

PN183 N Scale SMALL FACTORY

READ THROUGH ALL THE INSTRUCTIONS BEFORE YOU START

To construct this kit you will need the following:

1. A modellers knife.
2. A steel ruler.
3. Glue - See *best glues in next column*.
4. Ultra Fine Tip Glue Applicator, see *right*.
5. A cutting surface - a sheet of card or cutting mat.
6. Fine point tweezers to hold smaller components.
7. Water colour paints and a very fine brush for painting edges and corners.

GETTING STARTED

1 EXTRACTING COMPONENTS FROM SHEETS.

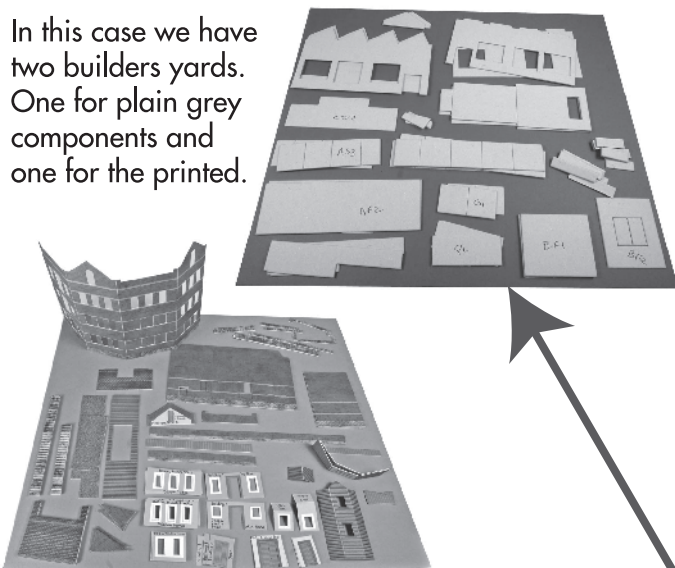
To stop the components from falling off the sheets, they are held secure with scorelines. These are cuts that only go about 75% of the way through the card. To release them run the point of your knife along these scorelines and they will come seamlessly away. These scorelines are marked with blue arrows: **WARNING**, Cut with care using a knife that is not too sharp, this will reduce the risk of the blade running out of the score and cutting into the kit components.

2 MAKE YOUR 'BUILDERS YARD'.

This is an area kept away from your working surface, where you store ALL components extracted from the base sheets until needed.

Carefully extract all the components from the printed sheets and the grey card sheets, **but NOT the steps or the strips 'G1' located on grey card 1** (see opposite).

In this case we have two builders yards. One for plain grey components and one for the printed.



Please Note:

Some components on the printed sheets don't have descriptions next to them, but it will become obvious what they are as you proceed, just don't lose them.

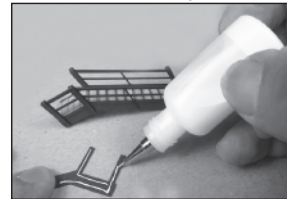
INSTRUCTION SHEET 1

CHECK LIST

This kit should contain the following:

- 1 x SHEET A. Printed with main building walls.
- 1 x SHEET B. Printed with window frames etc.
- 1 x PLAIN GREY CARD Sheet 1. see *below*.
- 1 x PLAIN GREY CARD Sheet 2. see *over*.
- 1 x GLAZING SHEET.
- 1 x RIDGE TILE SHEET.
- 2 x INSTRUCTION SHEETS.

The METCALFE Ultra Fine Tip Glue Bottles are essential for gluing the smaller components in this kit.



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



Always replace the pin after use and store the bottles upside down to keep the glue moist.

UHU Solvent Free All Purpose Adhesive Glue

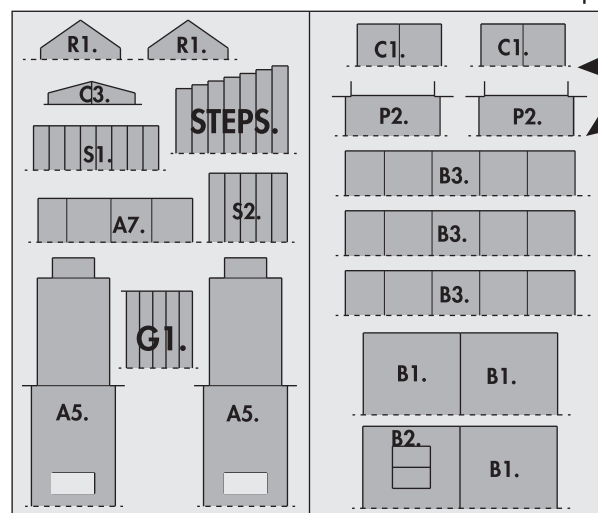
Works superbly well in our fine glue applicators. Dries quickly, but allows time for positioning of kit parts as described further on in the instructions.

Speed Bond by Deluxe Materials

This is an excellent PVA. based glue that dries quickly, but also allows time to get parts into position. www.deluxematerials.com

GREY CARD STRENGTHENER Sheet 1.

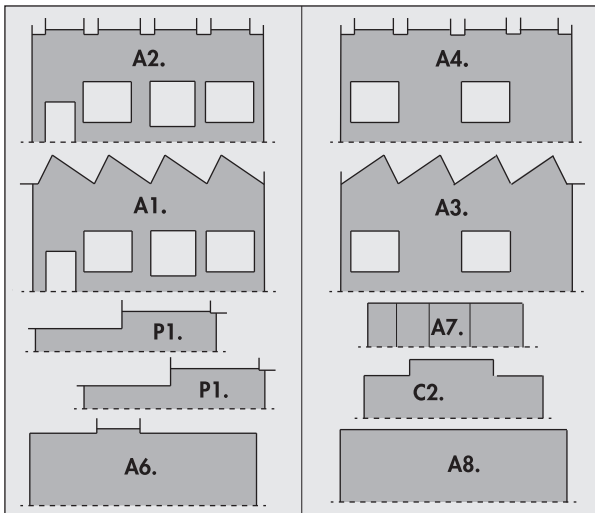
Dotted lines indicate scorelines to be cut to release parts.



- KEY.**
- A5. = Building A end wall inner strengtheners x 2.
 - A7. = Building A inner floor support.
 - B1. = Building B inner floors x 3.
 - B2. = Building B TOP FLOOR.
 - B3. = Building B inner floor spacers x 3.
 - C1. = Building A canopy support inner formers x 4.
 - C3. = Building B canopy supports x 2.
 - P2. = Building B platform formers x 2.
 - S1. = Bottom floor (short) spacers for both buildings x 8.
 - S2. = Bottom floor (long) spacers for both buildings x 5.
 - R1. = Building B roof supports x 2.
 - G1. = Building A GUTTERS x 5. **LEAVE ON SHEET UNTIL NEEDED.**
 - STEPS. - ALSO LEAVE ON SHEET UNTIL NEEDED**

Write these codes onto each grey component whilst still on base sheet to avoid any confusion once loose.

GREY CARD STRENGTHENER Sheet 2.

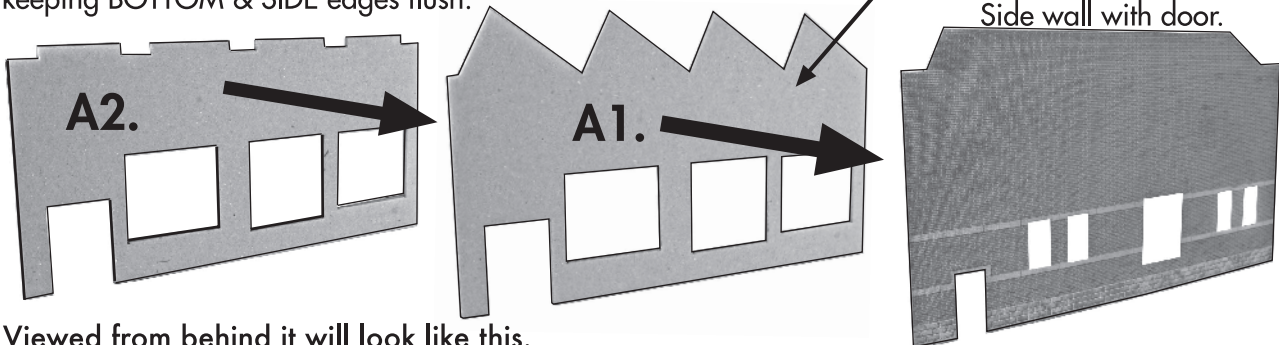


- KEY. A1. = Building A inner side wall with doorways & roof supports.
 A2. = Building A inner side wall with doorways & gutter supports.
 A3. = Building A inner side wall with roof supports.
 A4. = Building A inner side wall with gutter supports.
 A6. = Building A lower floor.
 A7. = Building A inner floor spacers x 2.
 A8. = Building A upper floor.
 C2. = Canopy positioning template.
 P1. = Building A platform inner formers.

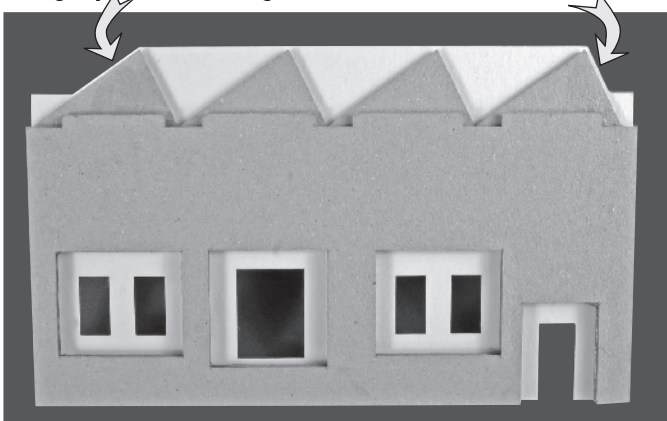
Fig. 1. BUILDING A. Side Walls.

Start with the side wall that has the door opening in the bottom left corner.

Attach the plain grey strengthener **A1.** (with pointed top edge) to the back of the PRINTED wall making sure side and bottom edges line up flush. Then attach strengthener A2. to the back of that matching up the openings and keeping BOTTOM & SIDE edges flush.



Viewed from behind it will look like this. The top sloping edges will stand slightly taller than the grey inner strengthener.

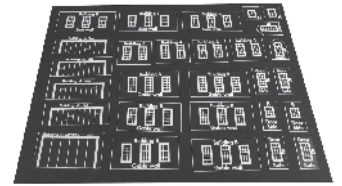


Repeat the whole process with the other side wall. Remember to fit A3. to back of printed wall first.

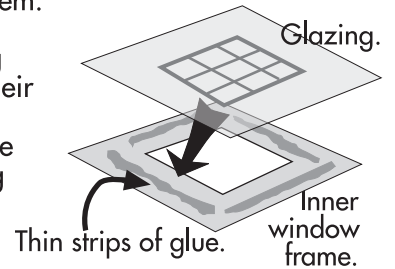
GLAZING THE WINDOWS.

Before you start with the main kit, it's best to get this job out of the way. All the side windows in both of the buildings have an opening with a window frame that fits in behind. The clear glazing is fitted to each window frame first, then fixed to the buildings later.

Start by cutting out all the clear plastic window sections. Cut along the thin white lines that mark them out. Place on a dark piece of card so you can see them.

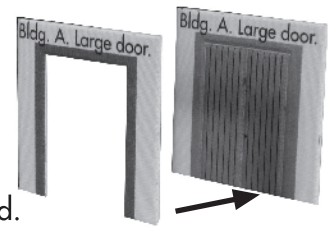


Fix each of the glazing sheets to the back of their corresponding inner window frames with the mat printed side facing through the openings.



Fix all the doors to the backs of their corresponding door frames

Place windows and doors back into the builders yard until needed.



Fit this strengthener to back of printed wall first to avoid attaching strengthener A2. to wrong side of A1.

Fit the two window frames with their glazing into the openings, centring them so the frames show through evenly on all sides, then fit the small door but NOT the larger central door.

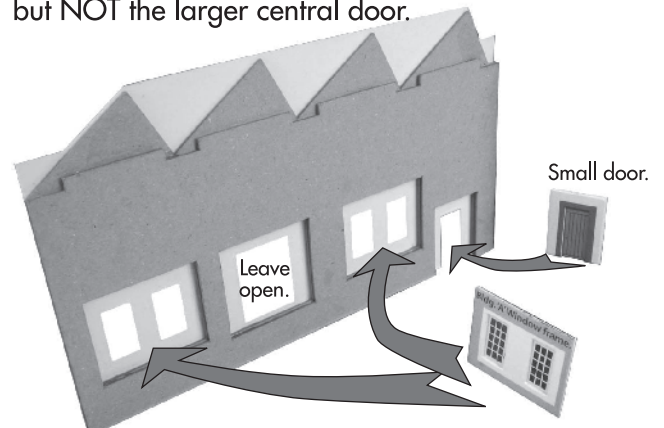
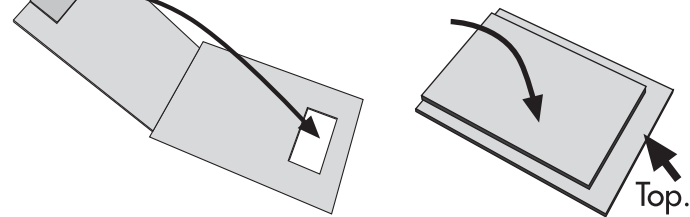


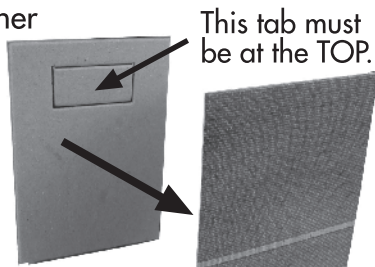
Fig.2. BUILDING A. End Walls.

Fold tab over and fix.

Take the A5. strengthener and fold the small tab over at the end and glue down. Then fold in half so that the small tab fits into the hole at the other end.



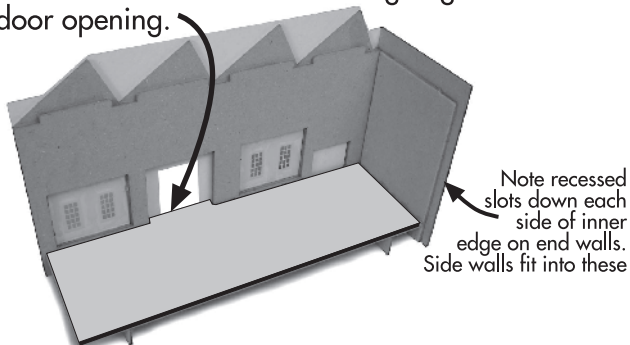
Stand the strengthener upright and fix to the back of the printed end wall. NOTE which is TOP & BOTTOM of both sheets fix with all edges flush.



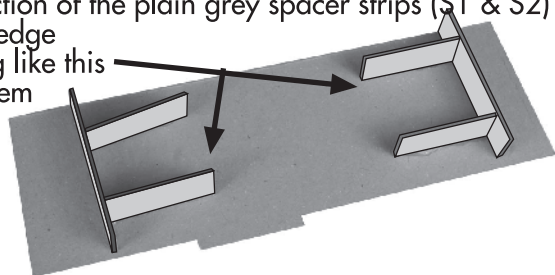
Stone wall strip must be at the BOTTOM.

Fig.3. FIX WALLS TOGETHER.

Starting with the lower floor (A6 on grey sheet 2). This fits with the small tab on its long edge slotted into the door opening.



To hold the floor at the correct height, turn it over and fix a selection of the plain grey spacer strips (S1 & S2) stood on edge something like this to hold them upright.



When fast turn the floor back over and attach to the side wall and end wall as shown above.

Now take the two grey floor spacer strips (A7 - there is one on each grey sheet) and fold each one around to form a triangular shape with the smaller of the four sides folded outside.

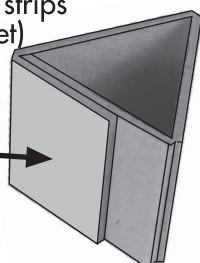
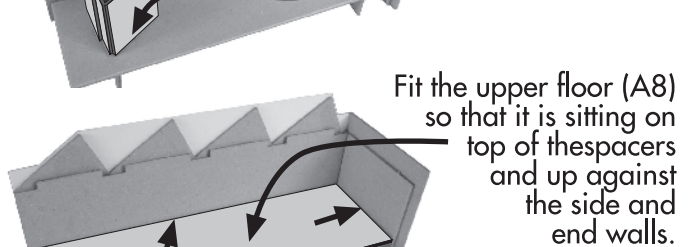


Fig.3. Continued.

First, fit the door and its frame into place.



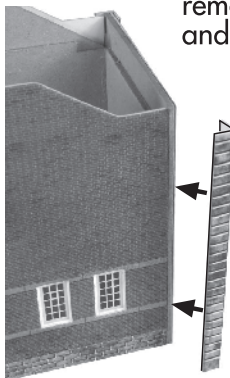
Then stand the two spacers on the lower floor.



Fit the upper floor (A8) so that it is sitting on top of the spacers and up against the side and end walls.



Then fit the remaining side and end walls.

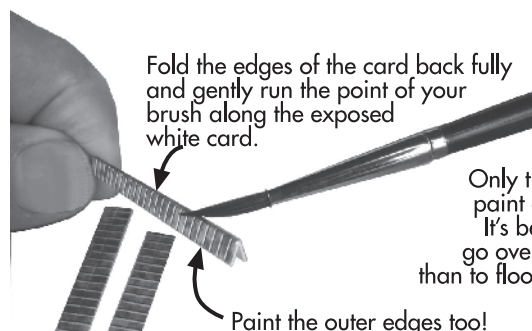


Located on sheet 'B' are the four shorter corner stone strips. Fold along the centre scoreline to form a right angle.

These fit over each corner covering the joints.

AT THIS POINT you will notice that corners and edges of these corner stones show white card underneath.

These are best painted before fitting, and it is very easily done. All you need is simple set of child's water colour paints and a very fine brush.



Fold the edges of the card back fully and gently run the point of your brush along the exposed white card.

Only tiny amounts of paint on your brush. It's better to have to go over it a few times than to flood it with paint.

Paint the outer edges too!

Mix your colour with lots and lots of water, apx. 1 part paint to 5 parts water, maybe more. TEST ON WASTE CARD FIRST UNTIL YOU HAVE THE CORRECT SHADE AND COLOUR.

Before the paint dries, run your finger along the edge to rub the colour into the absorbent white card. Then wipe away any paint that has run onto the printed surface before it dries.

Remember, you only need to just slightly tint the card with a little colour, DON'T paint a thick solid line down the edges, you will only make it look worse.

Fig.4. GUTTERS.

Remember that you were told to leave the gutters on the grey card (G1.).

Well now is the time to get them. These five strips of grey card sit down inside the building with each end sitting down into the slots on the inner side walls.

The gutters will show when the roofs are fitted, so if you think that they are a bit bright, paint them a darker colour now. Also paint the inner end walls above the gutter as that bit shows as well.

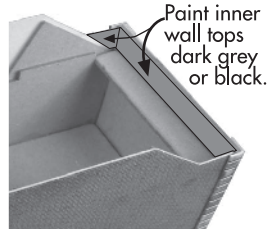
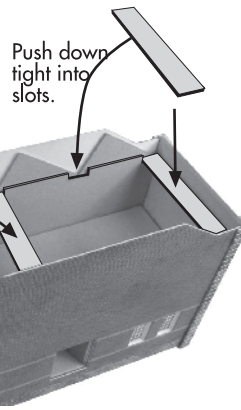


Fig.5. ROOF Finishing touches.

The four roof ridges look a lot better if you take the time to fit ridge tile strips. Cut to length, fold down the centre scoreline paint white edges and fit to roof.

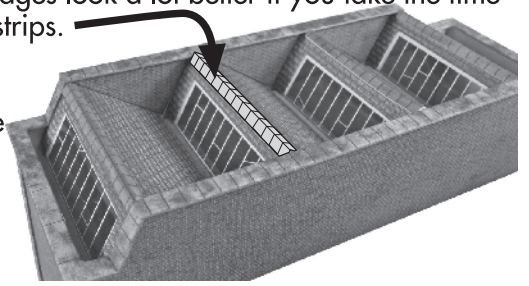
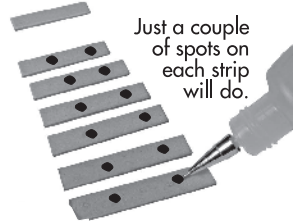
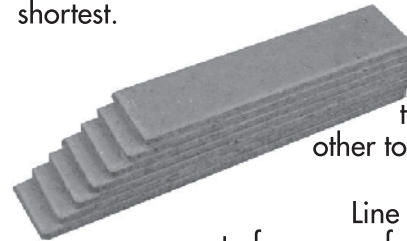


Fig.6. PLATFORM.

Starting with the platform steps which you can now extract from the grey base card 2. Line them up, longest to the shortest, and then place tiny spots on them all except the shortest.

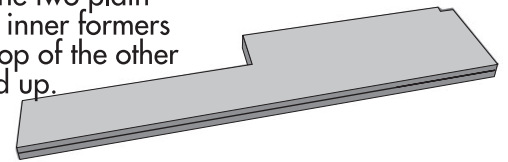


Then starting with the shortest place them one on top of the other to form a stairs like this.

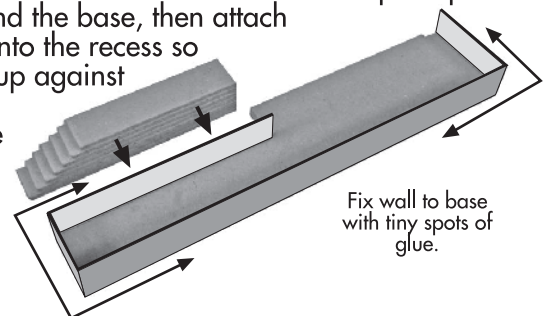


Line up the back and sides to form a perfectly squared up block.

Next, attach the two plain grey platform inner formers (P1.) one on top of the other all edges lined up.



Stand on a flat surface and fold and wrap the platform wall around the base, then attach the steps into the recess so it is fixed up against the back wall of the platform.



Attach the platform base unit against the front of the building, push up so that the small recess in right hand corner sit around the corner stones. Also a piece of waste card cut to fit on top step to level it up with platform wall tops.

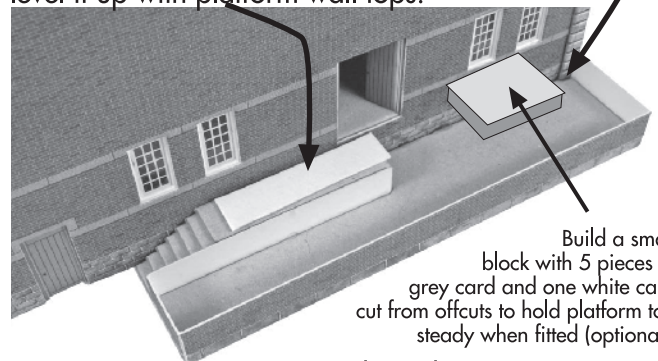
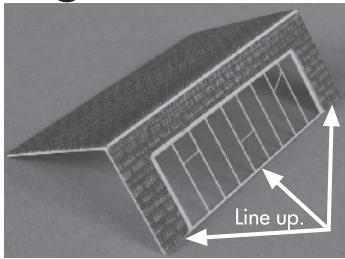
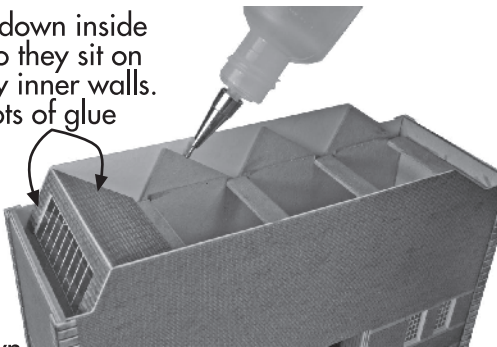


Fig.5. ROOF.

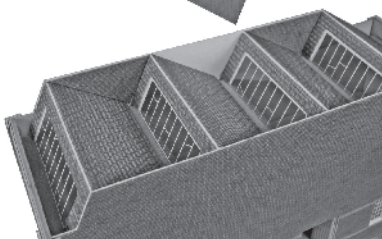


There are four identical roof sections. Fold each one in half along the scoreline then attach the glazing to the underside of each one. Make sure the bottom edge of the glazing lines up with the bottom edge of the roof.

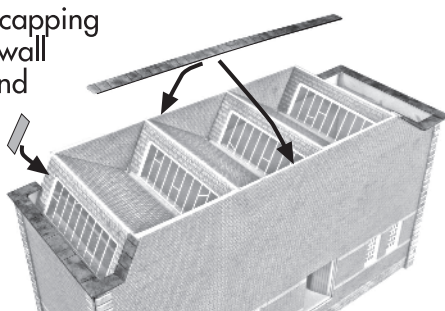
Fix each roof down inside the building so they sit on top of the grey inner walls. A few tiny spots of glue applied to the top edges of the grey inner walls is all that is needed to hold them in place. Hold roof down firmly until set.



Fit the small triangular brick sections to the back of the wall tops covering the white card. Push down tight against the roofs. The top edge needs to line up with the top edge of outer wall.



Fit the pre-shaped capping stone strips on the wall tops at each end and cut to length the straight capping to fit. Starting with the four sloping sections.



Continued on Sheet 2