PN960 N Scale Tower Block INSTRUCTIONS

CHECK LIST
This kit should contain the following:
1 x SHEET A. Printed kit parts.
1 x GREY CARD. Inner Supports.
1 x GLAZING sheet.
1 x INSTRUCTION BOOKLET.
1 x Extra bits sheet. Curtains & Blinds

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

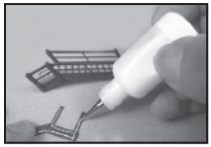
1. A modellers knife.
2. A pair of sharp scissors.
3. A steel ruler.
4. Glue - See glues.
5. Metcalfe Ultra Fine Tip Bottles.
6. A cutting surface - a sheet of card or cutting mat.
7. Fine point tweezers.

GLUES

We recommend using a combination of two types of glue:
Speed Bond and **Roket Card Glue.**
Both are made by Deluxe materials www.deluxematerials.com
Roket 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.

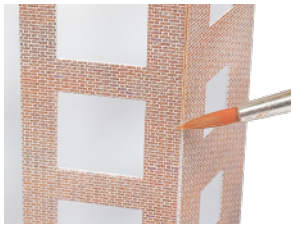
To release them run the point of your knife along these score lines and they will come seamlessly away.
These score lines are marked with blue arrows:
WARNING, Cut with care using a knife that is not too sharp, this will reduce the risk of the blade running off the score and cutting the components.
At 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

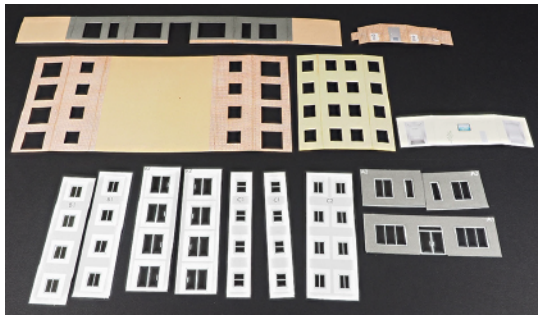
Mix your colour with lots and lots of water, approx. 1 part paint to 5 parts water or more. TEST ON WASTE CARD FIRST UNTIL YOU HAVE THE CORRECT SHADE & COLOUR.
To match the brick colour you will only need to mix a warm red and equal amounts of light brown along with lots of water. You don't want to be 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'.

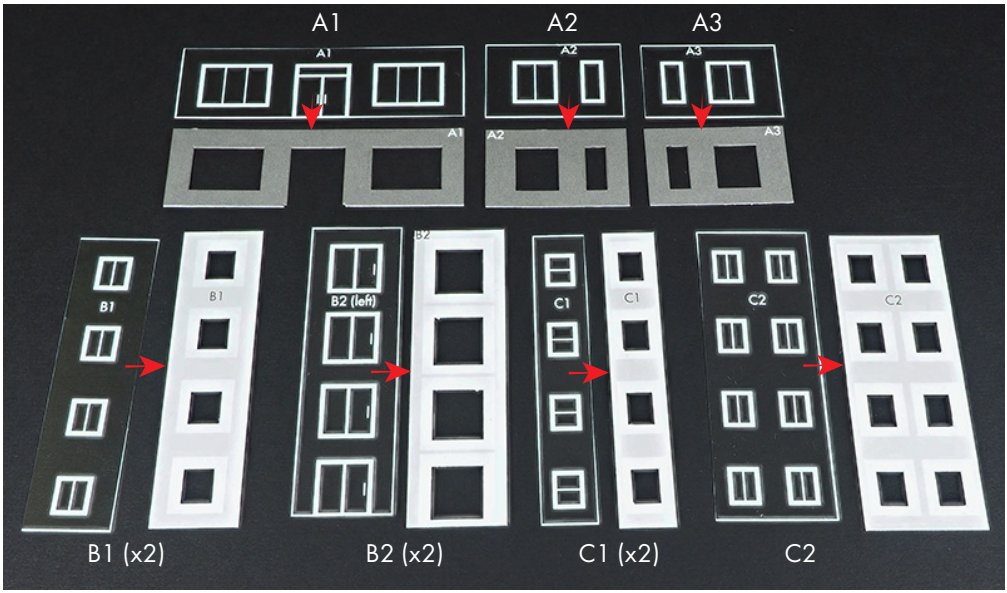


3 WINDOWS

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

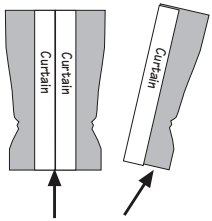
Now match the glazing to the corresponding window and door frames.

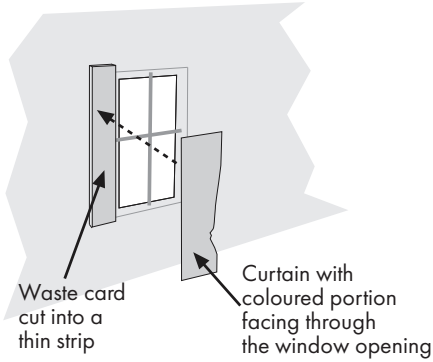
Carefully align and glue each glazing to the back of the matching frame with the matt white printed side facing through the openings. Then place back into the builders yard until needed.



If you'd like to add curtains and/or window blinds do this now.

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).

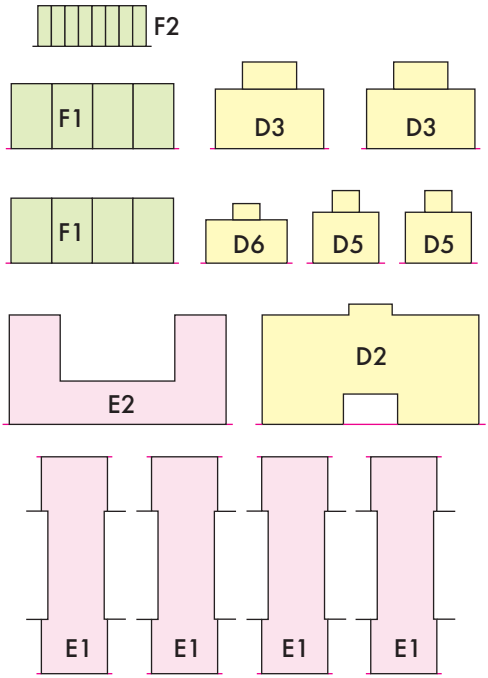


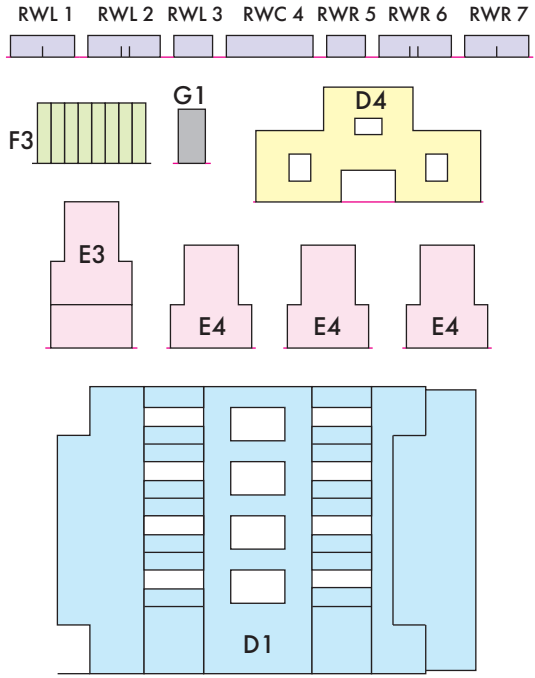


4 STRENGTHENERS

There are a lot of small strengtheners (the plain thick grey card) in this kit, so it's best to leave them on the sheet until needed. 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 this page for easy reference.

Strengthener Key





The components are colour coded to help identify the matching parts quicker.

Blue: D1 - Main Inner Frame

Pink: E1 - Floors (x4)
E2 - Foyer Ceiling
E3 - 1st Front Floor
E4 - Front Floors (x3)

Purple: RWL 1 to RWR 7 - Roof wall inner str.

Grey: G1 - Rooftop Access Hut Base

Yellow: D2 - Main Base
D3 - Base Formers (x2)
D4 - Roof Base
D5 - Side Roof Formers (x2)
D6 - Front Roof Former

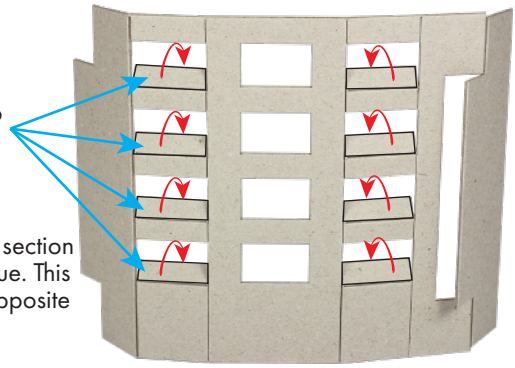
Green: F1 - Balcony Base (x8)
F2 - Balcony Short Wall (x8)
F3 - Balcony Long Wall (x8)

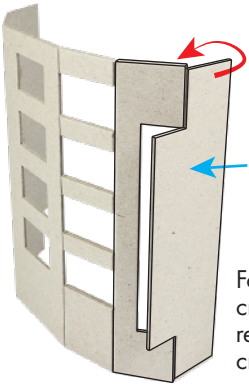
Let's start the construction.

5 INNER FRAME

Start off with the inner frame (D1).

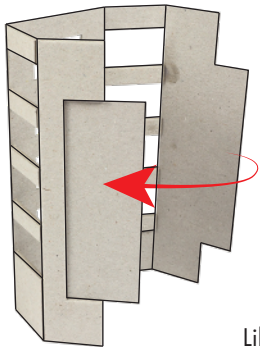
Fold back and glue the 8 tabs in the openings to create a double thick 'support beam'.





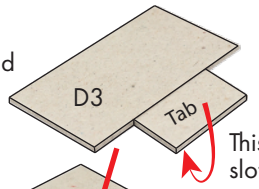
Then fold the rear wall section back onto itself and glue. This creates a slot for the opposite wall to fit into.

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

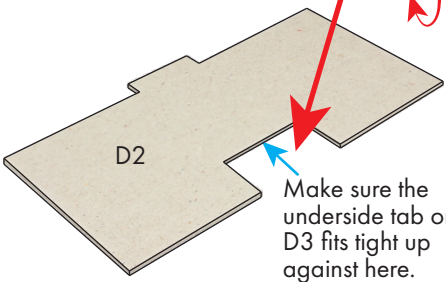


Like so.

Take one of the D3 base formers and fold back and glue the rear tab to the underside.

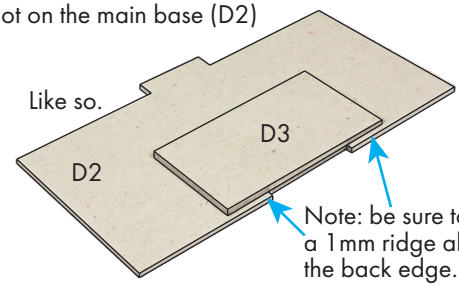


This tab then fits flush into the slot on the main base (D2)

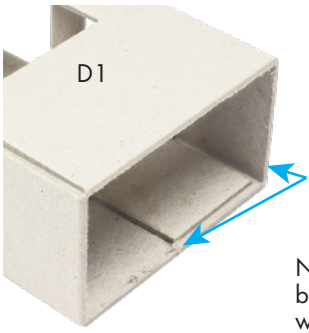


Make sure the underside tab on D3 fits tight up against here.

Like so.

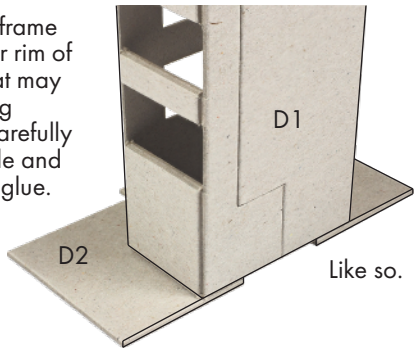


Note: be sure to have a 1mm ridge along the back edge.



Before attaching the inner frame to the base, check the inner rim of the base for any 'burrs' that may hinder the frame fitting snug around D3 on the base. Carefully file them off with your blade and test the fit before applying glue.

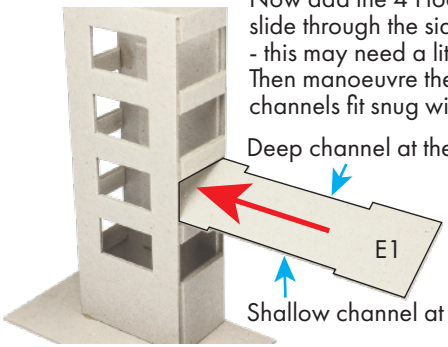
Now fit D1 over D3 on the base. The back edge flush with the back edge of D2.

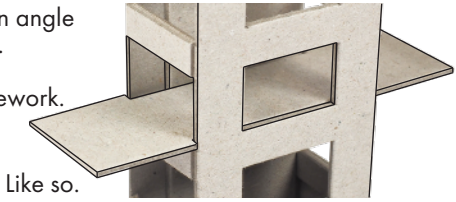


Like so.

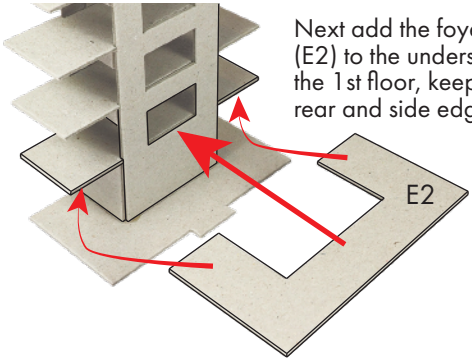
6 FLOORS

Now add the 4 Floors (E1) slide through the side gaps on an angle - this may need a little wriggling. Then manoeuvre the floor so the channels fit snug within the framework.

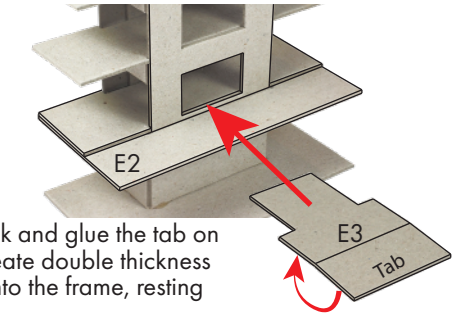




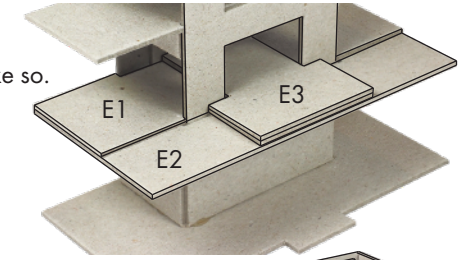
Once through, secure into place with spots of glue, then repeat with the remaining 3 floors.

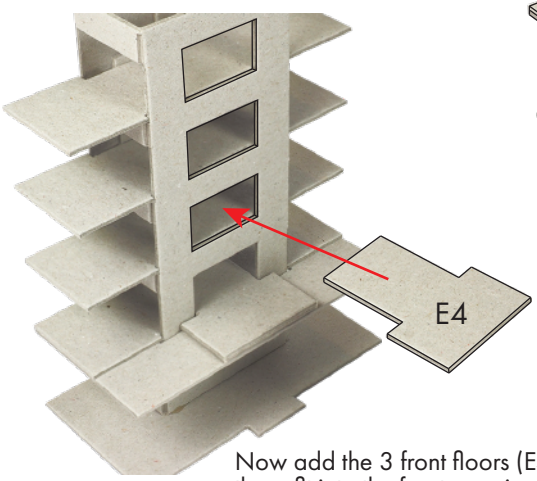


Next add the foyer ceiling (E2) to the underside of the 1st floor, keeping the rear and side edges flush.

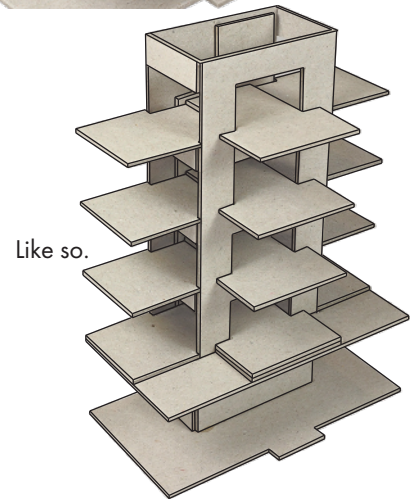


Fold back and glue the tab on E3 to create double thickness then fit into the frame, resting atop E2.



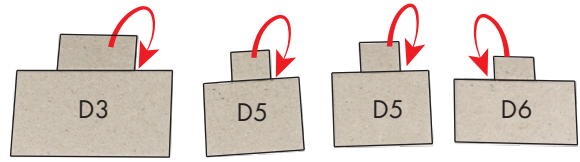


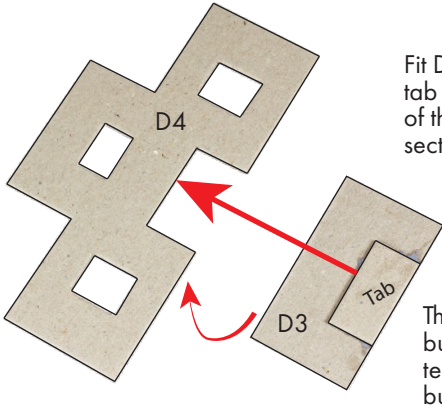
Now add the 3 front floors (E4) these fit into the front openings flush to the rear wall.



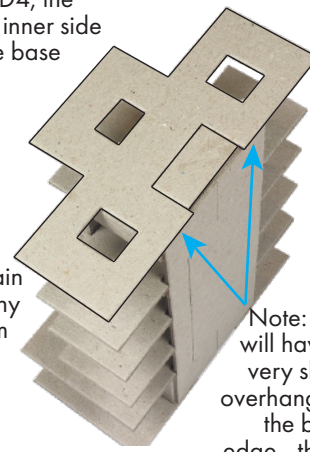
7 ROOF

Fold and glue back the tabs on the four formers, D3, D5 (x2) and D6, then flip them over so they are tab side up.



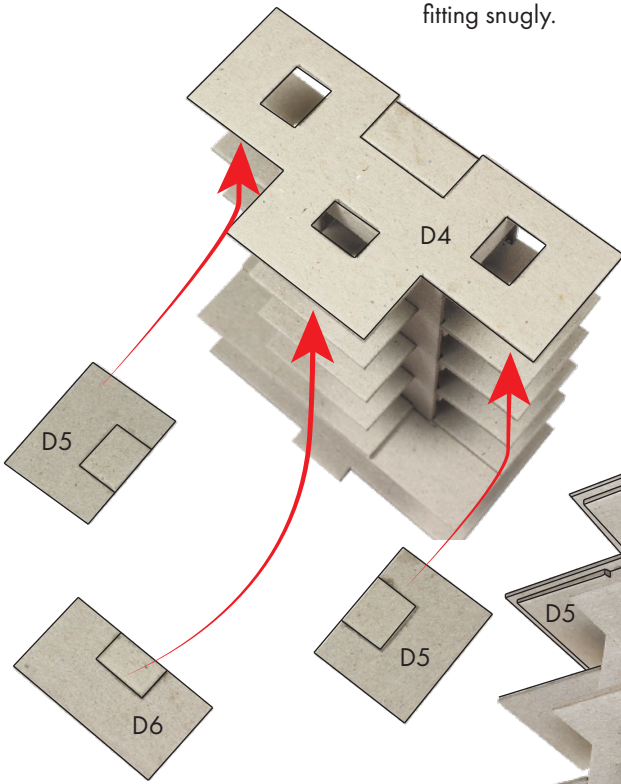


Fit D3 to the **underside** of D4, the tab fitting tight against the inner side of the rear slot. Just like the base section.



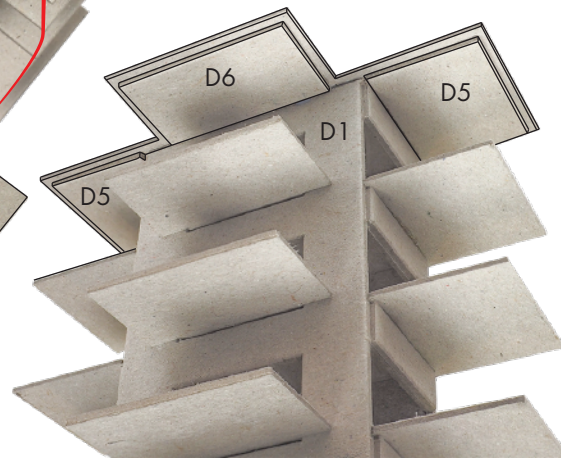
Then fit to the top of the building framework, again test the fit and remove any burrs that hinder D3 from fitting snugly.

Note: you will have a very slight overhang on the back edge - this is correct!



Now fit the two D5's and the D6 centred to the **underside** of D4, make sure that the inner edges are flush to the wall of the D1 frame, the tabs fitting to the corresponding holes in D4.

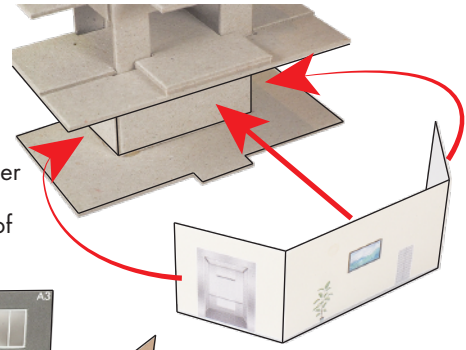
Like so. (viewed from below)

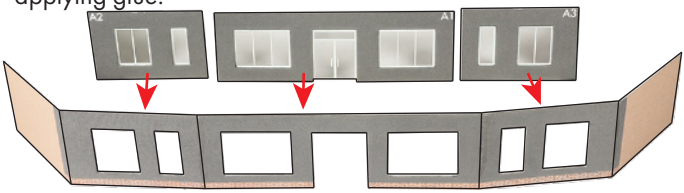


8 FOYER

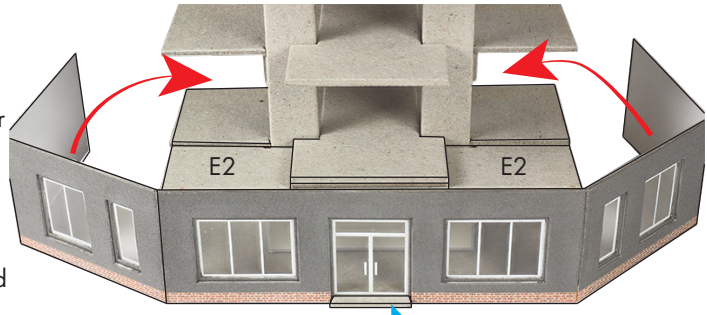
Before we start adding the walls to the frame, wrap the foyer internal walls around the pillar at the base of the framework.

Take the A2, A1 and A3 window frames and carefully align to the window openings on the Foyer walls.
Note: the door will have a step up from the base of the wall, this is for the doorstep. Test the fit before applying glue.



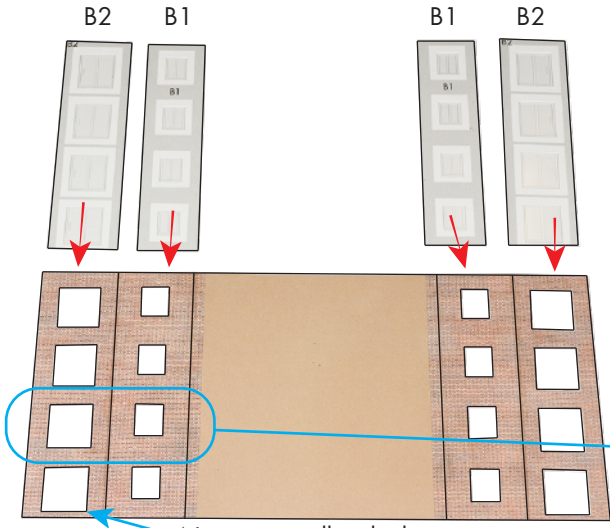


Now wrap the foyer walls around the base of the framework. Start at the front positioning the door flush over the doorstep then wrap both sides around ending at the back with the rear sections butted up against each other. Make sure the bottom edges are all flush with the base, and the top edges with E2.



Make sure the door fits flush over the doorstep.

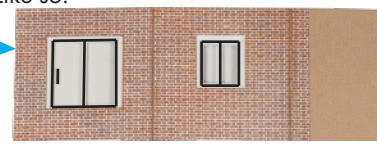
9 APARTMENT WALLS



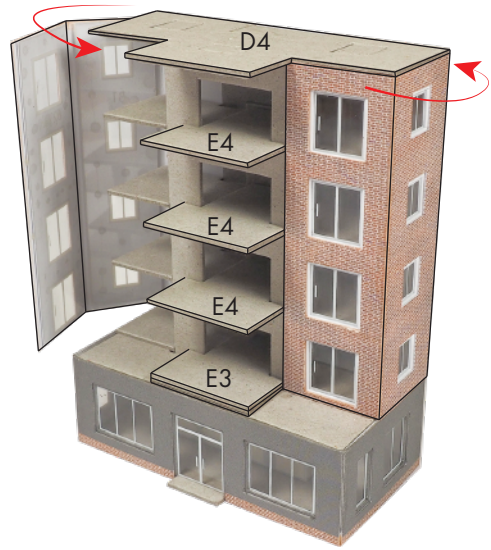
Narrower wall at the bottom.

Start by adding the B2 and B1 window frames to the rear of the flat walls, carefully aligning the windows to the openings on the main walls.

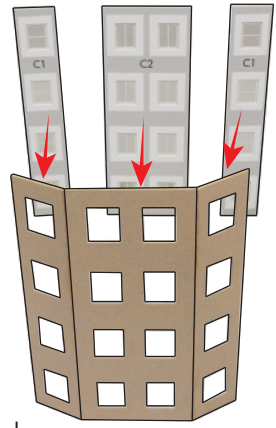
Take careful note of the B2 door frames, because the walls wrap around from behind the B2 right windows will be on the left, and the B2 left on the right.
It's a tad confusing so an easier way is to have the sliding door handles closer to the outside edge.
Like so.



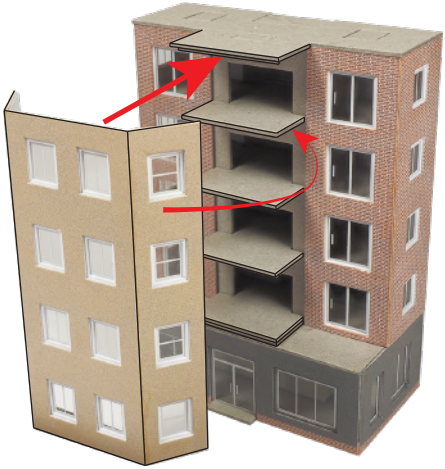
Test this fit before applying glue.
Start at the front and fit tight up against the front floor strengtheners (E3/4) then gradually fit the walls around the back of the building keeping the top of the wall flush to the edge of the roof base (D4)



Like so.



Now align and add the two C1 and C2 window frames to the back of the flat front walls. Carefully align the windows with the openings.
Note: the front wall section is the same fit upside down, so don't worry if you've forgotten which is the right way up!

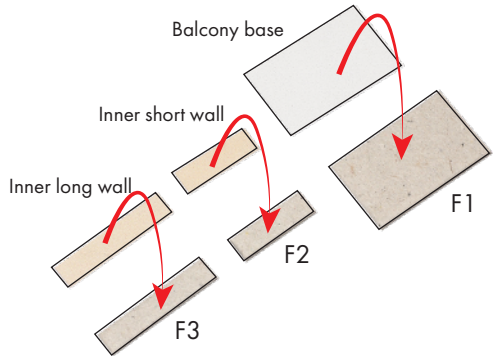


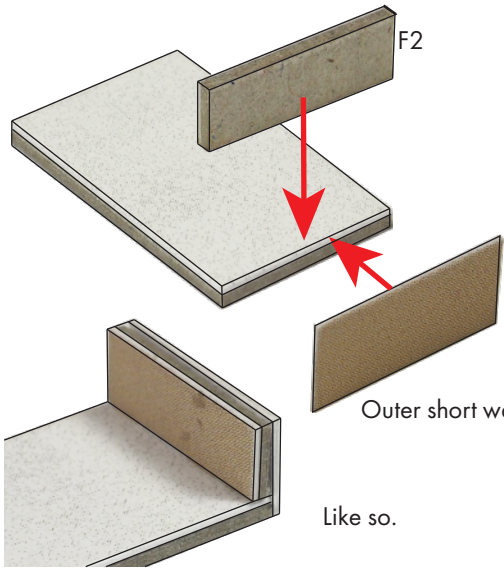
Now wrap the front walls around the front wall strengtheners, flush against the brick walls.

Like so.

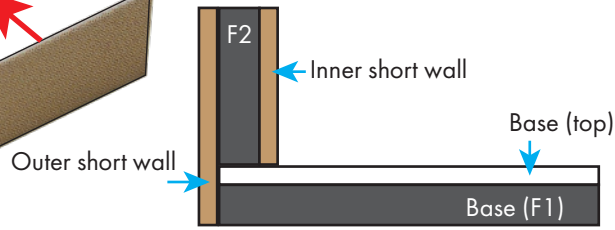
10 BALCONIES

Now for the time consuming section.
Start with the balcony bases and the inner balcony walls.
Combine the 8 short and long walls with the strengthener equivalent, also the 8 bases.
Keep all the edges flush.

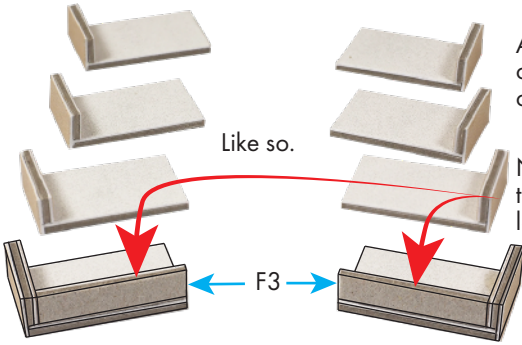




Now glue the inner short wall flush to the edge of the balcony base, printed side facing in. Then add the outer wall so it spans the height of the short wall as well as the thickness of the base. See the plan below.



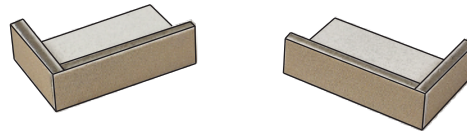
It is a fiddly process, so take your time and it's best to use tweezers.
Repeat the process for all 8 of the balconies.



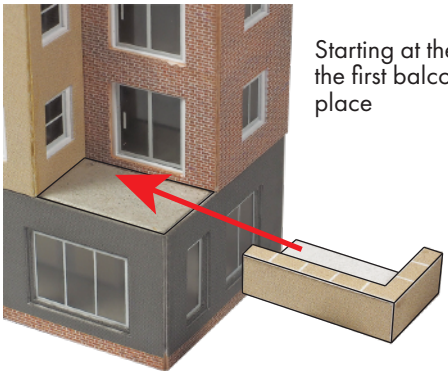
Arrange the balconies into two sets of four - one set with the short wall on the left, the other on the right.

Now add the Inner long wall, tight up against the end of the short wall and flush with the long edge along the base.

Glue the long outer balcony walls into place flush with the bottom of the base and top of the inner wall.



Last, fit the balcony capping stones, make sure that the end of the capping and wall ends are flush.



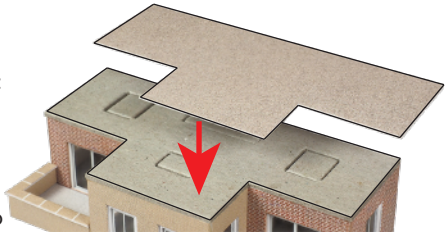
Starting at the bottom fit the first balcony flush into place

Then work your way up, carefully aligning the balcony with the bottom of the sliding door.
It's easier if you lay the building flat on its back, then leave on it's back until the glue has set.

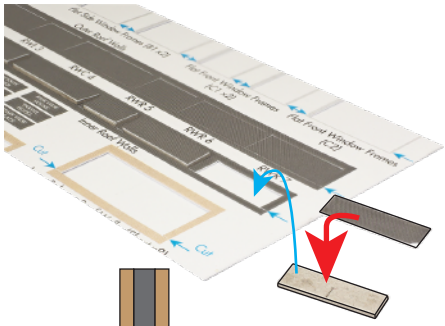
Repeat the process on the other side.

11 ROOF WALL

First off add the main roof to the top of the build, keeping all edges flush.

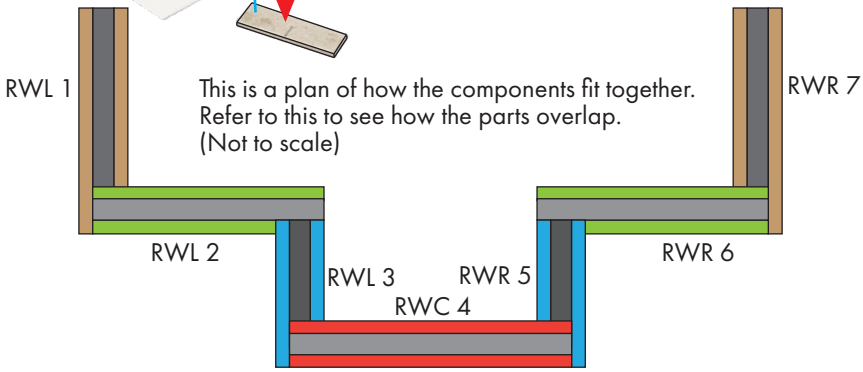


Now onto the roof walls. These sections need to be added in order, so only remove the parts from the base sheet as needed to avoid getting them mixed up.



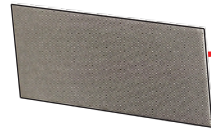
Match and glue together the **Inner roof walls only** with the corresponding strengtheners, keeping all the edges flush. RWL1 to RWR7.
Once glued together place back onto the spaces on Sheet A for easy identification.

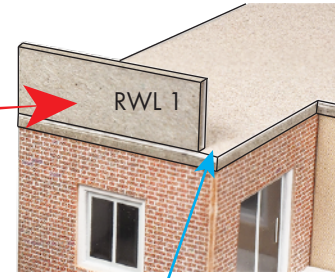
Paint the edges of the outer sections as you extract them.



This is a plan of how the components fit together.
Refer to this to see how the parts overlap.
(Not to scale)

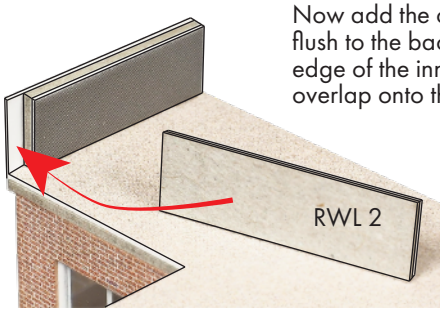
Start at the back left corner of the roof. First glue into place the Inner RWL 1, this fits flush to the edge of the roof, and level to the rear edge, printed side facing in.



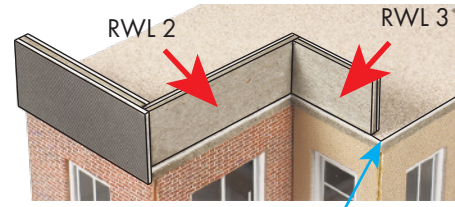


Now add the outer RWL 1, fit flush to the back and top edge of the inner wall, it will overlap onto the wall below.

This gap is for RWL 2 inner wall to fit to.



Next, fit RWL 2, flush to the roof edge and tight to the inside of outer RWL 1 wall.



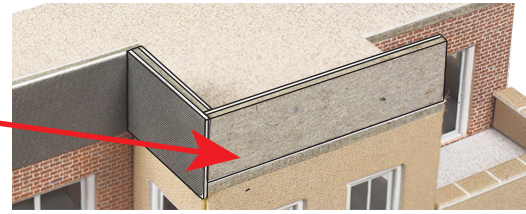
Before fitting the RWL 2 outer wall fit the next inner wall - RWL 3, again flush to the roof edge and tight against RWL 2.

This gap is for RWC 4 inner wall to fit to.

Fit outer RWL 3 before RWL 2.

First add the outer RWL 3, then the outer RWL 2. Keep edges flush to the top of the wall. The RWL 3 comes flush to the front edge of the roof, where the central section will fit into.

Now for the central inner wall RWC 4. Again glue flush to the edge and flush to outer RWL 3 wall.

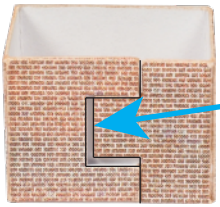


Then the outer RWC 4 wall.

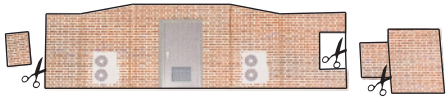
Continue working your way around the roof with roof sections #5 to #7 fitting them the same way as the opposite walls.

Finally fitting the capping stones to complete the roof.

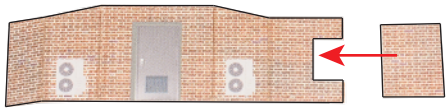
12 ROOFTOP ACCESS HUT



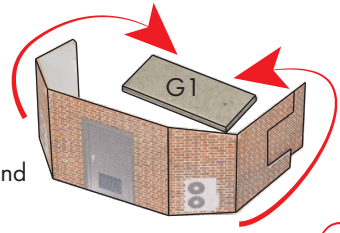
Unfortunately there's a slight error on the die cutting form for the rear of the hut, to fix this you can either paint the card behind the join or....



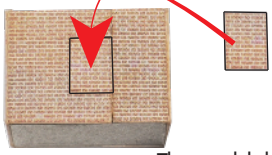
Remove both tabs carefully with your knife.



Use the large brick square as a brace behind the walls to affix both together. Be sure to centre the brace so it doesn't come into contact with the edge of the base.

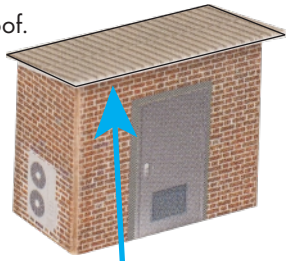


Wrap the walls around the base (G1) fixing together at the rear.



Use the larger tab to fill the gap on the rear wall.

Then add the roof.



Paint the underside of the roof that overhangs the walls.

Remember to add a sign!