PO289 OO Scale Fire Station INSTRUCTIONS

CHECK LIST

This kit should contain the following:

1 x SHEET A. Printed kit parts.
1 x SHEET B. Printed kit parts.
1 x SHEET C. Printed kit parts.
1 x RED CARD. Laser cut doors.
2 x GREY CARD. Inner Supports.
1 x GLAZING sheet.
1 x INSTRUCTION BOOKLET.
1 x RIDGE TILE SHEET

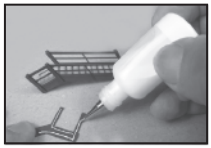
READ THROUGH ALL THE INSTRUCTIONS BEFORE YOU START.

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.
7. Fine point tweezers.

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



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

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

GETTING STARTED

1 EXTRACTING COMPONENTS FROM THE BASE 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 off the score and cutting the components.

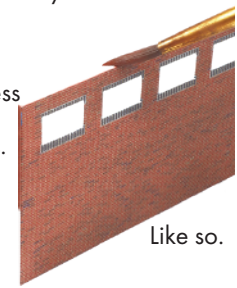
2 PRE-BUILD PREPARATION

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.

To match the brick colour you will only need to mix a warm red and equal amounts of brown along with lots of water. 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 into the card.

Wipe away any excess paint off the printed surface before it dries.



Like so.

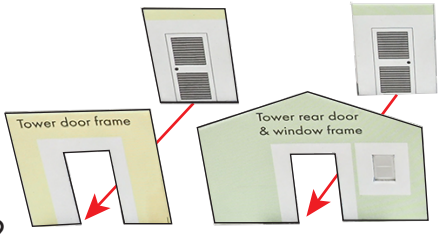
Paint all the red brick edges and fold lines as you extract them from the sheet.
Keep the components separate from your working area by placing them on a tray or thick piece of card that we'll affectionally call the 'builder's yard'.

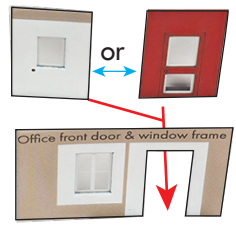
3 WINDOWS

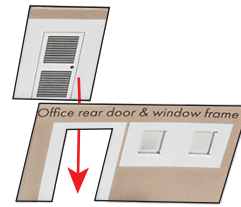
Cut out all the clear glazing components (windows) and place on a separate sheet of dark card so they don't get lost. Also add the components from the red laser cut sheet and the window frames.

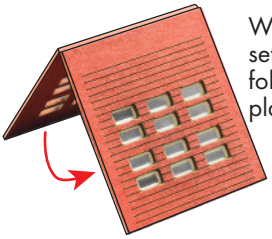
Now match the glazing to the corresponding window and door frames. Carefully align and glue each glazing to the back of the matching frame with the matt white printed side facing through the openings.

Once the glazing has set in place, add the doors to the door frames, the doors are colour coded to their corresponding frames (as shown below) Carefully align and glue the doors into position.
For the office front door chooses between a plain white door or the red laser cut door.





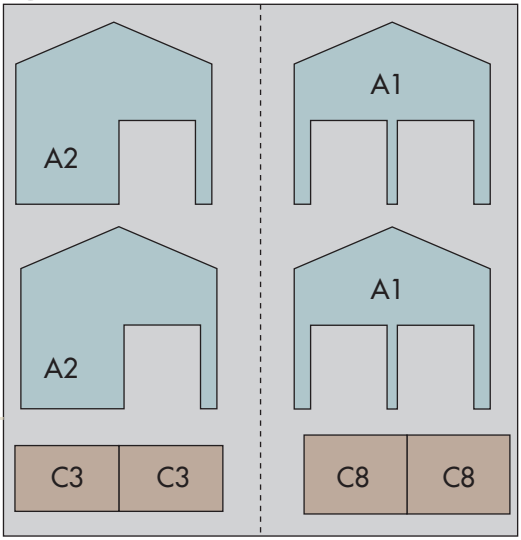




When the glazing has set on the garage door fold in half and glue into place.

Once all the windows and doors have been paired with their frames place them back into the builders yard until they are needed.

4 STRENGTHENERS



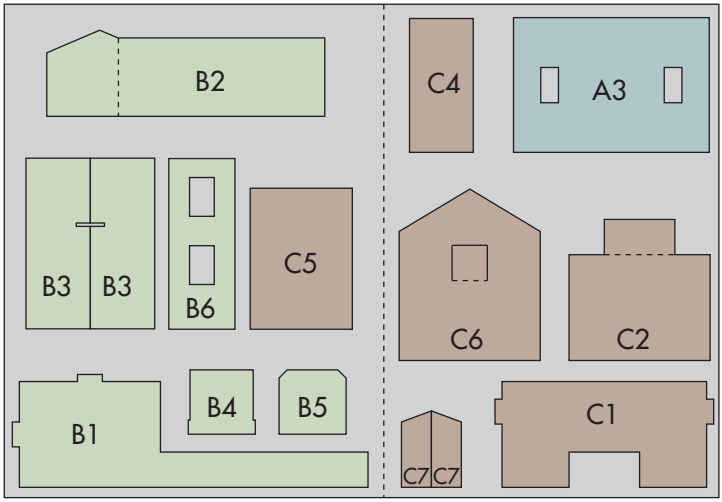
Strengthener Key
The opposite and below diagrams identifies the inner strengthening components for this kit.

The blue components are required for the garage build - Fig 5

A1 - Main door x 2
A2 - Rear door x 2
A3 - Garage adjoining wall

The green components are required for the tower and side storage build - Fig 6

B1 - Tower Base
B2 - Tower support wall
B3 - Tower side support x 2
B4 - Tower floor lower
B5 - Tower floor upper
B6 - Tower front wall support



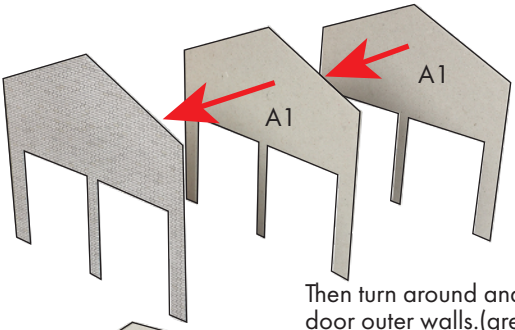
The brown components are required for the office block - Fig 7

C1 - Office base lower
C2 - Office base upper
C3 - Side supports x 2
C4 - Gable end support
C5 - Office floor
C6 - Adjoining wall
C7 - Front/rear side walls x 2
C8 - Front/rear wall supports x 2

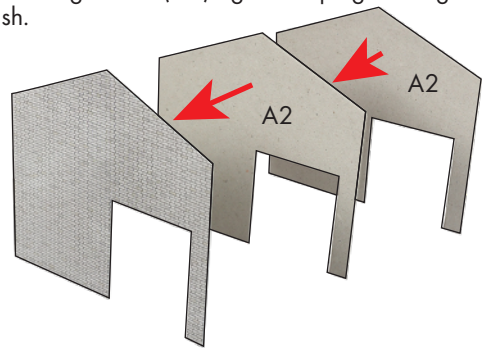
It helps to write the codes on the strengtheners so they are easily referenced when needed.

5 GARAGE

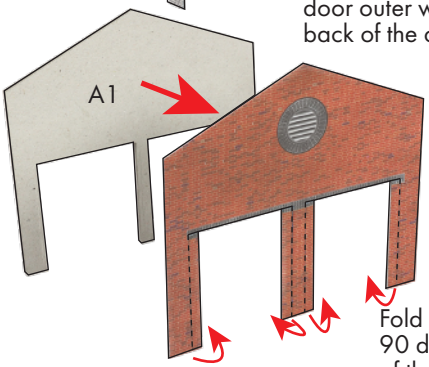
Start by combining the main door inner wall with the two strengtheners (A1) keep all edges flush.

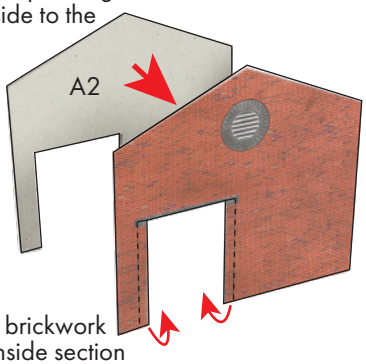


The same with the rear door inner wall, add the two strengtheners (A2) again keeping the edges flush.

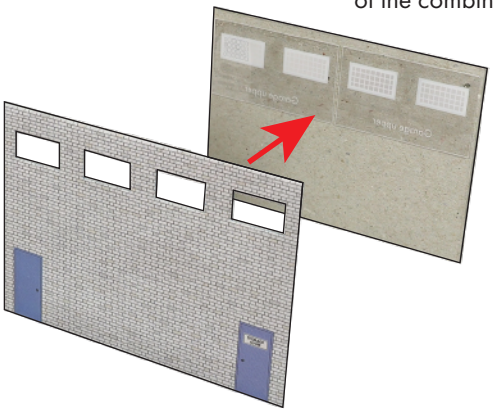


Then turn around and glue to the corresponding door outer walls.(grey strengthener side to the back of the outer wall)

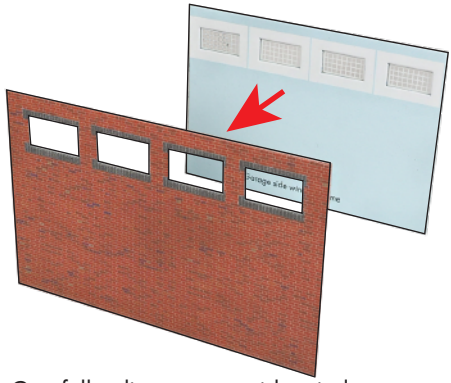




Fold back the inner doorway brickwork 90 degrees and glue to the inside section of the combined inner wall.

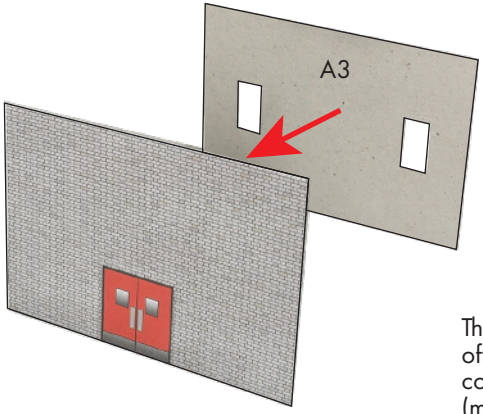


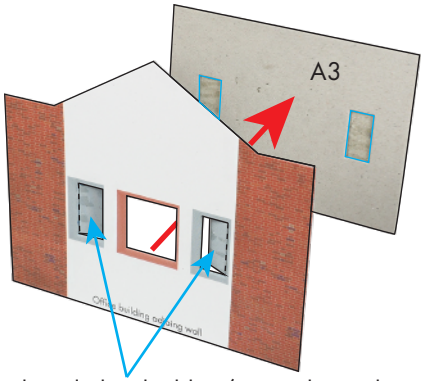
Add the garage window side inner wall flush to the back of the garage side window frame, lining up the windows with the openings, keeping all edges flush.



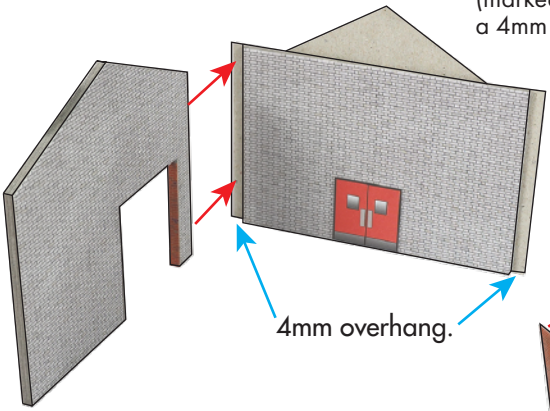
Carefully align garage side window frame (combined with the inner wall) to the outer wall with the windows facing through the openings leaving a 4mm outer wall overhang down each side.

Glue the garage adjoining inner wall to strengthener A3 (garage adjoining wall) keeping all the edges flush.

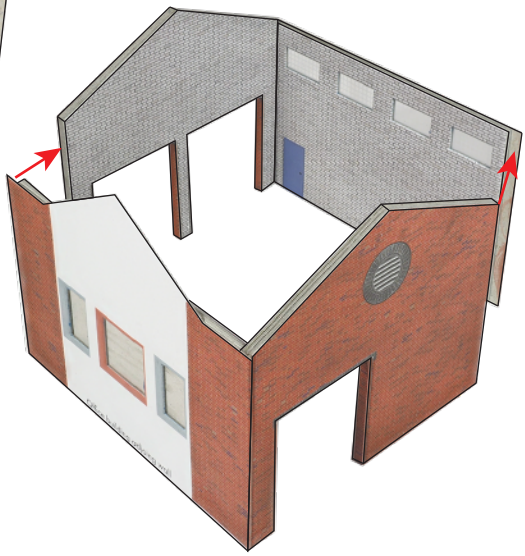




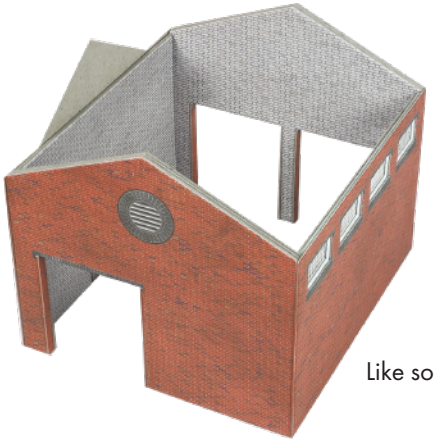
Then fold back and glue the blue/grey tabs on the office building adjoining wall, these tabs then fit into the corresponding slots on the inner wall strengthener (A3) (marked above in blue) to centre the wall, again leaving a 4mm outer wall overhang down each side.



Start with the rear door section and the adjoining wall. Slot the rear door wall into the 4mm space, keep at 90 degrees and allow the glue to dry. Repeat with the opposite walls - the garage main door and window wall side. Time for a cup of tea.

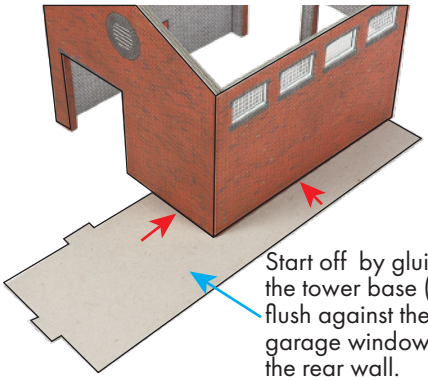


Now combine the two right angle wall sections slotting the two door sections into the 4mm slots on the side walls.

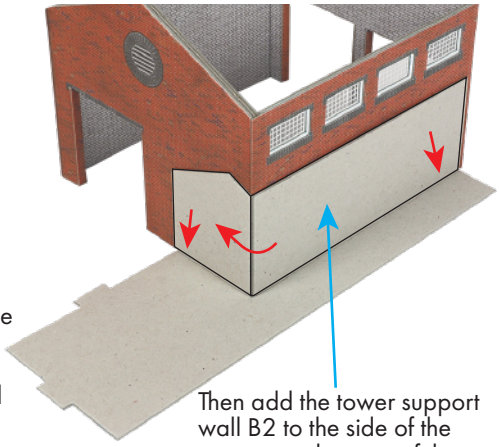


Like so.

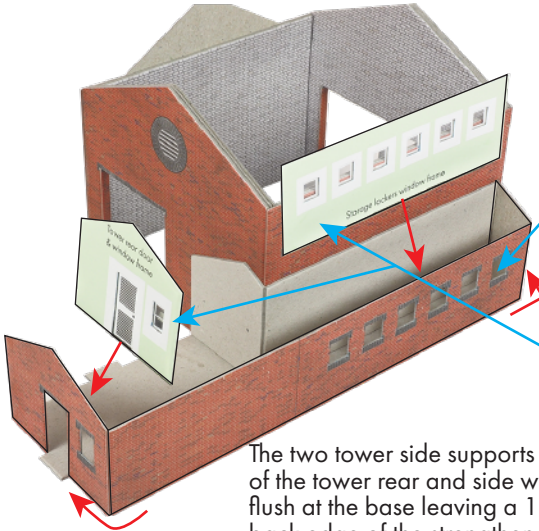
6 TOWER & SIDE STORAGE BUILDING



Start off by gluing into place the tower base (B1) this sits flush against the base of the garage windowed wall and the rear wall.



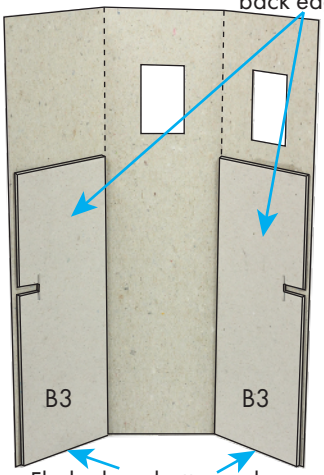
Then add the tower support wall B2 to the side of the garage and on top of the base.



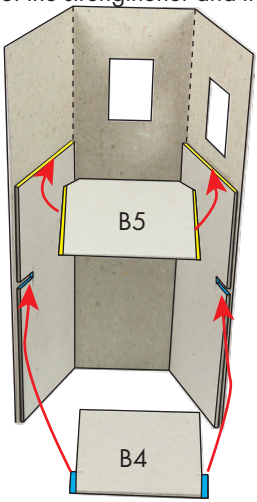
Now wrap the side storage walls around the base with the front wall fitting flush to the end of the support wall, test the fit before applying glue.

Position and glue into place the storage locker window frame and the tower rear door frame. Aligning the windows to the openings on the outer wall.

The two tower side supports (B3) fit tight into the corners of the tower rear and side wall section. Keep the edges flush at the base leaving a 1mm space between the back edge of the strengthener and the walls.



Flush along bottom edges.

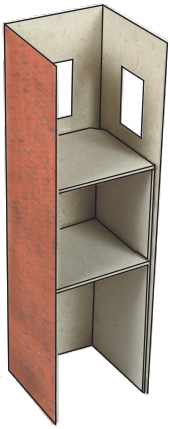


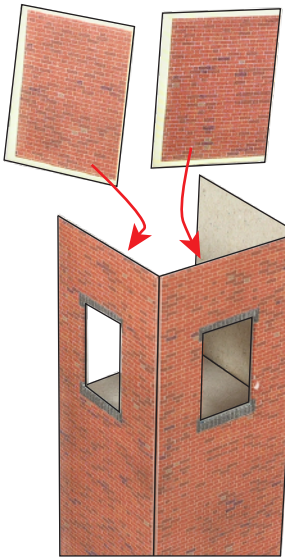
Now add the two tower floors (B4 & B5).

The lower tower floor (B4) has two small wings that fit into the side wall slots. Marked opposite in blue.

The upper tower floor (B5) rests atop the two side strengtheners. Marked opposite in yellow.

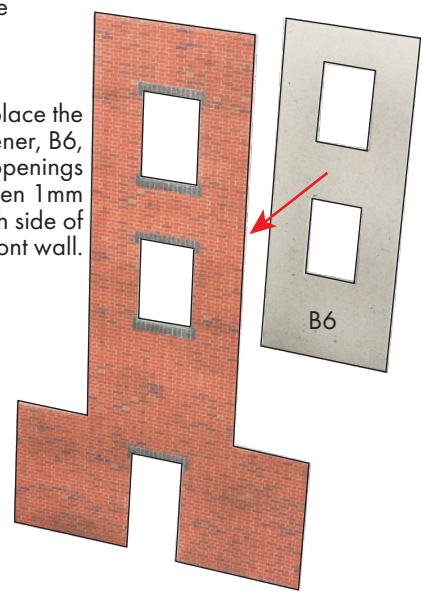
Like so.

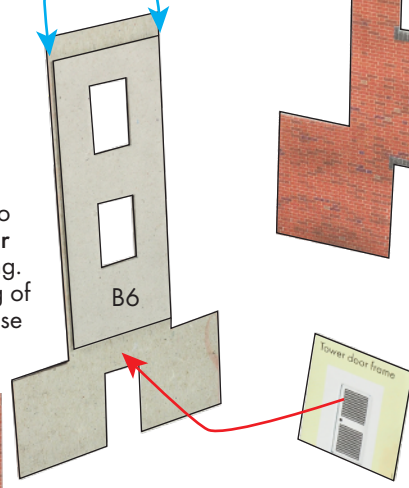




Next add the two 'bricked up' windows against the window openings and resting on the upper tower floor.

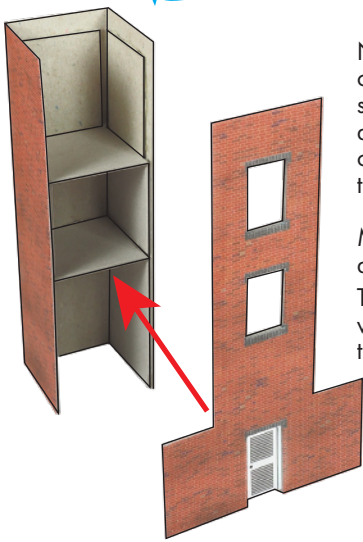
Align and glue into place the tower front strengthener, B6, keeping the window openings flush and an even 1mm overhang down each side of the outer tower front wall.





Fix the tower door frame flush to the **base of the B6 Strengthener** and aligned to the door opening. This will leave a 1mm overhang of the tower front wall from the base of the door. (see below)

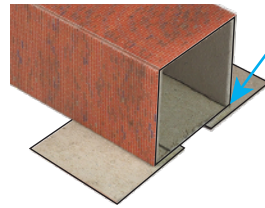
Door 1mm above the wall bottom.



Now add the tower front to the rest of the tower. The inner strengthening components should all fit tight together leaving the outer side walls lying flush together.

Make sure that all the top edges are flush.

The 1mm overhang of the front wall will remain from the rest of the tower base.



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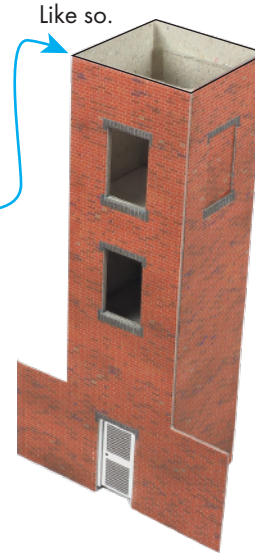
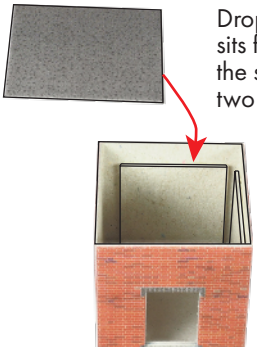
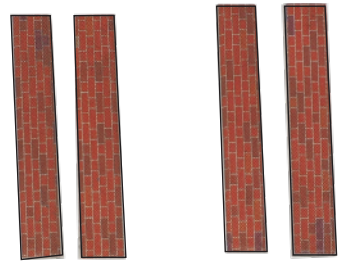


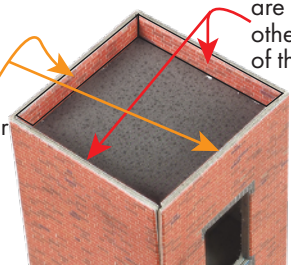


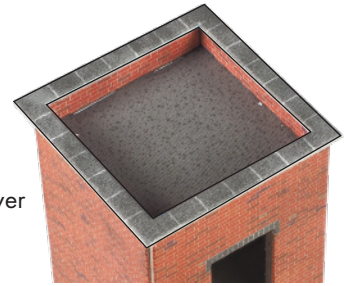
Drop in the tower roof, this sits flush against the top of the strengthener and the two 'bricked up' windows.



Take careful note of the tower inner walls, there are two pairs, one pair slightly longer than the other. Add the longer pair first at opposite sides of the inner walls keeping the top edges flush.

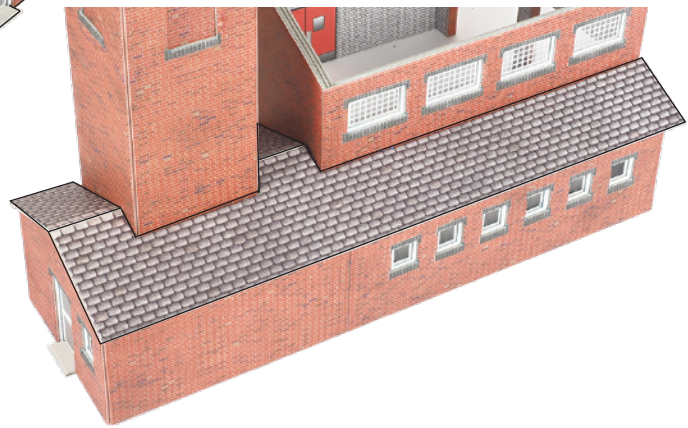
Then add the shorter inner walls to the other two sides.





Now add the tower capping stones

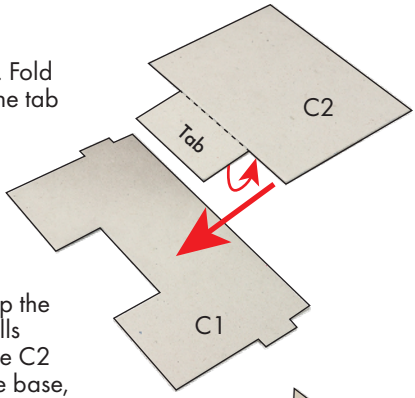
Add the completed tower to the rest of the model. The tower 'wing' walls fit flush against the tower support wall (B2) and the tower rear door wall, with the tower front walls overhanging the tower base with the doorway straddling the doorstep.

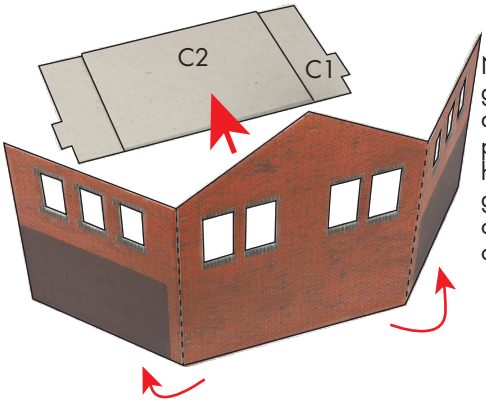


Lastly add the side storage roof, test the fit first before adding glue it is a tight fit around the tower.

7 OFFICE BUILDING

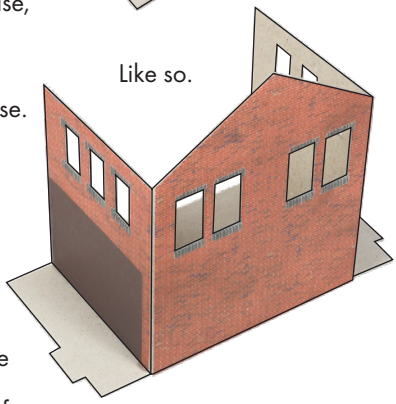
Start by combining the two base strengtheners C1, & C2. Fold back and glue the position tab on C2 then affix to C1 - the tab fitting into the slot, centralising the base card.



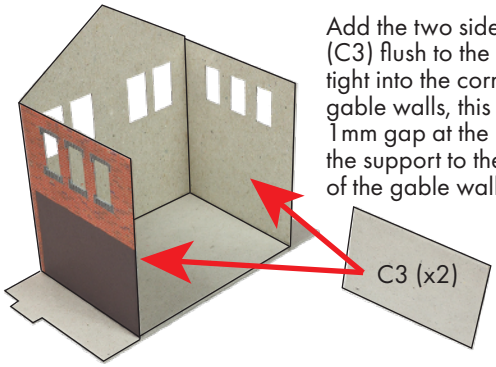


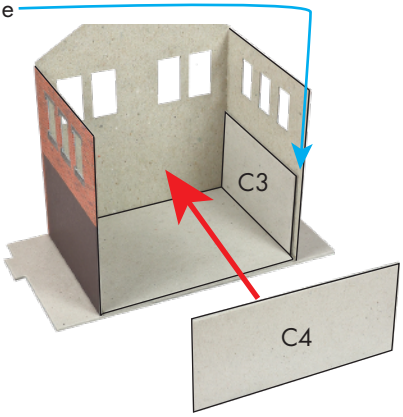
Now wrap the gable walls around the C2 part of the base, having the gable end overhang the combined base.

Like so.

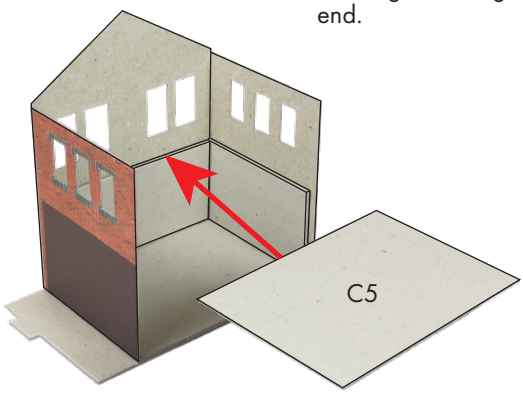


Add the two side supports (C3) flush to the base and tight into the corner fold of the gable walls, this will leave a 1mm gap at the back edge of the support to the back edge of the gable wall.

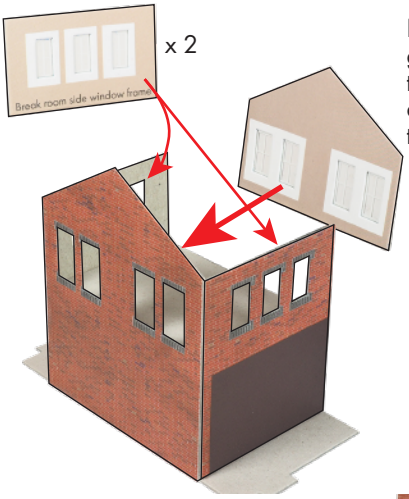




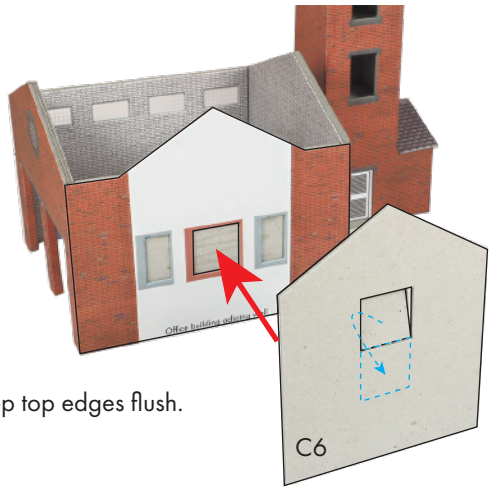
Next the gable end support (C4) flush to the base against the gable end.

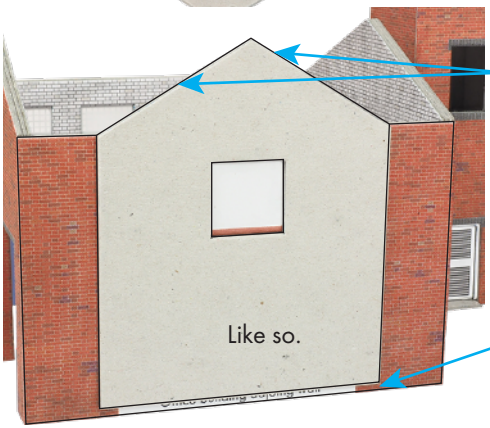


Then add the office floor support (C5) resting it atop the side and gable supports and flush to the inside of the gable wall again leaving a 1mm gap at the rear.



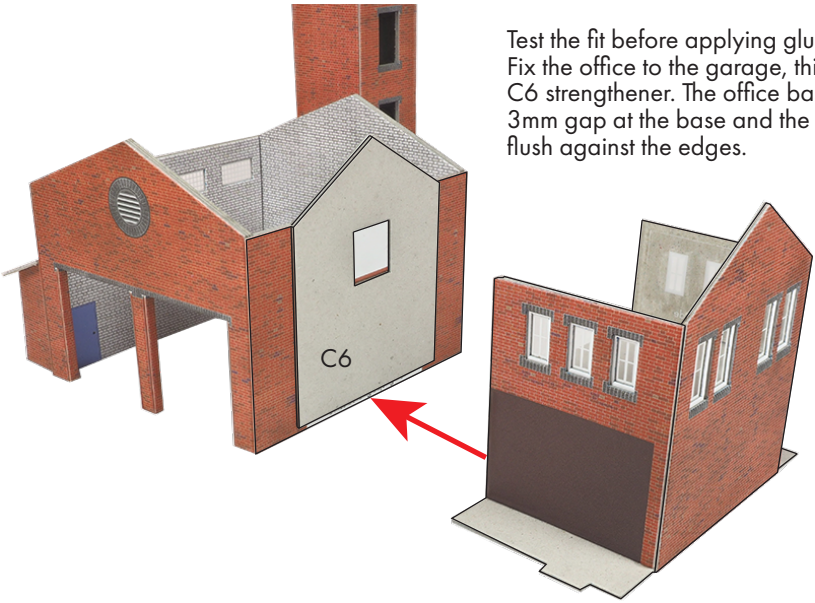
Now add the window frames, Break room gable to the inside of the gable wall and the two break room sides to either side. Carefully align the windows to the openings keeping the top edges flush with the outer walls.



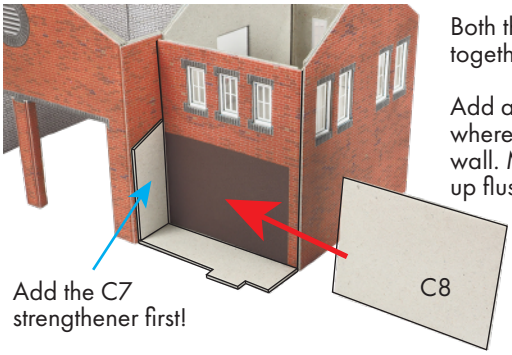


Keep top edges flush.

Fold back and glue the centre position tab on Strengthener C6 (adjoining wall) - shown by the dashed blue line above. This tab then slots into the red outlined, cut out square on office building adjoining wall.
This correctly aligns the strengthener into position with a 3mm gap at the base of the wall and flush along the apex edges.



Test the fit before applying glue.
Fix the office to the garage, this fits flush to the C6 strengthener. The office base fits under the 3mm gap at the base and the side walls fit flush against the edges.

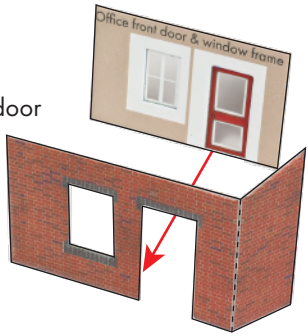


Add the C7 strengthener first!

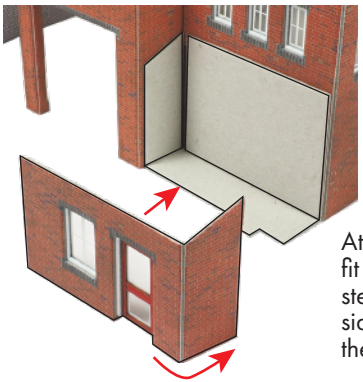
Both the front and rear office sections go together the same way.

Add a C7 strengthener tight to the corner of where the office building meets the garage wall. Make sure the outside shorter edge lines up flush with the base.

Then add the C8 strengthener to the back wall.



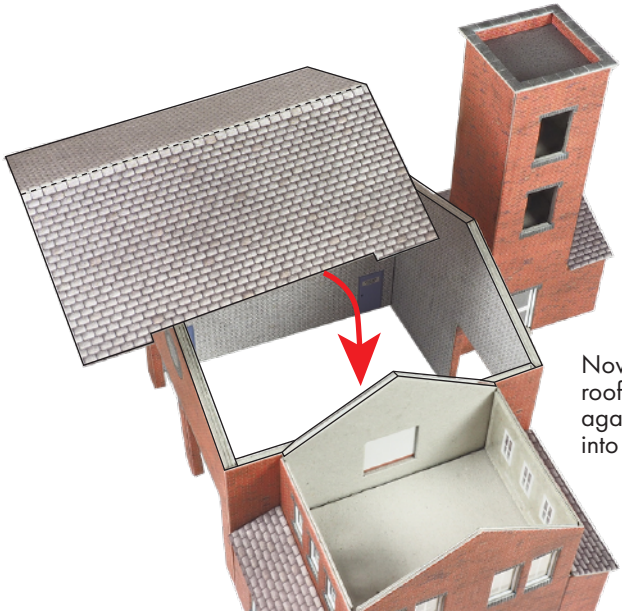
Now align the office window/door frame to corresponding wall. Carefully position so that the window and door frame are centred through the openings. This will leave the frame 1mm higher than the outer wall at the base and flush at the top edge.



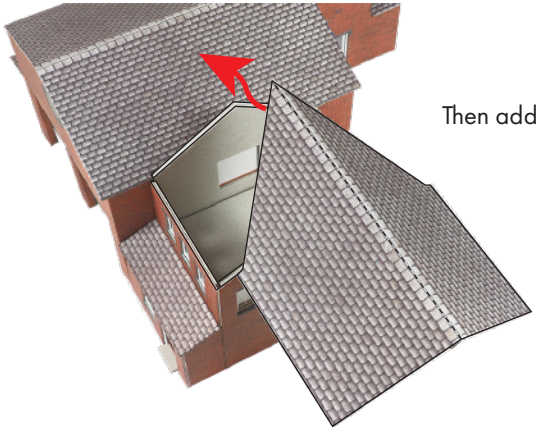
Attach the office walls into place, these fit flush to the office base with the door step fitting below the doorways. The side wall folds round and fits flush into the corner fold of the gable end.

Then add the small side roof.

Like so.



Now the main roofs. First add the garage roof, the cut out section on one side fits against the gable end, test the fit then glue into place.



Then add the gable roof.

7 FINISHING TOUCHES

Add strips of ridge tiles.

FIRE BRIGADE

Add a sign.

Add storage lockers.

Add the doors, if you want one open, trim to fit.