

WILLOW BROOK INN DETAILED ASSEMBLY INSTRUCTIONS

ASSEMBLY, WRITING & PHOTOS BY JERRY JENSEN

MODEL DESIGN BY DAVE GRAFFAM

LAYOUT BY JERRY JENSEN & DAVE GRAFFAM



THE BASICS

MODEL SPECIFICATIONS

Design Multi-Layered PDF
Single-Layered PDF

Dimensions (including base):

Length 12"
Width: 7.25"
Height: 8.9"
w/chimney: 9.5"

Page Quantity 14 (multi-layered)

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%

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.

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.

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

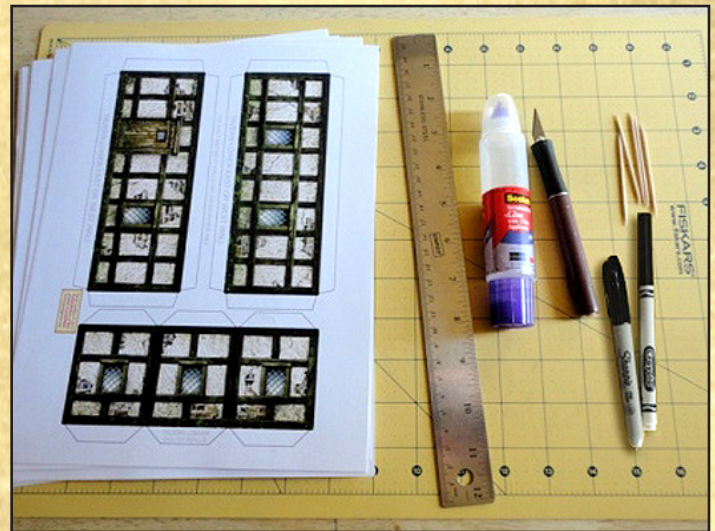
ASSEMBLY INSTRUCTIONS

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 laid out for use.



Model Base

To help make building the model easier, start with the base. Cut out each of the sections as shown.

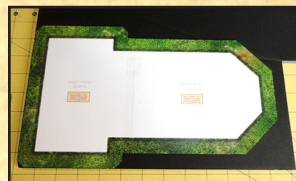
Edge the sides with a black marker.

Modeling Tip: If mounting the base on a piece of foam core, consider the following tips:

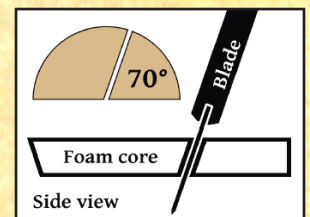
Cut off the glue tab and fit the 2 pieces together using Scotch tape in the unprinted section. Flip the pieces over to the unprinted side and use a black marker to line the outside edge. This will hide any white areas along the edge when glued to the foam core.

Make sure the piece of foam core is large enough to cover the entire base.

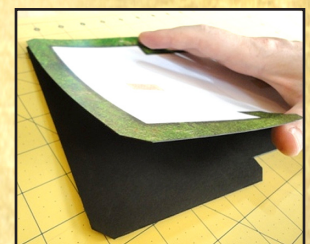
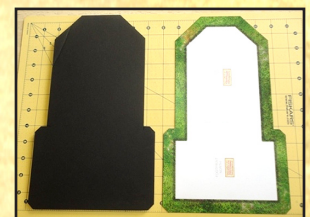
Use a pencil to outline the base.



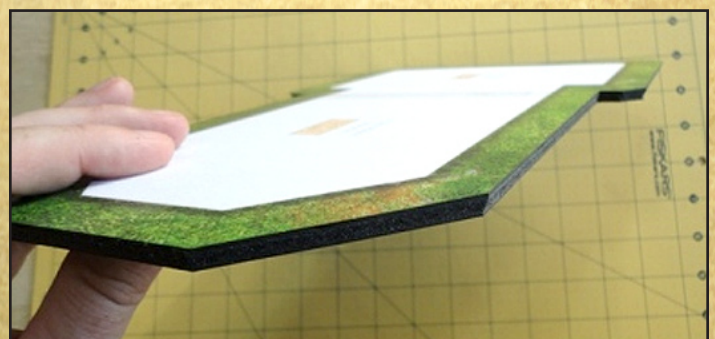
Use the metal ruler and hobby knife to cut out the foam core. Cut at a 70 degree angle along the edges. Be sure to dry fit the base to the piece of foam core, making any adjustments as needed.



Use spray glue (or glue of choice) on the piece of foam core. Starting with one corner, carefully attach the base to the piece of foam core. Work around the base smoothing down the edges as you go.



Completed view for reference.



Tower Lower Walls

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

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

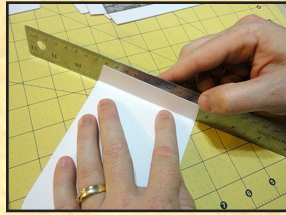
Fold the glue tabs as necessary.

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 one corner of the building and apply glue to the glue tab.



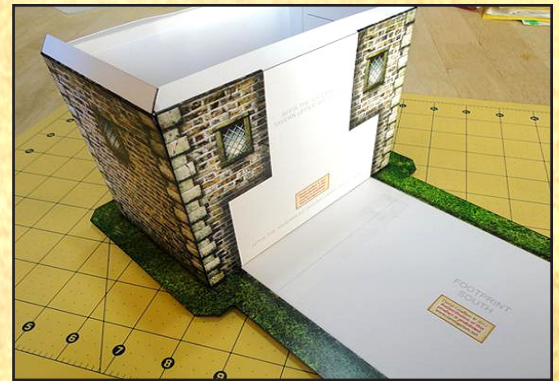
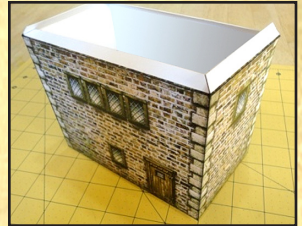
Align the wall sections and glue the two pieces together.

Continue gluing each wall section to complete the main walls.

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.

Dry fit the lower walls to the base for gluing placement.

Apply glue to the bottom glue tabs and glue to the base.

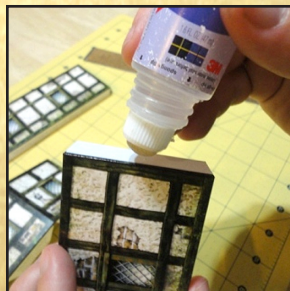


Tavern Lower Walls, Part 1

Score and cut out all three lower wall sections as shown.

Edge the sides as needed. Start with the east or west wall and glue to the south wall.

When finished with gluing the three sections together, set them aside for now.



Upper Tavern Floor, Part 1

Score and cut out the upper tavern floor. Edge the sides.

Turn over to the unprinted side and line the edge with the marker as with the base of the model.

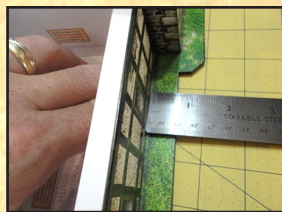
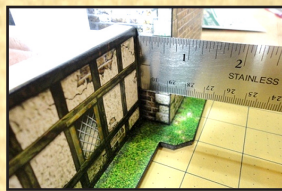
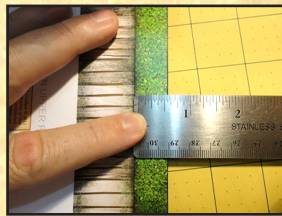
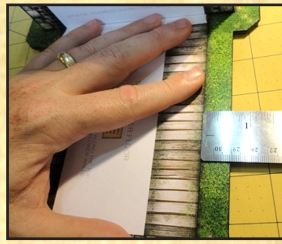
Modeling Tip for Accurate Wall Placement: Placing the tavern lower wall section evenly on the model may get a little tricky. To help with this, consider the following suggestions:

Use the upper tavern floor as a guide to measure the placement of the tavern lower walls.

The distance from the edge of the base to both side walls should be $5/8"$ (0.625) or (15.875mm); or $9/16"$ (0.5625) or (14.2875mm) if your ruler has a little space at the edge.

This measurement should also be the same when dry fitting the tavern walls against the back tower wall.

Going through the measurements and placement of the tavern lower wall section will give greater understanding as to how the model fits together when gluing.



Tavern Lower Walls, Part 2

Start with one side of the tavern wall and apply glue to the bottom and back tabs. Carefully place in position, measuring the distance as you go.

Glue both the opposite side wall and south walls at the same time. Position and apply the opposite wall first, measuring as before followed by the south wall.



Modeling Tip: The beveled (or 45° angled) walls should be the same distance from the edge as the tavern side walls. The south most wall will be a slightly different measurement to the edge of the base. The important note is to keep the walls straight so as to align properly with the tavern roof.

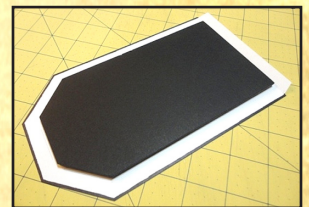
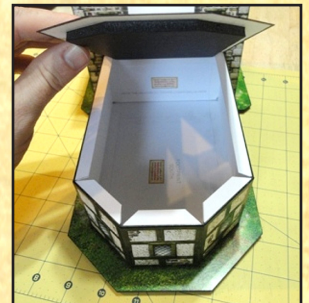
Upper Tavern Floor, Part 2

Modeling Tip: To give more durability to the tavern floor, add a piece of foam core underneath, adjusting for the tabs.

Dry fit the tavern floor to the walls before gluing.

Apply glue to the tavern wall glue tabs and the glue tab of the tavern floor. Attach the tavern floor to the lower walls.

Modeling Tip: The distance from the tavern floor to the top of the back tower wall is $2-1/8"$ (2.125) or (54mm).



Tavern Upper Walls

Score and cut the upper walls.

Fold the glue tabs and wall sections as needed. Edge the sides and dry fit before gluing.

Apply glue to the side glue tab.

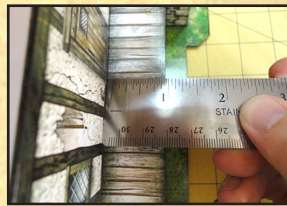
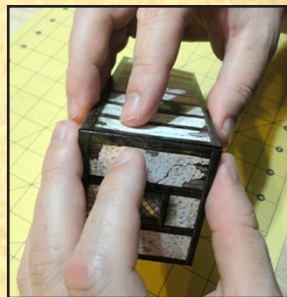
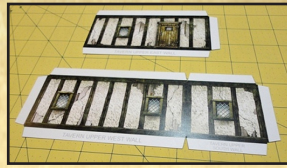
Glue the two sections together.

Modeling Tip for Accurate Wall Placement: As with the lower tavern walls, measure the distance of the upper walls from the tavern floor before gluing.

The distance of the upper walls (on both sides) from the tavern floor should be $7/8"$ (0.875) or (22.225mm); or $1-1/8"$ (1.125) or (28.575mm) if your ruler has a little space at the edge.

The distance of the upper walls (on both sides) from the back tower wall should be $1-3/4"$ (1.75) or (44.45mm); or $1-5/8"$ (1.625) or (41.275mm) if your ruler has a little space at the edge.

Apply glue to the bottom glue tabs, carefully place the tavern upper walls and measure the distance as you go.



Tower Upper Walls

Score and cut out the upper level walls.

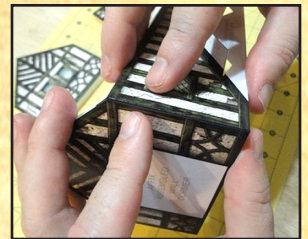
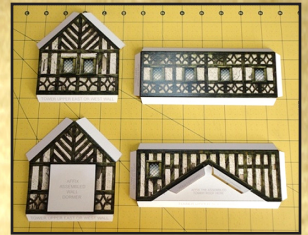
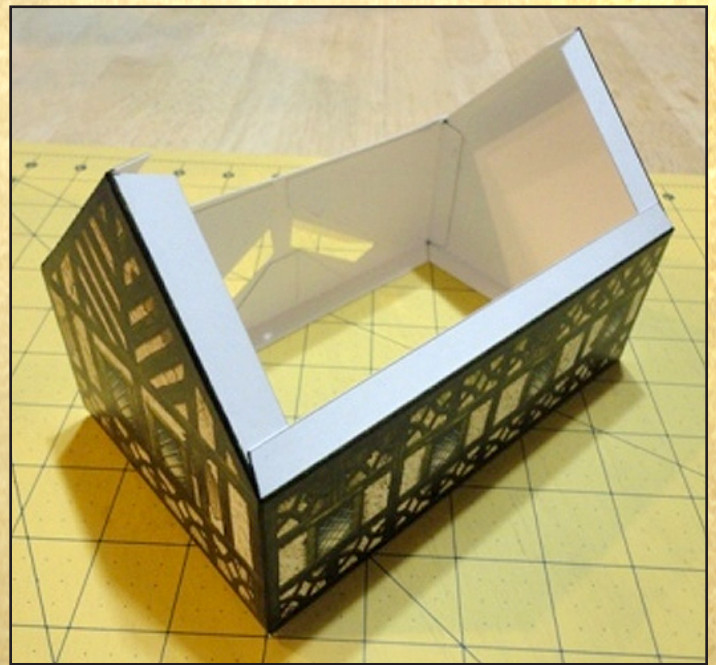
Modeling Tip: Cut the bottom glue tabs to a 45 degree angle. The walls will fit more evenly on the upper level floor.

You may also want to reinforce these walls with a second sheet of cardstock as noted earlier.

Fold the glue tabs and edge the sides using a black Sharpie marker.

Modeling Tip: For the east and west walls, turn over to the unprinted side and edge the sides with the black marker to hide any white areas after gluing. Start with two wall sections and glue together.

Continue gluing each of the upper wall sections until the top section is complete, which should look like this:



Upper Level Floor

Cut out the upper level floor.
Edge the sides with a black Sharpie.

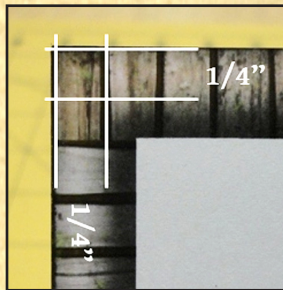
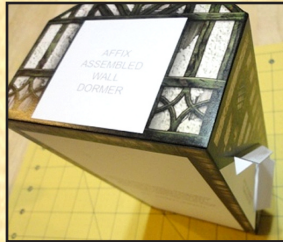
As with the other sections of the model, turn the piece over and use the Sharpie along the edges. This will hide any white lines in case the upper walls don't align perfectly to the floor.

Glue the floor to the Upper Level Walls.

Modeling Tip: To attach the floor to the upper walls more easily, apply spray glue to the un-printed side of the floor. Carefully align the floor piece at the corner of the upper floor walls, working from corner to corner. Once all the corners are aligned, carefully flatten down the sides.

To align the upper tower section evenly, measure $\frac{1}{4}$ " (0.25) or 6.35mm on each side.

Dry fit the pieces before gluing the upper and lower tower sections together.



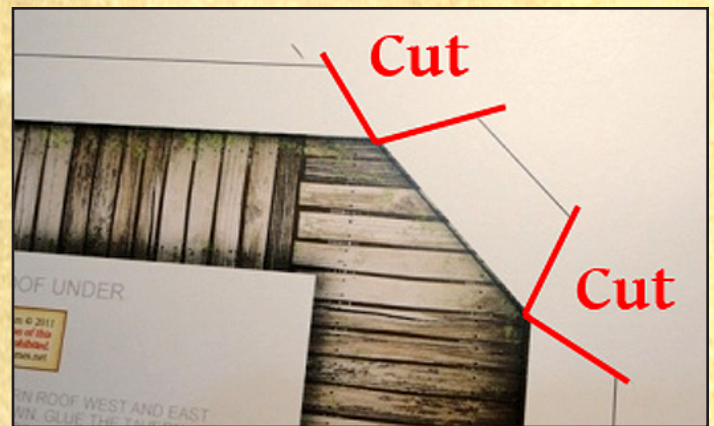
Tavern Roof, Under Section

Score and cut out the under section to the tavern roof.

Modeling Tip: To reverse score some of the harder to reach areas, refer to the following tips:

First, cut any 'V-shaped' areas along the model.

Next, align the metal ruler on the line to reverse score. Make an incision before and after the line.

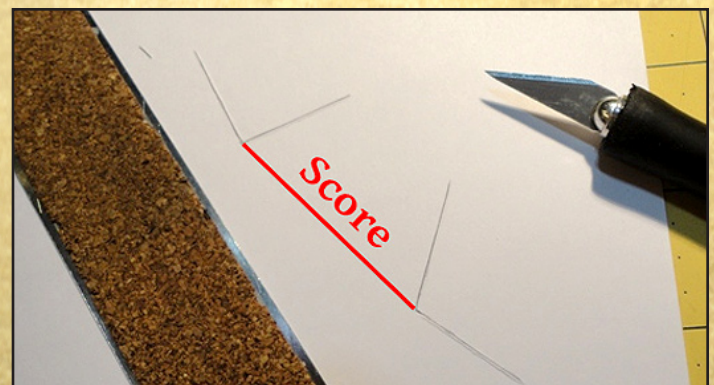


Flip the paper over.

Line up the ruler along the 2 cut marks and, using the back on the blade, score between the 2 'V-shapes'.

Fold the glue tabs and edge where needed. When finished, set this aside.

Modeling Tip: For a more durable roof, reinforce the under section with a second piece of card stock.



Tavern Roof, Top Section

Score and cut out the two top sections of the roof.

Fold the wood tabs, roof angles and edge the sides using a black Sharpie marker.

Glue the 2 sections together. When dry turn the roof over and glue the wood flaps flat.

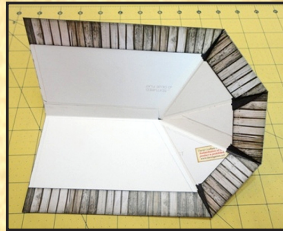
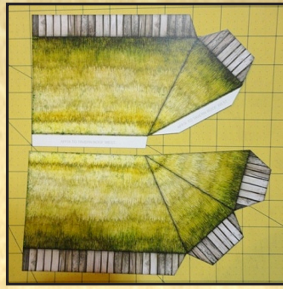
Use a black marker to fill in any potential white areas.

Modeling Tip: For a more durable roof, reinforce each roof section with a second piece of card stock.

To glue the under section evenly, follow one or both of the options below:

Roof Supports: Score and cut out both roof supports.

Fold and glue together. Glue both to the inside of the upper roof section. This will help give the proper distance when gluing the under section.

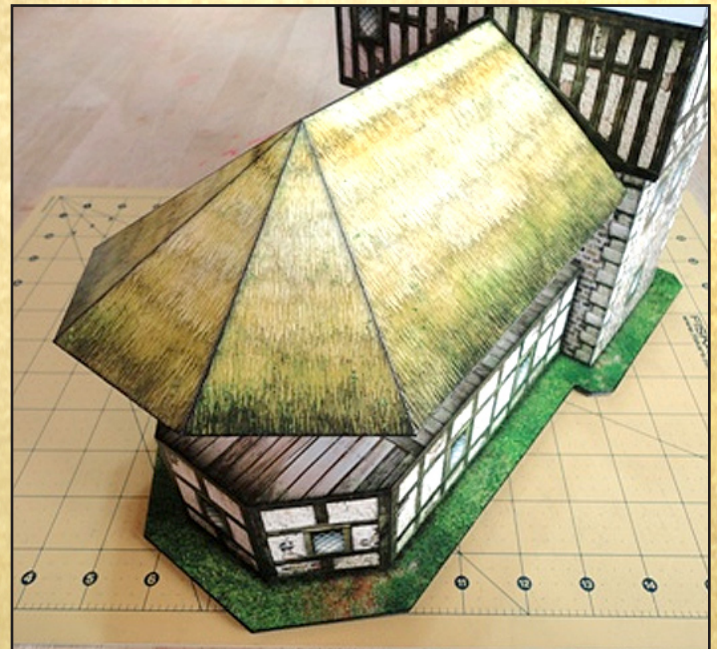
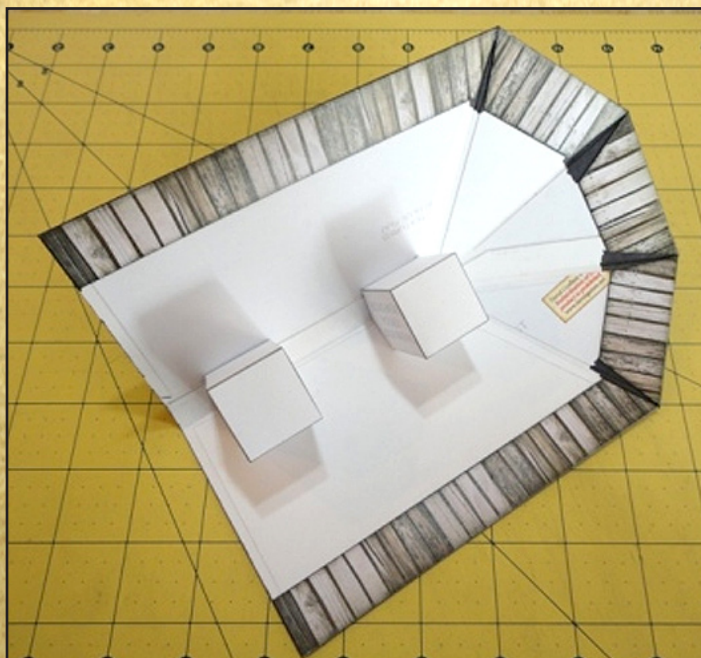
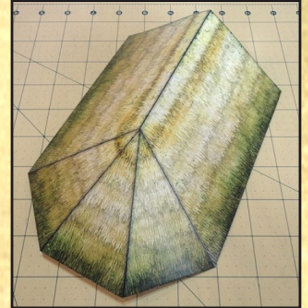


Measure for Under Section: Dry fit the under roof section to the top section. Measure $\frac{5}{8}$ " (0.625) or (15.875mm) in from the edge all the way around the roof and mark lightly with a pencil. Ensure the corners of the under section line up with the fold lines of the upper roof.

Apply glue to the glue tabs of the under section and glue to the roof top section which should look like this-

Apply glue to the upper tavern wall tabs and fold out support tabs on the tower walls to attach the tavern roof.

Modeling Tip: There may be a white 'bar' from the roof under roof section extending out from the south wall. If so, use a black marker to color it in.



Wall Dormer

Score and cut out the wall dormer.

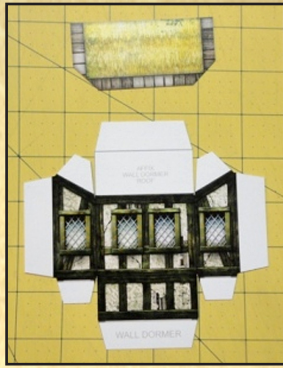
Fold along the glue tabs and wall sections and edge the sides where needed.

Modeling Tip: To help with gluing the dormer to the inn, lay the model on its side.

Glue the dormer where the bottom is flush with the bottom of the tower upper wall.

Fold the wood overhang tabs of the dormer roof over and glue to the underside of the roof.

Glue the roof to the dormer as shown.



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.

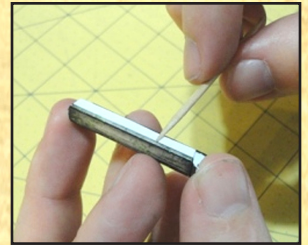
Modeling Tip: For a straighter look to the support beams, use the metal ruler as a guide and carefully fold each section up by using the hobby blade.

Use a black Sharpie and edge the sides before gluing.

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

When completed, glue to the underside of the dormer.

Modeling Tip: As with gluing the wall dormer, to help with gluing the support beams to the bottom of the wall dormer, lay the model on its side.



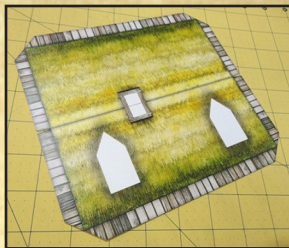
Roof

Score and cut out the roof.

Fold the wood-textured tabs, edge with a black Sharpie and glue.

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 and carefully attach the roof section. Be sure the corners of the tabs are well glued to prevent the roof from peeling up.



Chimney

Score and cut out the chimney.

Fold and edge the sides with a black Sharpie. Glue the side piece together first.

Glue the chimney to the roof.



Roof Dormer

Score and cut out the dormer and roof sections.

Starting with the roof, fold and edge the sides with a black Sharpie.

Glue the overhang tabs to the underside of the roof.

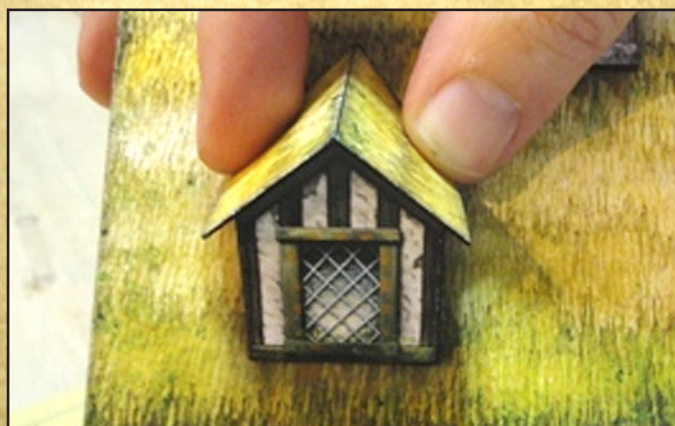
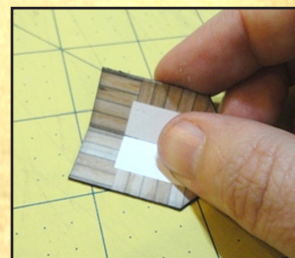
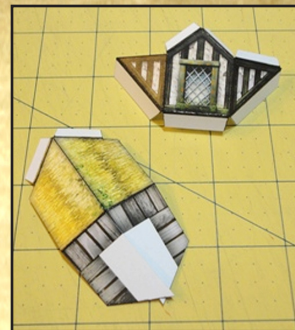
Modeling Tip: Again, for straighter edges, use the metal ruler to fold the tabs and then use your thumb to crease the folds.

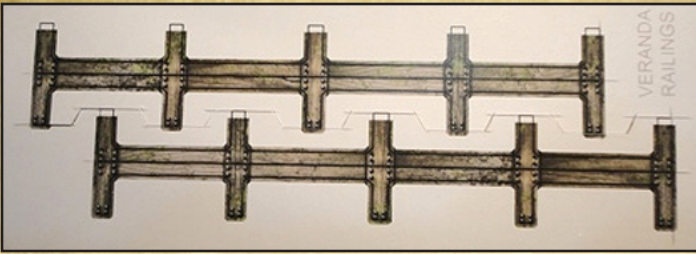
Modeling Tip: To keep the long skinny dormers the same width, first measure the front of the dormer.

Glue the bottom tabs together keeping to the same measurement as the front of the dormer.

Align the dormer and glue to the main roof.

Add the dormer roof.





To print the model shown in these images, have the following layers turned on:

Page 1

Door
Windows 1
Windows 2
Beams 2
Plaster
Brick

Page 2

As is

Page 3

Roof - Thatch
Stone Corners
Door
Windows
Brick

Page 4

Roof - Thatch
Stone Corners
Windows 1
Windows 2
Brick

Page 5

Windows
Beams 2
Roof - Thatch
Plaster

Page 6

Windows
Beams 1
Plaster

Page 7

Add Wall Dormer 1
Beams 1
Roof - Thatch
Plaster

Page 8

Chimney Seat 2
Thatch
Brick

Page 9

Door
Windows 1
Windows 2
Beams
Plaster

Page 10

As is

Page 11

Thatch

Page 12

Hide Chimney
Thatch

Page 13

Grass

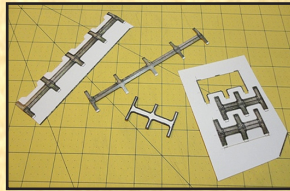
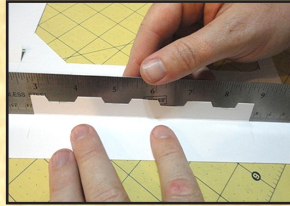
Page 14

Grass

Veranda Railings

Score the center line for each of the Veranda railings. Start with the long railings and cut a zigzag line between them as shown.

Modeling Tip: Before completely cutting out each railing, use the metal ruler to fold one side for easier gluing later.



Carefully cut out each of the railing sections.

Edge the sides with a black Sharpie.

Edging the underside will hide any potential white lines when gluing the railing together.

Fold and glue the railing together.

Modeling Tip: For a straighter look of the railings, work on the hard surface of the cutting mat.

Glue each of the railings to the balcony as shown.



Congratulations! You've completed the Willow Brook Inn.

