Inventor's House

28mm/30mm Scale
Cardstock Model Files
by Dave Graffam

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USING THE TEXTURE LAYERS

This model includes PDF files with multiple layers that you can make visible or invisible. To adjust the layers, open up one of the PDFs, then open the Layers menu. Expand the Layers Palette to reveal the selection. Some of the layers will be visible to start off with; most will be invisible. Click on the 'eye' icon to change a layer's visibility.

By choosing different combinations of textures, you can create a unique look for your model. When you're happy with your design, just print it off.

PRINTING TIPS

These PDF files are set up for the standard 28mm-30mm tabletop wargaming scale, and for US letter-sized (8.5" x 11") sheets. Turn off any 'fit to page' options in your printer driver. If you are printing on A4-sized sheets, you may want to reduce the print size to 95% of the original.

GLUE AND PAPER TIPS

To get the best results, experiment with different papers and glues, and take advantage of whatever printing methods you have available. I prefer laser color copies printed on 80# or 110# (199 gsm) matte cardstock.

The best choice of paper and glue will depend a lot on the printing method that you choose. I use a low-moisture, tacky glue. Small dabs of ordinary white school glue usually does the trick, but for covering large areas I like to use a glue stick.

When applying glue, a thin and even coat is much better than a heavy glob. I cut up excess cardstock into little squares, and keep these handy so that I can spread out glue onto tabs. It's a good idea to keep some slightly-damp tissue if you need to wipe up extra glue, but be careful about this is if you're using ink-based prints.

MODEL ASSEMBLY BASICS

Using scissors or a hobby knife, carefully cut along the outer black lines of each piece. Using a hobby knife, carefully score along each of the remaining lines. (To *score* a line, lightly drag the tip of your hobby knife.) After scoring, lightly fold back along each of these scored lines. Note that some sections may be folded forward instead.

DIFFERENT SCALES

This model works best at its original size, but if you really want a challenge you can try to reduce its scale. 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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ASSEMBLY INSTRUCTIONS

STEP 1. After printing your pages, use scissors to separate the components. Don't cut directly along the outer lines yet. Cut up some of the excess paper into small pieces that you can use later to help spread glue evenly where needed.

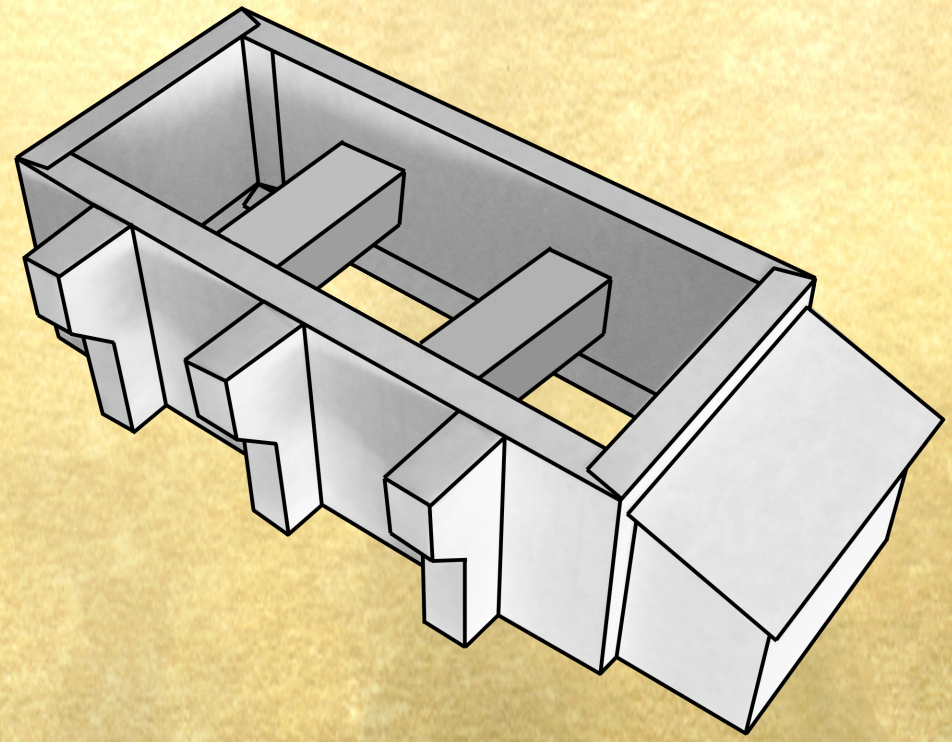
STEP 2. Using either your scissors or hobby knife (with an aluminum cork-backed ruler if you have one) carefully cut along the outer black lines.

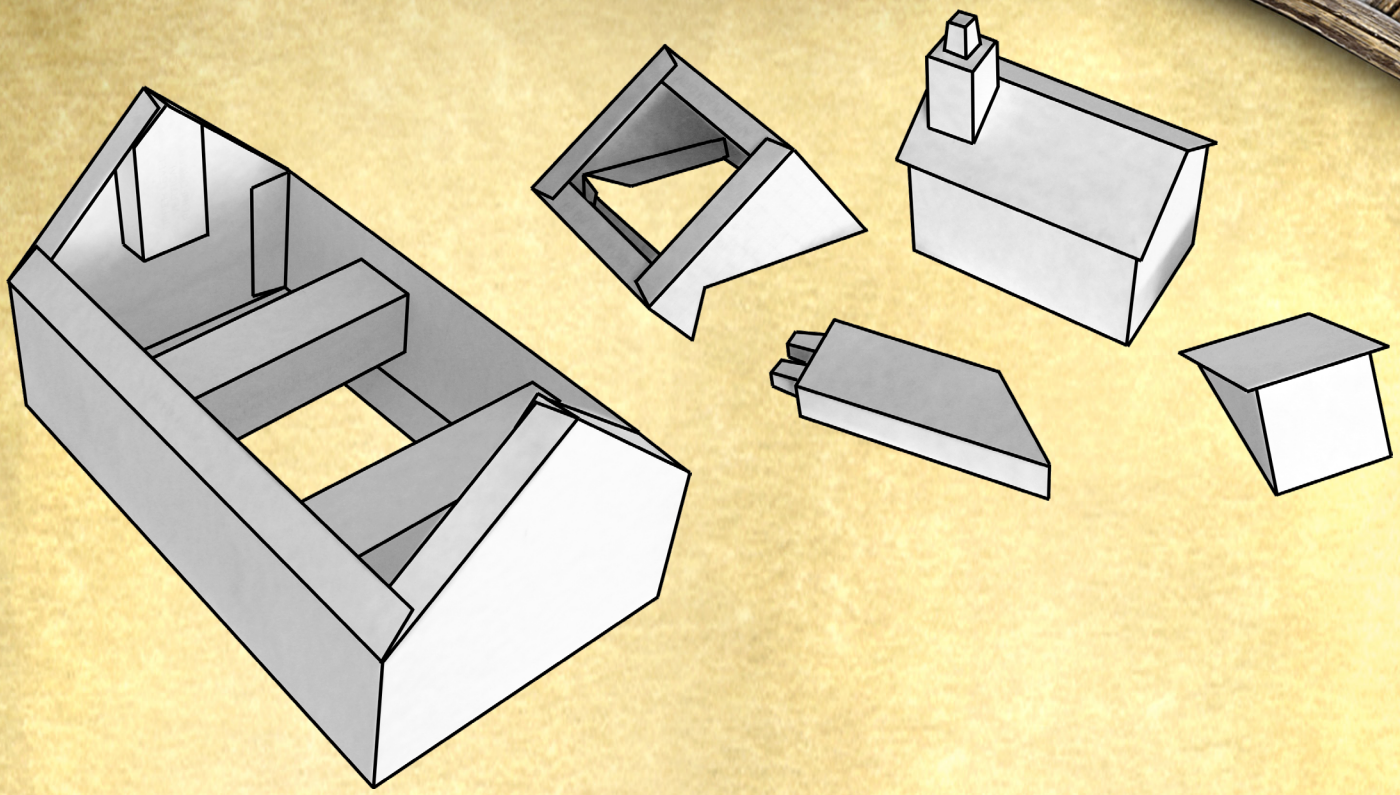
STEP 3. Using your hobby knife (with a straightedge if you have one) carefully score along the folding lines. To score a line, lightly drag the tip of your hobby knife along it, not cutting through the paper but instead applying just enough pressure to make it easier to fold.

STEP 4. Lightly fold back along all of the scoring lines, except for the small tabs on the buttresses that should be folded forward.

STEP 5. Using ordinary glue, begin building the four lower walls into a rectangle by affixing their tabs to one another.

STEP 6. Assemble the buttresses, lower level interior reinforcers, and the annex if it's included. Glue the reinforcers in place, and affix the buttresses and annex to their positions on your lower walls.





STEP 7. Now assemble your four upper walls and allow to dry.

STEP 8. Carefully attach the upper floor piece to the tabs along the bottoms of the upper walls. Remember to affix the floor piece so that the printed side is face down.

STEP 9. Assemble the upper level reinforcers, roof reinforcers and the two wall dormers (and their roofs). When dry, affix these in place.

STEP 10. Create the two halves of the main roof and attach them along the center tab. Then attach it to the tabs along the tops of the upper level walls.

STEP 11. Assemble the various small pieces, such as the chimneys, roof dormer, roof connector, platform (with the platform reinforcer inside), roof shed, platform railings and beams. Adding these pieces to your model should be straightfoward from this point just by referencing the photos.

STEP 12. When your model is complete, you may use a fine-line gray or black ink pen to color in the white paper that shows along the edges. If you're so inclined, you may cut a piece of black foamcore to the size of the model's footprint and glue it to the base of your model for extra stability. However you decide to finish your model, you can always print out another one with different texture layers and add it to your gaming table.