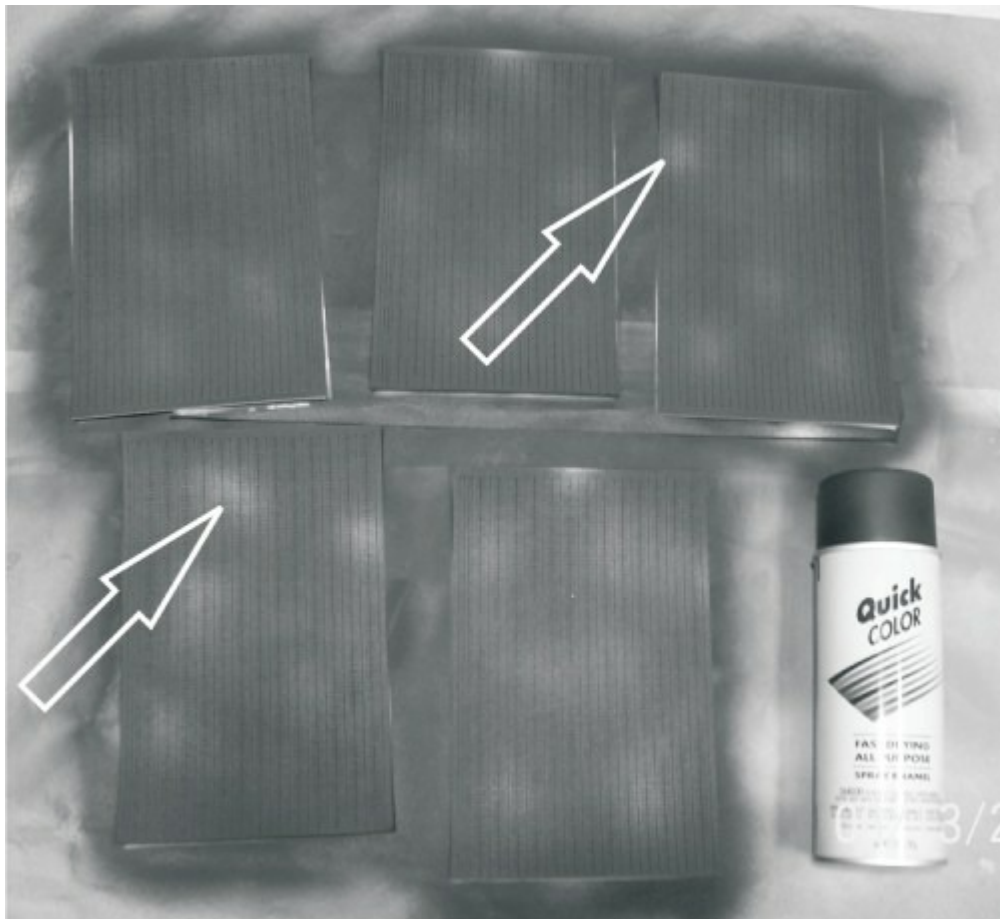


# Chapter 5

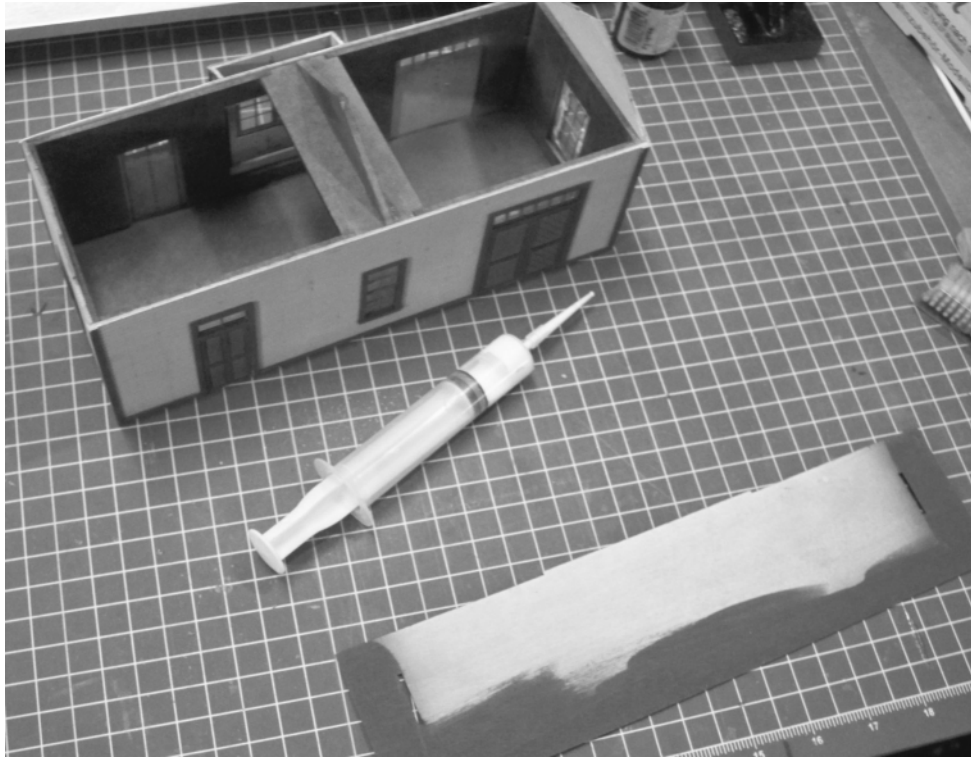
## Roof Assembly

This is an in depth article on building the Altoona Model Works O-scale Branchline Station. This Series will cover the construction in much detail to assist you. We will cover from box to layout the process of creating a museum quality model.

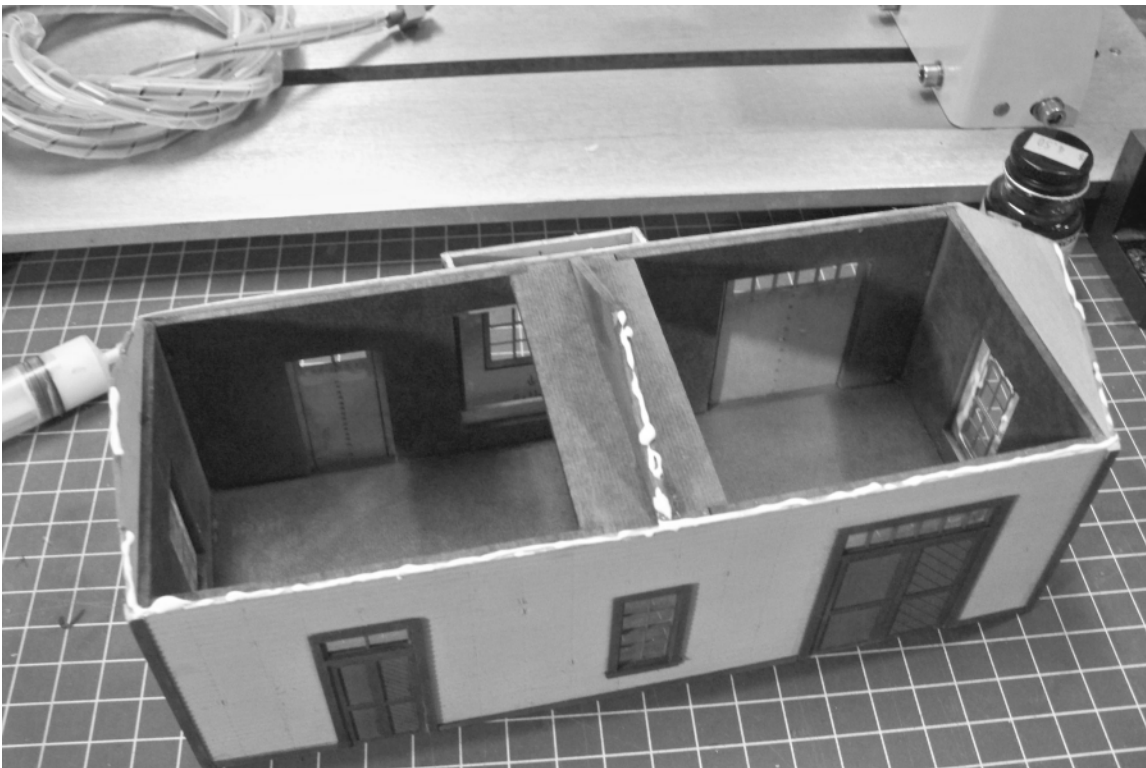
Lets go ahead and spray shingle sheets. To do this lay them down flat and tape edges of back . I found at Home Depot flat black spray can enamel .99 cent a can. Spray 3-4 light coats until even coverage. Then airbrush lightly w/ grimmy black. Then the trick is some light grey and silver in small blotchy areas. Note you should paint your roof cap at this time as well.



## Chapter 5: Roof Assembly



We are prepared for our roof. Our Peel and Stick Shingles are drying. We are ready for gluing the structural part of the roof on.

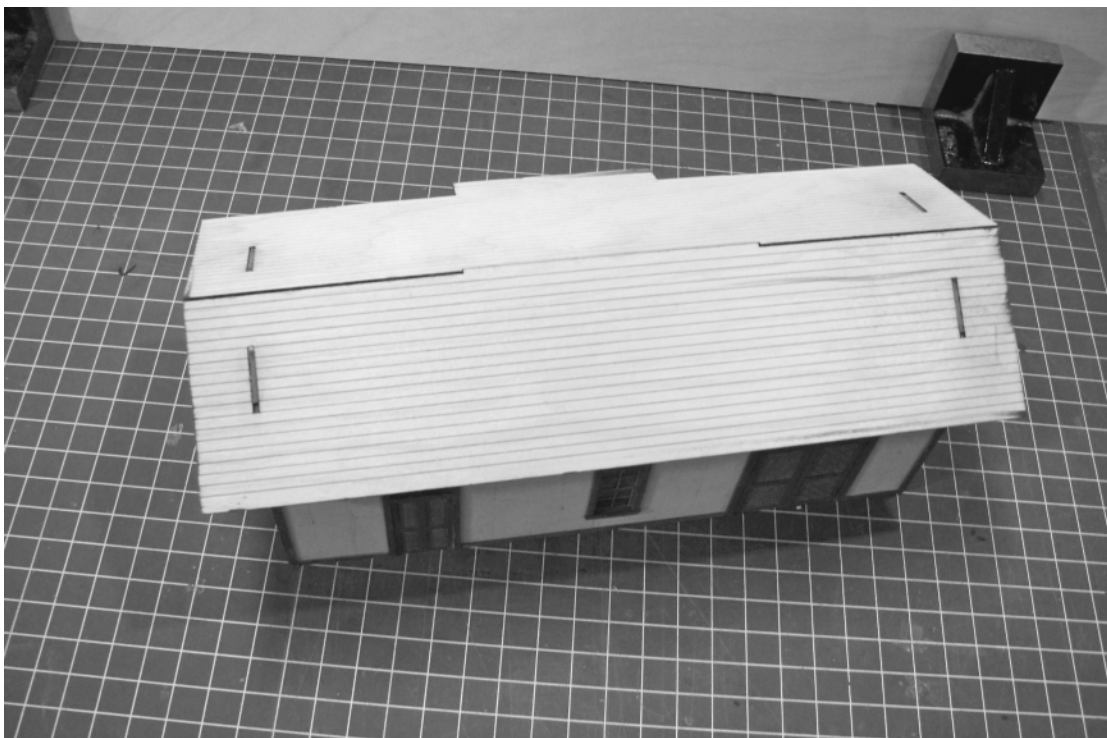


We apply a small bead of white glue on the top edge of the walls as shown in the picture.

## Chapter 5: Roof Assembly



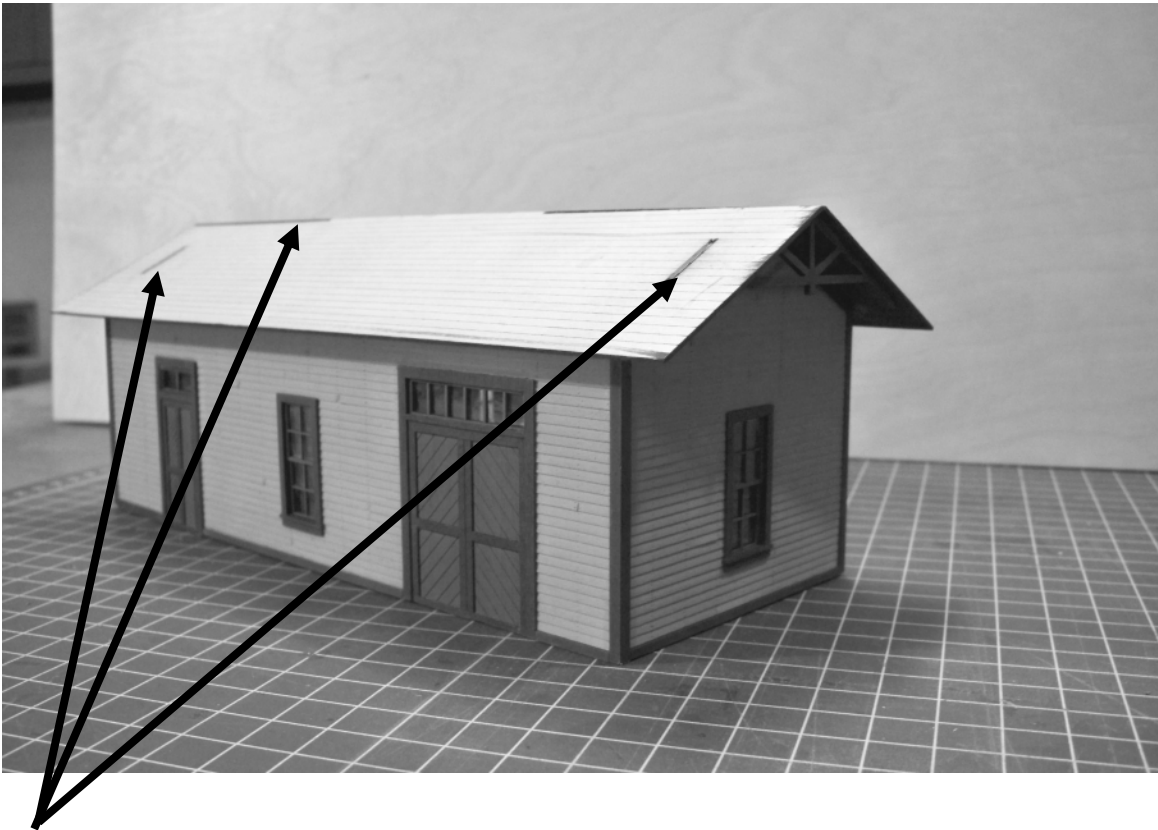
We repeat the process of applying white glue to the top edges of the walls in preparation of installing the last section. Since these parts are harder to brace you may want to hold down the roof sections to make sure the glue holds them in place. The glue should start to take form in 10-15mins. If you do not hold down the roof sections they will lift. On the underside of the roof where it meets the walls, be sure to check for access glue. If access white glue is apparent wipe clean with a micro brush or Qtip. Let set for one hour.



## Chapter 5: Roof Assembly

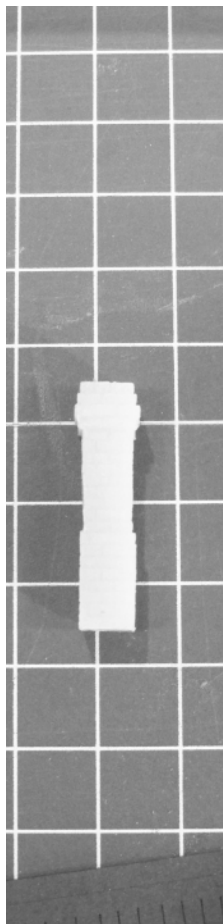


This is the time to add gable detail and trim.



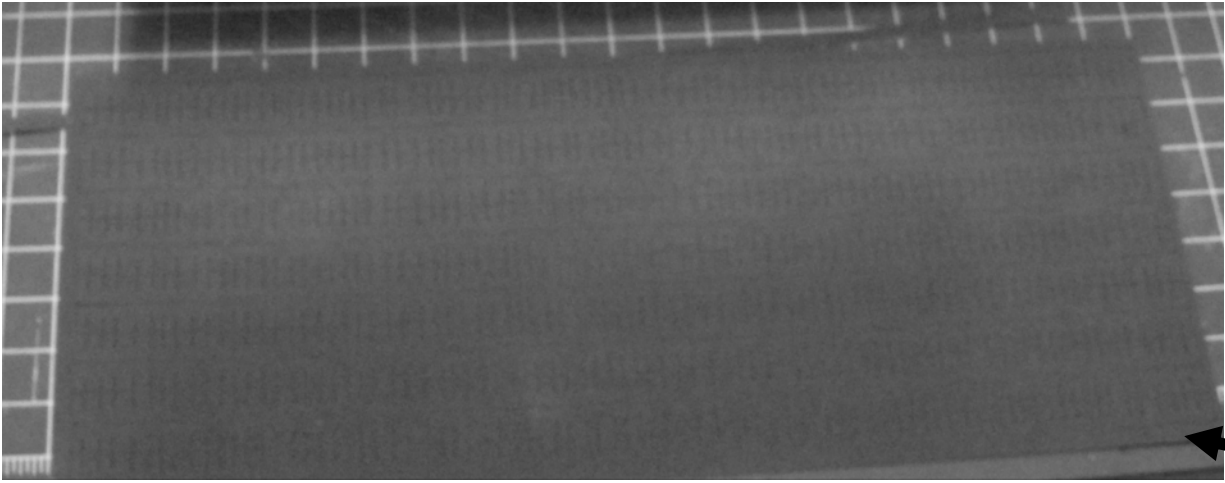
Sand the stubs to make sure they are flush and level with the roof sections you also want to sand the peak of the roof where the sections meet to make sure the seams are flush.

## Chapter 5: Roof Assembly

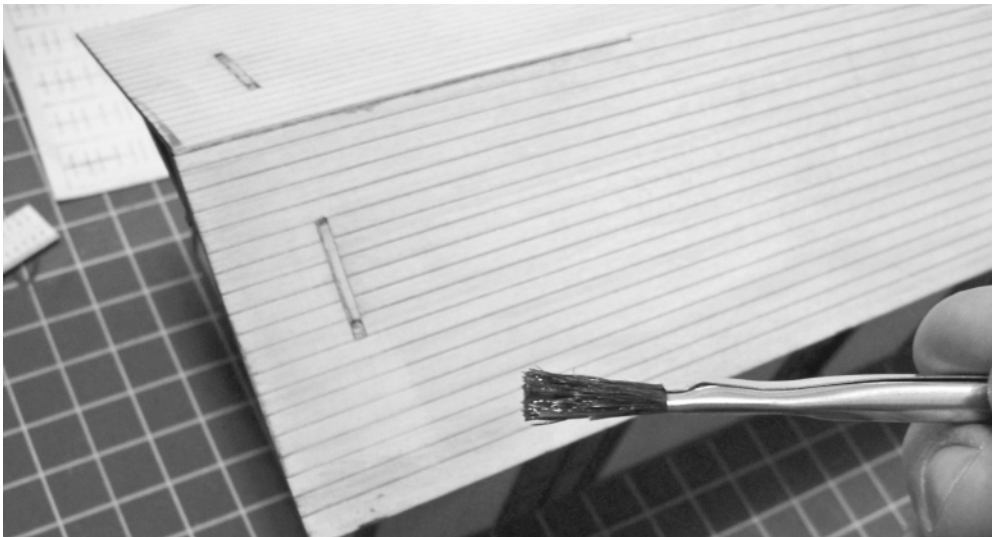


Every building needs a source of heat. We are going to install a chimney to our station. Using our file set we trim our chimney and file down the casting lines and flashing. Once the chimney has been filed remember to clean it with hot soapy water, let dry . Once dry paint it using your choice of red paint. We recommend an oxide red color. While the paint is drying on your chimney we can move on to the next step. Once Painted we recommend that you grout the bricks on the chimney to add realism. We used a wash consisted of diluted drywall compound 70/30 consistency . 70 compound 30 water

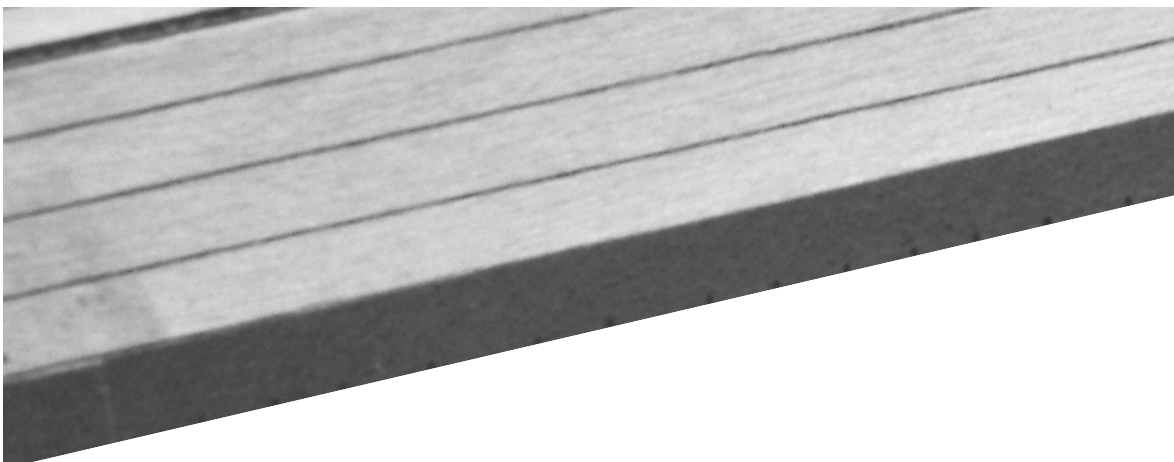
## Chapter 5: Roof Assembly



Now that our Shingles have been painted they are ready for installation. We typically air brush our shingles prior to installation.

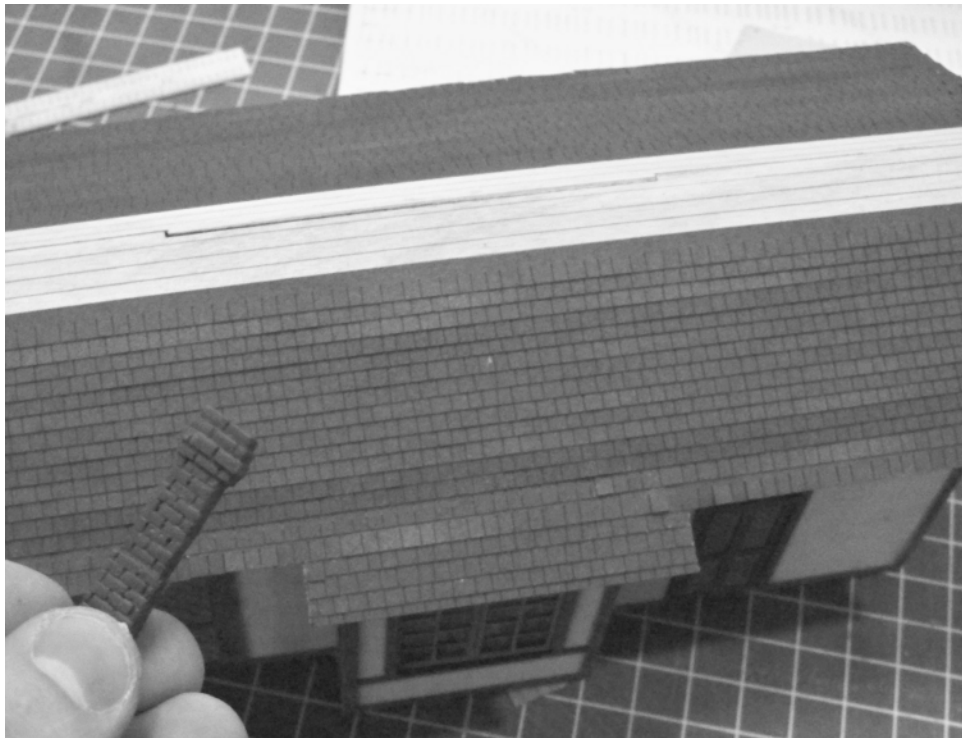


We apply contact cement to the edges of the roof, about one inch in on all sides.



To start we place a shim at the base of the roof sheet. This shim is a scrap piece found on the bottom of the shingle peel and stick sheet see arrow for location. \*\*Notice the scribed lines on each roof sheet. These are here for a guide. See on next page...

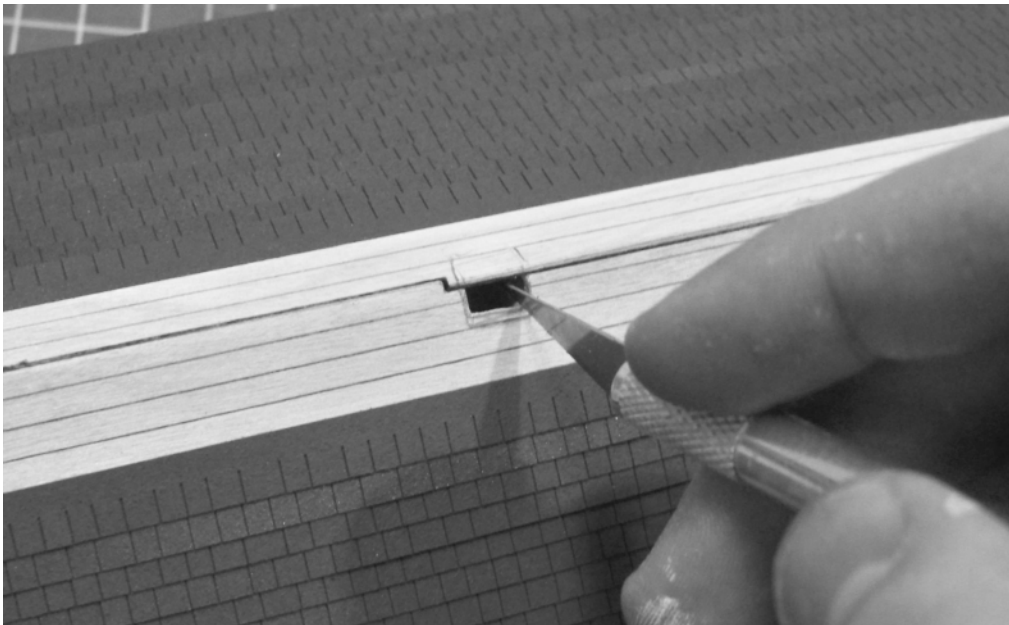
## Chapter 5: Roof Assembly



\*\*Notice how we used our scribed lines to keep our shingle rows parallel.

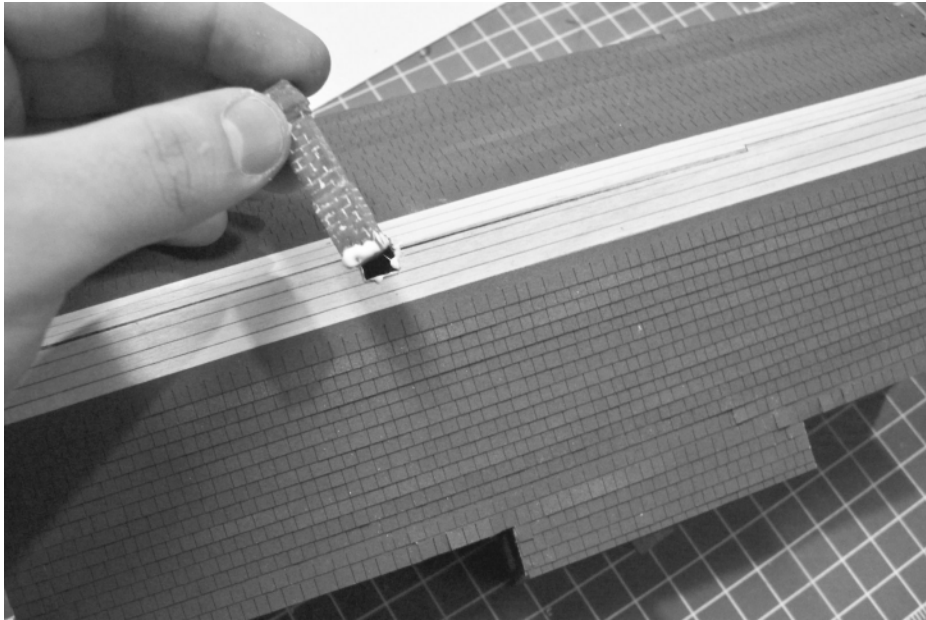
Now we are ready to install the chimney. Leave the last couple rows of shingles off until you install the chimney.

Use a pencil to mark out the base of the chimney on the roof, cut using your hobby knife and carve accordingly to fit the chimney into position.



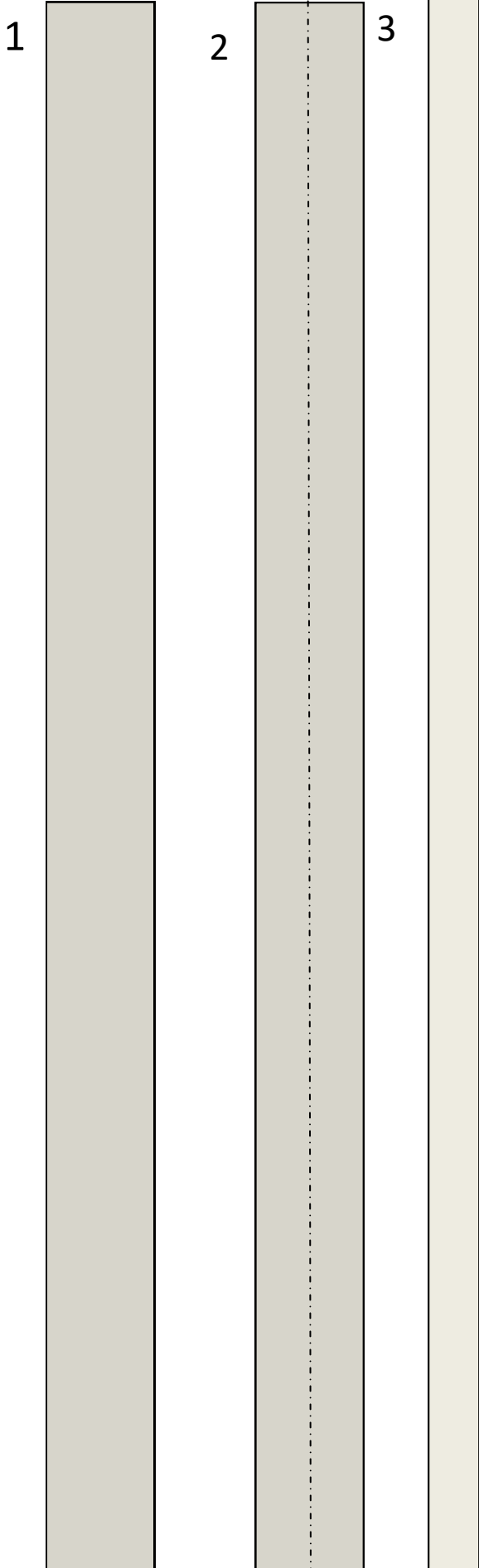


## Chapter 5: Roof Assembly



Use white tacky glue and install the chimney and let set until the glue had cured. Then proceed to place the additional shingle rows on. Once your rows are on it is time to place the roof cap on.



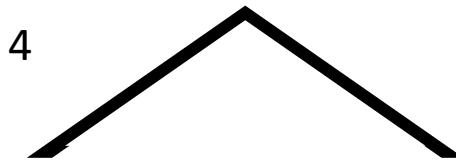


1. Locate your roof cap; you should paint is with your shingle sheets.
2. Fold your roof cap in half
3. Once in half proceed to remove the sheet from its backing.

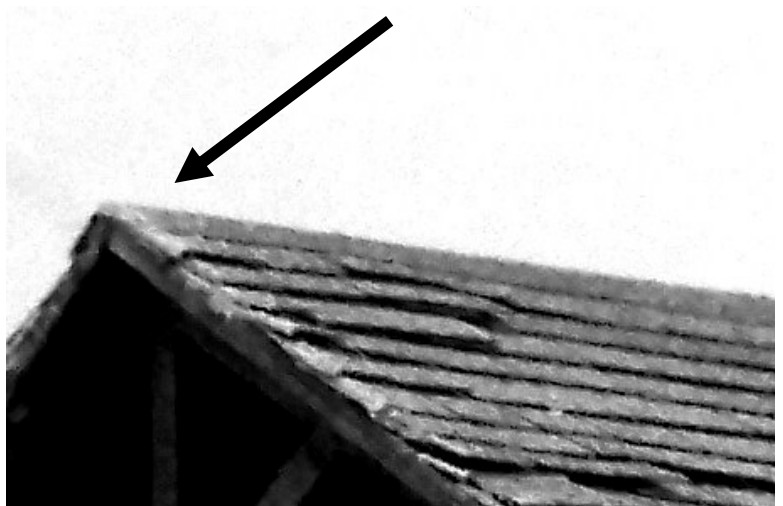
The fold will help proved a guide for installation ease.

Before installing place contact cement on the peak of the roof

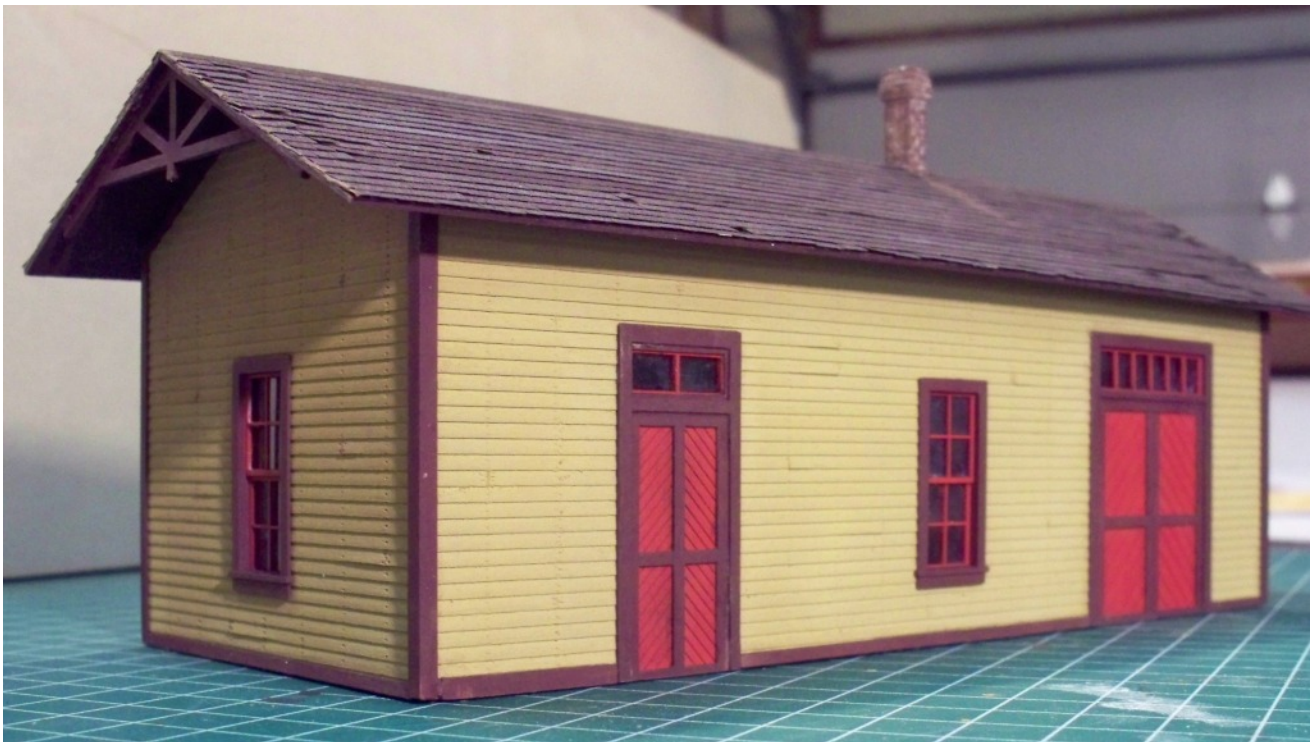
Place roof cap on peak.



Note: this is how your roof cap should be folded before installation. This fold will keep the roof cap centered and allow for a precise fit.



## Chapter 5: Roof Assembly



## Chapter 5: Roof Assembly

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