

PN157 N Scale Grange House

CHECK LIST

This kit should contain the following:

- 1 x SHEET A. Printed sheet containing house walls and roofs etc.
- 1 x Plain grey card strengtheners.
- 1 x Glazing sheet.
- 1 x Roof ridge tile sheet
- 1 x Instruction booklet.

READ THROUGH ALL THE INSTRUCTIONS BEFORE YOU START.

This is a complex kit that requires particular attention to detail, so proceed with care!

To construct this kit you will need the following:

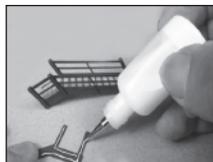
1. A modellers knife.
2. A pair of sharp scissors.
3. A steel ruler.
4. Glue - See glues.
5. Ultra Fine Tip Glue Applicator, see below.
6. A cutting surface - a sheet of card or cutting mat will do.
7. Fine point tweezers.
8. A magnifying glass on a stand is helpful for fitting tiny components.
9. Watercolour paints and fine brush.
10. Bulldog clips or clothes pegs are good for clamping whilst glue sets.

METCALFE Ultra Fine Tip Glue Applicators.

These bottles are essential for gluing the smaller components in this kit. Code MT907



Tiny strips and spots of glue can be accurately laid down with precision.



INSTRUCTIONS

GLUES

UHU Solvent Free All Purpose Adhesive.
Also SPEEDBOND by Deluxe Materials.
see www.deluxematerials.com
All work in our Ultra Fine Tip Applicators.

GETTING STARTED

1 EXTRACTING COMPONENTS FROM THE BASE SHEETS.

To stop the components from falling off the printed sheet, they are held secure with score lines (marked with blue arrows) that cut about 75% of the way through the card. To release them run the point of your knife along these scores and they will come seamlessly away.

WARNING, Cut with care using a knife that is not too sharp, this will reduce the risk of the blade running off the score and cutting the components.

2 MAKE YOUR 'BUILDERS YARD'.

As you extract the components from the base sheets they need to be kept away from your working area on a thick piece of card or a tray until needed.



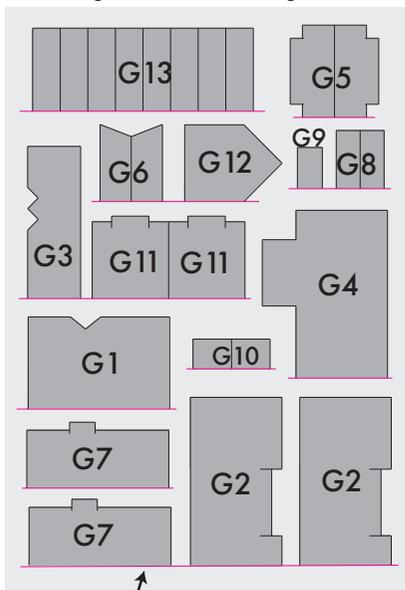
Extract all the components from the printed sheet and the grey strengthener sheet.

The plain unprinted grey strengtheners can be easily misplaced, so to keep track of the small components, mark them as you put them in the builders yard.



3 Plain Grey Card Strengtheners.

These are the plain card pieces that fit inside the kit to strengthen and hold it rigid.



Red lines indicate score rules you need to cut to release components from base sheet.

Key:

- G1.** Back wall for lean-to building.
- G2.** Base floors for main house x 2.
- G3.** Inner wall for main house.
- G4.** Upper floor for main house.
- G5.** Gabled building base floors x 2.
- G6.** Gabled building side wall stiffeners x 2.
- G7.** Lean-to building base floors x 2.
- G8.** Porch inner side wall spacers x 2.
- G9.** Porch ceiling card.
- G10.** Door steps x 2.
- G11.** Base floors for side extension x 2.
- G12.** Back wall for side extension.
- G13.** Chimney spacers 2 sets of 8.

4 Painting Corners & Edges.

Before you go any further it is best to paint the white card that shows on the corners and edges NOW before any building work.

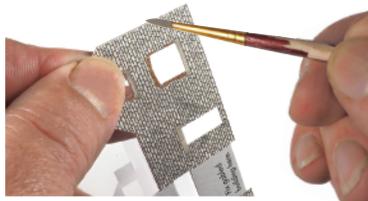
All you need is a simple set of water colour paints and a fine brush. We use these Rowney paints and the lid is used for mixing the colours.

Mix your colour with lots and lots of water, approx. 1 part paint to 5 parts water or more.

TEST ON WASTE CARD FIRST UNTIL YOU HAVE THE CORRECT SHADE & COLOUR.

You don't want to be painting a solid line of colour, you only need to tint the card a little. Fold corners fully back then run the brush along the score and let the watery tint soak in.

Rub in the paint and wipe off any excess.



Also paint all inner edges of window and door openings and any edges that are likely to show.

5 Glazing and Window Frames.

Cut out all the plastic window glazings and then attach each one to the back of its corresponding window frame - ie. W2 to the back of W2 as shown here and so on.

Place tiny spots of glue around the edges of the glazing with your fine tip glue applicator.



Then place the window frame on top with the glazing positioned in the centre of the opening.

Repeat with all the other windows and doors.

ERRATUM

Due to a cock-up in the window frame numbering department:-

Glazing W7. fits behind **Window Frame W6.**

Glazing W8. fits behind **Window Frame W7.**

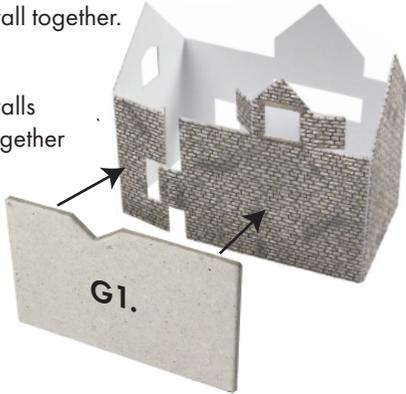
It is self evident when you fit them.

So now that we have told you, there's no need to point it out to us.

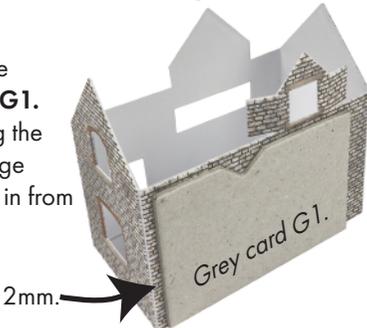
6 Main House Walls.

Fold the walls around so the two sections of the back wall meet. Fix the 'lean-to' back wall **G1.** against it and push the interlocking parts of the back wall together.

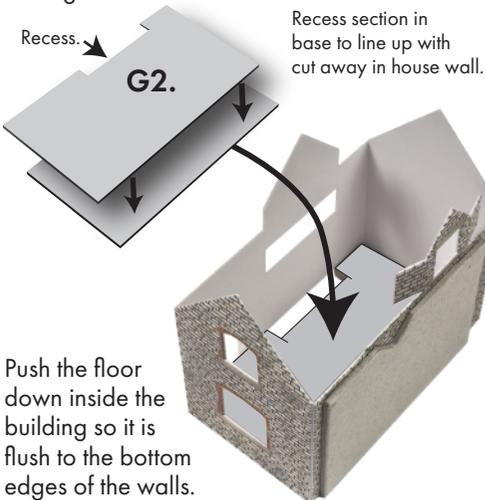
Push walls tight together



Position the grey card **G1.** flush along the bottom edge and 2mm. in from the corner.



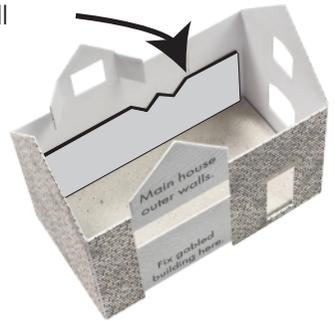
Glue the two house base cards (**G2.**) together all edges flush.



Push the floor down inside the building so it is flush to the bottom edges of the walls. Then with your glue applicator place tiny spots of glue around the edges to hold in place.

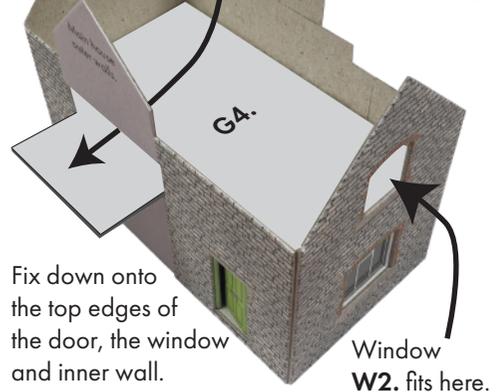
Fix the inner wall **G3.** against the back wall.

Fix down onto the base card.



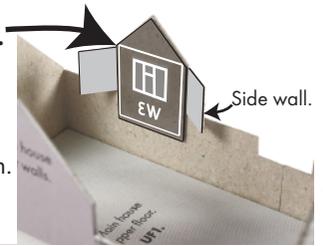
Fit the door **D1.** Both door and window sit down tight to the base card. You may need to trim to fit. Test first without glue.

Fit upper floor **G4.** into the building with the extended section pushed through the front wall opening.



Fix down onto the top edges of the door, the window and inner wall.

Fit window **W3.** to the dormer window. Make sure side walls can fold in.

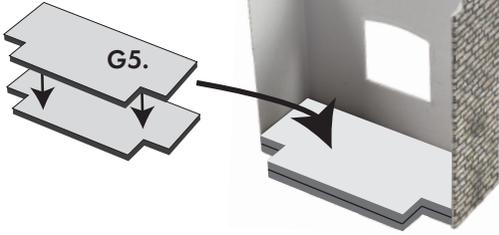


7 Gabled Building.

The small gable building fits against the front wall of the main house.

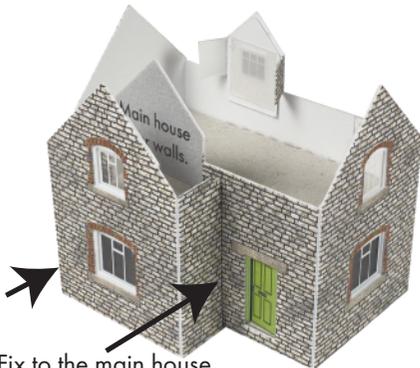
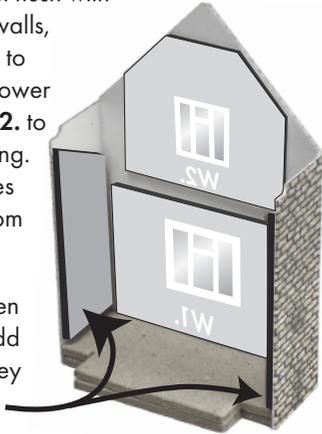
Fix the two grey floors **G5.** together with all edges flush.

Then fix the floor inside the building with the side walls folded around.



With the floor set flush with the base of the walls, fix window **W1.** to the back of the lower opening and **W2.** to the upper opening. Centre the frames when viewed from the front.

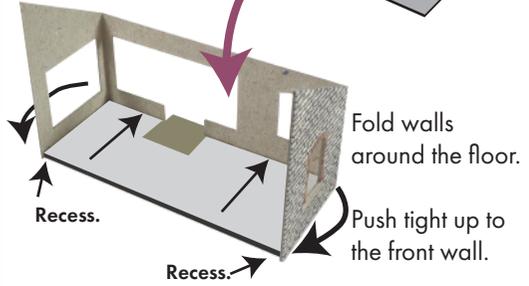
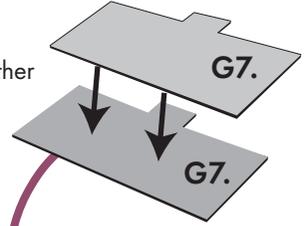
To help strengthen the side walls add the two small grey stiffeners **G6.**



Fix to the main house with the floor tab slotted into the building.

8 Lean-to Building.

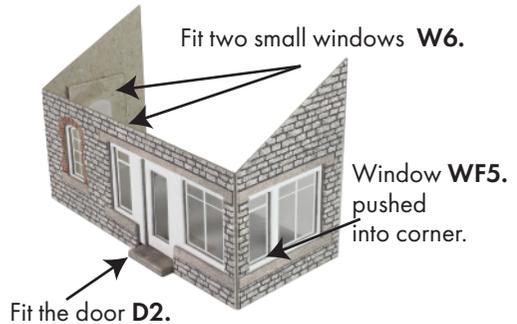
Fix floors **G7.** on top of one another. All edges flush



The floor is slightly shorter leaving a 1mm. recess along the back edge. This is to allow space for the back wall (**G1.**) when fitted to the house.

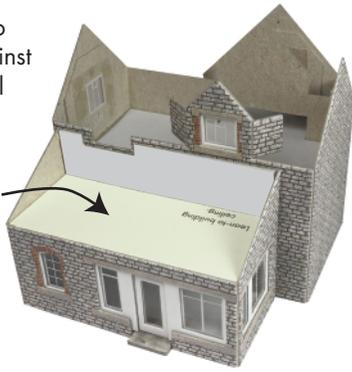


Test windows **W4.** and **W5.** first, you may want to trim a tiny bit off bottom edges.

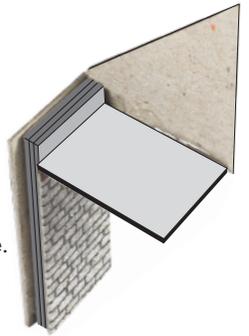


Fit the lean-to building against the back wall of the house.

Then drop in the ceiling.



Fit the ceiling (Grey card **G9**) on top of the inner side wall and level with the lintel. This will hold front and side walls at right angle.



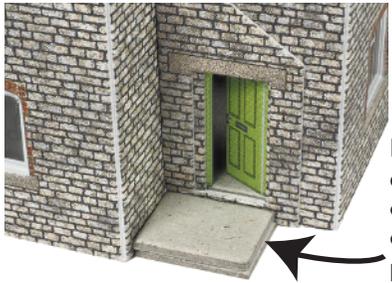
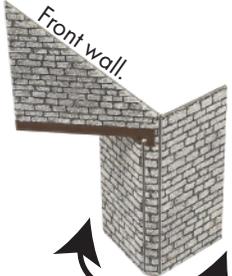
Fix the roof.



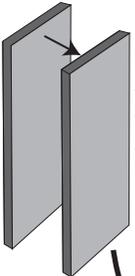
Fix the porch back wall against the house wall pushed into the corner.

9 Front Porch.

The porch side walls fold around to form a thick wall.

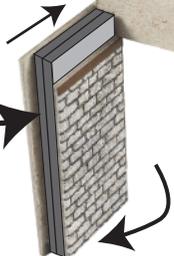


Fit the two doorsteps one on top of the other pushed into the corner.

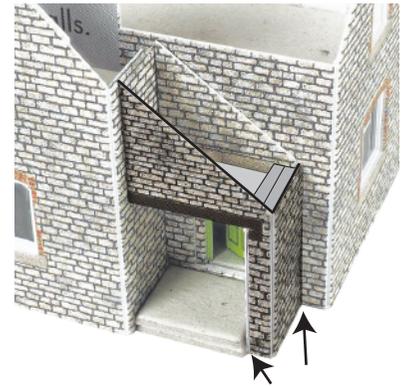


Glue the two grey porch spacers **G8**, together to form a solid block.

Fit in between the two side walls. Push in to the end.



Note: This inner wall is shorter than the outer wall.

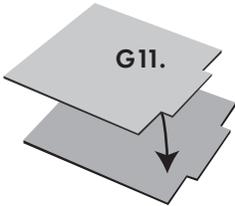


Fit the porch to the house. It fits up against the door step and the back wall. The rest just fits in place in the corner above the door.



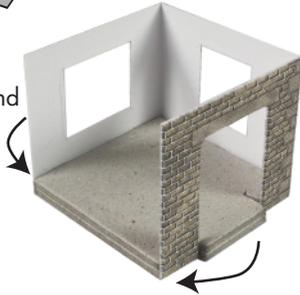
Finally fit the roof.

10 Side Extension Building.



Glue the two **G11.** grey floor sections together. All edges flush.

Fit the walls around the floor. Floor sitting down flush with wall bottoms.



Fit windows **W7.** & **W8.** to their openings. See Erratum on page 2.

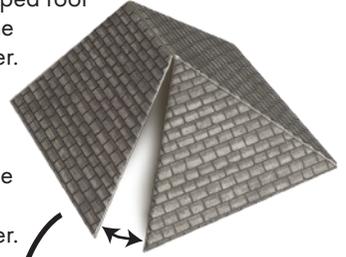
Note: You may need to trim bases to fit, test first.

Fit door **D3.**

Fit the end wall flush to the edges of the walls and base.



The printed hipped roof sits on top of the blue roof former.



Place spots of glue all over the surface of the blue roof former.



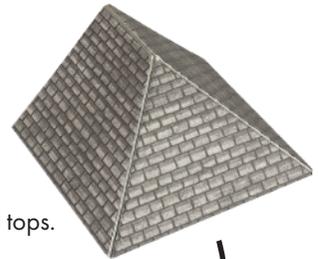
Fit the printed roof on top of the inner former and work the gaps together on both until closed.



Viewed from inside see the gaps closed and both roofs fitting together so the inner roof sits directly up to the outer printed roof.

The printed roof overhangs on all edges.

When fixed to the building, the inner part of the roof sits directly on the wall tops.



Fix building to side of house before fitting the roof.

11 The Roofs.

Fit the main house roof.



You will need to cut a small nick in the top corner of the porch roof to allow the main roof to sit without bending. **TEST FIRST WITHOUT GLUE.**

When fixing all roof sections, hold firmly on all points of contact to ensure they don't spring up.

Fit the gable roof. When attaching the sloping parts fix with tiny spots of glue applied along the underside of the edges.

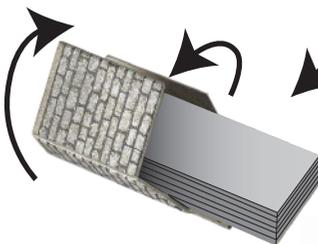
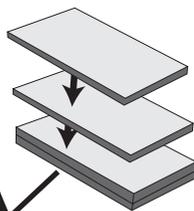


Now carefully fit the dormer roof.



12 The Chimneys.

Take 4 x **G13** chimney stack inner spacers and glue them together in a block with all edges squared up.



Wrap the chimney stack around the block. Top edge flush with the inner block. Both chimneys fit together in the same way.

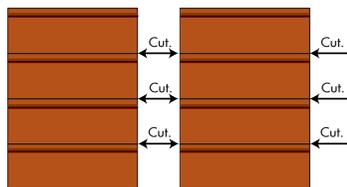
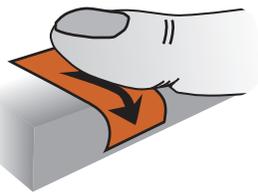


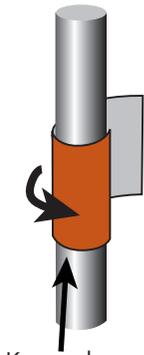
The Chimney Pots.

Cut out the terracotta coloured strips (below) roll each one tightly around a metal rod to form a cylindrical shape.

Drill bits, nails or even knitting needles can be used for this job. It needs to be 3 or 4mm. in diameter for 00 scale.

Curl the strip slightly first by dragging it over the edge of your worktop underneath your thumb





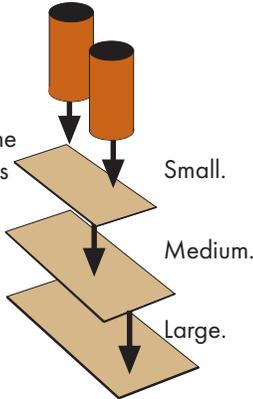
Keep edges straight.

Then roll the strip of pre curled paper around the metal rod.

Roll up tight and keep rolling until the paper is fully curled around.

Then unroll the end back out just enough to smear with a little glue, then roll back up and hold tight until the glue has set.

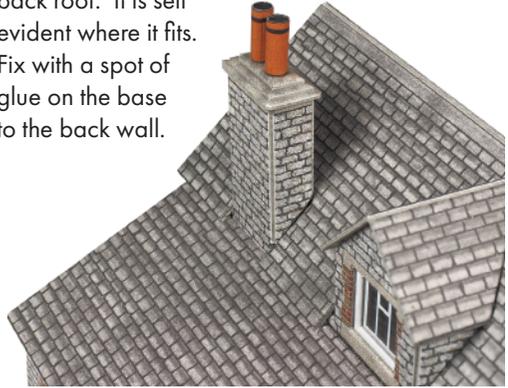
Mount the pots on to the chimney capping stones before fixing to the main chimney stacks.



Spots of glue here to fix to inside wall when fitting. See next picture.



The long chimney fits down in the middle of the back roof. It is self evident where it fits. Fix with a spot of glue on the base to the back wall.

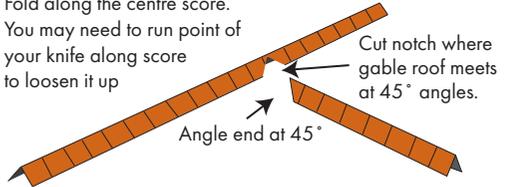


The other chimney stack just slots in it hole no glue needed.

13 The Ridge Tiles.

These along with the chimney pots are a little bit fiddly to fit, but make a world of difference to the overall finish of the kit.

Cut to length first. Fold along the centre score. You may need to run point of your knife along score to loosen it up



Paint the white card that shows along the score and on all edges. Use watercolour paints, warm red, a little brown mixed in and very much watered down. Test on waste card first.

