

CHECK LIST

This kit should contain the following:

- 1 x SHEET A. Printed with main building walls.
- 1 x SHEET B. Printed with platform & parts etc.
- 1 x SHEET C. Printed with ramp building parts.
- 1 x SHEET D. Printed corners stones & ridges.
- 1 x Folded plain grey card (E) containing inner strengthening components, see *right*.
- 1 x Plain grey card (F) as above.
- 1 x Plain grey card (G) as above.
- 1 x Laser Cut Cream Card with canopy parts.
- 1 x Laser Cut Dark Grey Card with canopy roof components.
- 1 x Laser Cut Mid Grey Thick Card with canopy inner parts and construction jig.
- 1 x GLAZING sheet.
- 1 x Edging & Patching sheet.
- 3 x INSTRUCTION SHEETS.

READ THROUGH ALL THE INSTRUCTIONS BEFORE YOU START

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

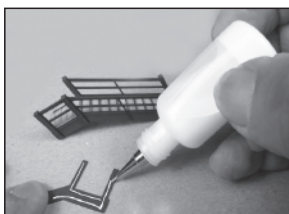
To construct this kit you will need the following:

- 1. A modellers knife. and a pair of sharp scissors.
- 2. A steel ruler.
- 3. Glue - *See glues below*.
- 4. Ultra Fine Tip Glue Applicator, *see below*.
- 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.
- 8. Bulldog clips or clothes pegs for clamping.

METCALFE

Ultra Fine Tip Glue Bottles

These 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.

GLUES

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.

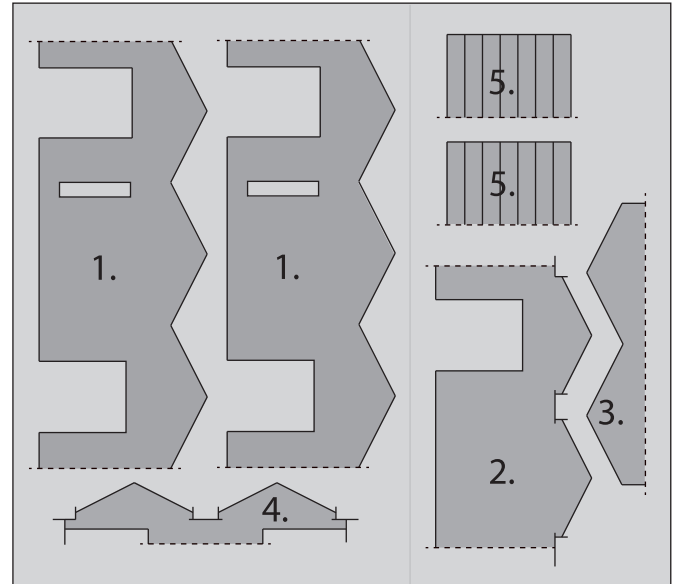
Also Deluxe Materials 'SPEEDBOND' A fast drying PVA. see www.deluxematerials.com

INSTRUCTION SHEET 1

PLAIN GREY STRENGTHENING CARDS

These cards contains the bits that fit inside the kit to strengthen and hold it together. They are described here with numbers and a key below. To make sure you don't get them mixed up it is best if you just write these numbers on the components before you extract them.

Sheet E.

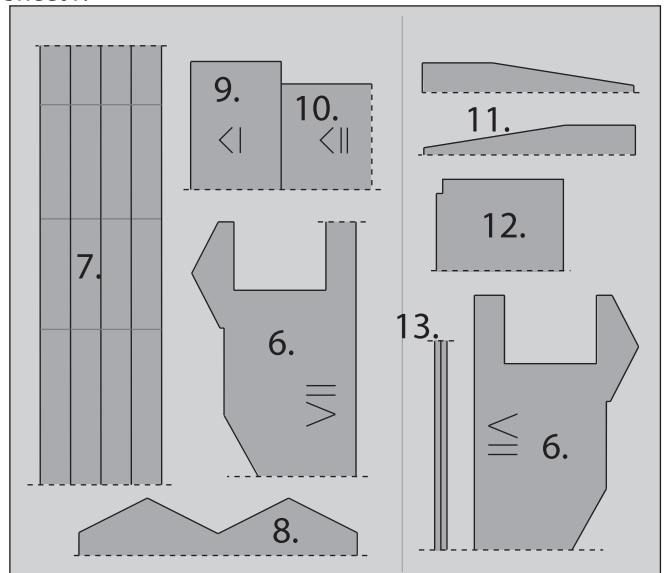


The dotted lines indicate the score lines you need to cut to extract the components from the base sheet.

Key to components:

- 1. Rear wall spacers (fit between RW1. & RW2.).
- 2. Rear wall inner/roof support (fits onto RW2.).
- 3. Front wall upper spacer (another one on grey sheet F).
- 4. Front wall upper roof support.
- 5. Chimney inner formers. x 14 (7 for each chimney).

Sheet F.



- 6. Inner wall spacers VII. for ramp (1 left hand and 1 right).
- 7. Platform triangular strengtheners x 4.
- 8. Front wall upper spacer (another one on grey sheet E).
- 9. Side wall tall spacer.
- 10. Side wall short spacer.
- 11. Inner ramp floor supports x 2.
- 12. Jig to hold side wall square, when fitting to back wall.
- 13. Platform front wall spacer strips x 2.

Fig.2. WINDOWS & DOORS

Start with the windows by attaching the glazings to the backs of the matching window frames with the matt printed side facing through the openings from behind.

Also fit the door glazings to the back of the door and the smaller one to the opening at the top of the door frame. Fit door to back of door frame. Place to one side until needed.

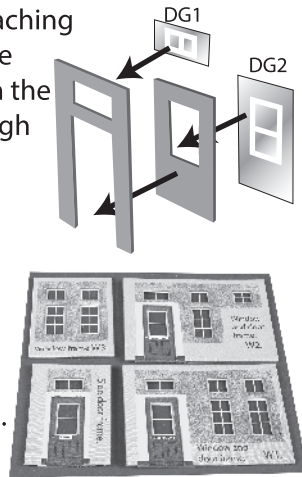
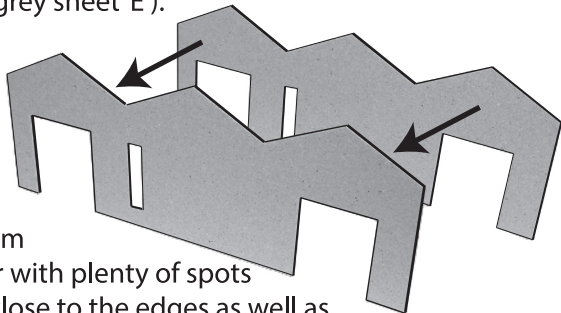


Fig.3. MAIN BUILDING REAR WALL

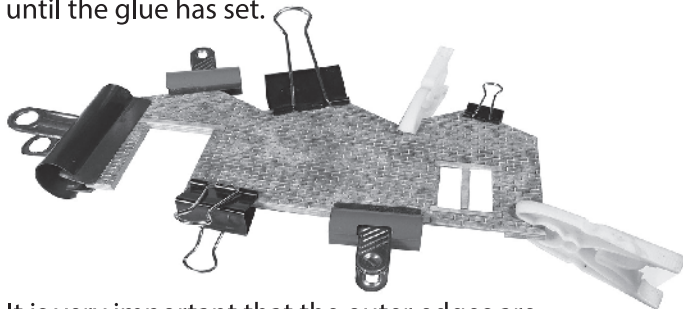
The rear wall is made up of five layers of card glued together to form a solid and thick laminated unit. Start with the two inner plain grey spacers (marked no.1 on grey sheet 'E').



Glue them together with plenty of spots of glue close to the edges as well as over most of the surfaces to be joined, but not so much that it oozes out. Press the two surfaces carefully together and clamp with bulldog clips and/or clothes pegs with ALL OUTER EDGES FLUSH.

Once the glue has set a little fix the outer rear wall RW1.

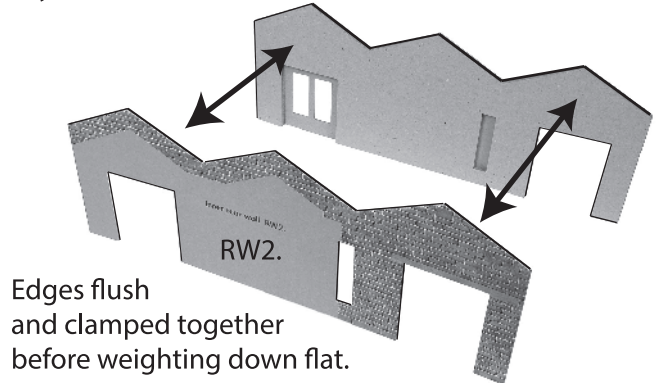
Make sure you fit as shown here so doorway lines up, test first to make sure it's right. Clamp all around the edges again until the glue has set.



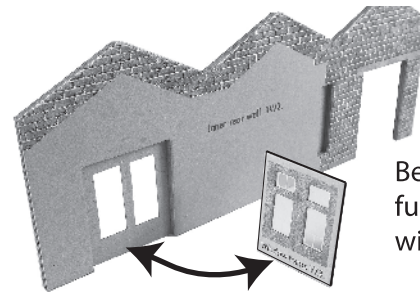
It is very important that the outer edges are absolutely flush and in alignment with one another. Also that the glued layers don't start to open out around the edges. When the glue has set a little, place under some heavy books to hold flat whilst the glue dries.

It's worth spending time on these laminating jobs, the longer left under weights to dry, the better. REMEMBER always use your clamps to hold the layers together to start with until the glue has partially set. Placing them straight under weights whilst glue is wet risks the layers slipping and ending with uneven edges.

By the time you have made a cup of tea, it will be ready to have inner wall RW2. fitted to the other side.

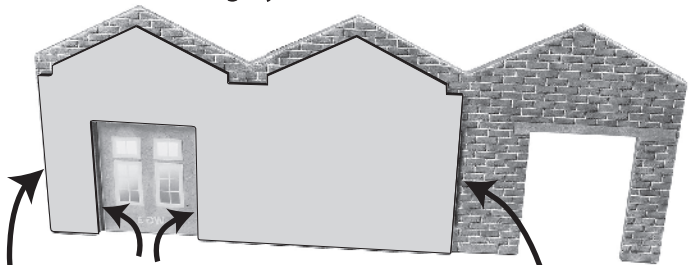


Edges flush and clamped together before weighting down flat.



Before you go any further, fit the window W3.

And finally, fit the plan grey inner wall/roof support (marked no. 2 on grey sheet 'E')



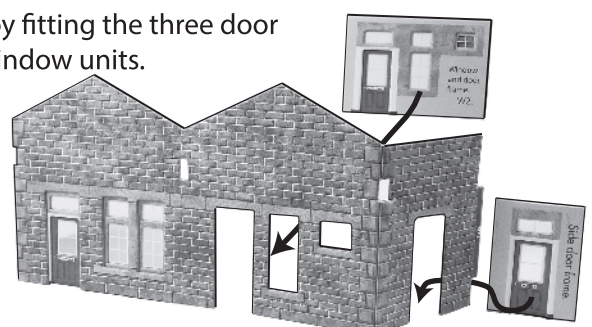
Fit so that these inner window opening sides all line up flush.

Down this side too the grey card is slightly shorter than the outer wall leaving a slot for the other end of the office wall to sit in.

Which will leave a tiny slot in the wall here just wide enough to slot in the 1mm. thick tab on the front/side wall section FW1.

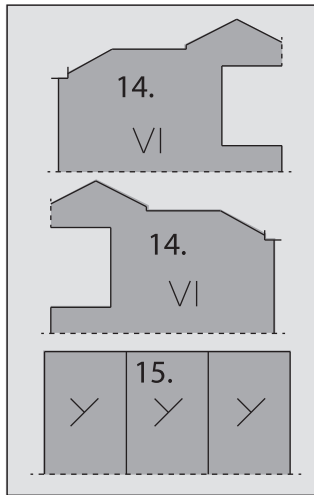
Fig.4. FRONT & SIDE WALLS

Start by fitting the three door and window units.



PLAIN GREY STRENGTHENING CARDS

Sheet G.



14. Inner wall spacers VI. for ramp (1 left & 1 right).
15. Ramp building rear wall inner spacers x 3. Marked with a .X

GETTING STARTED

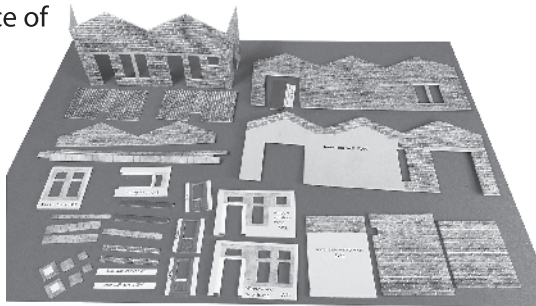
1 EXTRACTING COMPONENTS FROM SHEETS.

To stop the components from falling off the sheets, they are held secure with score lines. 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 score lines and they will come seamlessly away. These score lines 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'.

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.

Example of builders yard.

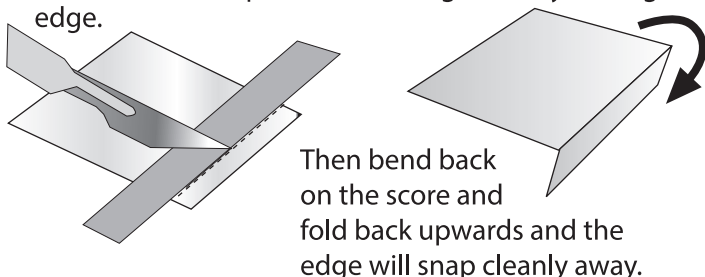


Only extract the components from the sheets as instructed.

If you cut them all out at once, you will end up in a right mess and start losing things.

GLAZING

The glazing in this kit is quite thick and is easier cut to size by scoring along the outer edges of the window sections with the point of a knife, guided by a straight edge.



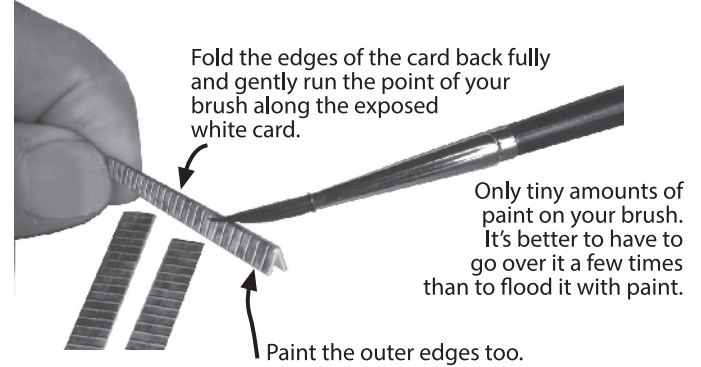
Then bend back on the score and fold back upwards and the edge will snap cleanly away.

PAINTING CORNERS & EDGES.

As you progress you will need to paint over any edges and corners that show the base card, especially on the corner stone strips, the chimney stacks and ridge tiles. This is best done **BEFORE** you use them in construction.

All you need is simple set of child's water colour paints and a fine brush.

Mix your colour with lots and lots of water, apx. 1 part paint to 5 parts water or more. It needs to be very watered down. **TEST ON WASTE CARD FIRST UNTIL YOU HAVE THE CORRECT SHADE & COLOUR.**



Paint the outer edges too.

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

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

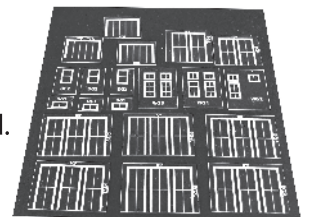
For the ridge tile strips use a **WARM RED** with a tiny bit of **BROWN** added plus lots of water.

For the corner stones and chimneys use **BROWN** with a spot of **BLACK** and as usual, lots of water.

LET'S GET STARTED

Fig.1. GLAZING

Cut out the glazing pieces as described, *left*. Place on a dark piece of card until needed.



NOTE: The canopy glazing needs care when cutting to size



Shown here in black for identification only.

It is important that you cut the glazing edges as indicated, otherwise the roof won't fit properly if they are cut bigger than shown.

Now cut out all the components on sheets

A B & C plus all the components on the three grey sheets E F & G .

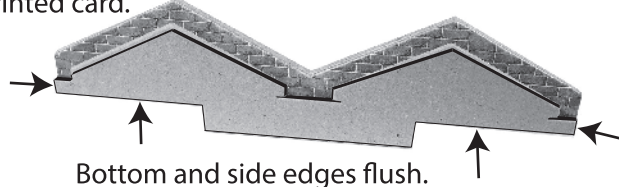
Leave the laser cut sheets and sheet D until later. Place all in your builders yard.

Fig.5. UPPER INNER FRONT WALL

To make the wall top thicker there are more layers of card to laminate together.

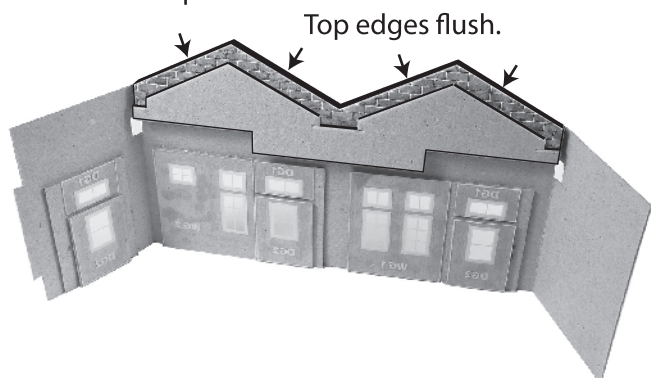
Fix the two grey card sections (no's 3 on grey cards) and printed card FW2. together with all sides flush. Clamp etc. until the glue has set, then fix the grey roof support (no. 4 on grey sheet E) on to the printed side.

Fit with these bottom edges flush with the bottom edge of the printed card.



Bottom and side edges flush.

Now fix the whole unit to the top inside edge of the main building, making sure all top edges are flush with the wall top.

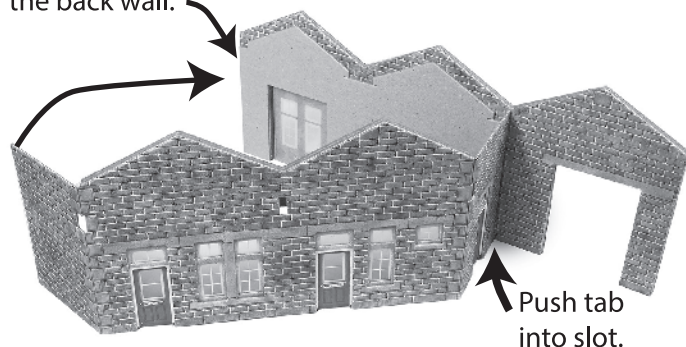


Top edges flush.

Fig.6. FIT WALLS TOGETHER

It's now time to fit the main building to the back wall. Start by pushing the small tab on the right hand side wall into the slot in the back wall.

The other end fits into the groove down the side of the back wall.



Push tab into slot.

Fig.6. Continued

Once this corner is fast the card edges showing can be covered over with the corner stone strip CS4 located on sheet 'D'.

Paint the corner and the edges as described earlier.

NOTE: The top edge will need trimming to fit. Test first.

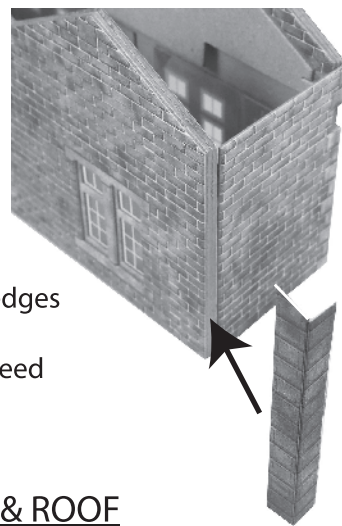


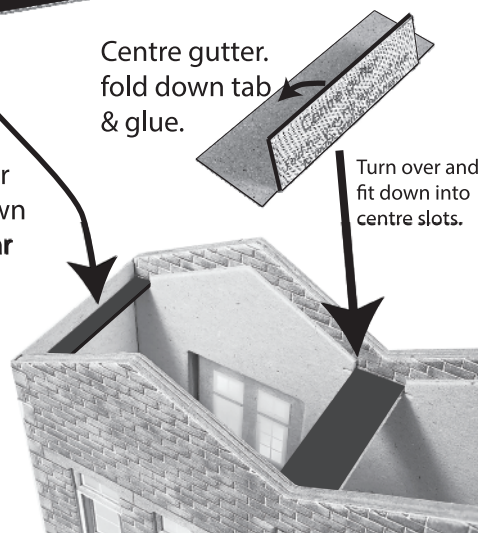
Fig.7. GUTTERS & ROOF



These tiny pieces of card fit into each end of the building.

Centre gutter. fold down tab & glue.

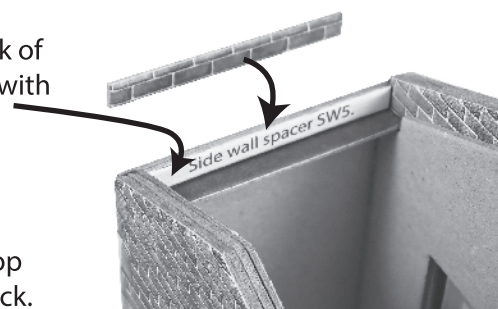
Fit the end gutter here pushed down into the slot as far as it will go. Same at other end of building.



Turn over and fit down into centre slots.

Fit SW5. to back of side wall flush with top edge.

Then tiny strip of wall card fits in front to make wall top three layers thick.



Fit the two roof sections. Make sure they are sitting down inside the building on the roof supports.

Chimney holes to the back wall.

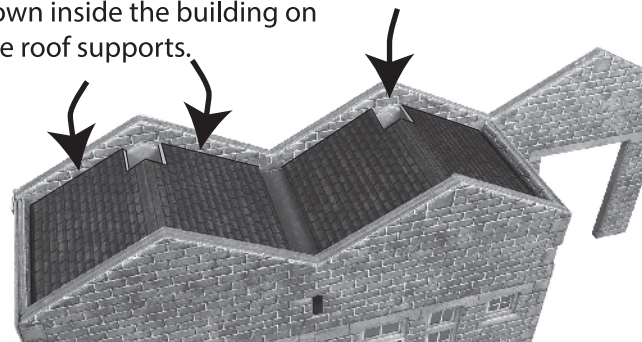
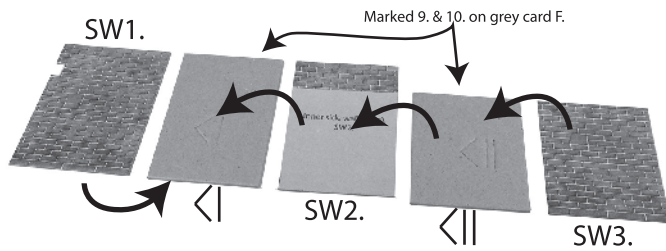


Fig.8. SIDE WALL

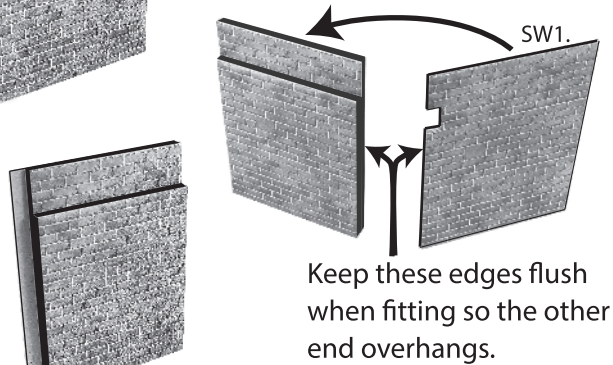
This is made up of 5 layers of card, glued together in the same way as you did with the rear wall.



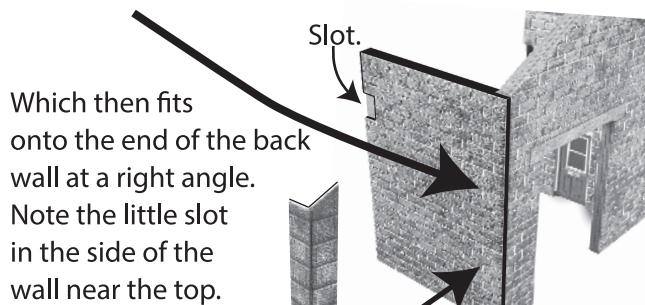
Glue short wall SW3. to grey card then glue them onto SW2. and then onto grey card

Keep side and bottom edges flush and you end up with a solid wall like this, with a stepped ledge near the top.

Now fit the outer wall to the back



Like this.



Finish off with corner stone CS4 same as other end.

Inside, the shorter wall needs top stone strip SW3. fitted so it sits level on top.

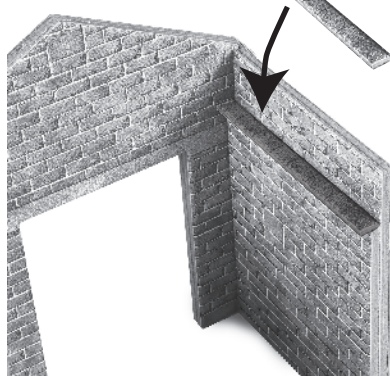


Fig.9. PLATFORM CANOPY.

All the components for the canopies are laser cut and come on three separate sheets. If you hold the sheets up to the light you will see tiny pins holding the components onto the base sheet. these are relatively easy to push out with a little care not to bend them.

Lets start with cream coloured sheet 'L1'

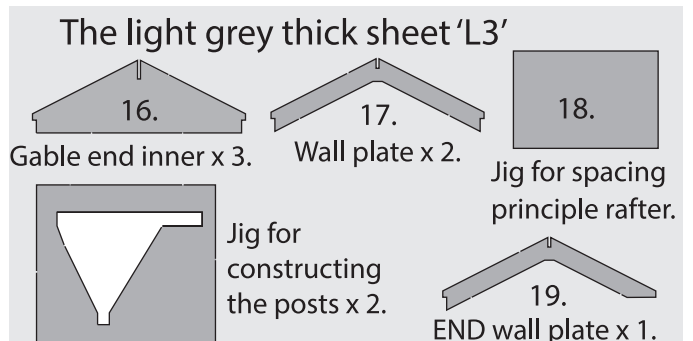
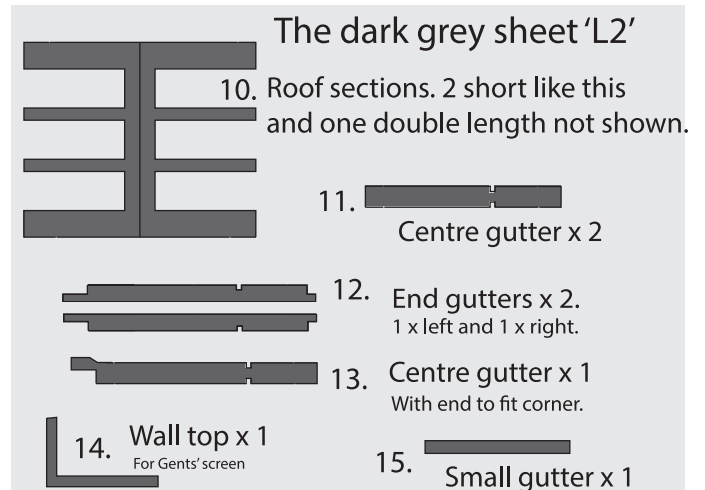
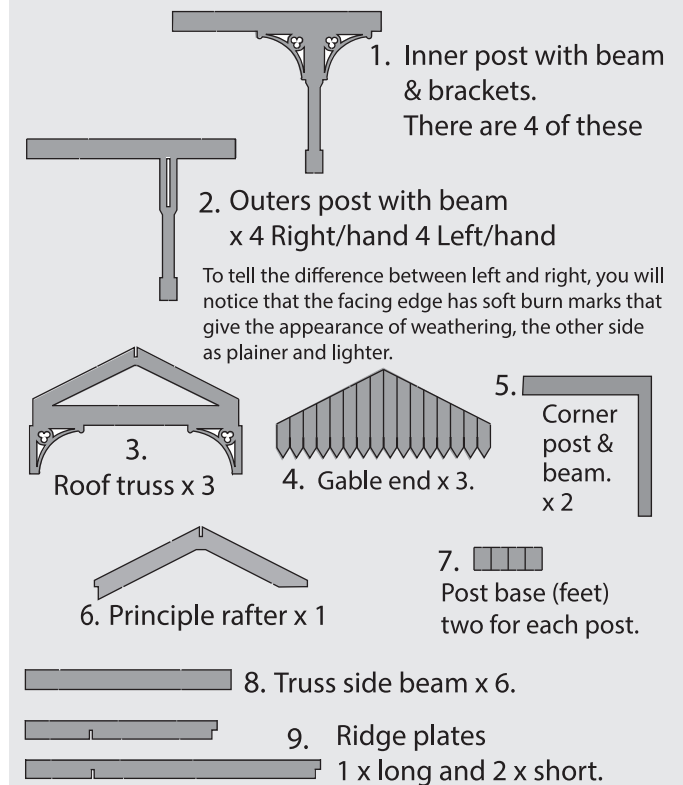


Fig.9. PLATFORM CANOPY Cont'd.

Carefully sort and clean out the long slots and bits from the brackets then pile up your laser cut parts into the builders yard.

Don't loose the little base feet.



LET'S START BUILDING!

But first, you need to assemble the jig.

Take the two pieces of the jig and glue them together to make double thickness. Keep all edges absolutely flush with no glue oozing out on the inside edges.

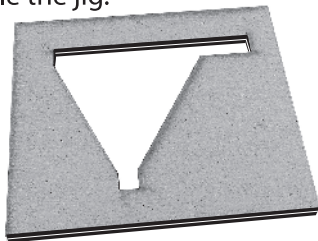
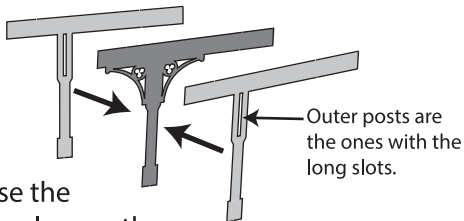


Fig.10. POST & BEAM UNITS.

Each of the four Post & Beam units are made up with the inner post with brackets sandwiched between the two outer posts.

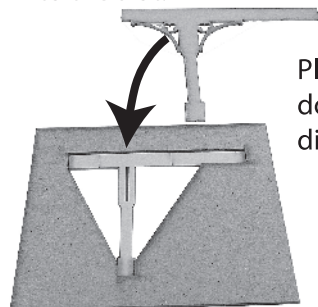
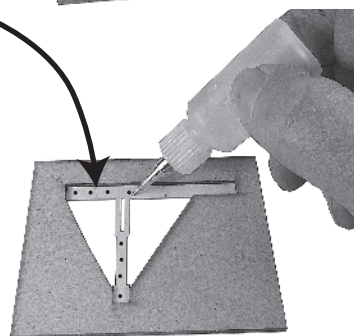
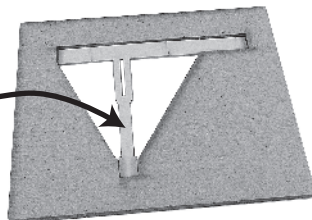
To ensure that all outer edges line up flush when glued together, use the jig to hold them in place as they are fixed together.



Start by pushing one of the outer post & beam units down into the jig like this.

Then put tiny spots of glue along the surface of the post and beam using the ultra fine tip applicator.

No need to put any glue in the part of the post with the tiny slot in it. This will be held in place later when the truss is fixed in to the slot.

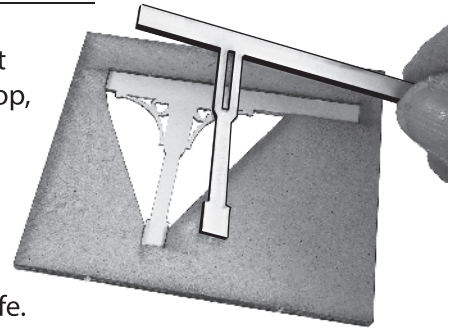


Place the inner post & beam down inside the jig so it sits directly on top of the outer post.

Fig.10. Continued.

Now just pop the next outer post down on top, fixed in the same way with spots of glue.

Carefully push out when glue has set with point of your knife.



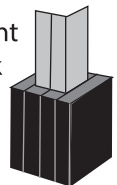
And now your first post & beam unit is complete.

Just one last thing: Fix two of the tiny post base sections (feet) to either side of the base of the post.

Line up the edges flush.

One good way to get them in position is to use the jig like this.

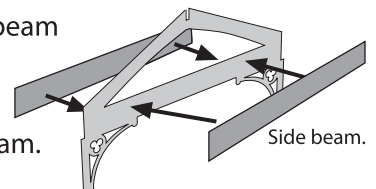
When fast paint the base black all the way around as shown here.



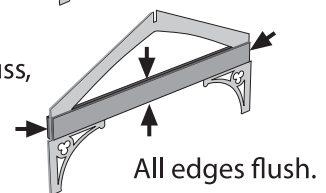
Now make up the other four post units in just the same way as this one.

Fig. 11. TRUSS & CROSSBEAM.

To strengthen the crossbeam part of the truss there are two side beams that are attached to each side of the crossbeam.



Make sure that the tops bottoms and ends all line up flush with the main truss, leaving the ends of the brackets free to fit into the slots in the posts.

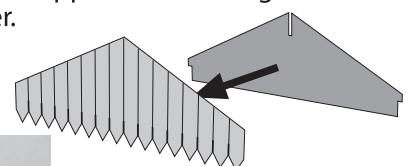
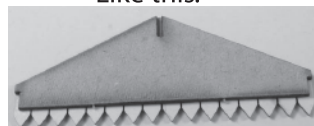


Repeat with other two trusses.

Fig. 12. GABLE END SECTIONS.

Each gable end is made of two parts. The outer cream coloured section has a grey inner card that is fixed to the back of it so that the upper and side edges are all flush with one another.

Like this.

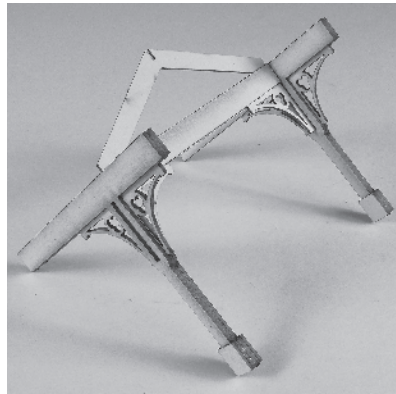
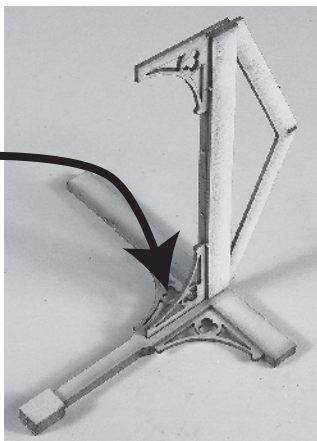


Put to one side until needed in Fig.20

Fig. 13. ASSEMBLE THE CANOPY.

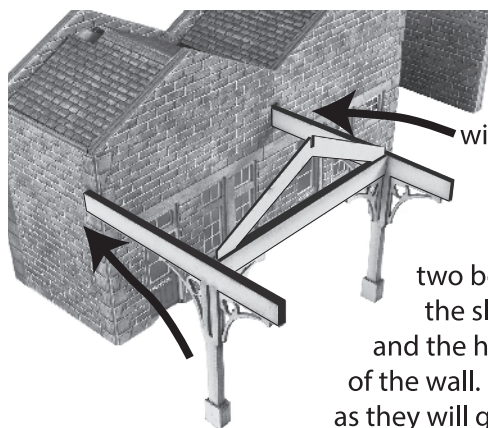
Start by fixing a truss to one of the posts.
The small lug on the side of the truss fits into the slot down the side of the post.

Hold in place until the glue has set enough for it to stand like this for a while. Leave until the glue has fully set before fixing another post to the other end of the truss like this.



Make up two more units as above (just single post with truss)

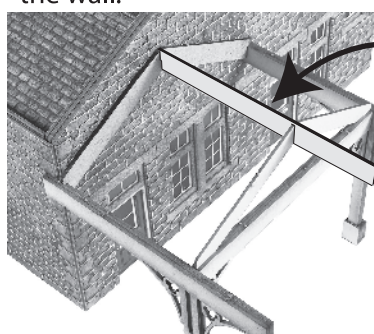
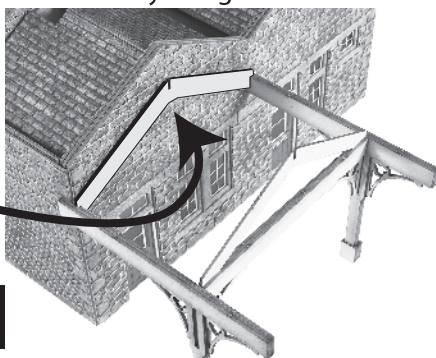
These are very delicate and at this stage, the longer you leave them to fully set, the less likely they are to fall apart when you fix them to the building.



Now fit the first unit you made with the two posts on to the front of the building. The ends of the two beams fitting into the slot on the corner and the hole in the centre of the wall. Push back as far as they will go into the holes.

Fit the wall plate no.17 on light grey laser card.

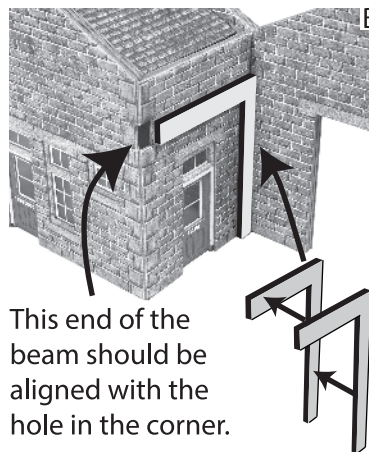
Each end sitting on the beams like this and up against the wall.



Now fit the ridge plate

No.9 on cream laser card. Slotted into the wall plate and the truss.

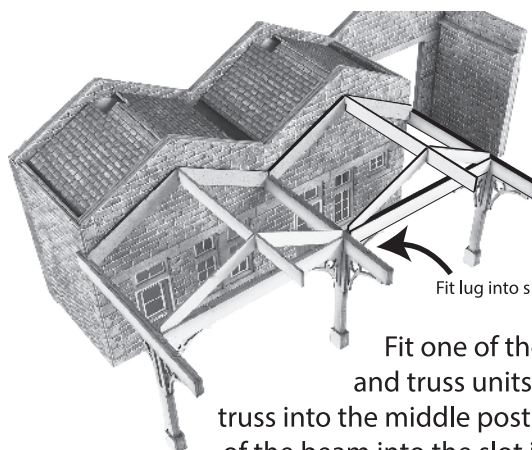
Fig. 13. ASSEMBLY Continued.



This end of the beam should be aligned with the hole in the corner.

Before fitting the next bay, fit the corner posts (no.5 on laser card)

They are glued together and stand in this corner with the longer thinner leg vertical and the short thicker beam fixed against the side wall of the main building. Push tight into the corner.

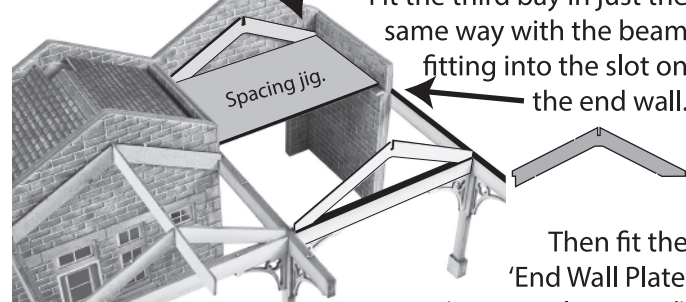


Build the next bay.

Fit lug into slot in post.

Fit one of the single post and truss units, slotting the truss into the middle post and the end of the beam into the slot in the corner of the wall. Follow on with the wall plate and the ridge plate, exactly as with the first bay.

Wall plate sitting down on lower wall.



Fit the third bay in just the same way with the beam fitting into the slot on the end wall.

Then fit the 'End Wall Plate' (no.19 on laser card)

Fit so that the flat end sits down onto the lower wall. Next sit the spacing jig (no.18 on laser card) down on the lower wall.



Place the 'Principle Rafter' here standing on lower wall, as with wall plate, using the jig to position it in correct place.

Remove the jig and fit the long ridge plate

WARNING: If you are attaching this kit to other kits, see Notes on back page of sheet 3

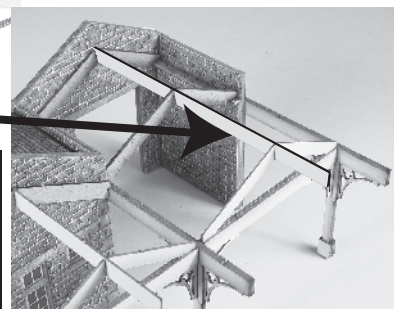
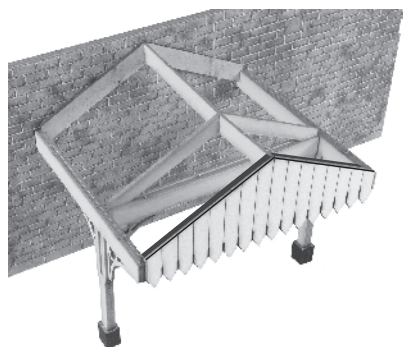


Fig. 14. FIT GABLE ENDS.

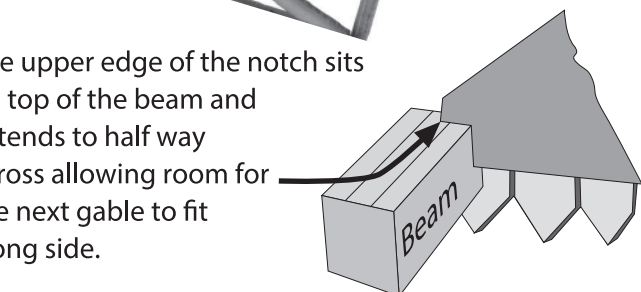
This can be tricky and requires patience and a light fingered approach to the job.

Top notch fits over the end of the ridge plate.



The two notched bits at the ends of the grey strengthener slot over the beam ends.

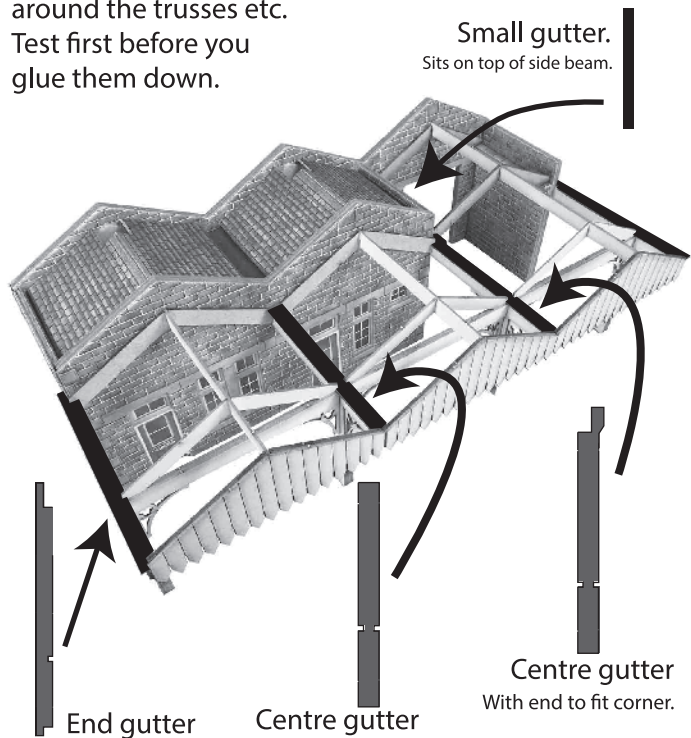
The upper edge of the notch sits on top of the beam and extends to half way across allowing room for the next gable to fit along side.



Fit them all as seen in next photo Fig.15.

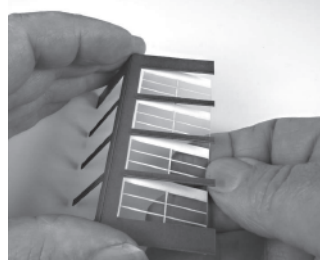
Fig. 15. THE GUTTERS.

These sit down on top of the beams with slots to fit around the trusses etc. Test first before you glue them down.



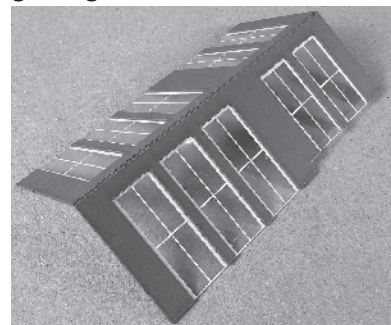
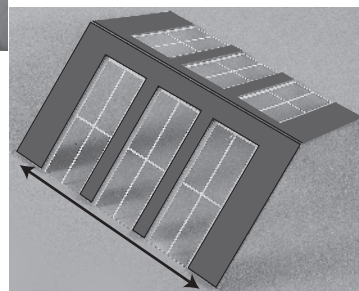
Note: If you are adding more buildings on to the side of this one, you will need to replace the end gutter with another centre gutter, that's why there is an extra.

Fig. 16. ROOFS.

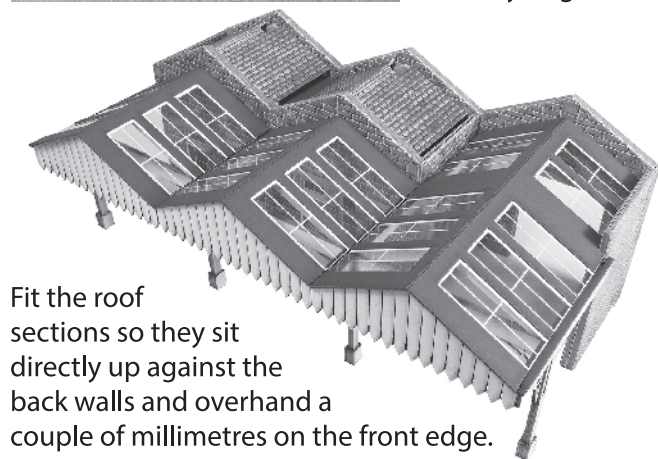


Fit the glazing sheets from underneath so that you can see where it is to be positioned. Test without glue first so that you can see where it fits.

The glazing should be flush along the bottom edges of the grey roof. Use tiny spots of glue placed on the underside of the card to fix the glazing.

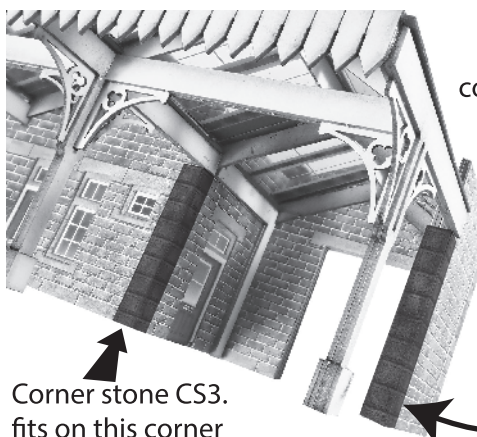


The longer roof has smaller glazings that fit to the double windows. Check carefully that you have the correct glazing for the correct opening before you glue.



Fit the roof sections so they sit directly up against the back walls and overhand a couple of millimetres on the front edge. Make sure they are seated fully down onto the wall plate at the back and the gables at the front.

Fig. 17. THE CORNERSTONES.



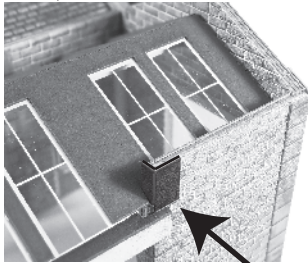
There are more cornerstone strips on sheet D.

The corner stone with no code number wraps around this wall end.

Corner stone CS3. fits on this corner and also one at other end of the building.

Fig. 18. TOP CORNERSTONES.

These tiny corner stones are on sheet D. Code numbers CS6, 7 & 8.



They are a little fiddly to fit and require a tiny bit of cutting and so on to get them to fit in. But they make a whole lot of difference to the finished look of your kit.

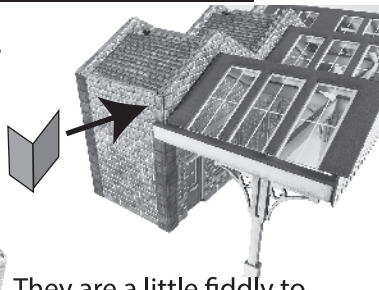
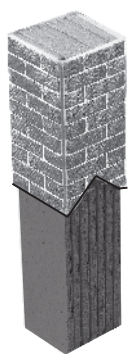
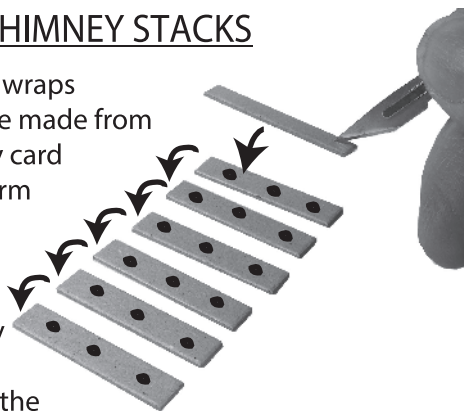


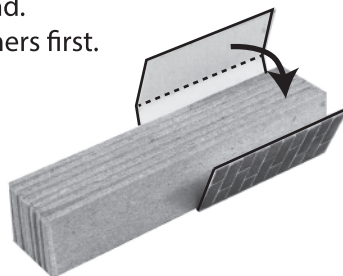
Fig. 20. CHIMNEY STACKS

Each chimney stack wraps around an inner core made from seven pieces of grey card stuck together to form a solid block.

Place them in a line like this and put tiny spots of glue on six of them. Then with the point of your knife pick up the seventh unglued card and put it down on a glued strip, and so on until you have them all stuck together. Before the glue dries, get all edges flush and square and wrap the stack around. Don't forget to paint corners first.



Like this.

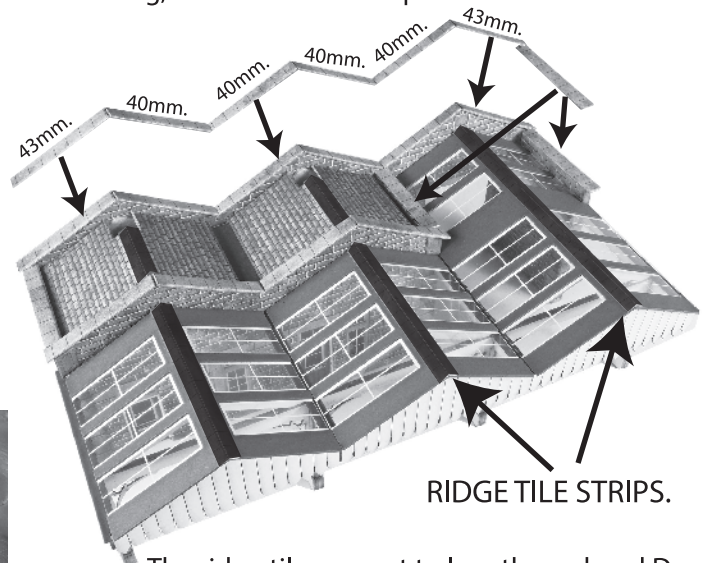


Note the V shape cut into one edge. This fits over the inner grey roof support when slotted into the hole in the roof.



Fig. 19. WALL CAPPING STONES.

There are long strips of capping stones to be cut to length and fitted along the wall tops. Start with the sloping wall tops cut each length as shown here. After fitting, cut the side wall tops to fit.

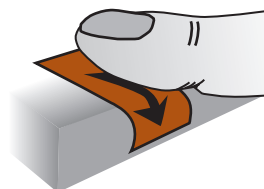


RIDGE TILE STRIPS.

The ridge tiles are cut to length on sheet D. BUT NOTE: Main building ridge tiles are the shortest ones, not the ramp building as indicated on sheet D. There is no need to cut them down. Check them as you fit. Don't forget to paint corners and edges.

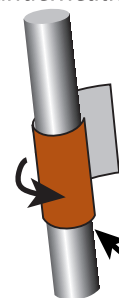
CHIMNEY POTS & CHIMNEY STACKS

Cut out the terracotta coloured strips below and roll tightly around a metal rod to form a cylindrical shape. Drill bits, nails or even knitting needles can be used for this.



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

Then roll the strip of pre curled paper around the metal rod. A drill bit is best used: for 00 scale 3 or 4mm. diameter. Roll up tight and keep rolling until the paper is fully curled around.



Keep edges straight.

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. See left.

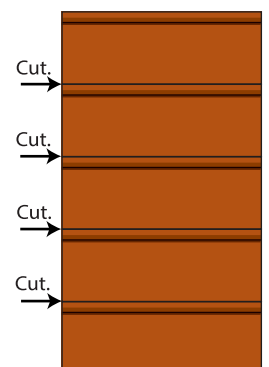
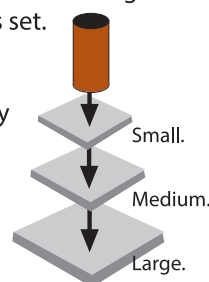
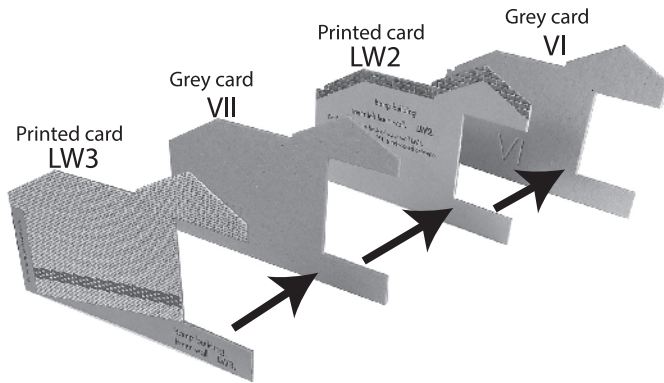


Fig.21. RAMP BUILDING

This building is quite simple really, it is just made up of the two side walls a back wall and roof. The walls are all made from multiple layers of card glued together in just the same way as the walls described earlier. We will start with the left hand side wall which is made up of four layers of card in the inner side with a single printed card on the outer side.

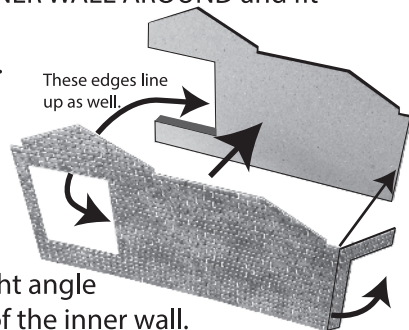


Glue all four sheets together KEEP ALL BASE AND SIDE EDGES FLUSH.

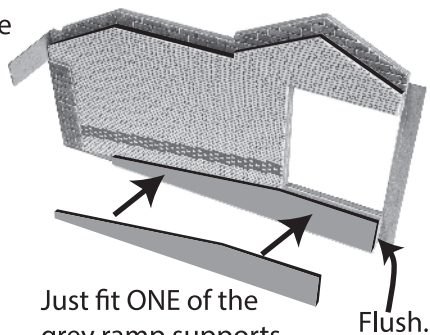
The two inside cards are shorter along the top. The roof fits down onto this edge later.

Now TURN THE INNER WALL AROUND and fit outer wall LW1 onto the grey side.

Bottom and top edges should line up flush, and the small strip of card at the end end should fold at a right angle against the edge of the inner wall.



Viewed from inside this is what it should look like.

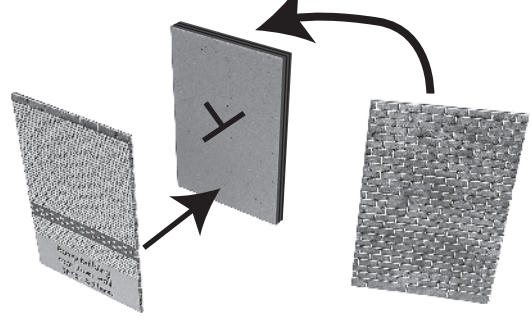


Just fit ONE of the grey ramp supports (no.11 on grey sheet F). to the inside of wall.

Now repeat the same process with the right hand wall RW1, RW2 and RW3.

Now the back wall.

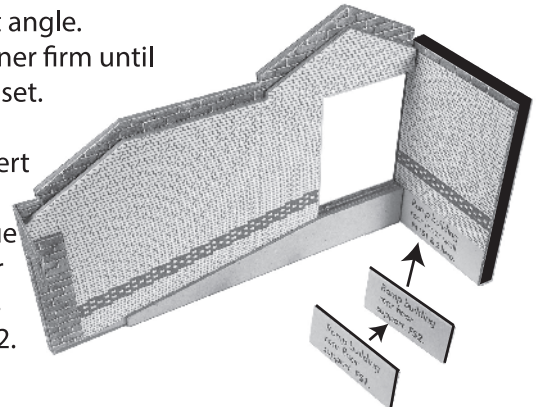
Glue the three grey cards marked with a Y together and then fix the inner and outer walls on either side.



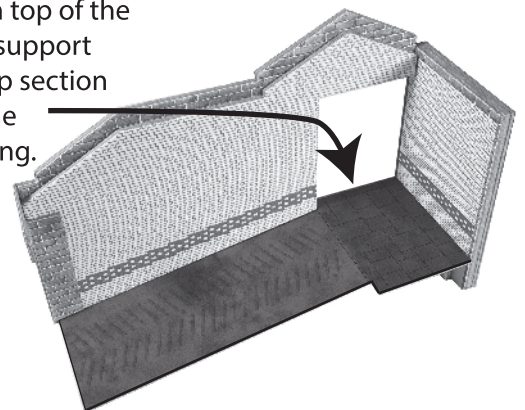
Fix the end wall to the left hand side wall at a right angle.

Hold corner firm until glue has set.

Then insert the two small blue rear floor supports FS1 & FS2.

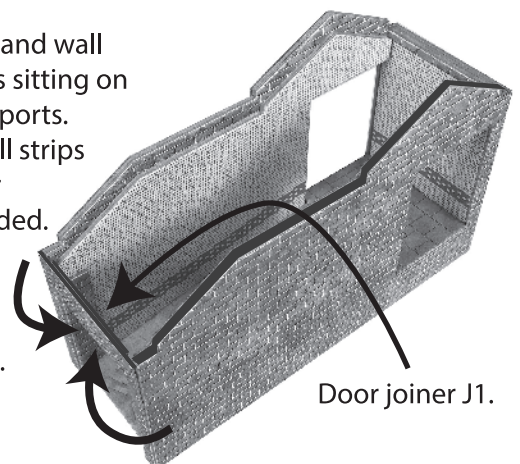


Now fit the floor so it is sitting on top of the grey ramp support with the top section sitting in the door opening.



Fit the right hand wall so the ramp is sitting on the same supports. Note the small strips over the door meet butt ended.

Fix together from behind with door joiner strip J1.

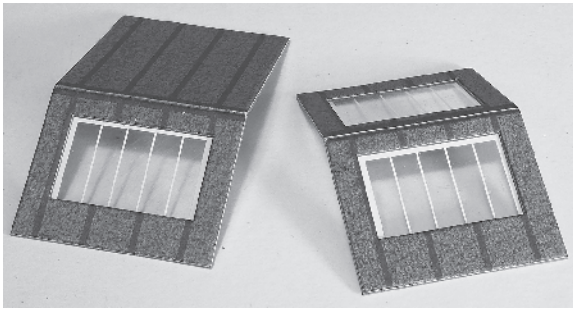


Door joiner J1.

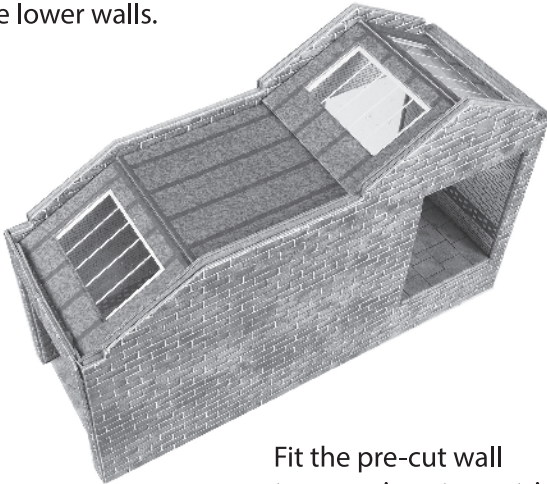
PARCELS OFFICE ↑

Fit the Parcels Office sign above the door.

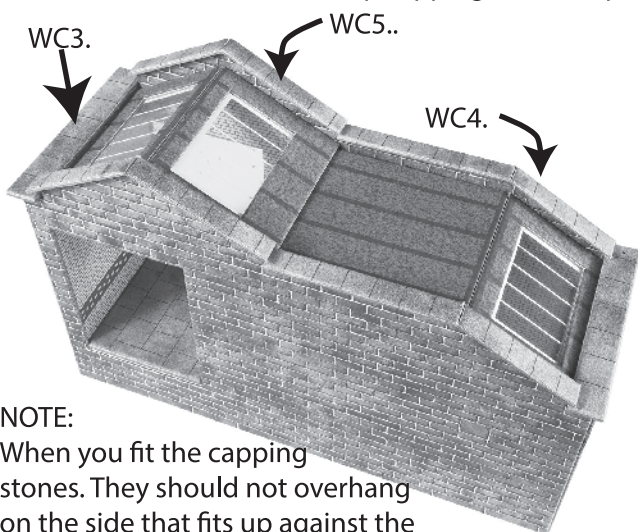
Fit glazing RG1 & 2 to the underside of the two roof sections.



Then fit them down inside the building sitting on top of the lower walls.

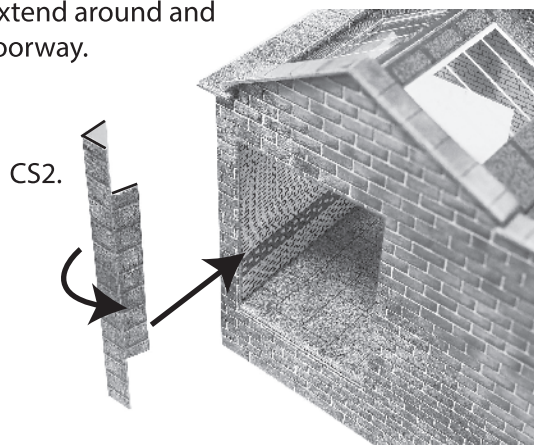


Fit the pre-cut wall top capping stone strips.

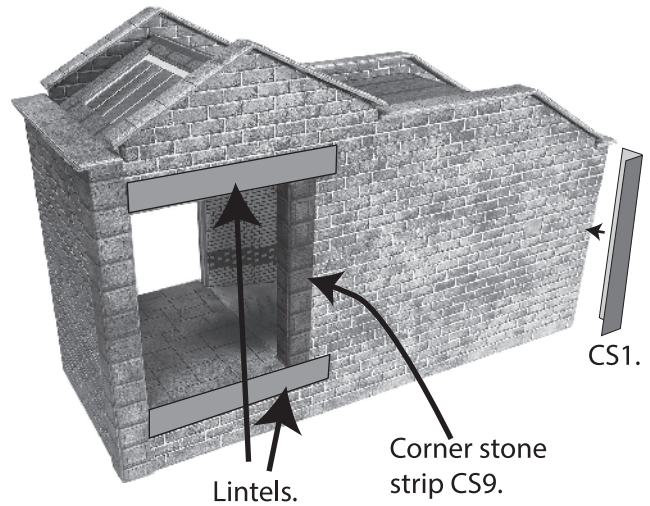


NOTE:
When you fit the capping stones. They should not overhang on the side that fits up against the main building.

The corner stone strips at this end of the building extend around and into the doorway.



Finish off with the last few corner stone strips and door top and bottom lintels.



There are also some pieces of card to block up the doorway, in case you don't want this end open.

Fig.22. GENTS TOILET SCREEN

This is a bit of an afterthought, but if you want somewhere for your little men to relieve themselves, the side door of the main building can be exchanged for the solid 'Gentlemen' door and this little screen stood in front.

Fold the sides back on themselves and glue to make double sided. Fold to a right angle and attach the grey L shaped top.

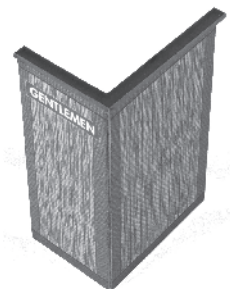
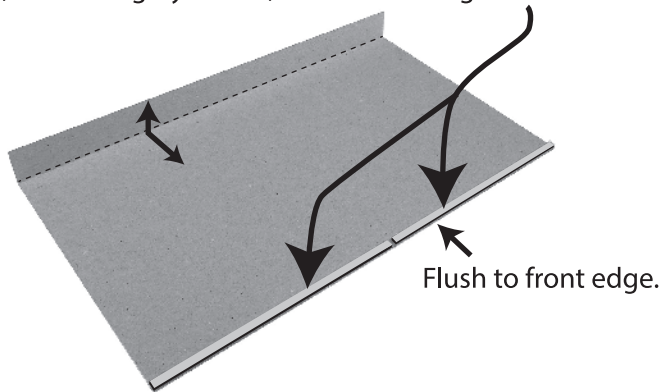


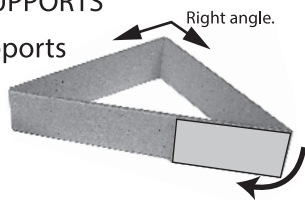
Fig.23. PLATFORM

Turn the platform top over and bend the back wall up at a rightangle. Then attach the two thin spacer strips (no. 11. on grey card F.) to the front edge.



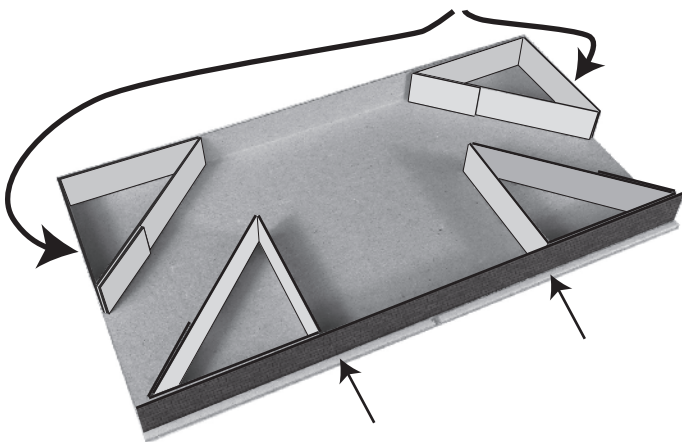
TRIANGULAR SUPPORTS

There are four triangular supports that fit under the platform. These are market 7 on grey sheet 'F'



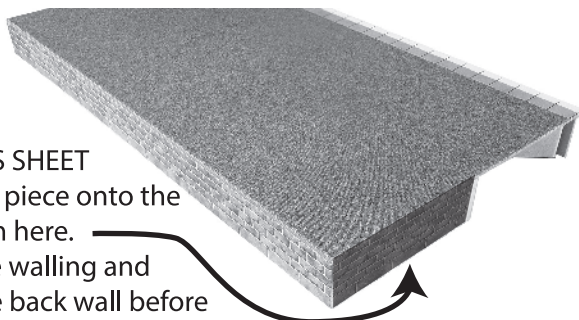
Fold the scores around and glue the short tab on the outside edge of the triangle. That way the opposite corner sits at a right angle.

Fit the triangular supports to the underside of the platform with two up against the back wall to hold it at right angle. Also make sure they are positioned flush to the edges of the platform top at each end.

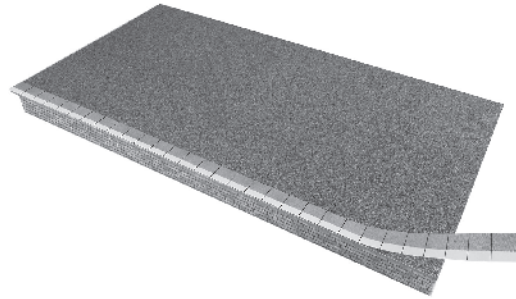


Fit the other two supports up against the front wall which should be standing up against the front spacer strips.

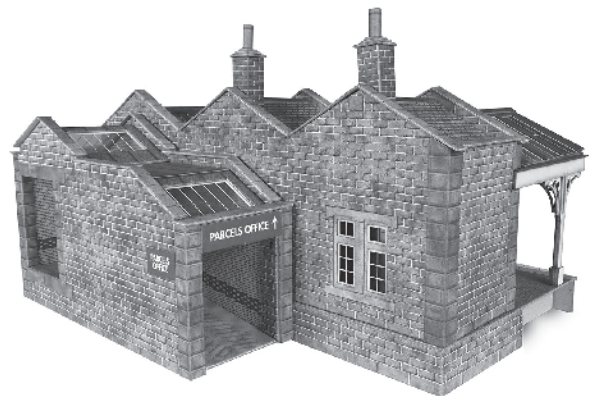
Now take a piece of the printed wall from the EXTRA BITS SHEET and cut and patch a piece onto the sides of the platform here. Look carefully at the walling and match it up with the back wall before you peel off the backing and stick it on.



Finally, take the self adhesive edging strips located on the Extra Bits Sheet and stick them along the front edge of the platform with white edge facing outwards.



Fit the main building onto the platform so that the back and side edges sit flush up to the edges of the platform. The ramp building then fits up against the back wall with the door openings aligned.



JOINING KITS TOGETHER

If you intend to run this kit along side our other kits in the Mainline Series you will need to allow for this when joining the canopies together.

They are designed so that the trusses from one kit slot into the post of the adjoining kits. You need to make slight adjustments to your buildings as well so that they will fit tight up to one another. Leave things like wall capping stones until after you have joined the buildings together, and yes you will end up with spare sets of post and beam units. The extra centre gutter is used at this stage as well where the canopies join in place of the end gutter.

It will become apparent as you start work on joining kits together.