

PN187 N Scale Old Factory

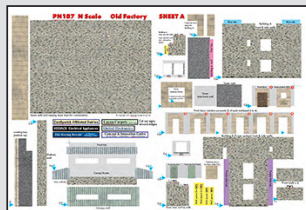
PLEASE

Read through the instructions and familiarise yourself with the kit components before you start any building.

CHECKLIST.

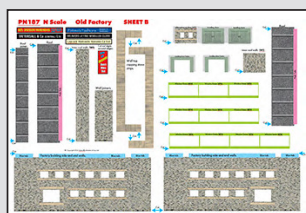
- 1 x SHEET A Printed components.
- 1 x SHEET B Printed components.
- 1 x SHEET C Grey plain card components.
- 1 x GLAZING SHEET.
- 1 x INSTRUCTION BOOKLET (this one).

Kit components at a glance.



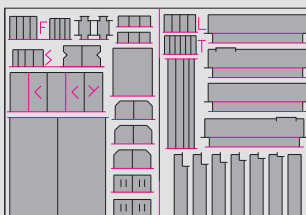
SHEET A.

Printed components, Main parts for buildings A & B, plus loading bay canopy and platform.



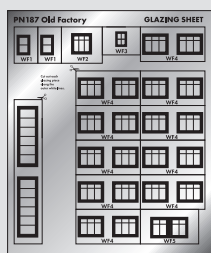
SHEET B.

Printed components to make the main factory buildings



GREY SHEET C.

Thick plain card pieces to fit inside the buildings.



GLAZING SHEET.

Clear plastic glazing to fit behind the window frame openings.

INSTRUCTION BOOKLET (this one).

1 Tools to build this kit.

To build this kit you will need a few basic tools:

1. A modellers knife.
2. A cutting surface - A cutting mat or thick card will do.
3. A sharp pair of scissors
4. A steel ruler.
5. Fine point tweezers.
6. METCALFE Ultra Fine Tip Glue Bottles (see 3).
7. Watercolour paints with a fine brush to paint corners and edges (see 5).

All tools & Glues available at: www.metcalfe-models.com

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INSTRUCTIONS

2 Glue.

We recommend using a combination of glue:

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



Also UHU All Purpose solvent free.

This is the best glue for fixing the plastic glazing to the window frames.



3 Ultra Fine Tip Glue Applicators.

An absolute 'must' when building this kit. When used with **Speed Bond** or **UHU** perfect amounts of glue can be applied to very precise areas without any mess.

Speed Bond in an applicator was used to build most of this kit.
UHU for fixing the glazing.



A METCALFE product supplied in packs of 3
Product code MT907 Glue not included

4 Extracting components from base sheets.

To stop the components falling off the base sheets, they are held secure with score lines (marked with blue arrows) that cut 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. **WARNING**, Cut with care to reduce the risk of the blade running out of the score and cutting the component.



5 Painting Corners & Edges.

Before you start any building work, it is best to get this job out of the way. The white card that shows on the corners and edges doesn't have to be painted, but if you are a perfectionist it is easiest painted before you build.

All you need is a simple set of child's watercolour paints like these and a fine brush. Mix the colours in the lid.



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.

Fold the edges of the card back fully and gently run the end of your brush along the exposed corner.

Paint the inner edges of the window and door openings too.



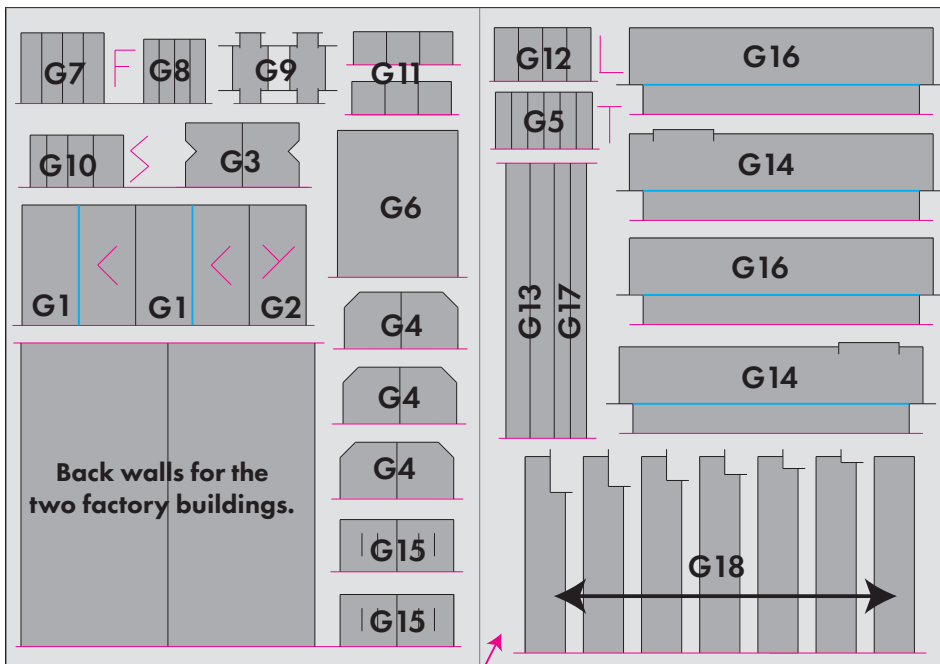
Wipe away any paint that has run onto the printed surface before it dries.

REMEMBER Use VERY much watered down paint.

DON'T paint a thick solid line of strong coloured paint down the edges, you will only make it look worse.

6 Plain Grey Sheet C.

There are a lot of tiny components on this sheet. Please take note of what they are and only extract from base sheet as instructed.



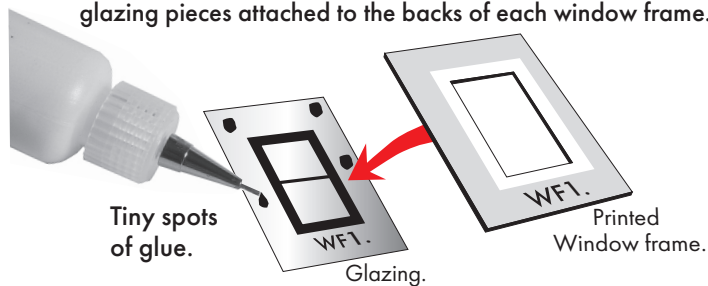
RED lines indicate score rules you need to cut to release components from base sheet.
BLUE lines are fold lines - Don't cut.

Key to components.

- G1. Building B Floor x 2.
- G2. Building B 1st. Floor x 1.
- G3. Building B 1st. Floor supports x 2.
- G4. Building B Roof supports x 2.
- G5. Side wall spacers for all buildings x 6.
- G6. Building B Back wall.
- G7. Tower base floor x 4.
- G8. Tower door side supports x 4.
- G9. Tower door steps x 2.
- G10. Front entrance steps x 4.
- G11. Wall inner spacers x 6.
- G12. Ground floor side supports x 4.
- G13. Ground floor front supports x 2.
- G14. Ground floor x 2.
- G15. 1st Floor side supports x 4.
- G16. 1st Floor x 2.
- G17. Front wall spacers x 2.
- G18. Platform base sections x 7.

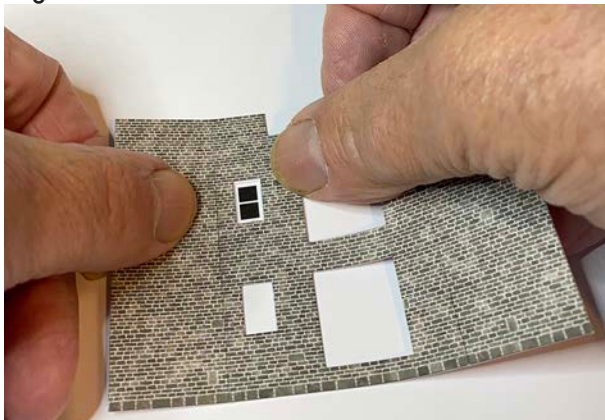
7 The Windows.

Each window opening has a corresponding window frame, so at each stage of the build it is best to get the glazing pieces attached to the backs of each window frame.



Using a fine tip applicator, place tiny spot of **UHU** glue on the edges of the glazing and then fix the window frame on top.

When fixing to the buildings simply lay the frame on a flat surface and lower the opening down keeping all edges centred.



LET'S START BUILDING

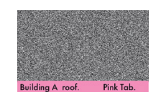
1 Entrance Building 'A'.

The main entrance to the factory is made up of two parts, buildings 'A' and 'B'. We will start with 'A'.

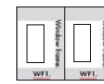
BUT FIRST Take sheet A and cut it in half.

Put the left hand section to one side, all the components for the entrance building are on the right hand side.

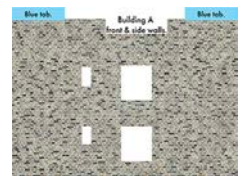
Now extract the following:



Building A roof.



WF1. Window frames x 2.



Building A walls.

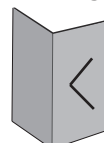


IW1. Inner wall and yellow spacer.

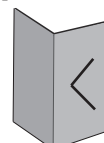


IW2. Inner side walls x 2.

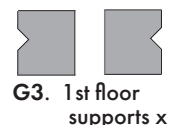
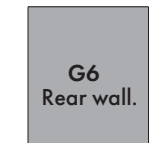
From grey sheet 'C' extract:



G1. Inner folding base cards x 2. Marked with a <



G2. Inner 1st floor. Marked with a >



G4. Upper roof supports x 2.



NOTE: There are six of these on grey sheet 'C', marked with a 'T' next to them, only extract two of them.

Fix the two **WF1.** windows to the back of the window openings.

Then fold over the two blue tabs and glue to back of walls.

Now fold each of the **G1.** base cards together and glue. Then fix them together to form a solid base (all edges flush).

Now fix into the building with the side walls folded around. Push tight up to front wall.

Fit the two 1st. floor supports **G3.** Sit down on the base and pushed tight up to the front wall.

Fit one either side.

Fit the inner 1st. floor sitting on top of the supports and again pushed tight up against the front wall.

NOTE: Keeping all inner floors etc. pushed up to the front wall leaves a small recess at the back for the rear wall to fit inside the building.

Fix the **G5.** side wall spacers directly on top of the two blue tabs.

Fold the Pink tab on the roof underneath and glue back.

Turn the building and the roof over and fit the roof on to the underside of the top wall spacers. Push tight to front wall.

Fit the two upper roof supports **G4.** pushed up tight against the roof.

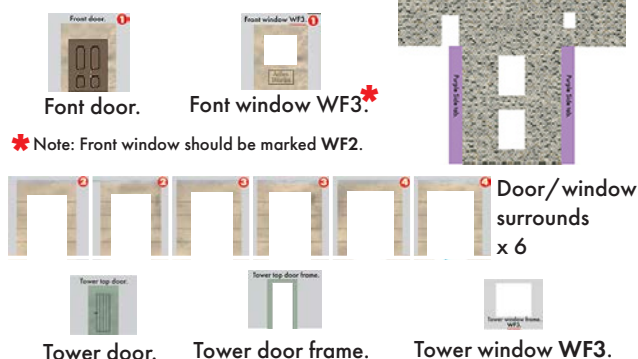
Fit the two **IW2.** side walls and then the tiny yellow spacer followed by the small **IW1.** wall.

Try to keep inner walls level with outer walls. If they stand taller, trim down a bit before fitting. This will allow the capping stones to sit flat later on.

Finally fit the back wall **G6.**

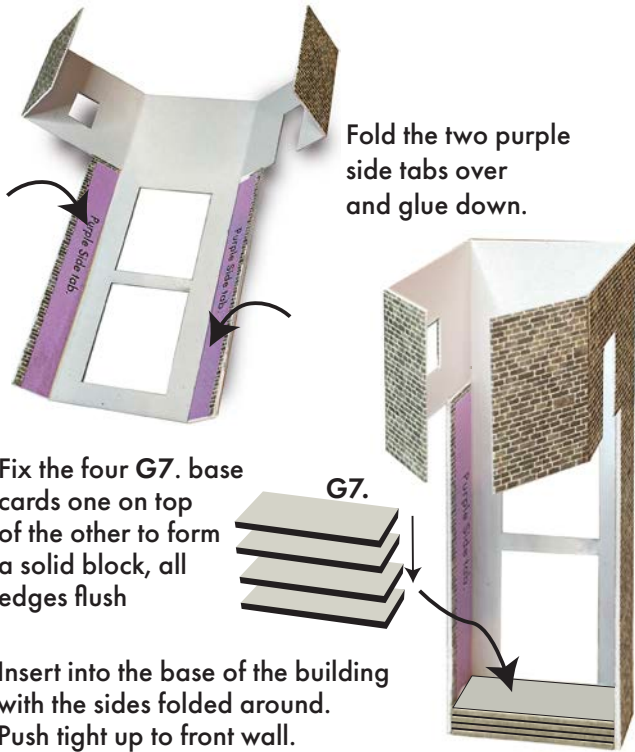
2 Entrance Building 'B'. (The Tower Section).

From sheet 'A' extract:

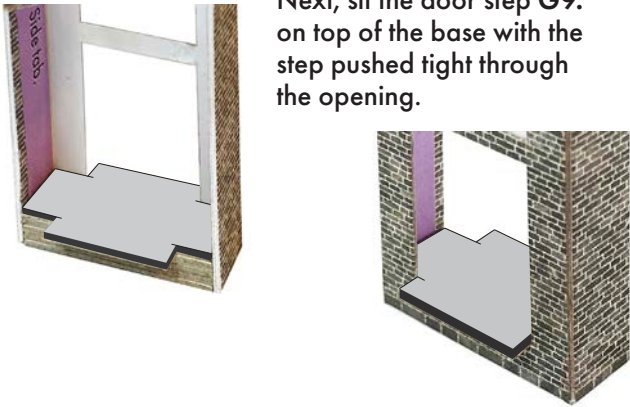


From grey sheet 'C' extract:

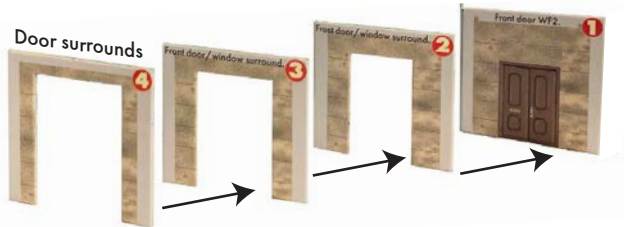
- G7. Tower base x 4. G8. Door side supports x 4. G9. Door steps x 4.



Next, sit the door step G9. on top of the base with the step pushed tight through the opening.



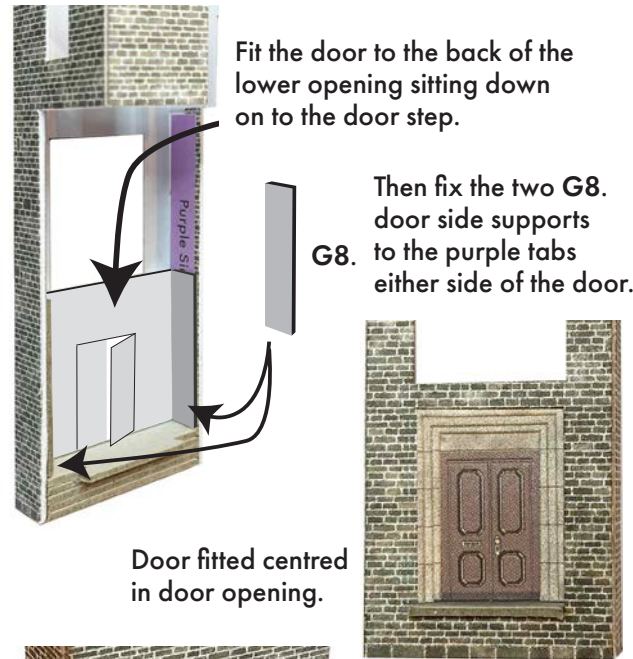
now for the door & Window WF3.
Which have tapered stone surrounds in front of them.



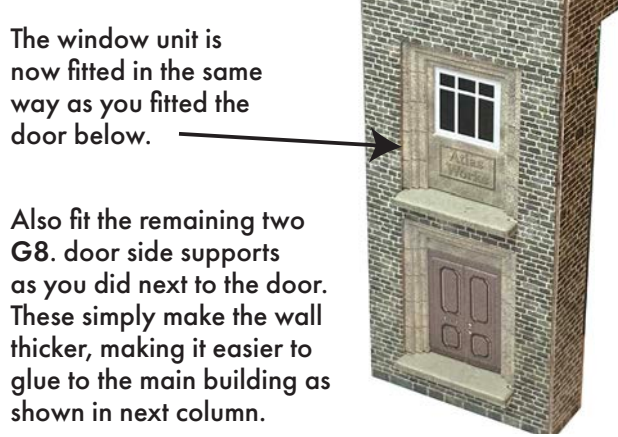
Fix surround 4 on top of 3 and then 2. Keep ALL outer edges flush then fit one set to the door and the other surround on to the window



You now have a neatly stepped stone facade.
Don't forget to fit glazing WF2. to back of the window.



Now fix the other G9. door step into the top opening sitting on top of the door and it's side supports.



The tower section now slots into the main building 'A' with the two G9. door step tabs sitting on top of the inner floors. Just glue the vertical walls and the door tabs.



Test a few times without glue first so you can see how it fits.

From sheet 'A' extract:

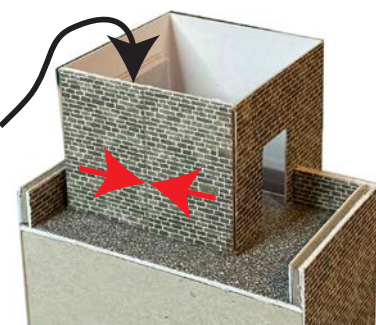


Tower inner back wall.

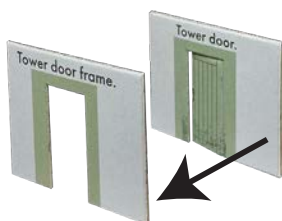


Tower roof.

Fix the tower back wall inside the building so the two halves of the outer wall are fixed to it butt ended together.



Fix tower door to the back of door frame.

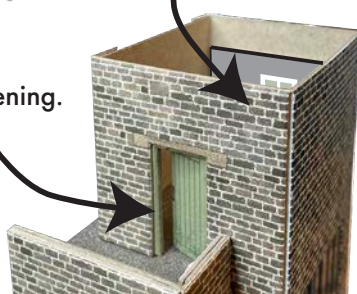


Fix to back of door opening.

Fit glazing to back of window WF3.



Then fit into building



Sit the tower roof down inside the building sitting on top of the window and door. NO NEED TO GLUE.

3 The Wall Tops.

From sheet 'A' extract:

Wall spacer for IW3.

Wall spacer for IW3.



Yellow wall spacers for IW3. & IW4. two of each.

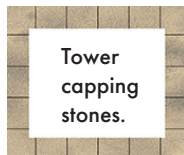
Wall spacer IW4.

Wall spacer IW4.



Inner side walls IW3. long x 2.

Inner side walls IW4. short x 2.

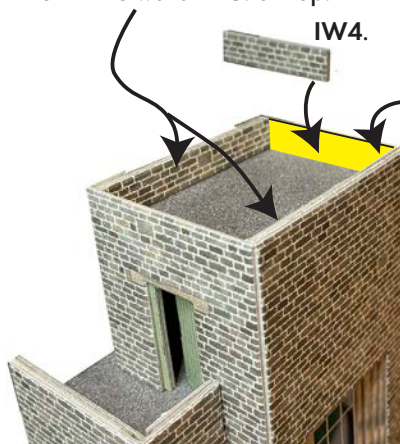


Tower capping stones.



Building A capping stones

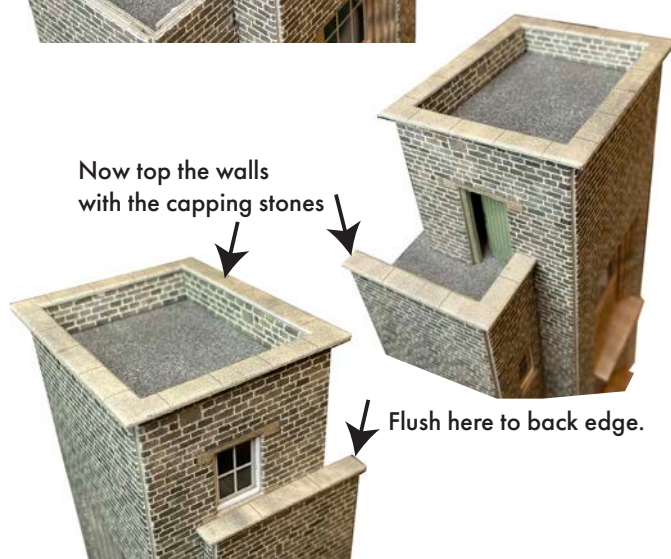
Fit the two yellow long wall spacers into the tower top FIRST to inner of front and rear walls. Then fit the walls IW3. on top.



Then fit the two short yellow spacers here and on opposite wall.

Followed by the short IW4. walls.

Make sure all walls are flush to the tops of the outer walls.



4 The Front Steps.

From sheet 'A' extract:

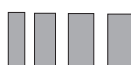


Front walls x 2. FW1.



Front wall capping.

From grey sheet 'C' extract:

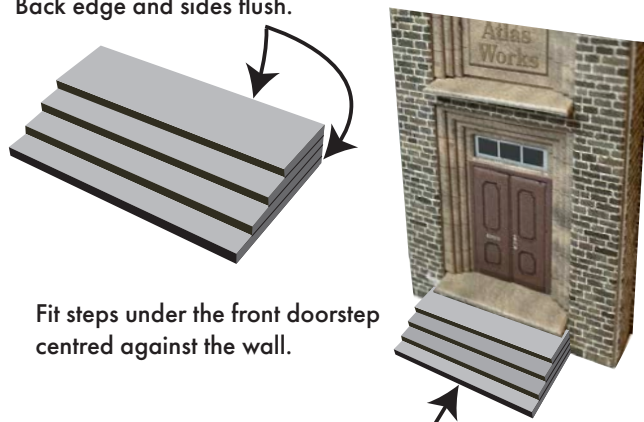


G10. Front steps x 4.



G11. Inner wall spacers x 6.

Fix the four G10. steps one on top of the other.
Largest step at the bottom and so on.
Back edge and sides flush.

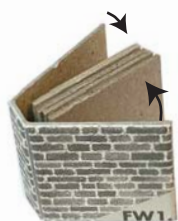
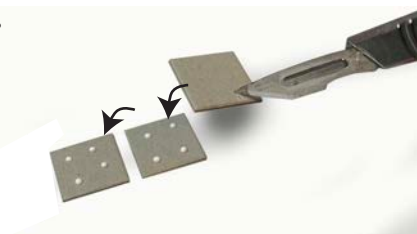


Fit steps under the front doorstep
centred against the wall.

Front Walls FW1.

Each wall makes up
in the same way.

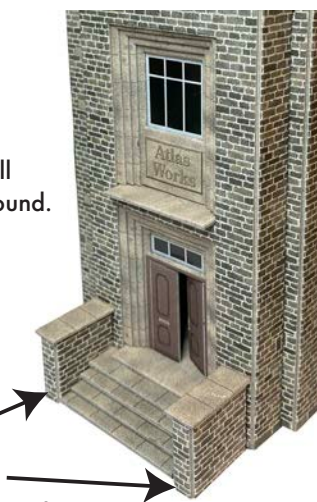
Glue three G11.
spacers together to
form a solid block.



Wrap wall
FW1. around.

Then fix walls to
either side of the steps.

Top off with the small capping stones.



5 The Main Factory Buildings.

The main building is made up of two halves that can
either be placed back to back to form a stand alone
building, or can be used as two half relief buildings.
Each building makes up in exactly the same way.

Extract ALL the components from sheet 'A'.

From grey sheet 'C' extract:



G14

x 2.



G4. Roof supports x 4.



G16

x 2.



G15. 1st. Floor
side supports x 4.



G13. Ground floor
front supports x 2.

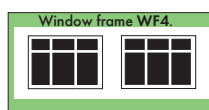


G12. Lower side floor
supports x 4.

G17. Top front wall spacers x 2.



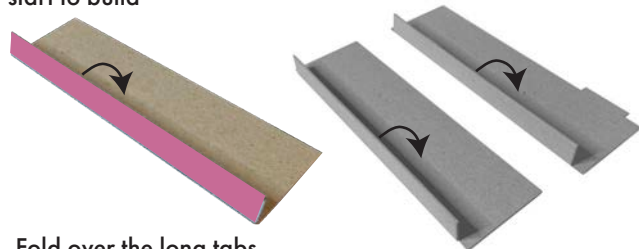
G5. Top side wall spacers
x 4.



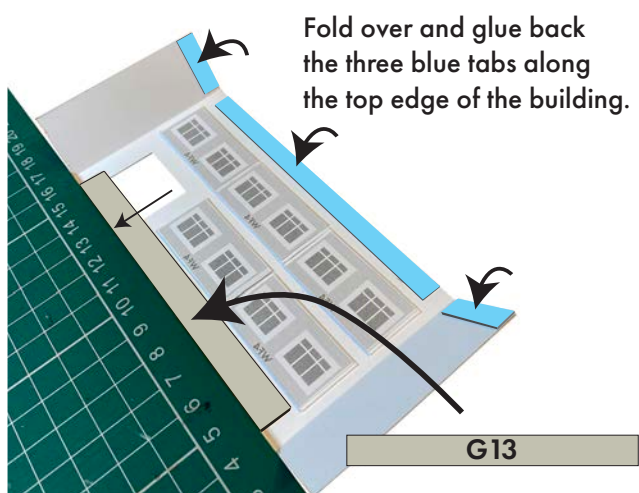
Fix the WF4. Glazings to the backs of
the ten WF4. Window frames.
Also the WF5. Glazing to WF5. Frame.

Then fix all WF4. windows to the openings in both buildings.

A few other little glue jobs to get out of the way before you
start to build



Fold over the long tabs
on the two roofs and the grey inner floors G14. & G16.
and glue down. This makes them a little more rigid.



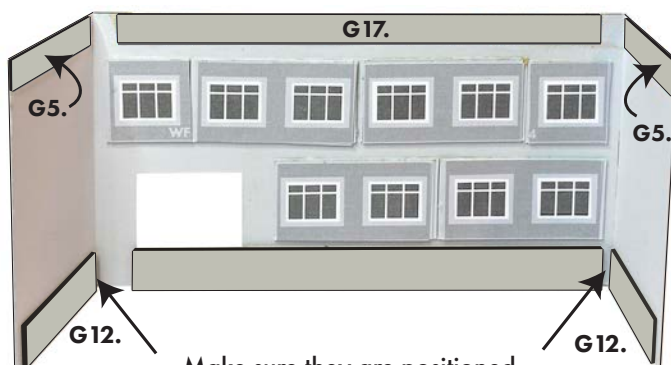
Fold over and glue back
the three blue tabs along
the top edge of the building.

Fix the long G13. Ground floor front support to the
base of the front wall, bottom edges flush.

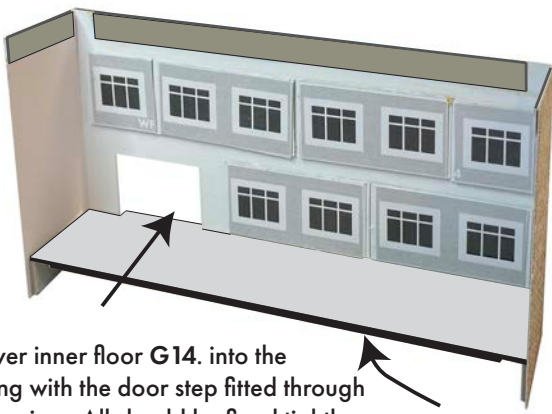
NOTE: Place bottom edges against a straight edge,
such as the side of your cutting mat to ensure they are flush.
Same with the sides and tops as shown here below.

Fit the two shorter base supports G12.

Now fit the top front wall spacer G17. on top of the
blue tab. Then fit the two shorter G5. spacer to the
blue tabs on the side walls keeping all top edges flush.



Make sure they are positioned
near the corners leaving a recess
on the back edge for the rear wall to fit in.



Fit lower inner floor **G14**. into the building with the door step fitted through the opening. All should be fixed tightly down on to the grey tabs underneath. Tab on floor to back edge.

Door or Window?

Each building has a doorway. If you don't want to use both, you can use the alternative window **FW5**. to fill in one of them.

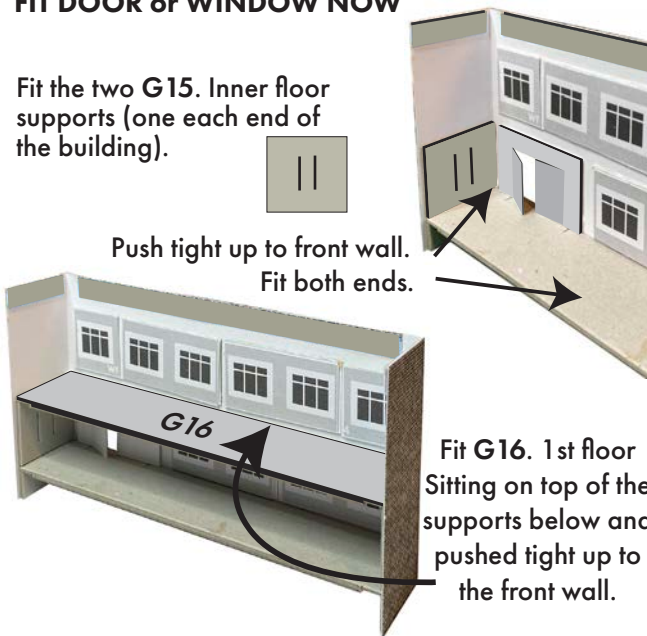


FIT DOOR or WINDOW NOW

Fit the two **G15**. Inner floor supports (one each end of the building).



Push tight up to front wall. Fit both ends.



Fit **G16**. 1st floor Sitting on top of the supports below and pushed tight up to the front wall.

Fit the roof.

This fits up against the bottom edges of the top walls.

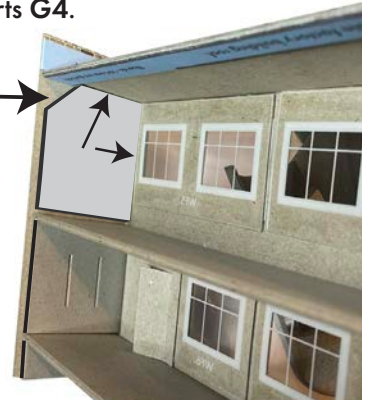


Next fit the roof supports **G4**.

Cut away corner to this edge.

Fit up against the underside of the roof and pushed forwards against the front wall.

Fit both ends.



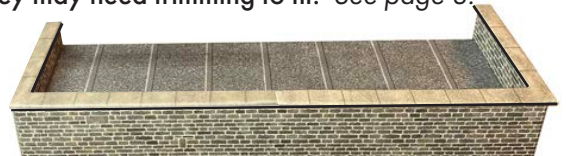
IW5.

Fit inner walls. Fit **IW6**. long wall first.



Back wall slots nicely into the back of the building.

Fit the capping stones, but not until you have decided how you are joining buildings together. They may need trimming to fit. See page 8.

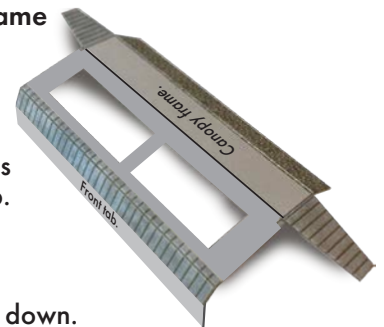


Make up the other factory building in just the same way.

6 The Canopy.

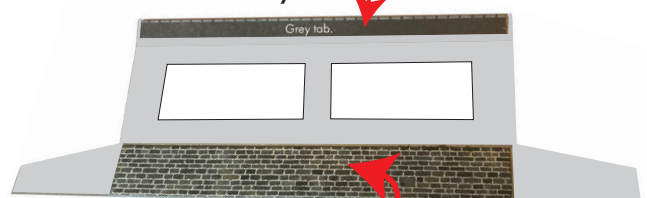
Extract the Canopy frame from sheet 'A'.

Fold all score lines to loosen them up.

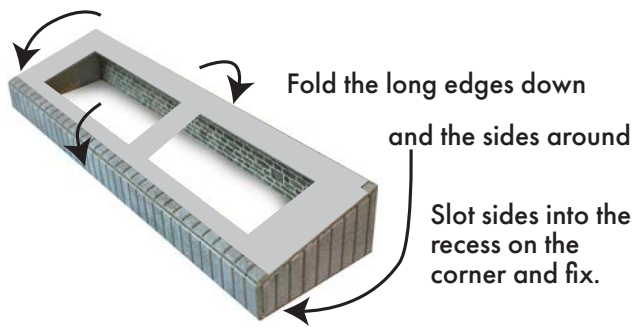


Then fold over the two long end tabs and glue down.

Grey tab.



Stone tab.



Fix back edge of canopy to the front wall using the upper window sills as a guide to keep level



Fix the glazing to the back of the roof and then fit to the top of the canopy

7 The platform.

From sheet 'A' extract:



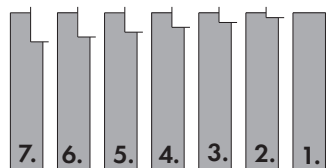
Platform wall.



Platform top.

From grey sheet 'C' extract:

The seven grey platform inners.

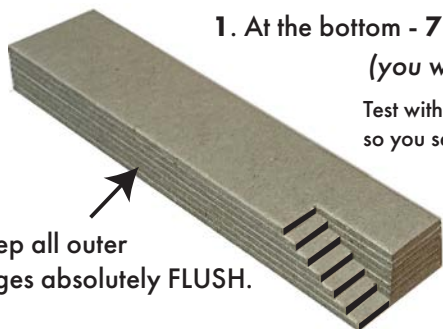


Glue the seven inners one on top of the other.

1. At the bottom - 7. at the top
(you work it out!)

Test without glue first so you see how they go.

Keep all outer edges absolutely FLUSH.

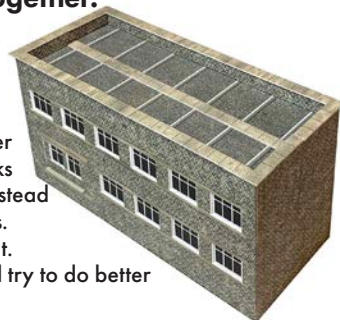


Wrap the walls around the base.

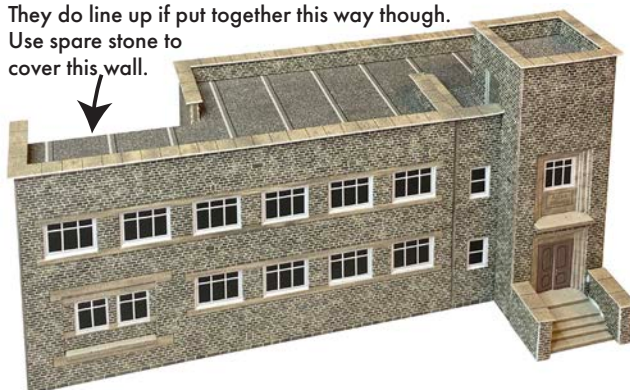
Fix to your building before fitting the top.

Joining the buildings together.

Sadly, you will notice that when you put the main factory buildings back to back, that the roof ridges don't quite line up. If you use the roof joiner to cover the gap down the middle, it looks worse. So throw it away and instead use a strip of the capping stones. Not perfect, but an improvement. we are sorry about that and will try to do better on the next reprint!



They do line up if put together this way though. Use spare stone to cover this wall.



Look at the ways you can fit the buildings together.



Use with our other matching industrial kits.

PN991
Chimney
stack.



PN188
Brewery
building.