Crane House of Rake's Corner

Detailed Assembly Instructions

Assembly, Writing & Photos by Jerry Jensen
Model Design by Dave Graffam
Layout by Jerry Jensen & Dave Graffam

Dave Graffam MODELS

DavesGames.Net

david graffam © 2012

THE BASICS

MODEL SPECIFICATIONS

Design	Single-Layered PDF 28mm/30mm, 15mm
Dimensions	
Length	2.7" (footprint)
Width	2.2" (footprint)
Height	8.6" (chimney)
Base	3" x 6"
Page Quantity	4 (28/30mm scale) 1 (15mm scale)
Print Quality	300 dpi
Printing Scale	28mm-30mm
Paper Size	US 8.5" X 11" for A4 size, print at 95%

DIFFERENT SCALES

To print at a smaller scale, use the table below and change your print size percentage.

Scale	%
28mm	95%
25mm	84%
20mm	65%
18mm (HO)	60%
15mm	50%
12mm	40%
10mm (N)	34%
8mm	27%
(Z)	23%
6mm	20%

TOOLS REQUIRED

Cutting mat
Metal ruler
Hobby knife
Black markers
Low moisture tacky glue
Glue stick
Pencil
Toothpicks

Optional Items

Plastic circles template
Excess card stock
Foamcore
Spray glue
Scotch tape
360 degree rotating hobby knife

MODELING TIPS

For general information on paper modeling, please see the free Paper Modeling Guide PDF available at:

www.davesgames.net

SPECIAL MODELING TERMS

These detailed instructions take into account that the model builder understands the terms scoring, edging, dry fitting, etc. For details on these and other paper modeling techniques, please refer to the **Paper Modeling Guide**.

PREPARATION

Before building the model, make sure all the tools needed are readily available.

PAPER RECOMMENDATIONS

The media (paper) you use will make a big difference. For best results, cardstock paper (100 lb., or 199gsm) with a matte finish is recommended.

Using Standard Weight Paper

If you are printing this model on regular paper, consider using a spray glue to carefully apply each printed sheet to a piece of card stock. This adds thickness and durability to the model.

Special Thanks

The lovely Juliea Stewart scouted locations in and around London and took photographs used in the creation of textures appearing on this model.

ASSEMBLY INSTRUCTIONS

Model Base

To help make building the model easier, start with the base.

Designer's Note: This model features optional textured sides to cover the foam core.

Score and cut out the model base as shown.

Fold and edge the sides with a black marker.

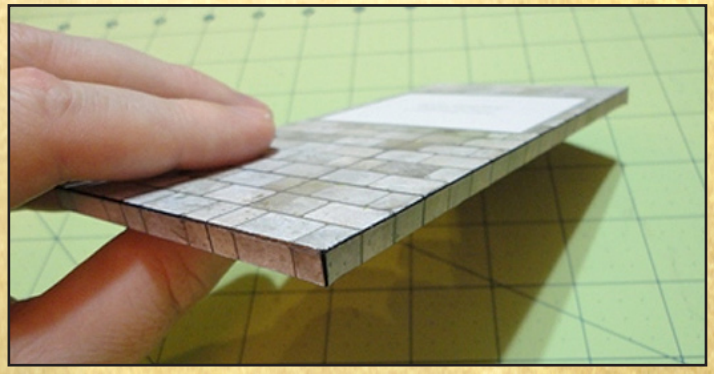
Modeling Tip: This base was designed to fit over a piece of foam core. Consider the following tips:

Make sure the piece of foam core is large enough to cover the entire base. Measure the base and transfer the dimensions to the piece of foam core. Or, if the sides of the base will not be used, simply use a pencil to outline the base on the foam core.

Use the metal ruler and hobby knife to cut out the foam core. If using the textured sides of the base, cut the foam core at a 90 degree angle. If the side of the base won't be used, cut the foam core at a 70 degree angle instead.

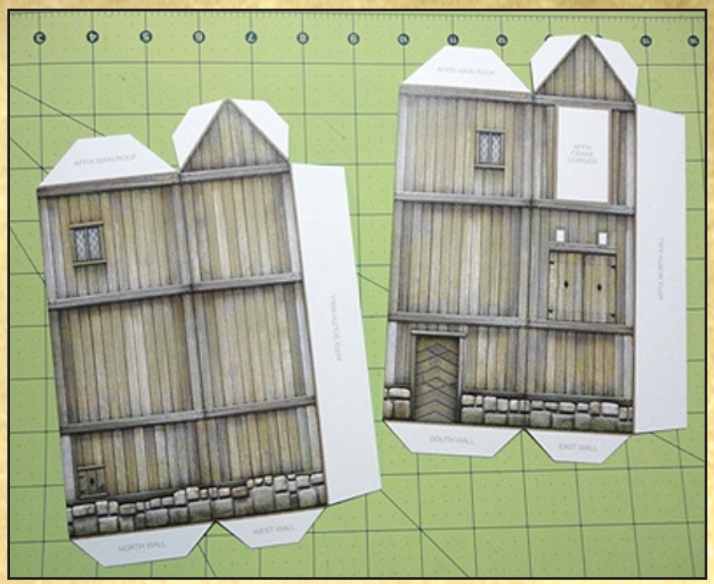
Dry fit the base over the foam core. Trim the textured sides if necessary.

Use spray glue (or glue of choice) on the unprinted side of the base. Move the base to a clean surface. Carefully set in the piece of foam core and press down. Additional glue of choice (other than spray glue) may be needed for the sides. One at a time, fold over the sides of the base, smoothing down the edges as you go. Alternatively, stand the model base on each side to get a smoother, straighter look.



Walls

Score the fold lines and cut out each of the walls as shown.

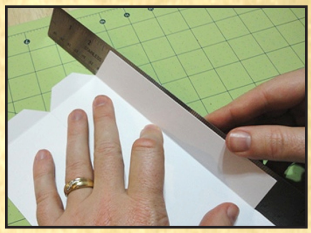


Fold along the scored lines as necessary.

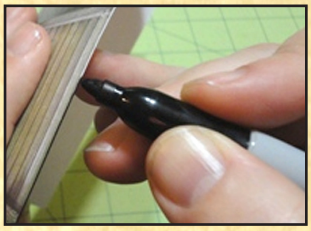
Modeling Tip: For straighter folds, work on the flat surface of the cutting mat. Use your fingers as a brace and the ruler to lift the section to be folded. Once the section is folded, remove the metal ruler and use your thumb to crease the fold. This technique works great on all aspects of the model.

Modeling Tip: For stronger walls, reinforce with a second piece of card stock. The combination of spray glue and added card stock will give the model a thicker and more durable feel. For details, see the Paper Modeling Guide for Dave's models.

Using a black Sharpie (or equivalent marker) edge the sides of the walls.

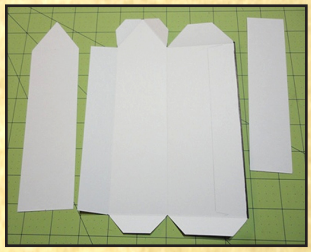


Start with either wall and apply glue to the side glue tab.



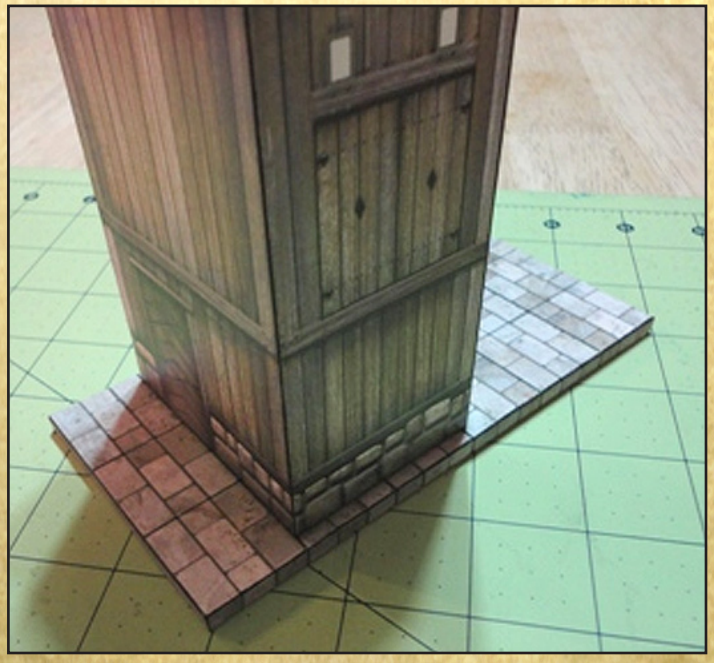
Align the two wall sections evenly and glue together.

Glue the opposite side walls in the same way.



Modeling Tip: It is good common practice to dry fit each section of the model first to see how well they fit together before gluing, making any adjustments as needed.

The base is universal in that the extended area may be used on either side of the model. The example model shows the south wall (with the door) is on the short side of the base. Apply glue to the bottom glue tabs and use the thin grey border on the base as your guide for placing the walls.



Crane Dormer

Score and cut out the dormer. Be sure to cut out the center white square to later insert the crane beam.

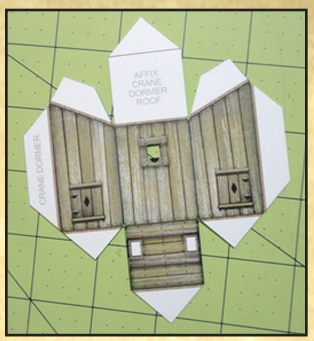
Modeling Tip: You may want to build the crane beam before assembling the crane dormer to see how well the beam will fit in the square hole, allowing the size of the hole to be adjusted as necessary.

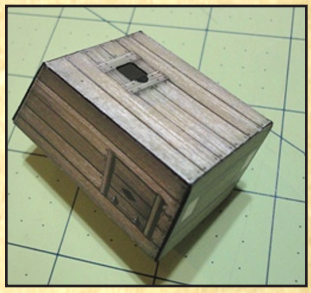
Fold the glue tabs and wall sections back at the score lines.

Edge the sides with a black marker.

One at a time, apply glue to the bottom glue tab of the side walls and glue the side wall to the bottom of the dormer. Glue the top of the dormer in the same way.

Align to the "Affix Crane Dormer" section of the east wall and glue the dormer to the east wall.





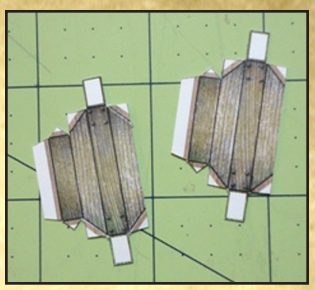
Support Beams

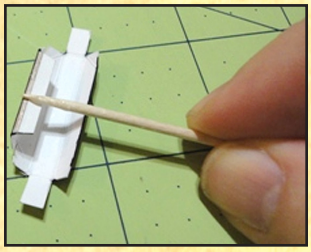
Modeling Tip: Scoring the folding lines before cutting out the support beams will make these much easier to put together.

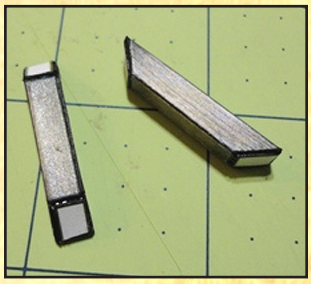
Modeling Tip: For a straighter look to the support beams, place the printed side face down on the cutting mat. Use the metal ruler as a brace to place over the section to be folded up just below the score line and carefully fold each section up by using the hobby blade. Use a black Sharpie and edge the sides before gluing.

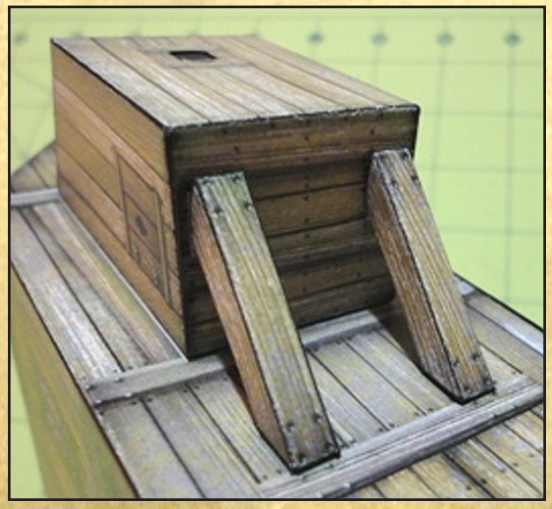
Modeling Tip: To glue smaller areas, use a toothpick.

Apply a small amount of glue to each end of the support beam. Align to the crane dormer and east wall using the white boxes as your guide.



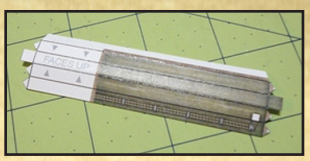


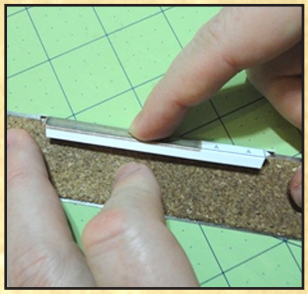




Crane Beam

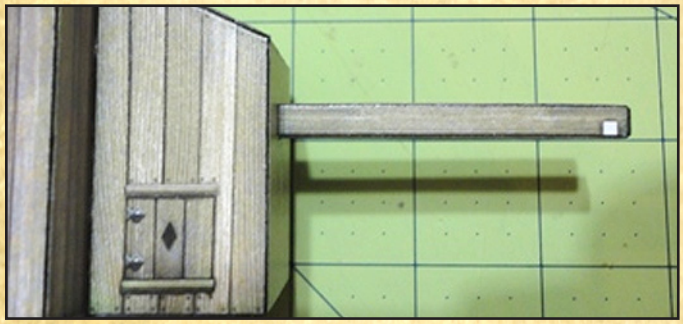
Use the same set of instructions as the support beams to assemble the crane beam.

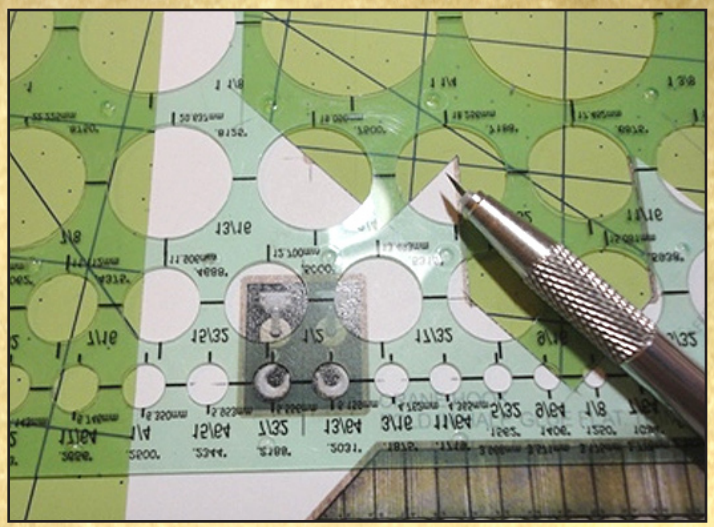




Apply glue to the white end of the crane beam. Ensure that the "Faces Up" is on top and insert the beam through the crane dormer to glue the beam to the east wall.

Modeling Tip: To help glue the beam straight, use the square lines on the cutting mat to line up the edge of the crane dormer and crane beam as shown.





Crane Hook

There are a couple ways to cut out the crane hook.

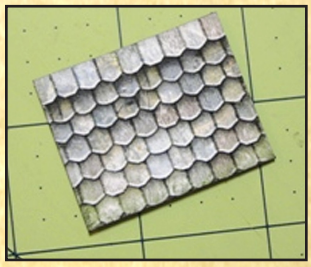
1) Score along the folding line, cut out and glue the crane hook in half. Once dried carefully cut it out.

2) Carefully cut out each hook using scissors or a circle template and hobby knife. Edge the 2 pieces and carefully glue them together.

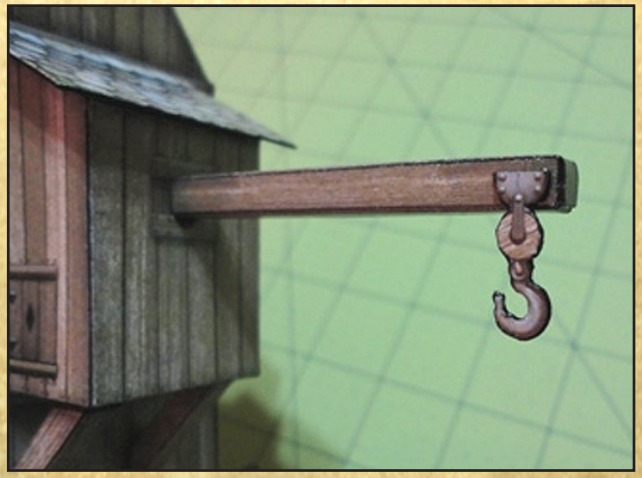
Modeling Tip: If using a template to cut out each crane hook, be sure to use tape to secure the template in place. Rotate the model as you go. Using a 360 degree rotating hobby knife may also help with this, but isn't necessary.

Crane Dormer Roof

Score and cut out the dormer roof.



Fold and glue the wood tabs to the underside of the roof. Next, apply glue to the top of the crane dormer and glue the roof evenly.

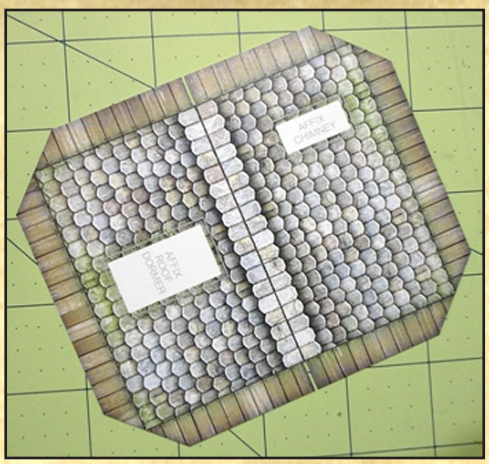


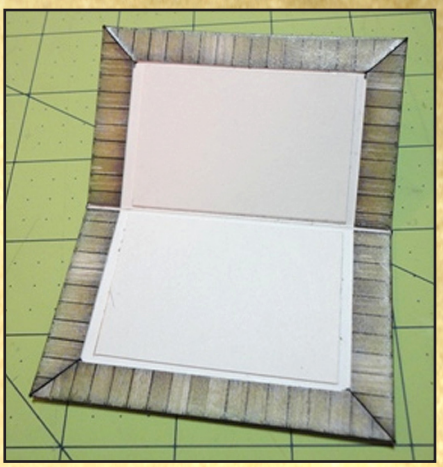
Main Roof, Part 1

Score and cut out the main roof.

Fold and glue each of the wood tabs underneath as with the crane dormer roof.

Modeling Tip: You may also want to reinforce the roof sections with an extra piece of card stock like the walls.





Roof Dormer

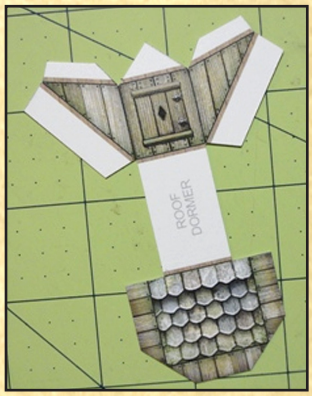
Score and cut out the roof dormer and dormer roof as one piece. Fold at the score lines and edge where needed.

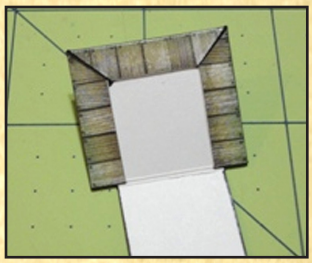
Start with gluing the wooden tabs underneath the dormer roof as shown.

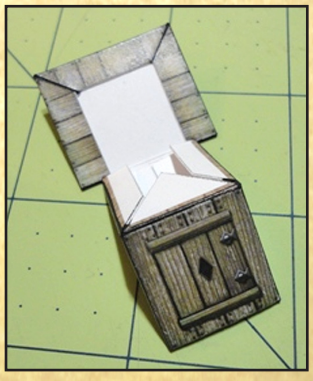
Apply glue to both long glue tabs of the side walls, fold over and glue the roof dormer to the bottom white tab.

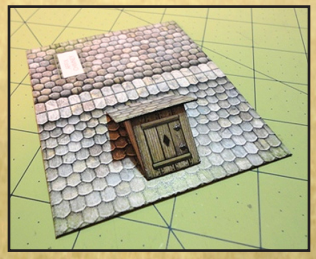
Apply glue to the top glue tabs on the roof dormer and glue the roof in place.

Glue the roof dormer to the roof using the thin grey line as your guide.









Chimney

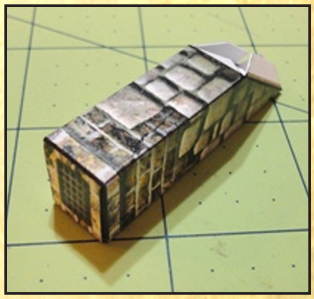
Score and cut out the chimney.

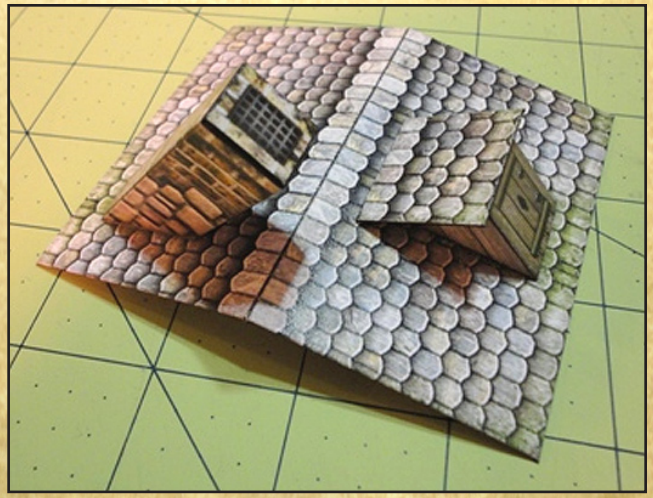
Fold and edge the sides with a black marker.

Apply glue to the large white tab. Fold the opposite side over and glue together, making a box shape.

Next, glue the top of the chimney.

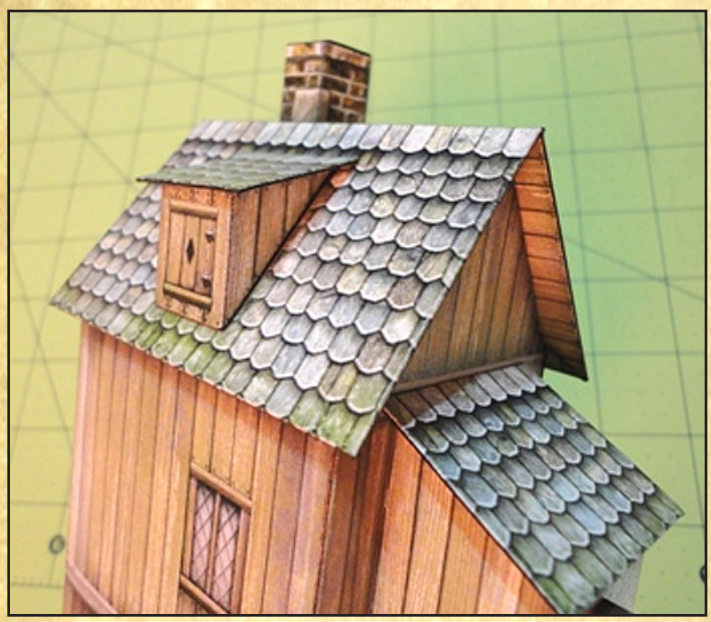
Apply glue to the remaining glue tabs to glue the chimney on the roof in the space provided.

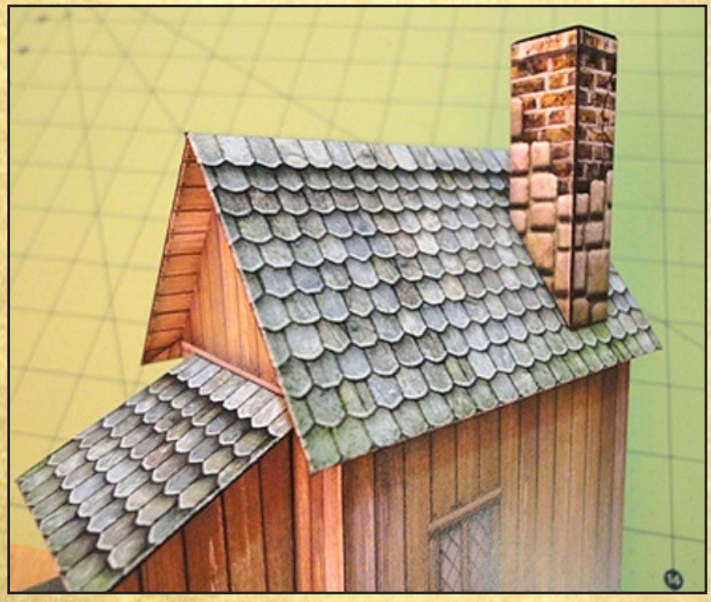




Main Roof, Part 2

Apply glue to the glue tabs on the walls and carefully attach the roof section, noting that the chimney is furthest away from the crane dormer. Be sure the corners of the tabs are well glued to prevent the roof from peeling up.

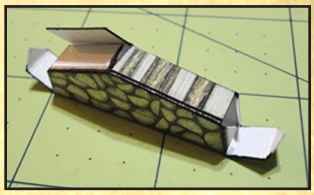


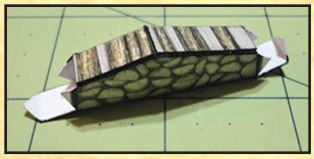


Wood Pile

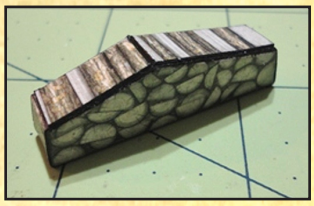
Score and cut out the wood pile. Fold at the score lines and edge where needed.

Modeling Tip: To help fold the small sections, use the metal ruler as a brace and guide to carefully fold each section up by using the hobby blade. Using a toothpick or small scrap piece of card stock to spread glue to the smaller glue tabs will help as well.





Fold one of the top white tabs over, apply glue and glue down the printed side. Glue the other top tabs in the same way.



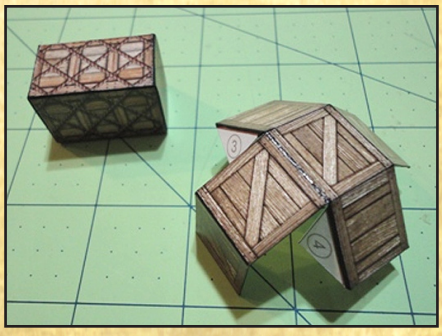
Apply glue to the 3 triangle side glue tabs. Tuck in the top glue tab and glue the side of the wood pile together. Glue the other side in the same way completing the wood pile.

Crates

Score and cut out each crate.

Fold along the score lines and edge the sides where needed.

Use the numbers on the glue tabs to glue in the recommended order to complete each crate.



Congratulations! You've completed the Crane House.