

PN973 N Scale Low Relief Town House

INSTRUCTIONS

PLEASE - PAY ATTENTION
Carefully read through all the instructions to familiarise yourself with the kit and the components before you start to build.

COMPONENT CHECK LIST

This kit should contain the following:

- 1 x PRINTED SHEET - Main components
- 1 x GREY CARD SHEET - Inner Supports.
- 1 x SMALL GREY CARD - laser cut parts.
- 1 x GLAZING SHEET - Windows
- 1 x INSTRUCTION BOOKLET.

PRE-BUILD PREPARATIONS

Tools you'll need to build this kit

(all of which are available on our website: www.metcalfe-models.com)

1. A modellers knife
2. A cutting mat
3. A steel ruler
4. A pair of fine pointed tweezers
5. Water colour paint set
6. Metcalfe ultra fine tipped glue applicator
7. Glue (see below)

Glues

We recommend using a combination of two types of glue, Speed bond and Rokat card glue, both are produced by Deluxe materials.

Rokat card glue is an instant, fast drying glue which is great quickly securing components that require little positioning. It also comes with it's own fine tip applicator.

Speed Bond is a slightly slower drying glue which is ideal for the components where careful positioning is required.

UHU solvent free is also a great all round glue again ideal for the components where careful positioning is required.

Metcalfe ultra fine tipped glue applicator is essential for applying small amounts of glue to the smaller components. These bottles come in a pack of 3 and are best used with Speed Bond and UHU, simply unscrew the top and fill with the glue.



Extracting the components from the base sheets

To prevent the components from falling off the sheets they are held secure with scorelines, marked with a → These are cuts that only go about 75% of the way through the card. To release them carefully run the point of your knife along these scorelines and they will come seamlessly away, be very careful your blade does not run off the score and damage the components. Use a steel ruler as a guide especially if using a new sharp blade. Keep the components organised and away from your work area on a piece of card or tray that we will call your builders yard.

Only extract the main parts, leave the small components on the base sheet so they don't get lost.



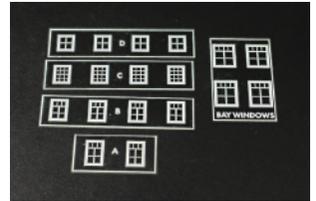
Painting the exposed edges

The exposed edges, undersides and folds of the roof sections or wall ends will need to be coloured to match the printed surface. Use some water paints, mix the colour with lots and lots of water, test against the leftover bleed on the base sheet to get the correct shade and colour. The card only has to be tinted, as a solid painted line will make it look worse. Quickly wipe away any excess paint off the printed surface before it dries. The brickwork needs a well watered down dirty yellowish brown colour.



Windows

Carefully cut out the windows along the outer white line from the glazing sheet, organise and place on a dark piece of card (so that you can see them and they don't get lost) and place within your builders yard until required.



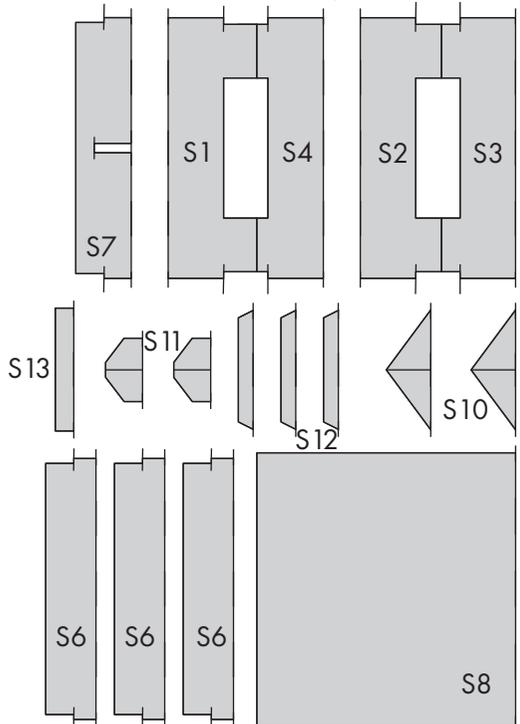
Strengtheners

The two thick, unprinted grey sheets of card holds components that strengthen the interior of the kit, one is die cut while the other smaller one is laser cut. Below is a key to each of parts with an abbreviated code, this code will be referenced in the instructions.

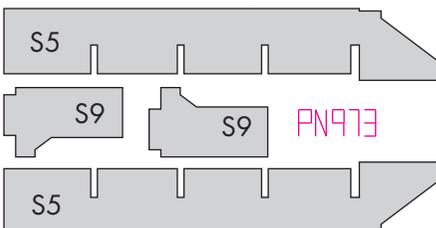
- S1, S2, S3 & S4 - House base with steps
- S5 - Side Supports (x2 on laser sheet)
- S6 - Floors (x3)
- S7 - Roof base
- S8 - House back
- S9 - Chimney formers (x2 on laser sheet)
- S10 - Roof supports (x4)
- S11 - Step wall formers (x4)
- S12 - Bay window formers (x3)
- S13 - Front wall former

Only S1 to S4 have areas that will be visible when the build is complete so feel free to write the code numbers on the parts for easier reference.

Die cut strengthener



Laser cut strengthener



LET'S START TO BUILD!

1 Window & Door Frames

Start off by matching the windows to the corresponding window frames A to D. Also add the doors of your choice to Frame A keeping the side, top and bottom edges flush with the frame.



If you'd like to add curtains to the windows do this now. See fig. 8, page 10

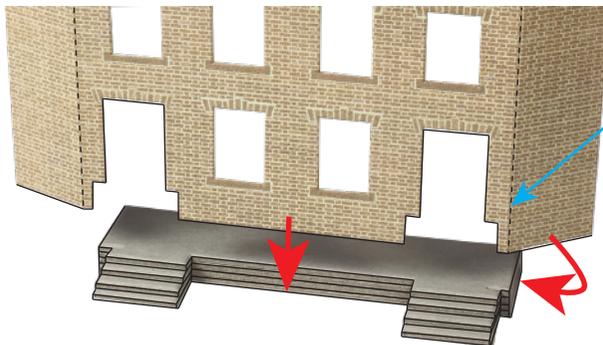
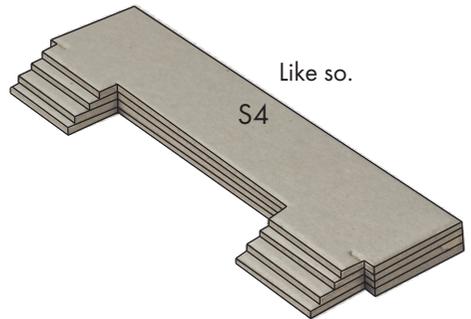
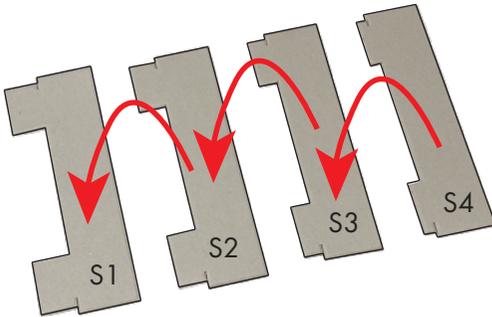


Like so.

Place the completed windows back into the builders yard for the time being.

2 House Base & Walls

Combine the four house base layers to make a solid block with two sets of steps. Start with S1 at the bottom and combine S2 keeping the edges flush, then add S3 and finally S4 on the top.

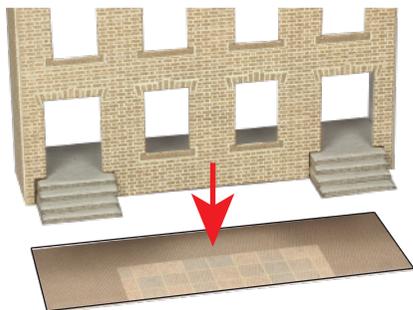


Before adding the Main walls check the scorelines fold easily, especially at the base near the door frame.

Check the fit before applying glue as it's a tight fit, then wrap the walls around the base keeping the bottom edge flush with the base.

2 House Base & Walls continued...

Now add the walls and steps to the Main base, keeping the rear, side and front step edges flush with the paving between the two sets of steps.

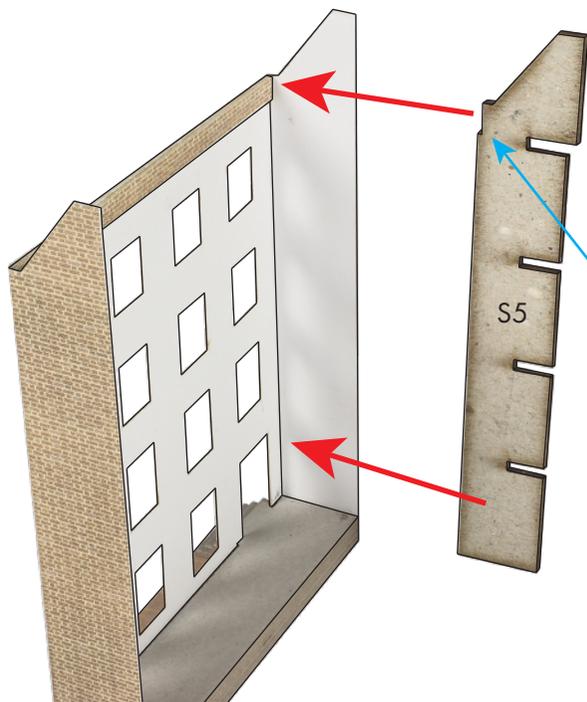
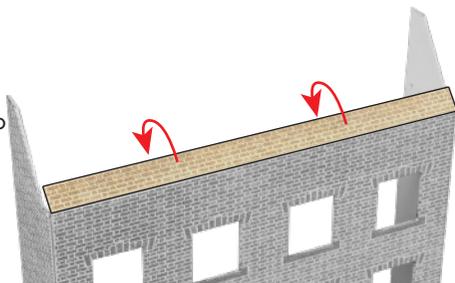


Like so.



3 Frames & Internal Strengthening

Fold over and glue the top section of the main wall, to create a two sided, double thick roof edge wall.

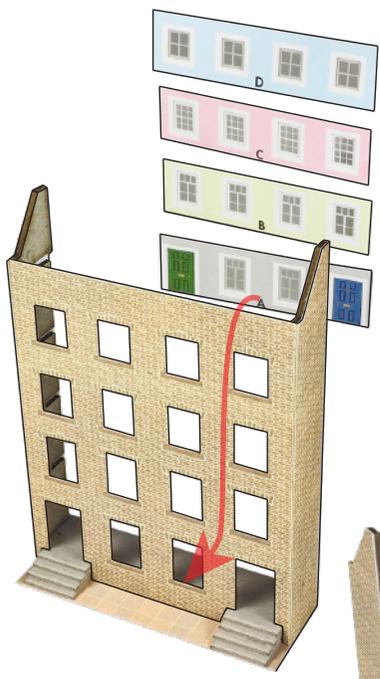


Add the two S5 side supports, fit them tight into the corner, and keep the top edges flush with the side wall.

Note the notch, this fits flush to the folded back roof edge wall.

Repeat with the opposite side.

3 Frames & Internal Strengthening continued...



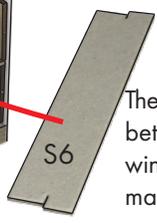
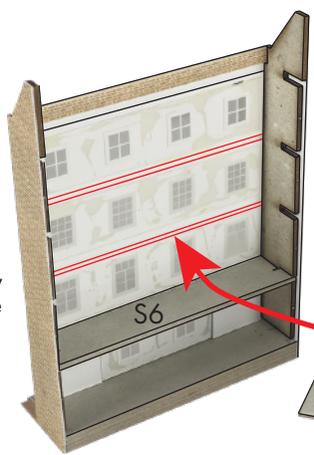
Add the window frames next. Starting with Frame A carefully align the doors and windows to the openings on the main walls and glue into position. It's best to use a glue that does not set too quickly and allows for adjustments so that you have ample time to correctly align the windows.

Work your way up with frames B, C and D.



Like so.

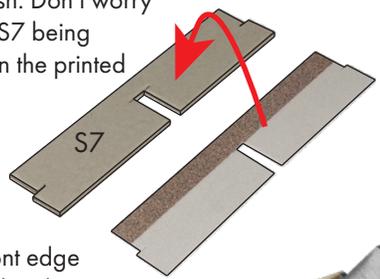
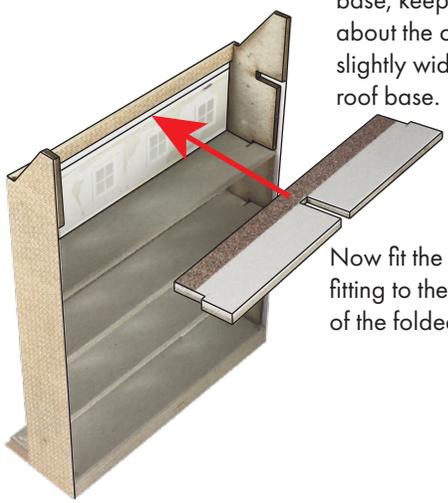
Add the three S6 floor supports, these fit into the slots on the side supports.



The front edge fits flush between the inner window frames (edges marked in red opposite)

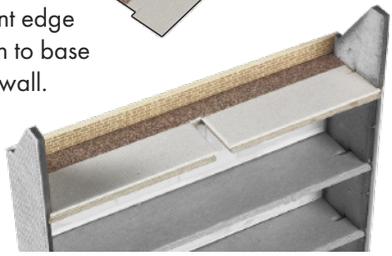
4 The Roof

Combine the Roof base to the S7 roof base, keeping the edges flush. Don't worry about the centre slot on the S7 being slightly wider than the slot on the printed roof base.

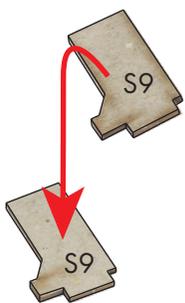


Now fit the roof base, the front edge fitting to the front wall up flush to base of the folded over roof edge wall.

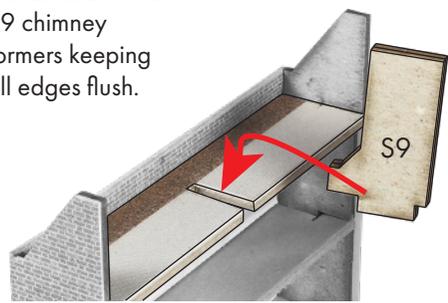
Like so.



4 The Roof continued...

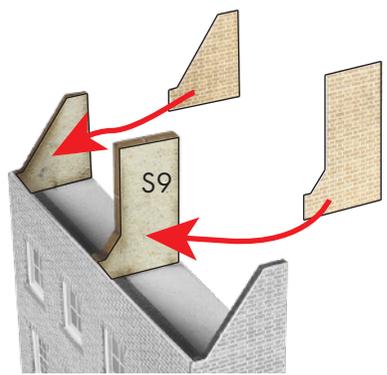
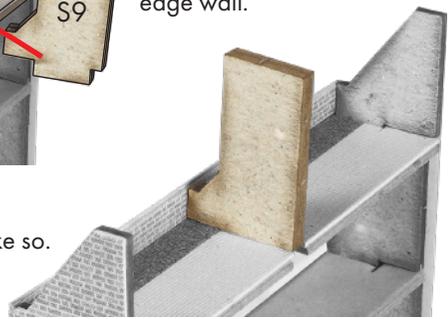


Combine the two S9 chimney formers keeping all edges flush.

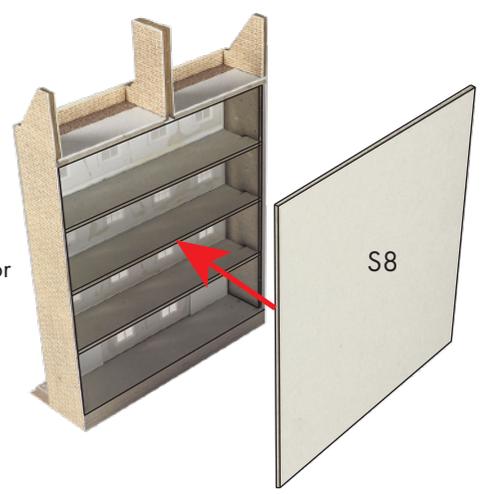


Fix the chimney former into the roof base centre slot and tight up against the roof edge wall.

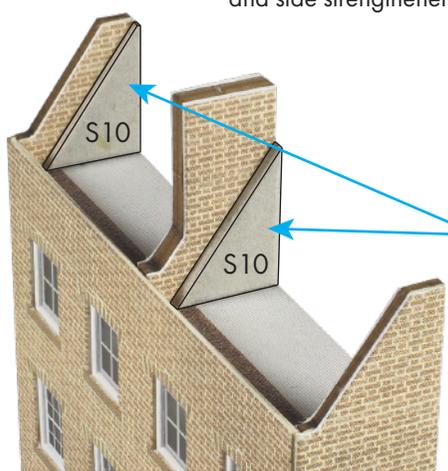
Like so.



Now add the two Roof side walls to both sides of the build. Also the two Chimney side walls to either side of S9.



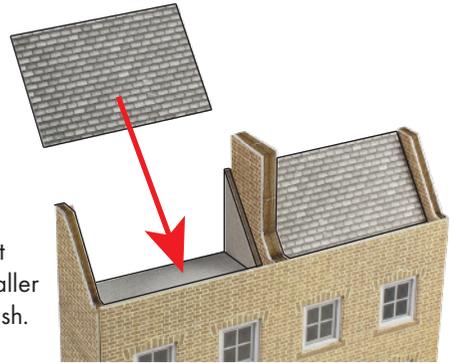
Add the house back, S8 fitting flush against the floor and side strengtheners.



Now the four S10 roof supports, fit flush with the rear edge of the roof.

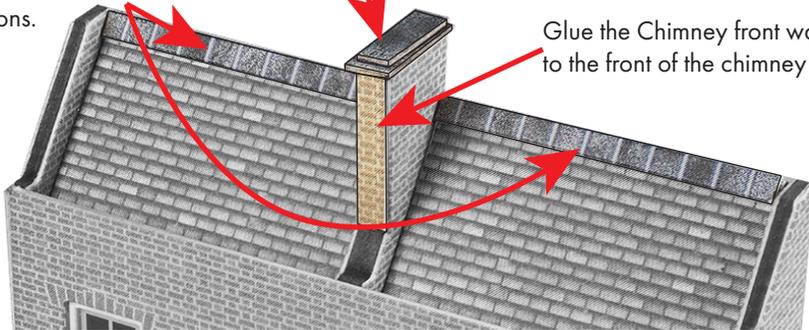
4 The Roof continued...

Slide the two Roof sections into place along the edges of the S10 roof supports and glue into place.



The Chimney top stones, fit the larger first then the smaller keeping the rear edges flush.

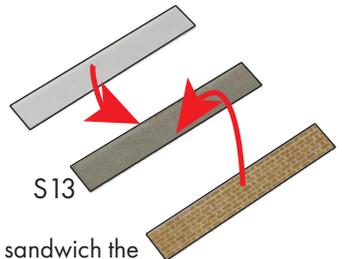
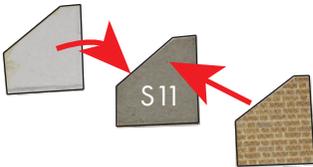
Add the two ridge tile strips to both roof sections.



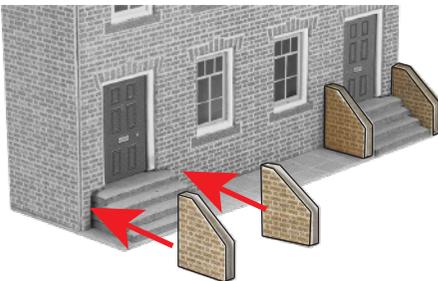
Glue the Chimney front wall (C.F.W.) to the front of the chimney stack.

5 The Step and Front Walls

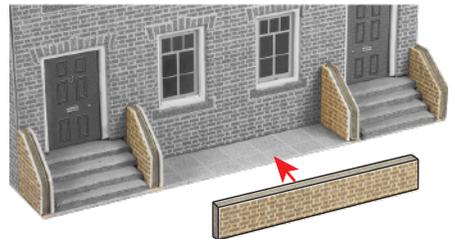
To make the step walls double sided, carefully sandwich one S11 step wall former with two Step walls. Use a slow bonding glue as these are small components and the edges need to be aligned. Repeat the process to get four complete step walls.



Again with the Front wall, sandwich the S13 Front wall former with the two front wall sections.



Fit the step walls flush against both sides of the steps, tight up against the wall of the building.



The front wall then fits flush to the front edge of the base between the step walls. Test the fit first, if needed trim to fit.

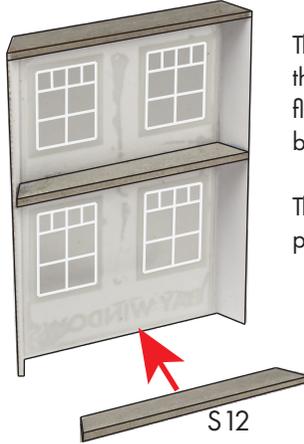
Note if adding the Bay window you may decide this wall is not needed.

6 Bay Window



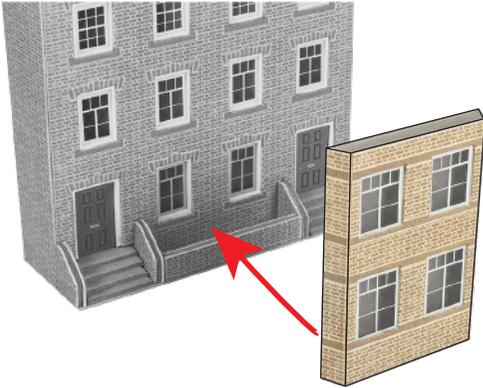
First check that the scorelines fold easily on the Bay walls, if needed carefully run your blade along the scoreline to loosen the fold.

Then align the windows to the openings and glue the glazing in place.



Then fold the bay walls around the three S12 Bay window formers, one flush with the top, one flush to the base and one in the centre.

Then add a bay window back, see page 11.



Then add the Bay window to the build, first test the fit as it's a snug fit between the step walls, then apply glue to hold in place.

Lastly add the Bay roof sections, first the larger, then the smaller, centred and flush to the wall.



7 Wall Capping Stones

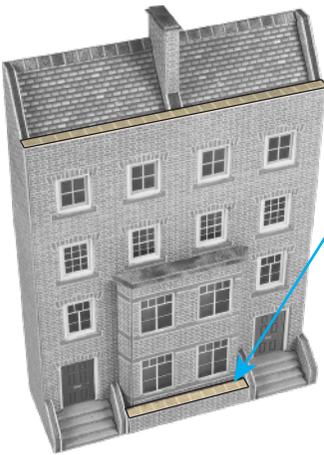
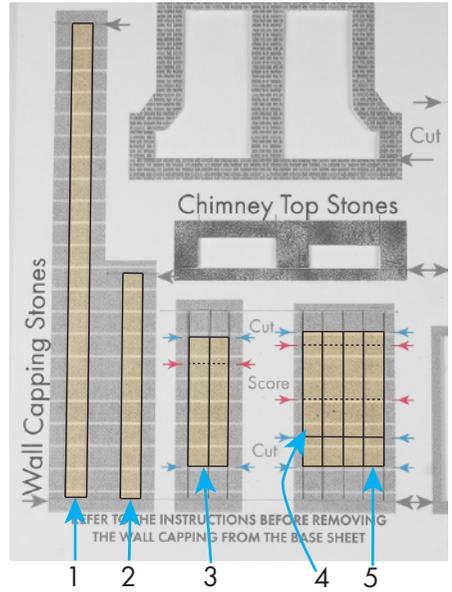
Extract the capping as you need the part to avoid mix ups. The parts from left to right are:

1. Roof wall
2. Front wall
3. Roof sides (x2)
4. Step walls (x4)
5. Chimney front (x4 but you only need 1)

For parts 3-5 you will need to manually cut to size. First off the scores, line up your ruler with the red arrows and carefully score this line.

Then align your ruler to the blue arrows and cut through the card. Note that you only need one of the small chimney capping (5) under the step wall capping (4).

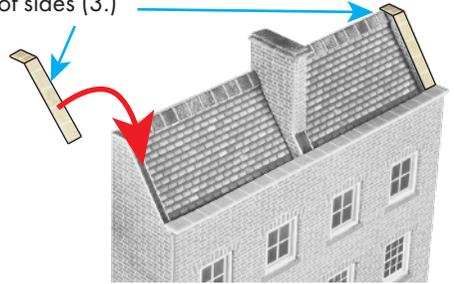
Remember to paint the exposed edges before gluing into place.



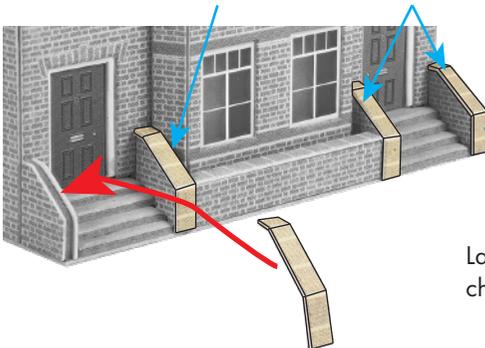
Start off with 1. - roof wall capping

Then 2. - front wall

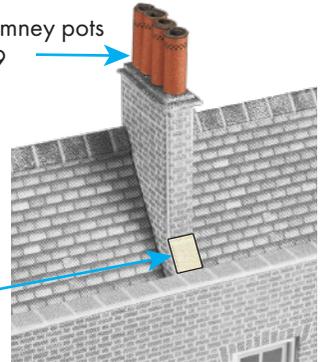
Now the two roof sides (3.)



Next the four step walls (4.)



Add chimney pots see fig.9

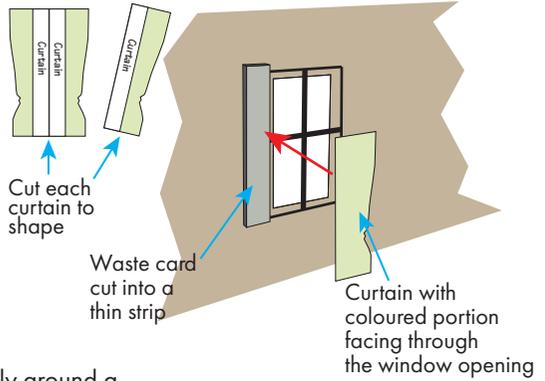


Lastly the small chimney front (5.)

8 Curtains

To fit curtains fix a small strip of waste card to each side of the window, then glue the curtain to the waste card so that it shows through the window (the waste card will space the curtain back from the window a little giving a greater effect of depth).

For extra curtains, visit this product on our website www.metcalfeamodels.com



9 Chimney Pots

Cut into strips the chimney pots, then roll tightly around a nail or rod approximately 2mm in diameter

Then unroll the end enough to smear with a little glue, then roll back up and hold tight until set. To finish dab a little paint on top of the pot.

Please Note: once you have perfected the art of rolling your own chimney pots you will soon realise that they are extremely realistic and finish the model nicely. So please be patient and keep trying, the chimney pots do make all the difference.

You can download more chimney pot sheets from our website: www.metcalfeamodels.com - navigate to this product and click the downloads tab.

There will be a pdf you can download and print.

