

# MERMAID TAVERN DETAILED ASSEMBLY INSTRUCTIONS

ASSEMBLY, WRITING & PHOTOS BY JERRY JENSEN

MODEL DESIGN BY DAVE GRAFFAM

LAYOUT BY JERRY JENSEN & DAVE GRAFFAM



# THE BASICS

## MODEL SPECIFICATIONS

<b>Design</b>	Multi-Layered PDF Single-Layered PDF
<b>Dimensions</b>	
Length	5.2" (footprint)
Width	4.5" (footprint)
Height	7.3" (chimney stacks)
<b>Page Quantity</b>	7 main structure 1 extra trunks and traps
<b>Print Quality</b>	300 dpi
<b>Printing Scale</b>	28mm-30mm
<b>Paper Size</b>	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%



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## MULTI-LAYERED PDFs

This product contains PDF files with multiple layers that you can make visible or invisible. When you open a file, you'll see the default design. To make changes, open the Layers menu and expand the Layers Palette to reveal the selection of layers. Some of the layers will be visible; others will be invisible. Click on the 'eye' icon to change a layer's visibility. Choose your surface textures and add or remove external features. When you get the design you want, simply print it out.

## MODELING TIPS

For general information on paper modeling, please see the Paper Modeling Guide PDF available at [DavesGames.Net](http://DavesGames.Net).

## 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.

## TOOLS REQUIRED

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

## Optional Items

Excess card stock  
Foamcore  
Pencil  
Spray glue  
Toothpicks

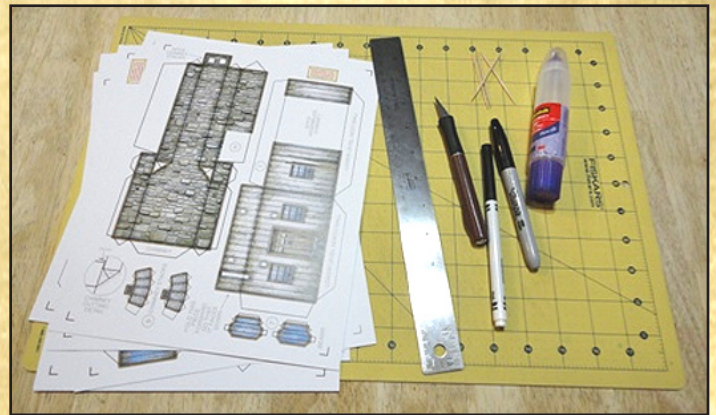
# ASSEMBLY INSTRUCTIONS

## Model Building Terminology

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.



## Model Base

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

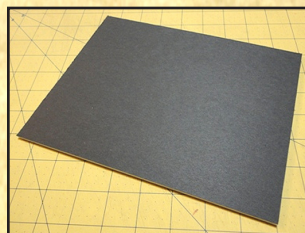
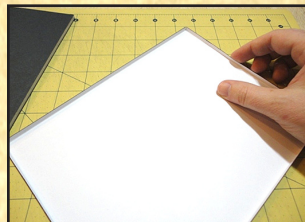
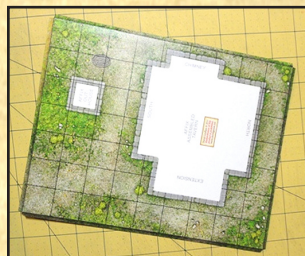
**Designer's Note:** This model features optional textured sides to cover the foam core as well as different base sizes to accommodate both the building and outhouse together or separately.

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:

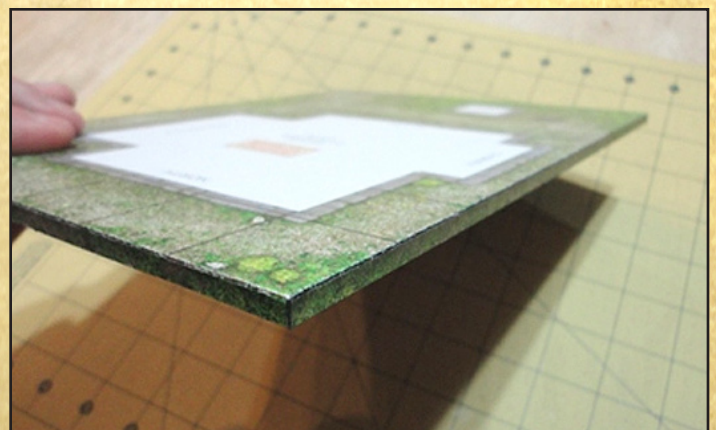
Make sure the piece of foam core is large enough to cover the entire base. Measure the base and transfer the dimensions to the piece of foam core. Or, if the sides of the base will not be used, simply use a pencil to outline the base on the foam core.



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. 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.



## Lower Walls

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

**Modeling Tip:** For a cleaner cut-free look, try reverse scoring the folding lines for each model section.

Fold the glue tabs as necessary. Be sure to fold the overhanging tabs to the upper walls forward.

**Modeling Tip:** For straighter folds, work on the flat surface of the cutting mat and use the ruler. 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.

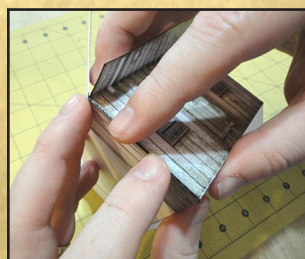
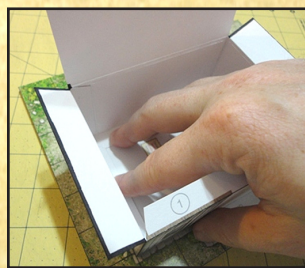
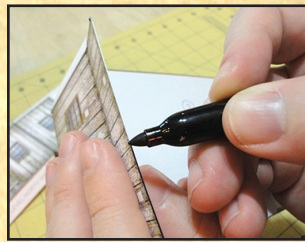
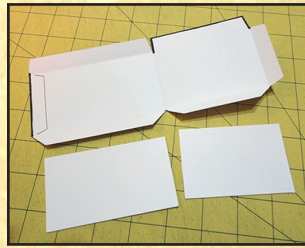
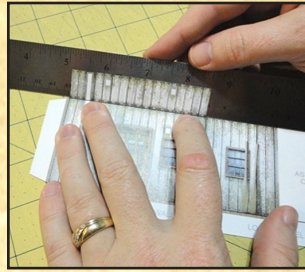
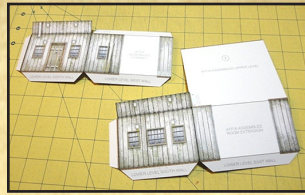
**Modeling Tip:** For stronger walls, reinforce with a second piece of card stock. The combination of spray glue and added card stock will give the model a thicker and more durable feel. For details, see the Paper Modeling Guide for Dave's models.

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

Start with the north wall and apply glue to the east side glue tab.

Align the north and east wall sections and glue the two pieces together.

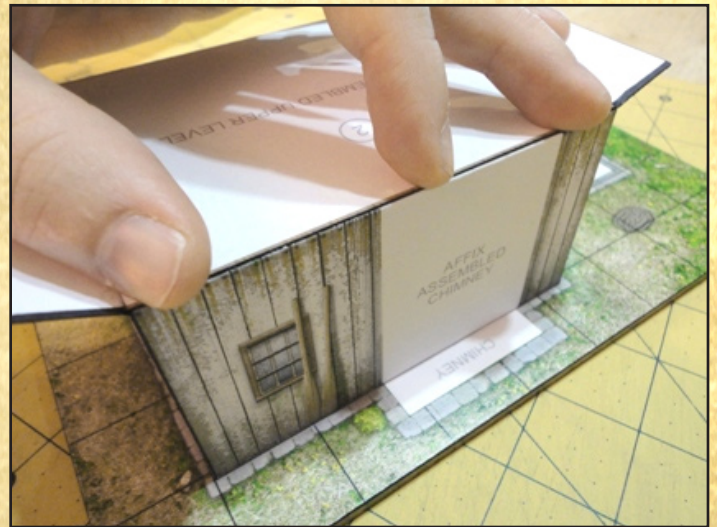
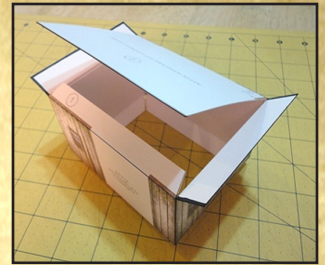
Glue the south and west walls in the same way.



**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.

Align the walls to the base noting the orientation of the chimney and room extension. Apply glue to the bottom glue tabs and use the thin grey border on the base as your guide for placing the lower walls.

Apply glue to the west wall glue tab. Fold over and glue the #2 "Affix Assembled Upper Level" section.



## Upper Walls

Score and cut out the upper level walls. Fold the glue tabs and wall sections back at the score lines.

Edge the sides with a black marker.

**Modeling Tip:** You may also want to reinforce these walls with a second piece of card stock as noted earlier.

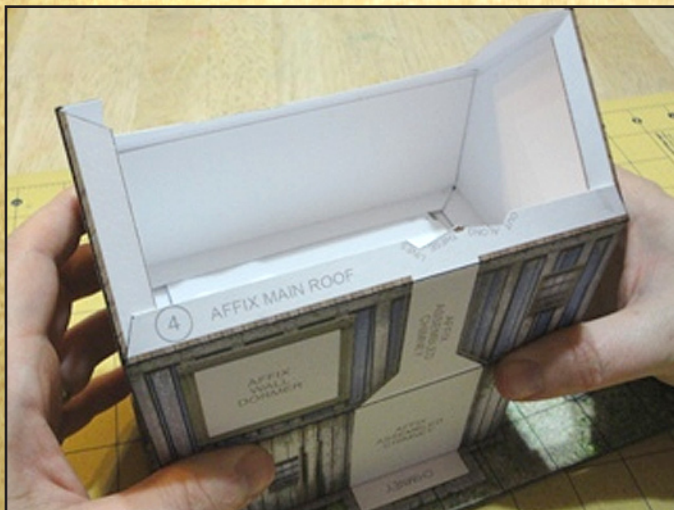
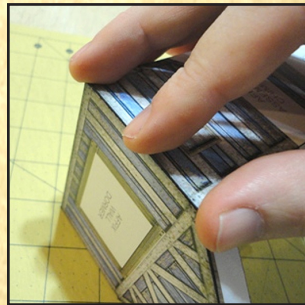
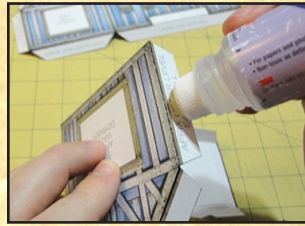
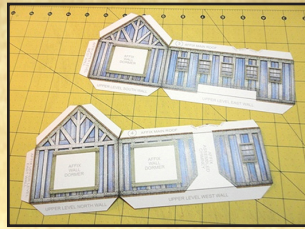
Start again with the north wall and apply glue to the east side glue tab.

Align the edges and glue together.

Glue the south and west walls together in the same way to complete the upper walls.

Dry fit the upper and lower walls for orientation and placement. Apply glue to the bottom glue tabs of the upper walls and glue the two sections together.

**Modeling Tip:** You may also want to add a little extra glue along the edges of the overhang tabs on the lower walls to avoid the upper and lower sections from peeling apart.



## Support Beams

Score and cut out the support beams.

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

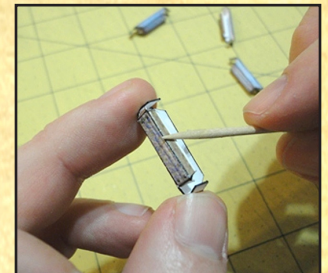
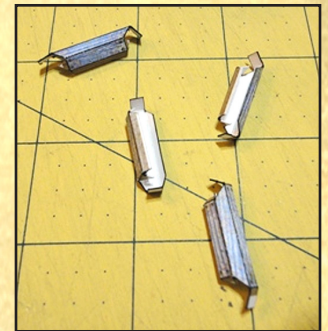
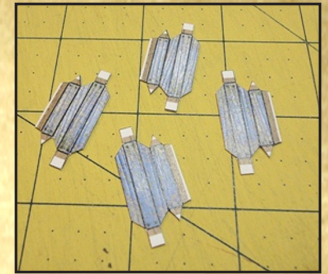
**Modeling Tip:** For a straighter look to the support beams, use the metal ruler as a brace and guide to carefully fold each section up by using the hobby blade.

Use a black marker and edge the sides before gluing.

**Modeling Tip:** To glue smaller areas, use a toothpick to spread the glue evenly.

When completed, glue at the overhang and lower wall in the space provided.

Continue to glue the remaining support tabs in the same way.



## Room Extension

Score and cut out the room extension. Fold and edge the sides as necessary.

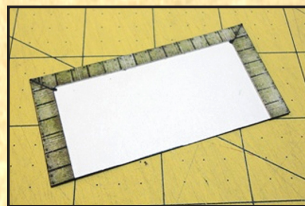
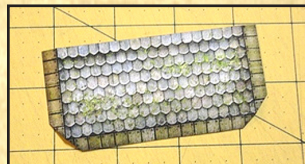
Start with one side and glue the #5 “Affix Room Extension Roof” to the side wall, then glue the other side.

Using the thin gray lines on the east wall and base, apply glue to the room extension glue tabs and glue in place.

Score and cut out the Room Extension Roof.

Fold the wood-textured tabs back, edge with a black marker and glue to the bottom of the roof as shown.

Apply glue evenly to the top of the room extension and glue the roof in place.



## Wall Dormers

Score and cut out the wall dormers.

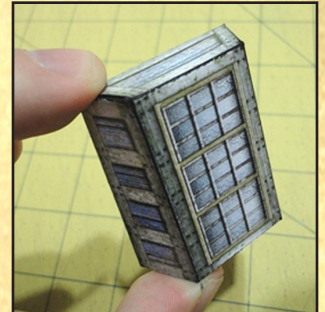
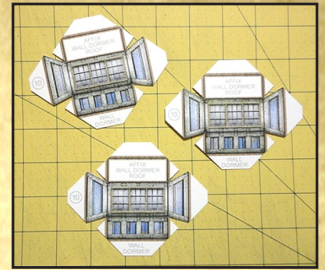
Fold back the glue tabs and wall sections at the score lines. Edge where needed.

Start with one side and apply glue to one of the triangle glue tabs and glue to the inside of the side wall. Glue the other triangle glue tab in the same way. Glue the opposite side wall to complete the wall dormer.

Apply glue to the back glue tabs and glue the dormer to the wall in the space provided.

Glue any other wall dormers in the same way.

Complete the wall dormer roofs as noted earlier with the room extension roof.



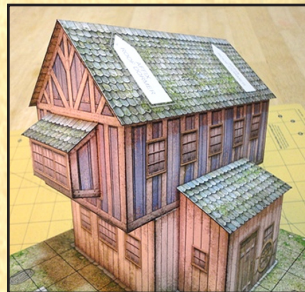
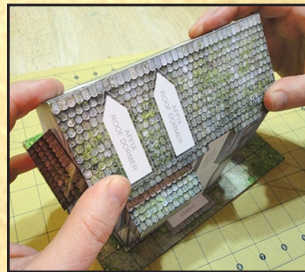
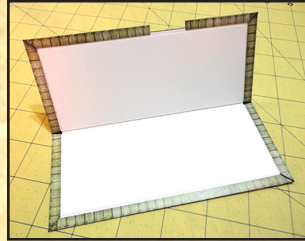
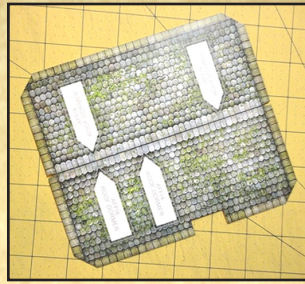
## Roof

Score and cut out the roof.

Fold back the wood-textured tabs and glue to the underside of the roof.

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

Apply glue to the glue tabs of the upper walls and carefully attach the roof section, noting the orientation of the chimney cutout. Be sure the corners of the tabs are well glued to prevent the roof from peeling up.



## Roof Dormers

Score and cut out the roof dormers. Fold at the score lines and edge where needed.

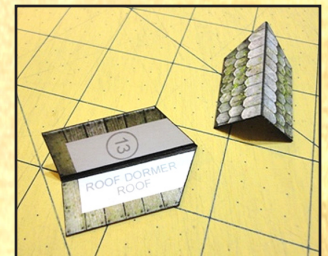
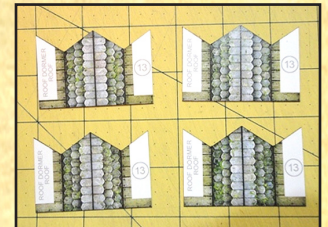
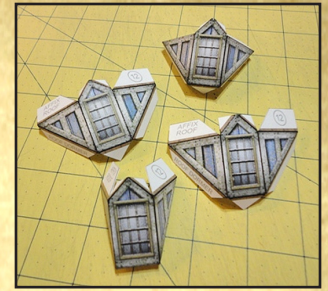
Apply glue to the bottom glue tabs and glue the roof dormer in the space provided using the thin gray lines as your guide.

Score and cut out the roof dormer roofs.

Fold back the wood tabs and glue to the underside of the roof. Edge and fill in any potential white areas with a black marker.

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

Continue gluing each roof dormer and dormer roof in the same way.



## Chimney

Score and cut out the chimney.

Fold and edge the sides with a black marker.

Note: The triangle tabs at the end of the long chimney sides are folded forward.

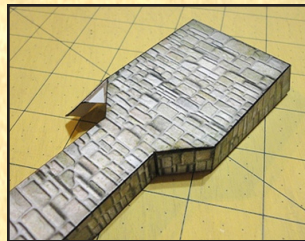
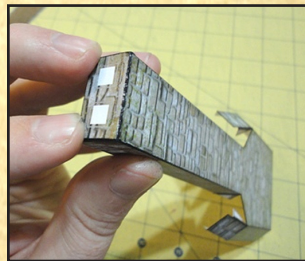
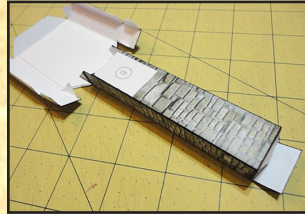
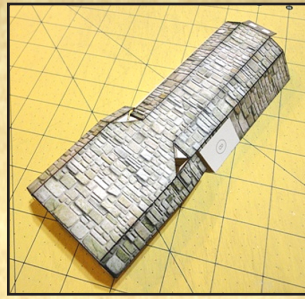
Starting with the top half, apply glue to the large what tab. Fold the opposite side over and glue together, making a box shape.

Next, glue the top of the chimney.

Working on one side, apply glue to the two triangle glue tabs and glue the beveled side of the chimney together.

Glue the other side in the same manner.

Dry fit the chimney to the building for placement. Apply glue to the remaining glue tabs and the back of the chimney. Use the grey lines along the wall and base to glue the chimney in place.



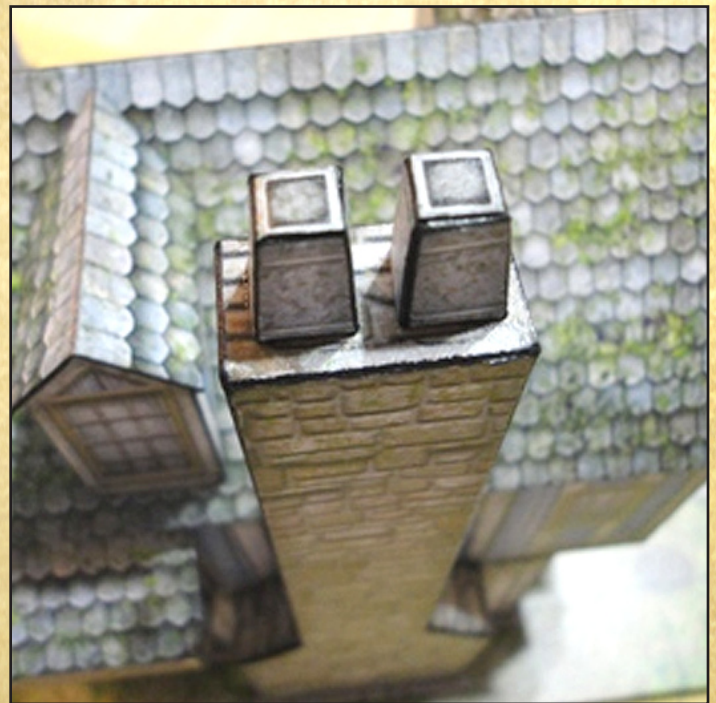
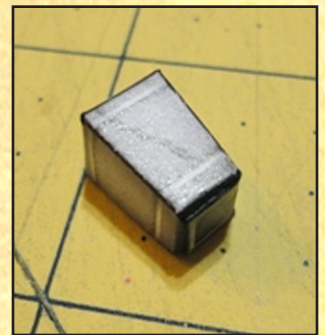
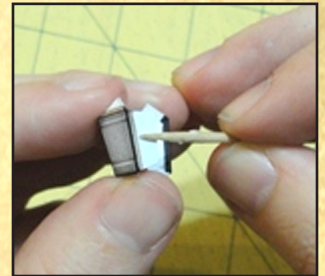
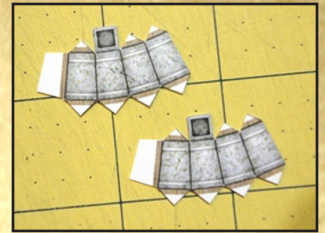
## Chimney Stack

Score and cut out the chimney stacks.

**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.

Glue the sides together first followed by the top of the stack.

Glue the chimney stack to the top of the chimney.





## Hanging Sign

Score and cutout the sign beam.

**Modeling Tip:** As with the Support Beams, use the metal ruler and hobby knife blade to fold the smaller parts.

**Modeling Tip:** To glue smaller areas, use a toothpick to spread the glue evenly.

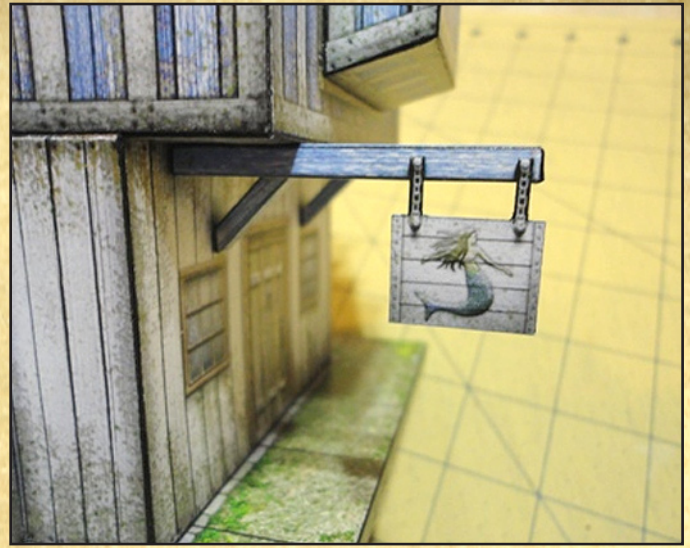
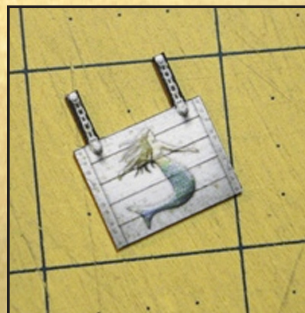
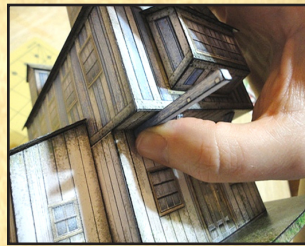
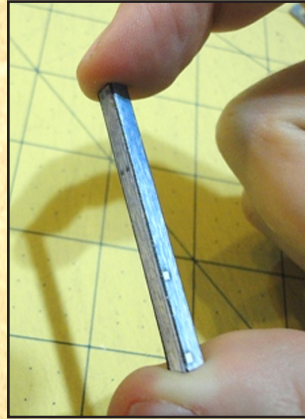
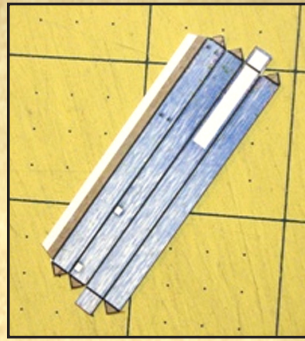
Apply glue to the white areas and attach to the north wall underside of the overhang as shown.

Score and carefully cutout the building sign.

**Modeling Tip:** To avoid bending the sign or hanging chain, cut around half of the outside edges just past the score line. Fold the sign, and then continue to the cut out the remaining parts. Alternatively, after cutting out the sign you can use the metal ruler as a brace to carefully bend the sign in half.

Apply glue evenly to one half of the sign and glue together.

Apply a small amount of glue at the ends of the chain and attach to the sign beam.



## Outhouse

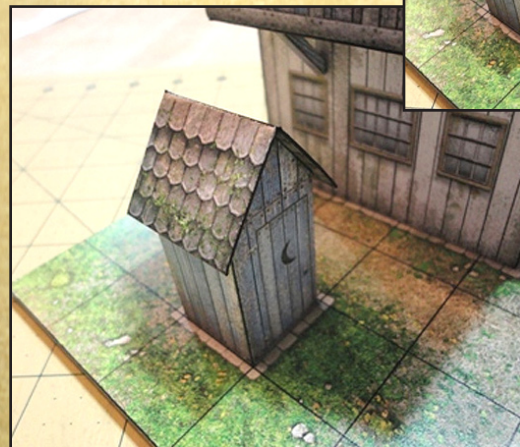
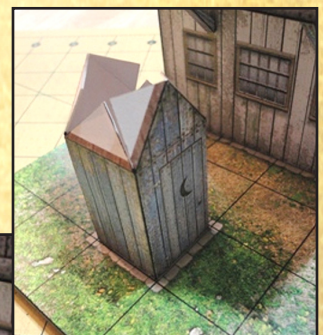
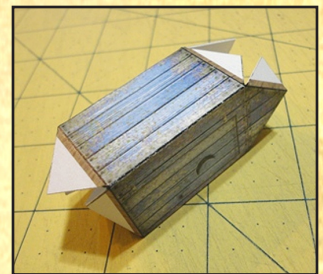
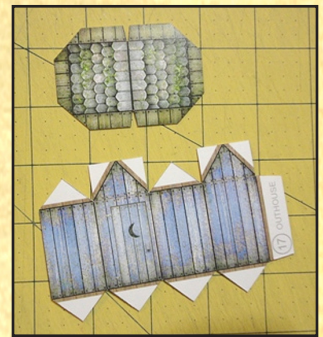
Score and cutout the outhouse and roof.

Fold at the score lines and edge where needed.

Apply glue to the right side glue tab and glue the outhouse together, making a box shape.

Add glue to the bottom glue tabs and glue the outhouse on its base.

Prepare the outhouse roof as with the other roofs noted earlier in the guide. Apply glue to the top glue tabs of the outhouse and glue the roof on evenly.



## Trunks and Lobster Traps

While there are two different styles, the crates/chests are built in the same way.

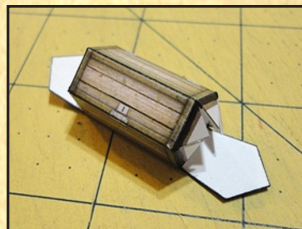
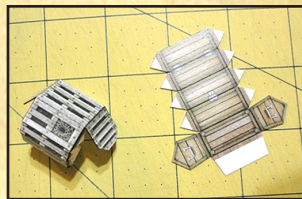
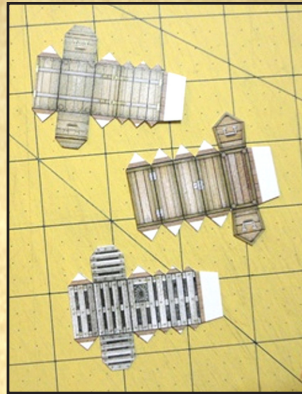
Score and cut out each crate or chest.

Fold along the score lines and edge the sides 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.

Apply glue to the long white tab. Fold the opposite side over and glue together.

One at a time, glue each of the ends to complete the crate or chest.



## Congratulations!

Your model is now complete. Choose another combination of textures and print a new one!

**Author's Note:** To build this model as pictured in this instruction guide, use the Mermaid-Tavern.pdf prepared version provided with this set.

## Paper Modeling Guide

Be sure to check out this fully illustrated handbook that focuses on papercraft techniques to make the most of kits from Dave Graffam Models. You'll find lots of practical advice and tricks you might not have seen elsewhere.

