

PO360 OO Scale Tower Block

CHECK LIST

This kit should contain the following:

- 3 x PRINTED SHEETS - A, B & C
- 2 x GREY CARD SHEETS - Inner Supports.
- 1 x SMALL LASER CUT GREY SHEET
- 1 x GLAZING sheet.
- 1 x INSTRUCTION BOOKLET.

READ THROUGH ALL THE INSTRUCTIONS BEFORE YOU START.

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

1 TOOLS TO BUILD THIS KIT

1. A modellers knife.
2. A pair of sharp scissors.
3. A steel ruler.
4. Glue - See glues.
5. Metcalfe Ultra Fine Tip Bottles.
6. A cutting surface - a sheet of card or cutting mat.
7. Fine point tweezers.

GLUES

We recommend using a combination of two types of glue: Speed Bond and Rokat Card Glue.

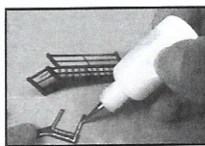
Both are made by Deluxe materials
www.deluxematerials.com

Rokat Card Glue is an instant, fast drying glue, great for where you need stuff to stay just where you place it. (supplied with it's own fine tip applicator)

Speed Bond is slightly slower drying, ideal for where a little positioning is required as you build.

METCALFE ULTRA FINE TIP APPLICATORS

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.

Code: MT907, available from our website: metcalfemodels.com



GETTING STARTED

2 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.

At this point leave all the balcony and roof wall parts attached to the sheet until needed.

Before you go any further it is best to paint the 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.

Code:T08 available from our website: metcalfemodels.com



INSTRUCTIONS

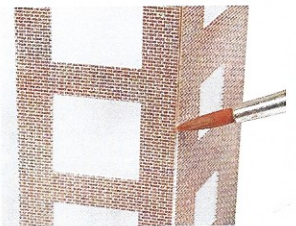
Mix your colour with lots and lots of water, approx. 1 part paint to 5 parts water or more.

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 light 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.

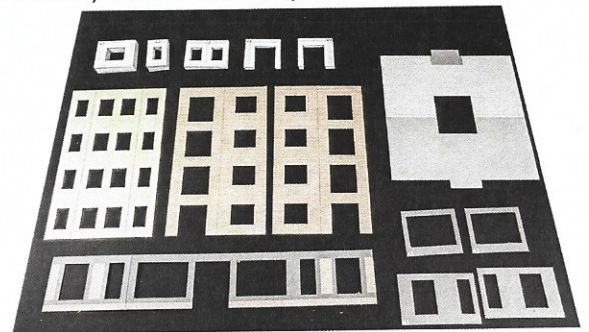
Wipe away any excess paint off the printed surface before it dries.



Like so.

Paint all the red brick, brown and dark grey 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'.



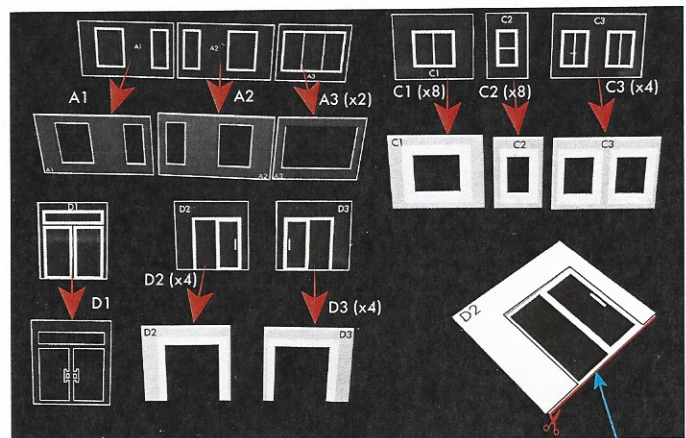
3 WINDOWS

Cut out all the clear glazing components (windows) and place on a separate sheet of dark card so they don't get lost.

Now match the glazing to the corresponding window and door frames, D1 matches to the door frame on the dark grey laser cut sheet.

Carefully align and glue each glazing to the back of the matching frame with the matt white printed side facing through the openings. Then place back into the builders yard until needed.

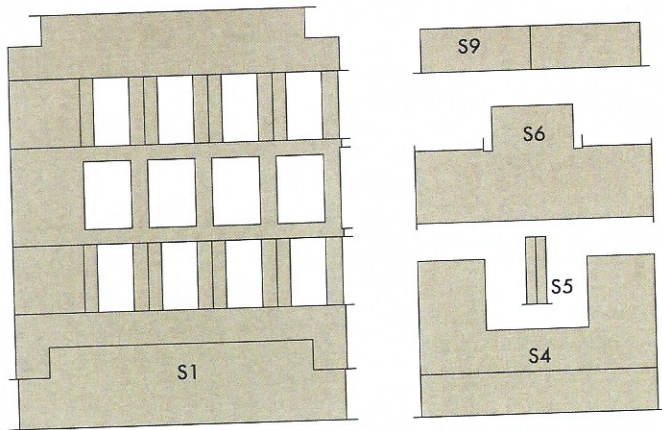
If you'd like to add curtains and/or window blinds, it's best to do this now, see extras sheet on the back page for details. A copy of this sheet can be downloaded from the product page on our website: Metcalfemodels.com



Make sure that the D2/D3 glazing is flush to the bottom of the frame. If need be carefully trim the glazing flush.

4 STRENGTHENERS

Below you'll find a key to each of the parts with an abbreviated code. This code will be used in the instructions, so bookmark the page for easy reference.



- S1 - Main Inner Frame
- S2 - Base Former
- S3 - Floors (x4)
- S4 - Foyer Former
- S5 - Side Wall Bracers (x2)
- S6 - Roof Former

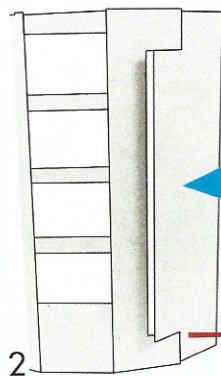
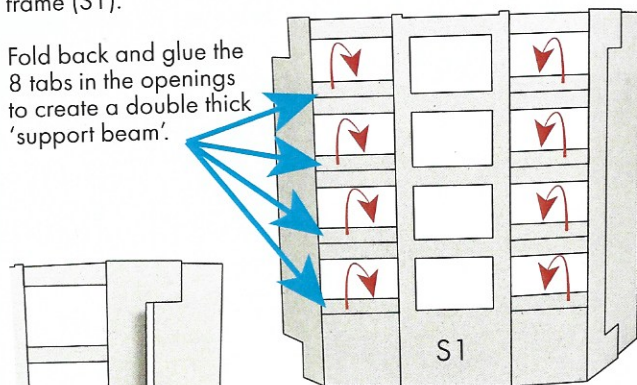
- S7 - Front Floors (x4)
- S8 - Rear Walls (x2)
- S9 - Balcony Spacer



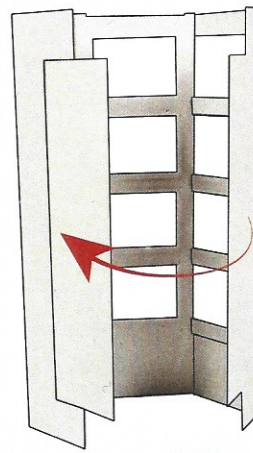
5 INNER FRAME

Start off with the inner frame (S1).

Fold back and glue the 8 tabs in the openings to create a double thick 'support beam'.

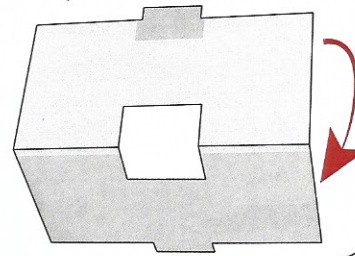


Then fold the rear wall section back onto itself and glue. This creates a slot for the opposite wall to fit into.



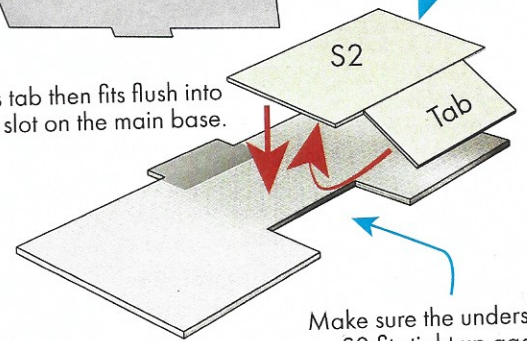
Fold the walls around to create a box shape, fitting the rear wall tab flush into the created slot. Glue into place.

Fold back and glue together the main base to create double thickness, make sure all edges are flush.

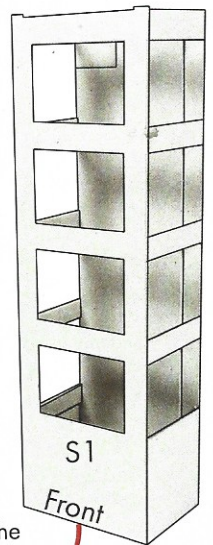


Take the S2 base former and fold back and glue the rear tab to the underside.

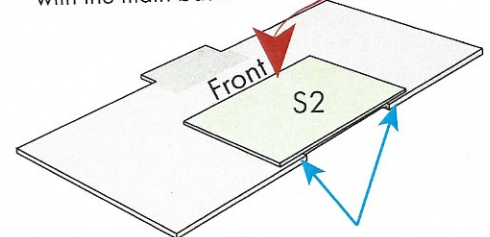
This tab then fits flush into the slot on the main base.



Make sure the underside tab on S2 fits tight up against here.

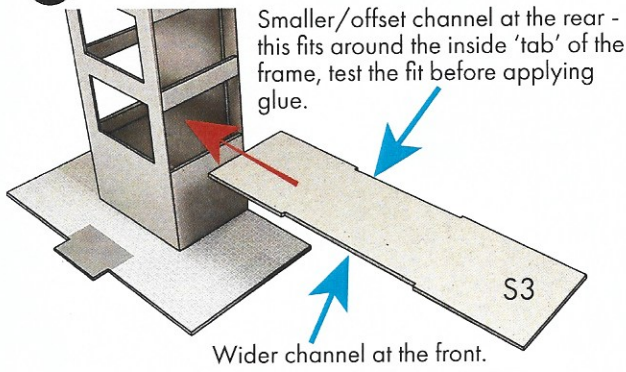


Now fit S1 over S2 on the base. The back edge flush with the main base.

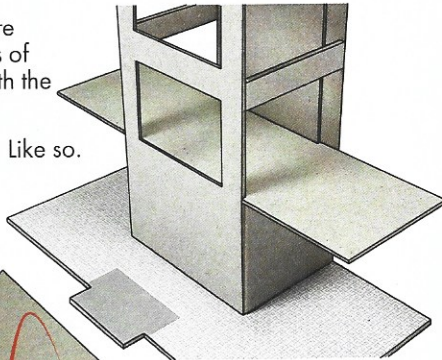


Note: be sure to have a 1mm ridge along the back edge for the rear wall of the S1 to fit flush to.

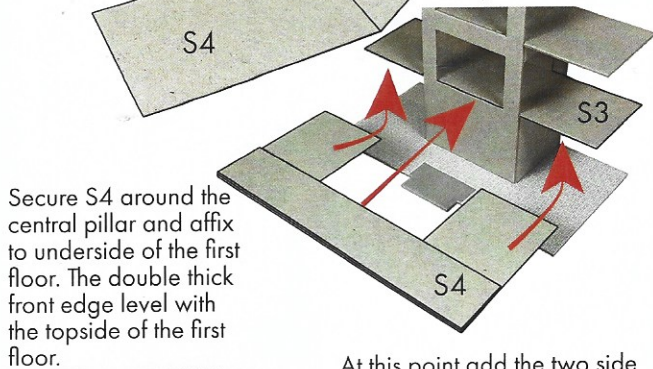
6 FLOORS



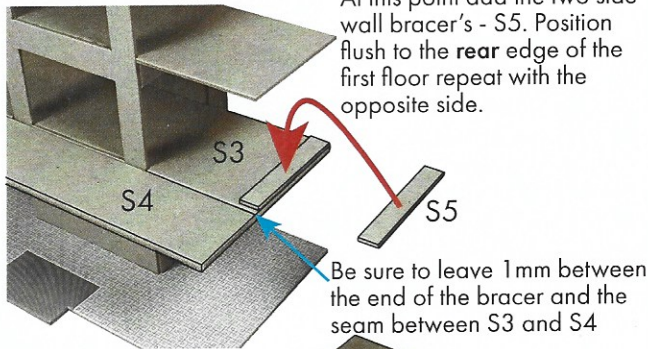
Once through, secure into place with spots of glue, then repeat with the remaining 3 floors.



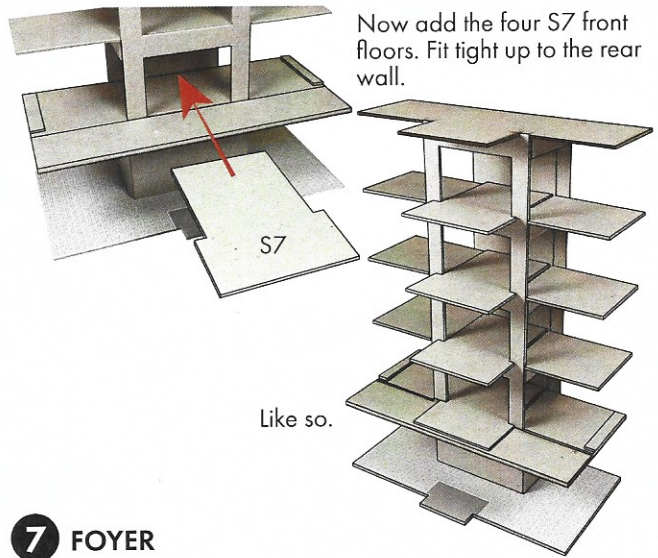
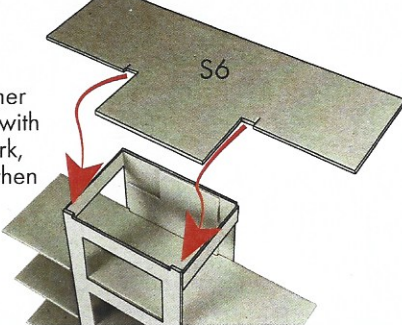
Fold back and glue the front edge of S4 to create double thick front edge.



At this point add the two side wall bracer's - S5. Position flush to the rear edge of the first floor repeat with the opposite side.

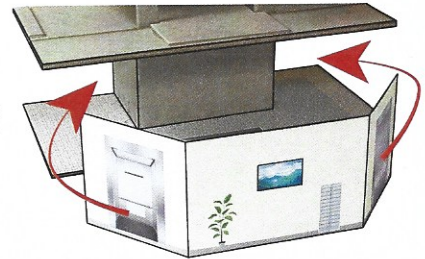


Now add the roof former S6, the notches match with the top of the framework, fitting snug. Test the fit then glue.

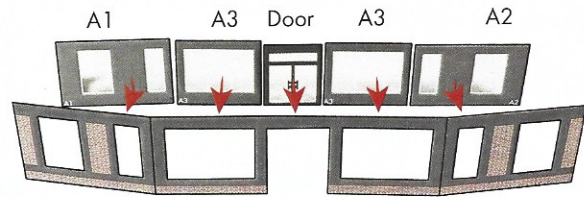


7 FOYER

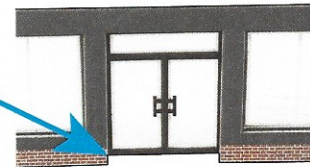
Before we start adding the walls to the frame, wrap the foyer internal walls from the extras sheet (on the back page of these instructions) around the pillar at the base of the framework.



Take the A1, A2, A3 window frames and the door and carefully align to the window openings on the Foyer walls. Fit the door last - see below.

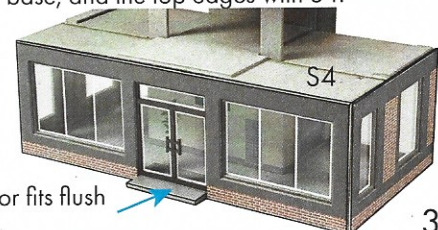


Note: the door will have a step up from the base of the wall, a 2mm clearance is required for the doorstep on the base. Test the fit before applying glue as the glueing area is very small.



Now wrap the foyer walls around the base of the framework. Start at the front positioning the door flush over the doorstep then wrap both sides around. Make sure the bottom edges are all flush with the base, and the top edges with S4.

Like so.



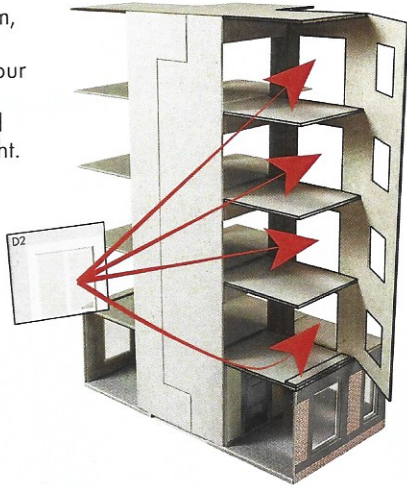
Make sure the door fits flush over the doorstep.

8 APARTMENT WALLS

Wrap the side walls around the frame the leading edge fitting tight against the S7 strengtheners. **Only glue the front into place.** This makes it a lot easier to position the sliding doors into place. Be sure to align the base of the openings flush with the inner floors.

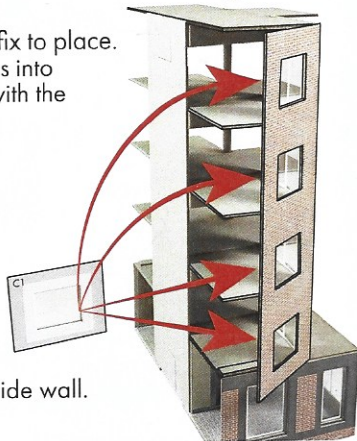


Starting at the bottom, carefully align and glue into place the four doors. D2 with the left hand wall, D3 with the right.

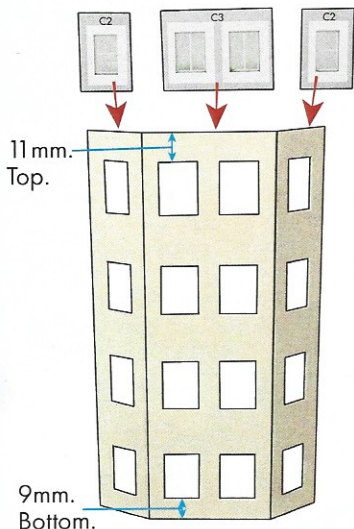


Fix all the doors into position.

Then fold the side wall and fix to place. Add four C1 window frames into position carefully aligning with the openings on the side wall.



Repeat with the opposite side wall.

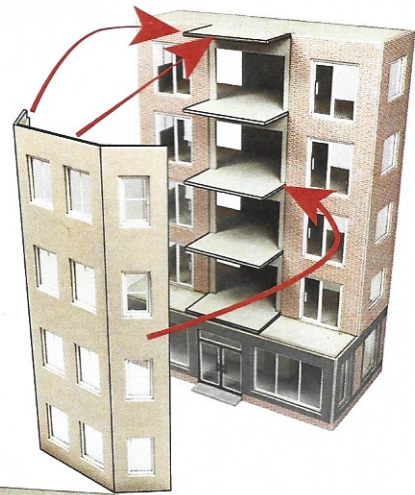


Now add the C2 and C3 windows to the back of the flat front walls. Carefully aligning them with the openings.

Note: It's all too easy to get the front walls upside down! The top has 11mm from the top of the window opening to the edge, the bottom is 9mm from opening to the edge. Mark on the back which is the top to avoid making an error.

Add the front walls to the build.

Carefully line up the S7 strengtheners so they fit inbetween the inner frames. The top edge flush with the roof former - S6. Test the fit and glue into place.

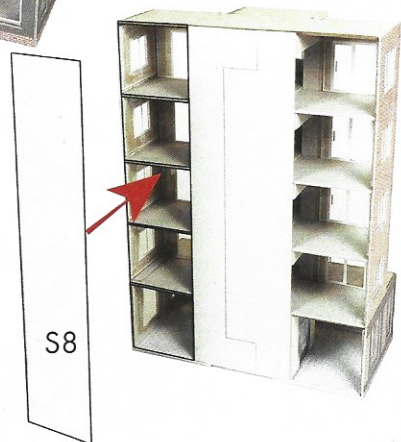


Like so.



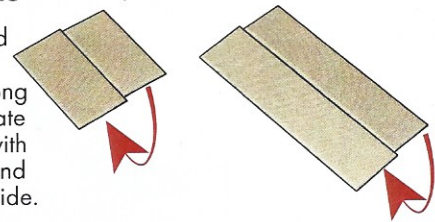
Note - the 2mm ridge along the front is correct! We will come back to it at the very end.

Lastly add the two S8 wall backs, these sit on top of the base and flush against the inner floors.

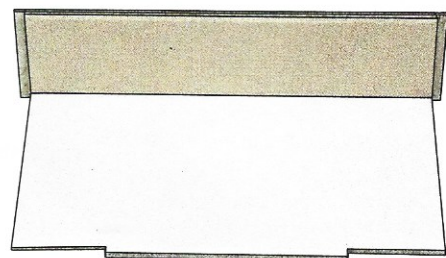


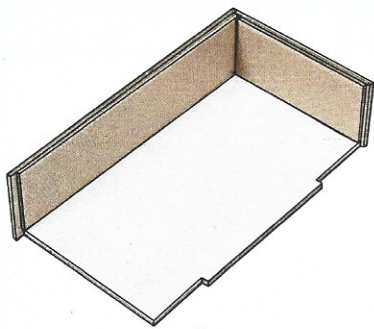
9 BALCONIES

Start by folding and gluing back all the balcony walls (8 long and 8 short) to create double thick wall with the outside wider and deeper than the inside.

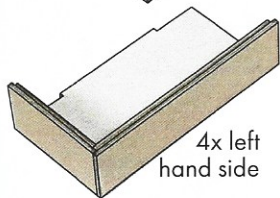


Attach all the long wall sections to the long edge on the balcony base. Keep the inside wall edges flush to the sides of the base and the outer wall overlapping the base edge.



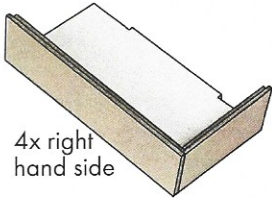


Now add the short walls. Four to the left of the long wall and four to the right. The outside wall butts up to the long wall outside, the same with the inside wall. Again keep the inside wall flush to the edge of the base.



4x left hand side

Like so.

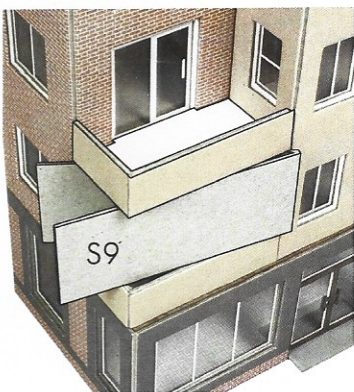


4x right hand side



Starting at the first floor, notice how the balcony fits into place, the 'step' fits into the doorway and the outside wall extends into the corner folds of the building walls.

Fold S9 into a triangle and place on top of the balcony below this helps position the next balcony up. Take extra care to make sure the balcony is level. Wait until the glue sets then go through the same process with the next balcony up. Take your time and keep checking that the balconies are setting in place and don't slip out of position. Repeat on the opposite side.



Fold here



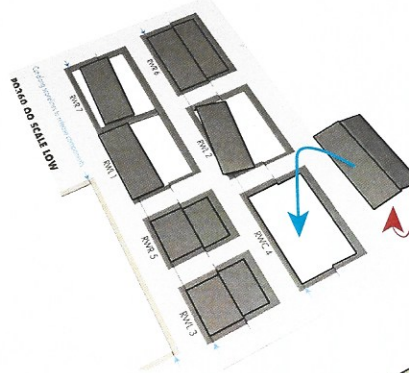
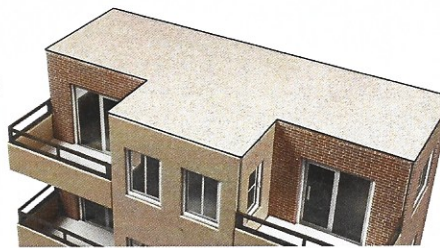
Holding tacks

The laser cut balcony railings are quite delicate, so take great care in extracting them from the base sheet. They are held in place with small tacks along the bottom edge, hold up to the light so you can see them, then gently run your knife along the cut to release the components. Attach to the top of the balcony walls the ends fit into the corner fold of the walls like the balcony walls.



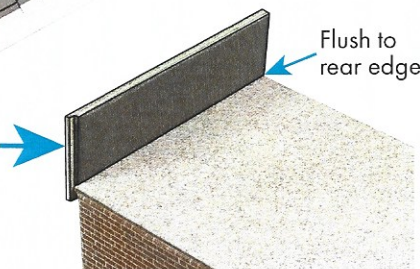
10 ROOF

Add the main roof to the top of the building, keeping all edges flush.



Now extract the roof walls (RW1-7) one by one from the base sheet. Fold each in half to create double thickness and place back on the base sheet so not to confuse which is which, or you can arrange in order 1-7.

Start from the back left corner of the roof with RW1. The flush end to the rear, the shorter inside wall sits atop the roof with the longer outside wall overlapping the edge.

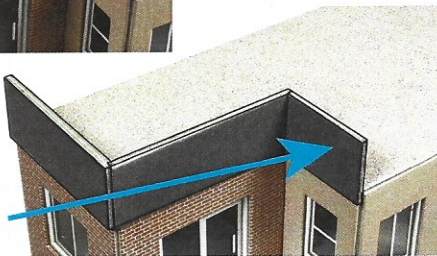


Flush to rear edge



Now add RW2 this slots into the end of RW1, and flush to the roof edge.

Continue round the roof with RW3 slotting into RW2 ending flush with the front edge of the roof.

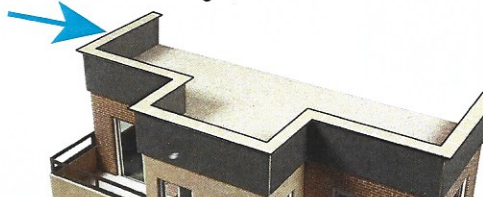


Now add the centre section, RW4, flush to the roof edge and overlapping the end of RW3.



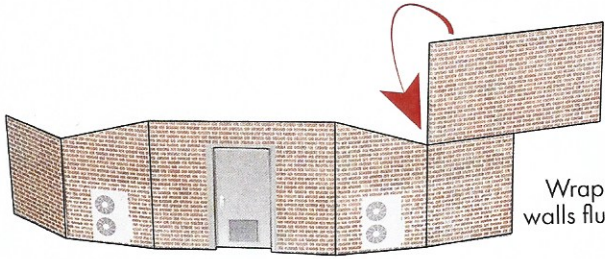
Continue round the roof with RW5 - RW7 fitting the same way as their opposite walls.

Once complete add the wall capping, keeping flush with the rear edge and an even overhang over each section of the wall.

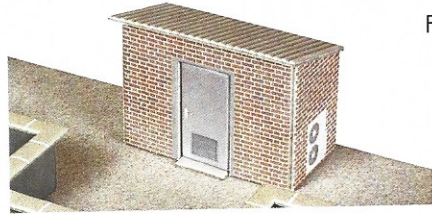


11 ROOFTOP ACCESS HUT

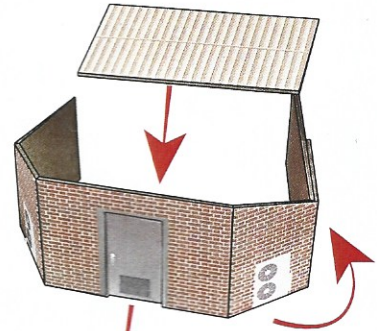
Fold back and glue the wall joiner.



Wrap the walls around the base fixing the walls flush together at the rear via the joiner.

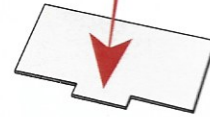


Then add the roof.



Fix to the rooftop.

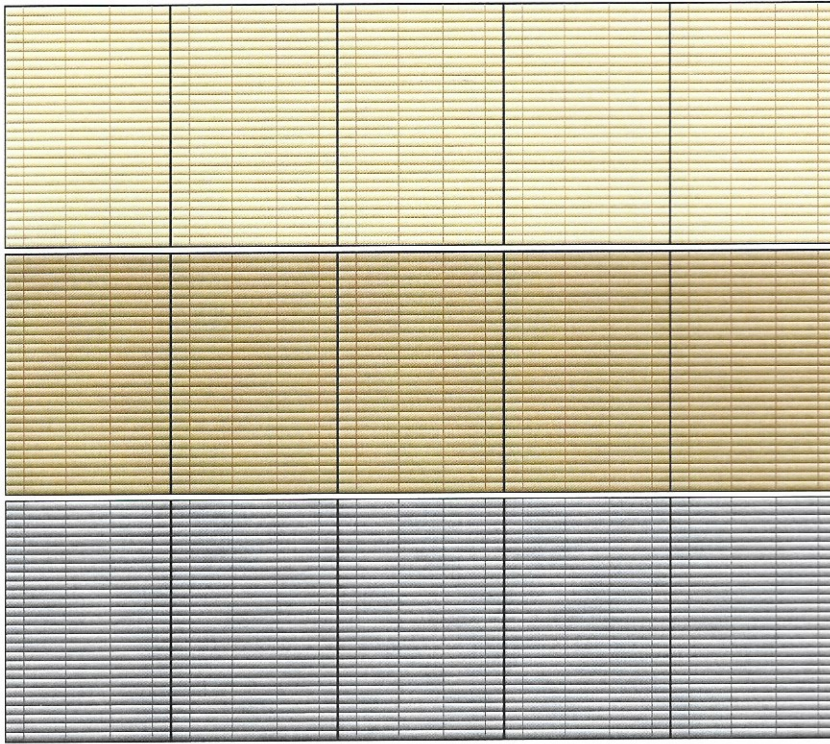
Like so.



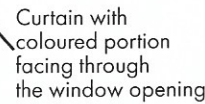
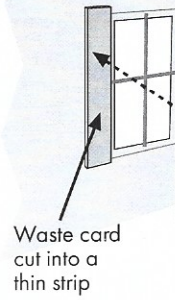
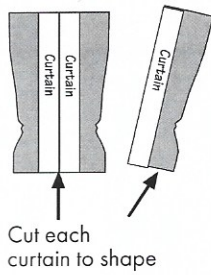
Add the laser cut fascia strip to the 2mm ledge along the front and trim a sign to fit.

METCALFE TOWER

EXTRAS SHEET

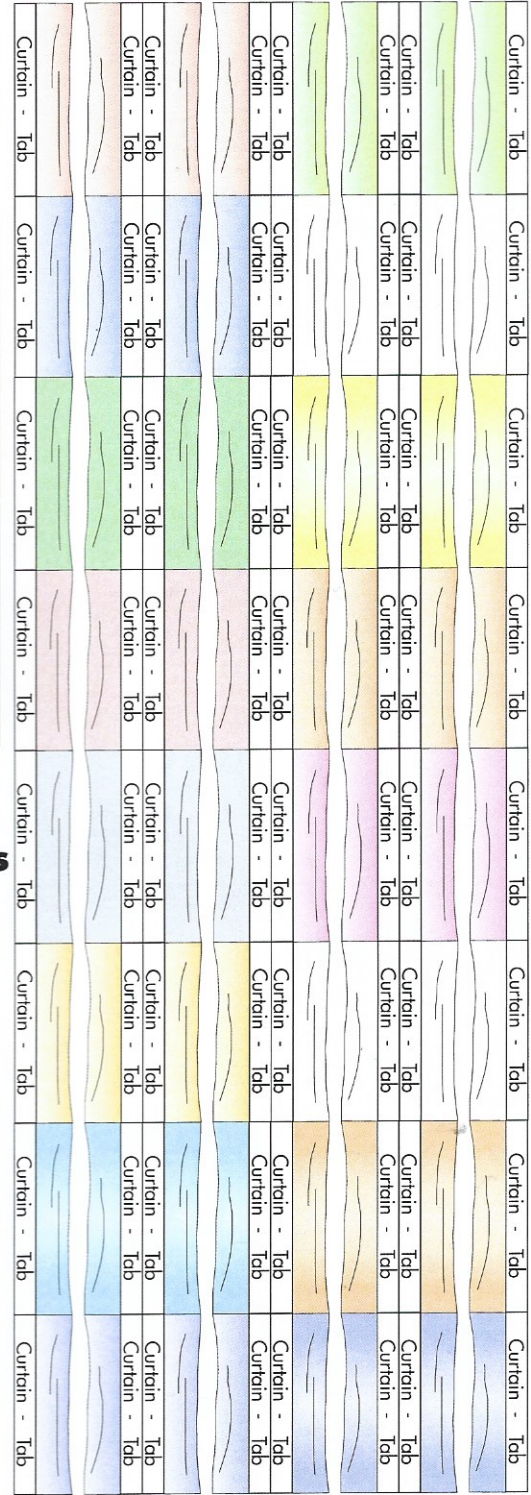


Window Blinds



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).



Internal Walls

Carefully score between the arrows

