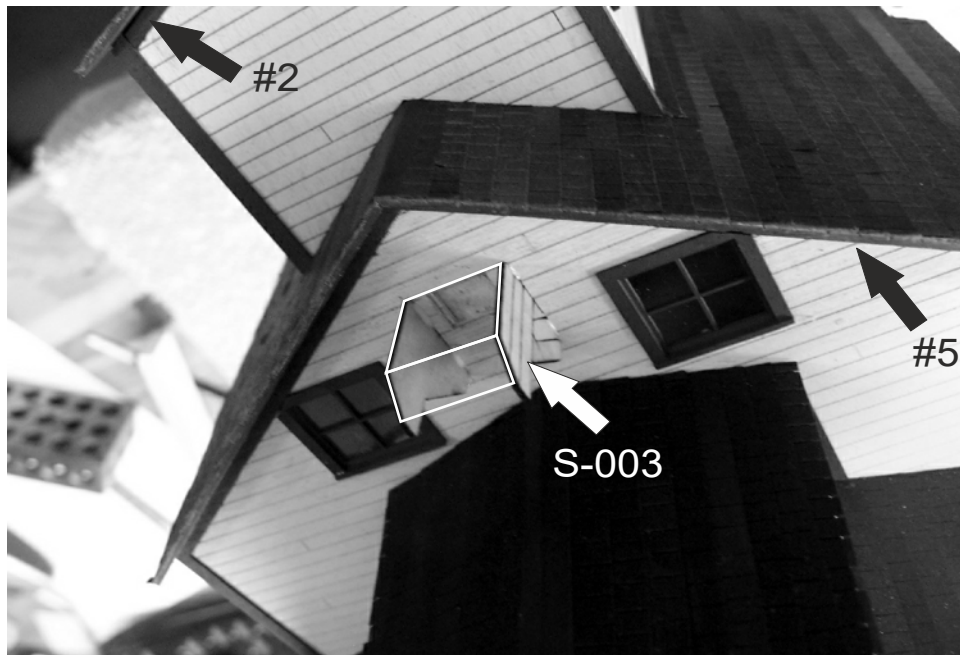
From trim sheet S-002 #1 parts trim under eve. Part will require trimming to fit. Clean up excess with wet micro Q-tip.



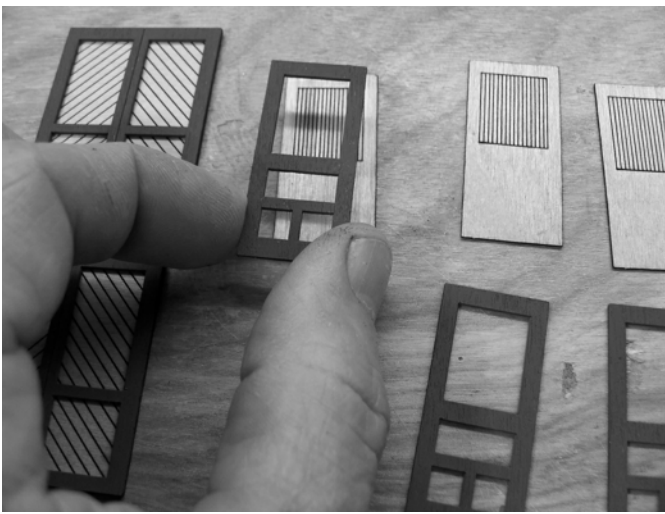
For window frame # 4 trims out both sides. For face of copula on end wall #3 and may require some trimming. Again clean up any excess with wet micro q-tip.



The above pictures shows locations of trim from sheet S-002. Notice some of windows being installed and doors, next page will explain their assembly. At top is upper structure trim found just above #1 on S-002 Other trim is as noted, test fit before gluing.

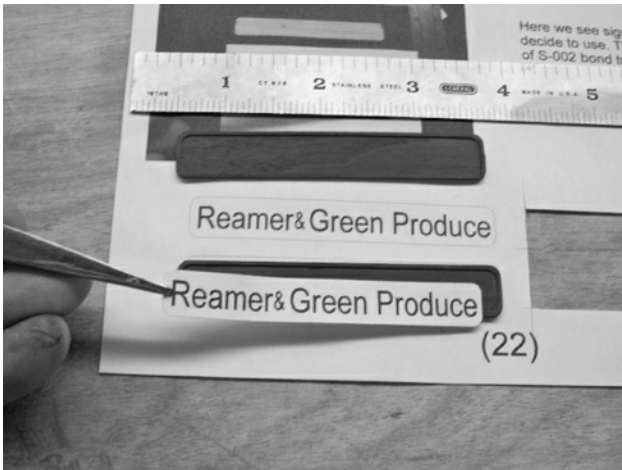
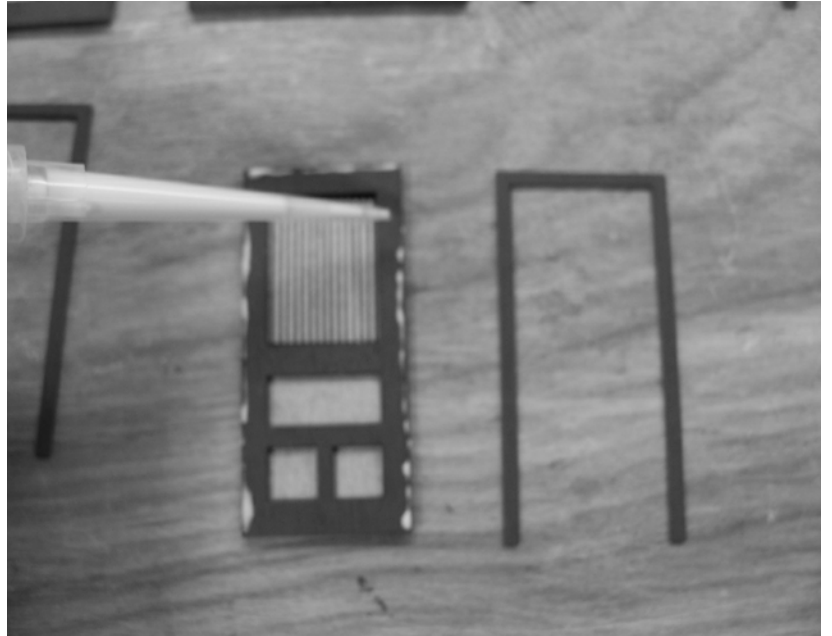


Above at end wall shows sides for vent found on sheet S-003 which fits in slots venting down. Then parts #9 removed from sheet S-002 plank top and narrow piece front. Note the corners of small windows cut to fit under eave trim #5. Part #2 trim upper eave. Part # 7 trim eave below this picture end wall.



Next doors being assembled from sheet S-003, these should have been painted same time as trim parts on S-002. The pictures shows parts bonded to backs. Use white glue and apply a thin bead w/needle applicator then place flat weight on. After 60 sec remove weight and clean any excess glue w/ micro q-tip then replace weight till dry, 1 hour.

Next we see door trim #8 from sheet S-002 being bonded, use needle applicator and white glue. Weight down remove and clean then replace weight till glue dries.



Here we see sign being built if you decide to use. These are at bottom of S-002 bond trim to back. Sand out side smooth, paint again. Then trim signs out and fit in opening.

Reamer & Green Produce

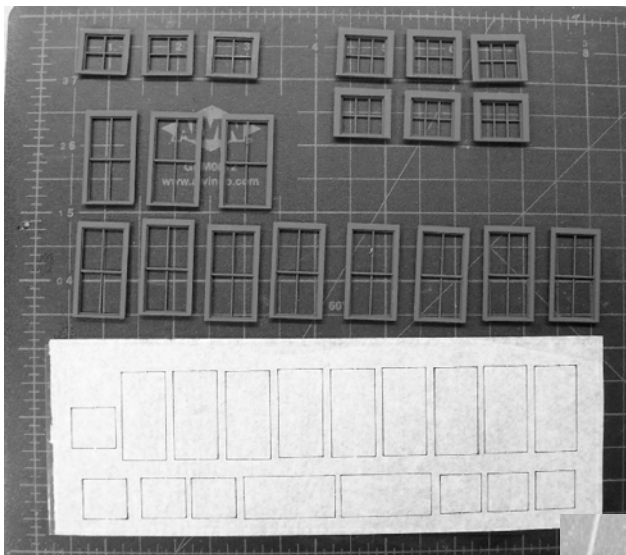
Reamer & Green Produce

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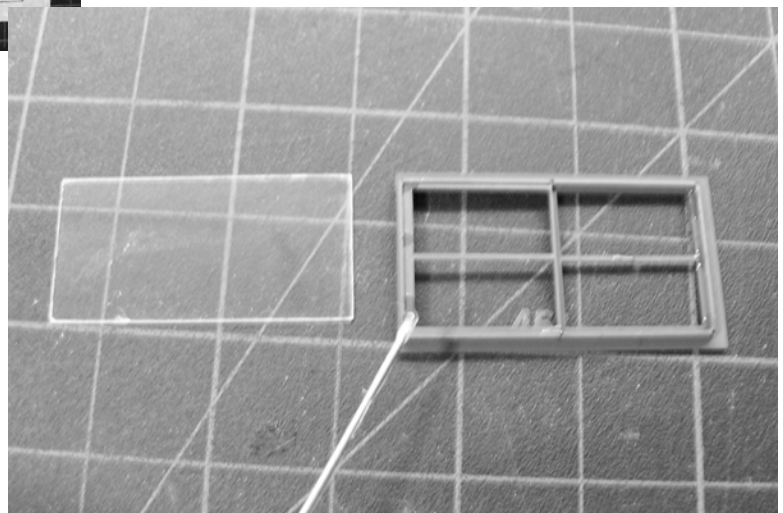


For silo cables use mono line and CA to bond. After cleaning up surface, drill 3/16" for pin. The bottom is with first cable closest to edge. At wrap seem which will be at back and not visible drill .020 holes. Then insert line and put a drop of CA to hold line, spray w/zap kicker to speed things up. Pull line across using horizontal scribes as a guide, place a drop of CA each 1/2" or so to hold.



Here we see windows debur, painted and ready for glaze.

On plastic window use needle applicator and plastic cement. For 6 wood frame windows on S scale model use tacky glue.



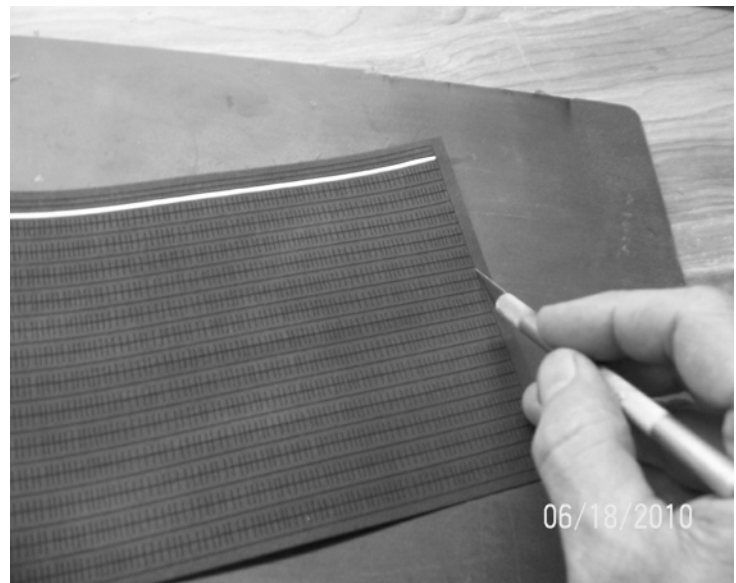
While windows dry locate sticky back roof material and paint. I found 99 cent a can paint from HomeDepot works great. It's flat black enamel, spray 3-4 light coats till even cover. Then I air brush some roof brown, grey, and some light spots in silver all floquil colors. When roof is installed makes for nice weather affect. Also spray small trim sheets same time.



Also finish MDF base, insert pins in correct locations. I like to sand a slight taper at top of pin so building locates easier. Seal with a universal type wood sealer found at Also HomeDepot, then spray with Rust-oleum 1917 KHAKI color. You may need to sand edges and respray a few times. Also spray chimney with this color, then weather to your likes. Then finish trim by installing doors and windows, sign, etc.

Next lets shingle the roof, you start by first laying a shim bottom edge. Use the outside material found from shingle sheet.

As you pull strips of shingles from sheet you find that a light scribe with #11 x-acto blade maybe required in some areas.





Here we start laying shingles, start at bottom working your way up on scribed lines .The first row is laid on top of shim, alternate from left to right to keep pattern of shingles mixed as you work your way up roof.



You will remove loose roof over silo and reinstall after lower roof shingled.

When finishing peaks cover with trim sheet pieces. Cut them from sheet, fold down center then peel backing and apply.

