

PN188 N Scale Brewery

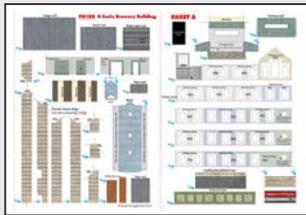
PLEASE

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

CHECKLIST.

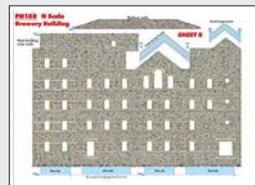
- 1 x SHEET A Printed components
- 1 x SHEET B Printed components.
- 1 x SHEET C Grey plain card components.
- 1 x SHEET D Grey plain Laser cut components
- 1 x GLAZING SHEET.
- 1 x INSTRUCTION BOOKLET (this one).

Kit components at a glance.



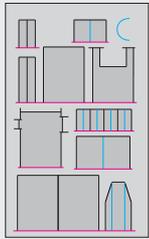
SHEET A.

Printed components, Window Frames, Roofs and Corner Stones etc.



SHEET B.

Printed components to make the main Brewery

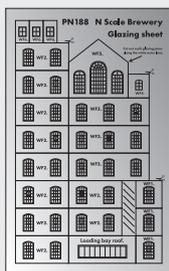
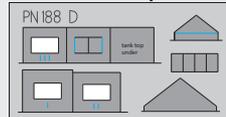


GREY SHEET C.

Thick plain card pieces to fit inside the buildings.

GREY SHEET D.

Thick plain card with laser cut components.



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.

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

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

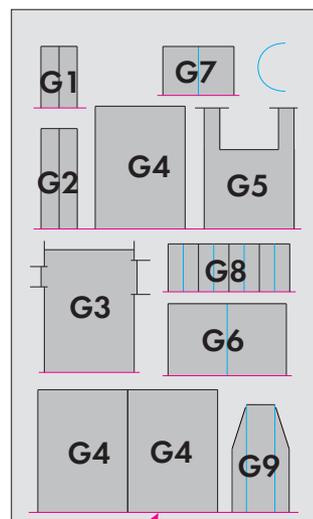
4 Extracting components from base sheets.

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 Plain Grey Sheet C.



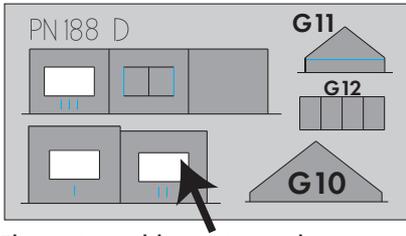
Key to components.

- G1. Small floor supports x 2.
- G2. Large floor supports x 2.
- G3. Bottom floor.
- G4. Mid floors x 3.
- G5. Top floor.
- G6. Large inner roof.
- G7. Small inner roof.
- G8. Roof vent spacers x 4.
- G9. Platform inner frame.

RED lines indicate score rules you need to cut to release components from base sheet.

BLUE lines are fold lines - Don't cut.

6 Plain Grey Sheet D.



Key.
 G10. Large roof support.
 G11. Small roof support.
 G12. Hoist inner brace x 4.

The various oblong pieces above are all base plinths for use on the water tower see 5.

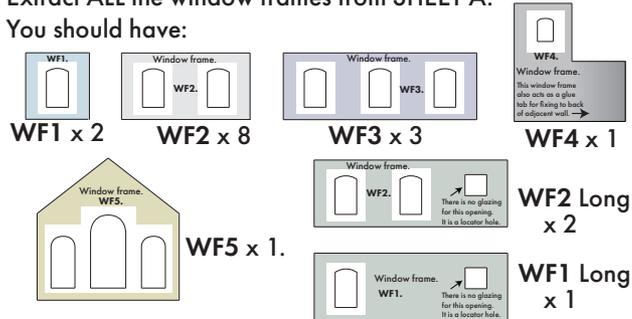
START BUILDING

1 The Windows.

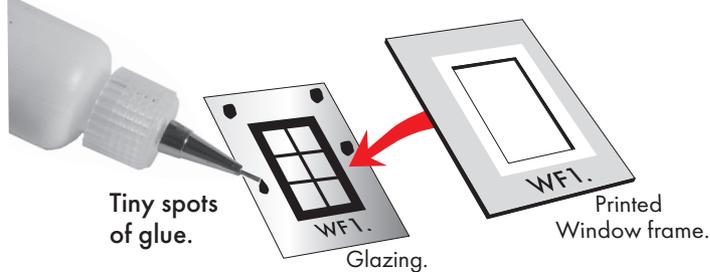
OK, Now for the fiddly bits (actually the whole kit is fiddly).

Extract ALL the window frames from SHEET A.

You should have:



Each window frame has a corresponding glazing. Cut out all the plastic glazings and attach them to the backs of all the window frames as shown here.

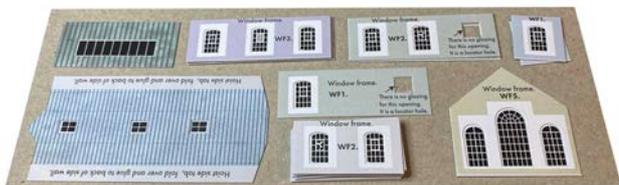


Using a fine tip applicator, place tiny spot of **UHU** glue on the edges of the glazing and then fix the window frame on top.

While you are at it, extract the hoist from SHEET A The three little WF6. Glazings fit directly behind the three openings in the hoist. There are no window frames.

Also extract the canopy roof and fit its' glazing (marked 'Loading bay roof')

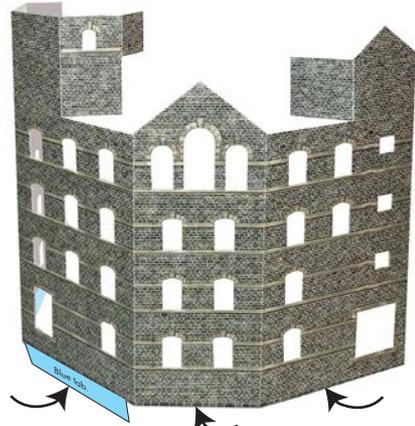
Now place all the windows in a safe area where they won't get lost.



2 The Main Building.

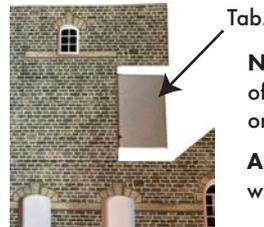
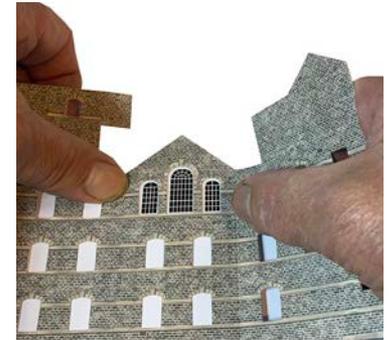
Extract the building from SHEET B. Be careful it comes out all in one piece.

Push out all the window openings. Push them from the back and pull them out from the front to avoid any ripping. Clean up any burred edges.



Fold back the blue tabs and glue them to the back of the walls.

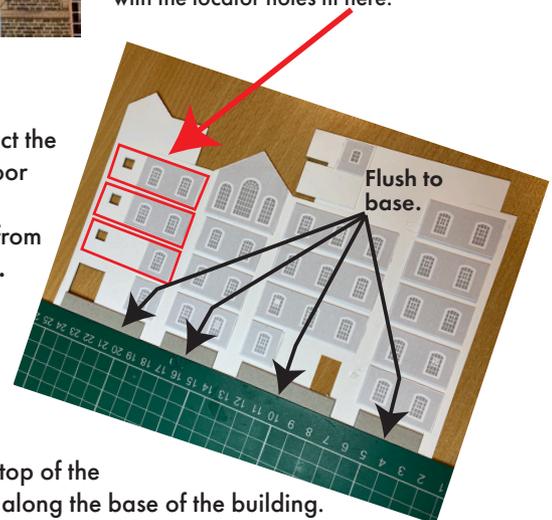
Now attach all the windows to the relevant openings in the main building. Simply lay each window on your work surface and place tiny spots of glue on the coloured areas away from the openings then lower the building down and position windows frames centrally in each opening.



Note: WF4. The tiny window at the top of the building which also has a grey tab on it to fix to the adjacent wall later.

Also note: The three longer windows with the locator holes fit here.

Next: Extract the four grey floor supports G1. & G2. from grey card C.



Fit them on top of the BLUE TABS along the base of the building.

Use your cutting mat if you have one as a guide to make sure that each one is absolutely flush along the base. This is important, your building won't stand straight if any of them protrude below the base.

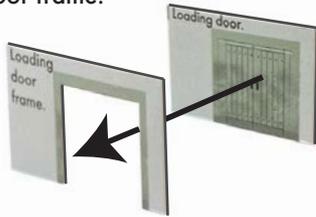
3 The Inner Floors & Doors.

Extract the two doors and their frames from sheet A.

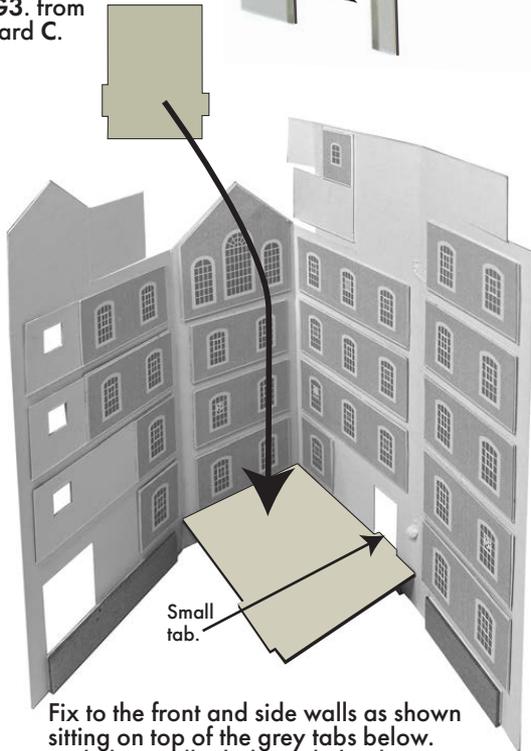


Each door has a matching door frame.

Fit the doors to the back of their frames.

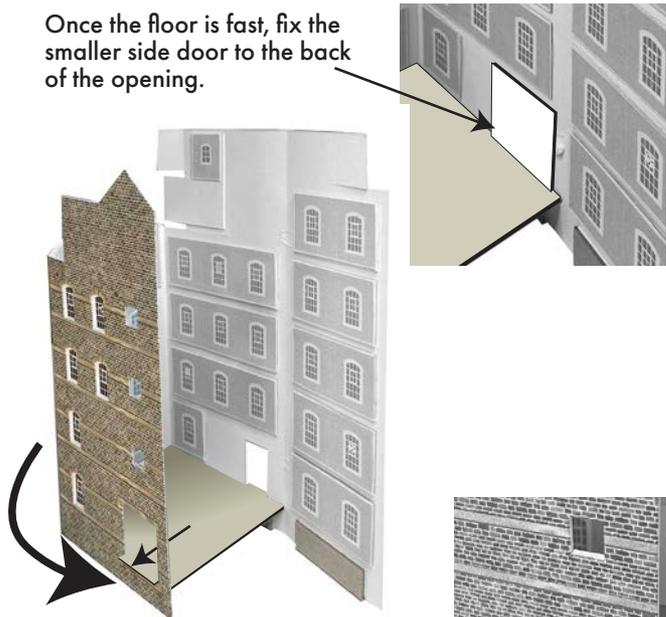


Now extract the bottom floor G3. from grey card C.



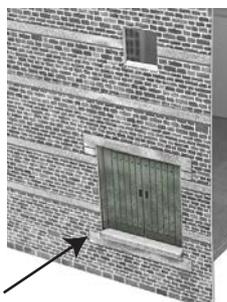
Fix to the front and side walls as shown sitting on top of the grey tabs below. Push the small tab through the doorway.

Once the floor is fast, fix the smaller side door to the back of the opening.

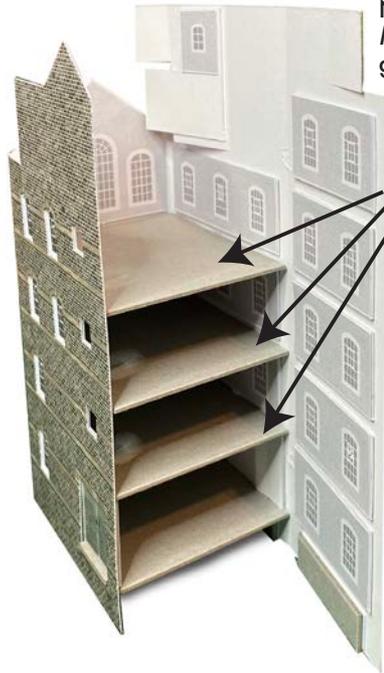


Now fold the other side wall around and fit sitting on the base tab with the larger door tab protruding through the opening.

Then fit the larger door.



Now extract the three Mid floors G4. from grey card C.



Fix each floor inside the building sitting on top of the window frames and pushed tight up to the front wall.

Use just a few spots of glue placed where you can reach on the window tops.

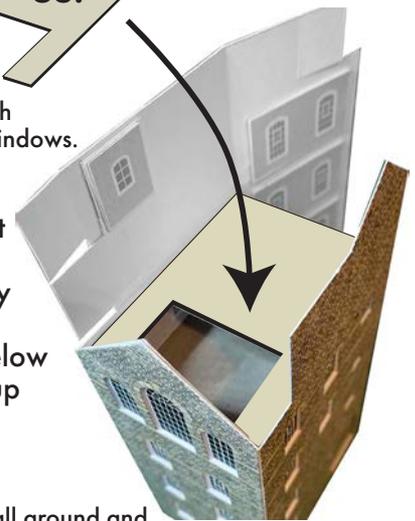
You don't need much glue, just enough to hold them in place until the back wall is folded around.



The top floor has a cut away section which fit towards the front windows.

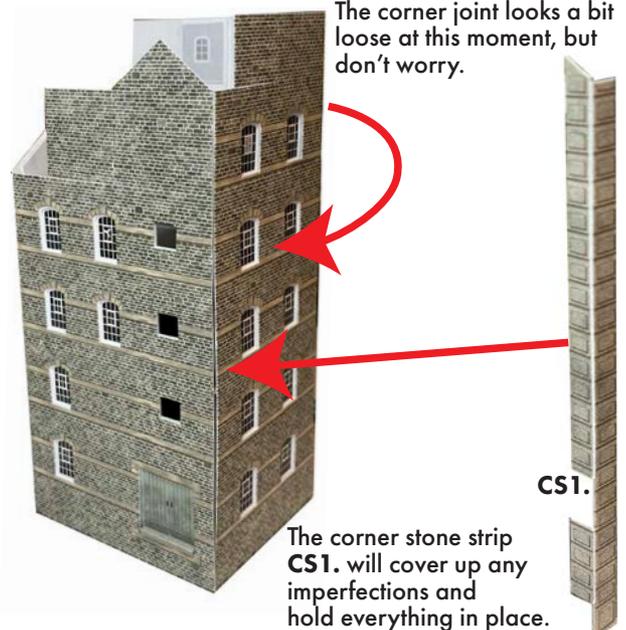
NOTE:

It is very important that you get this floor sitting directly on top of the window frames below and pushed tight up to front wall.



Now fold the back wall around and fix to the edges of the inner floors.

The corner joint looks a bit loose at this moment, but don't worry.

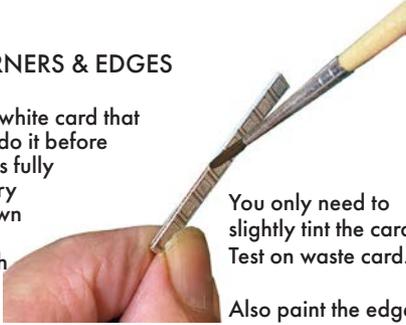


CS1.

The corner stone strip CS1. will cover up any imperfections and hold everything in place.

PAINTING THE CORNERS & EDGES

If you want to hide the white card that shows along the folds, do it before you fit. Fold the corners fully back and paint with very very much watered down water colour paints. A little brown paint with lots and lots of water will do.



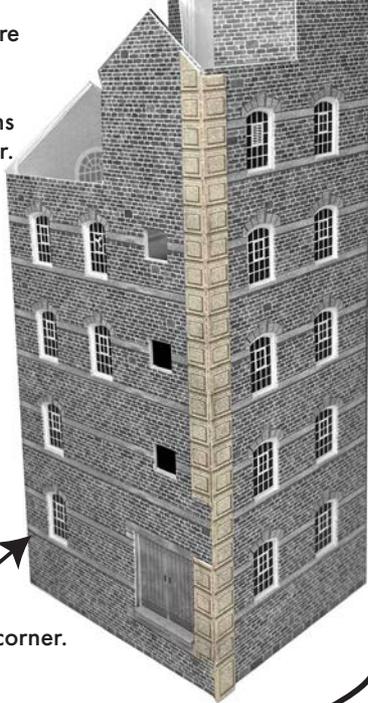
You only need to slightly tint the card. Test on waste card.

Also paint the edges.

Now as you can see here highlighted in colour. The cornerstone strip covers any imperfections in the joint on the corner.

The cut away sections near the bottom are to allow the platform and the overhead canopy to be fitted flush to the corner

Fit the other three long cornerstone strips.



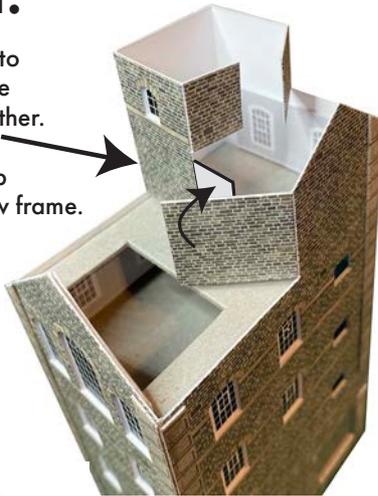
CS4. this corner
CS3. opposite front corner.

CS2. this corner.

4 The Roof.

To start with you need to fix the two halves of the small upper walls together.

Fix by means of the tab attached to the window frame.

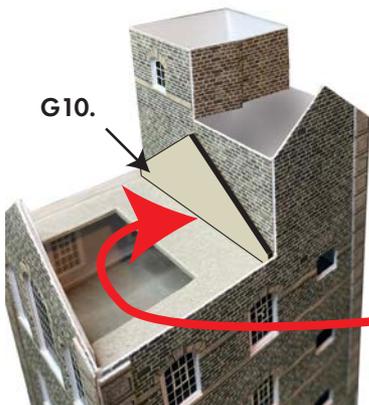


G10.

Fit the laser cut roof support G10. on the grey sheet D.

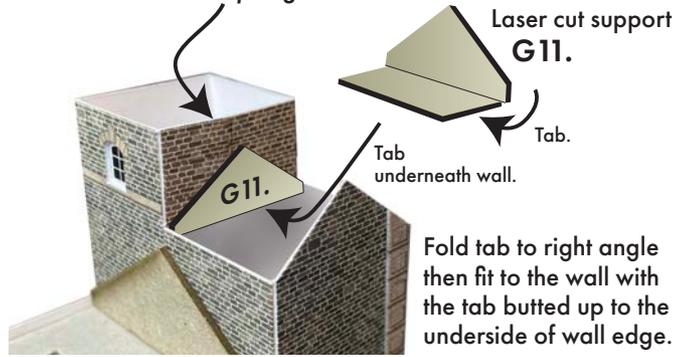
Stood on the upper floor.

Fixed to the wall.



Join wall together butt ended and fixed from behind using a small piece of waste card.

Make sure waste card is fitted 2mm. down from top edge of wall

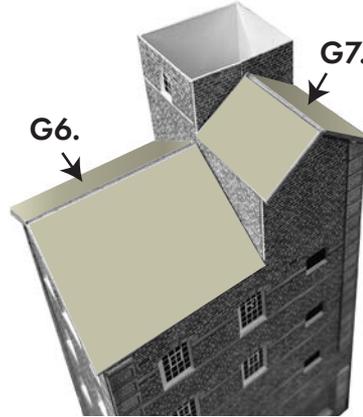


Laser cut support G11.

Tab.

Tab underneath wall.

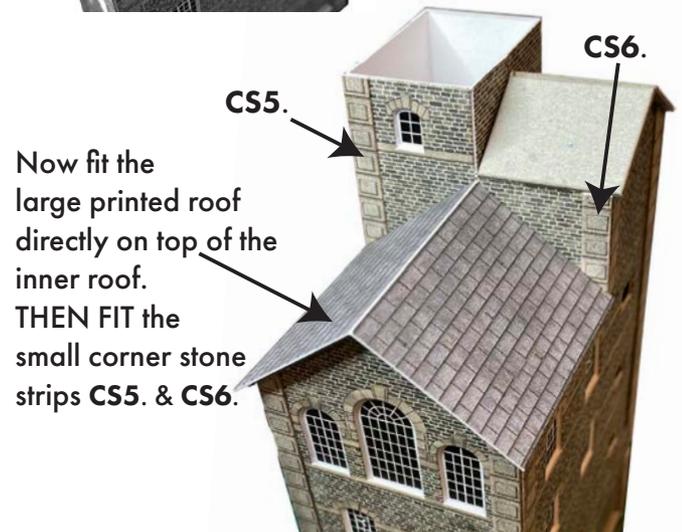
Fold tab to right angle then fit to the wall with the tab butted up to the underside of wall edge.



G6.

G7.

Fit the inner roofs G6. & G7.

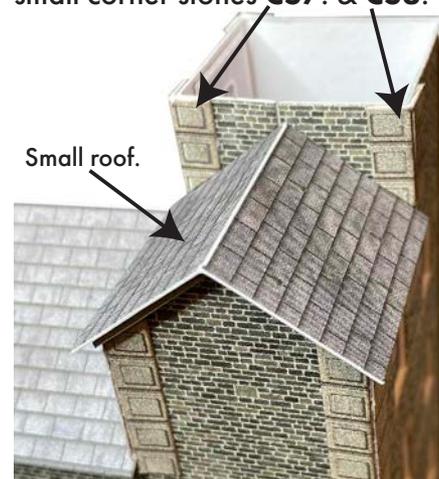


CS5.

CS6.

Now fit the large printed roof directly on top of the inner roof. THEN FIT the small corner stone strips CS5. & CS6.

Then fit the small printed roof followed by the small corner stones CS7. & CS8.



Small roof.

Note:

If any of the corner stone strips stick up past the wall tops, trim them level.

The water tank sits on here and it needs to be level.

5 The Water Tank.

From sheet 'A' extract:



Water tank sides.



Water tank roof.

From grey sheet 'D' extract:



Plinth base.

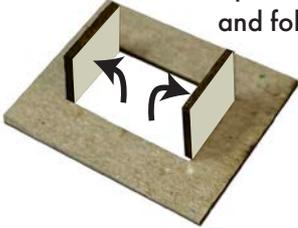
Large plinth marked I.

Medium plinth marked II.

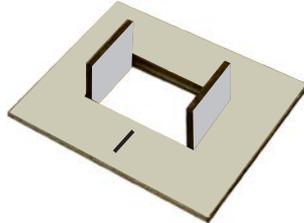
Small plinth marked III.

Tank top inner card.

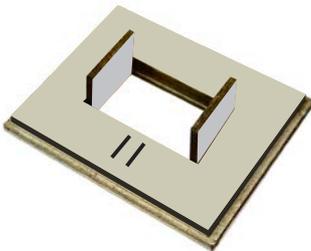
Turn the plinth base over and fold up the two tabs.



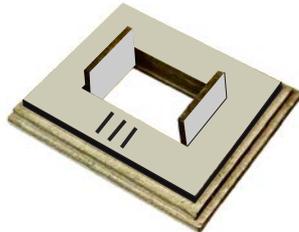
Now slot the large plinth marked 'I' over the tabs and glue down to base.



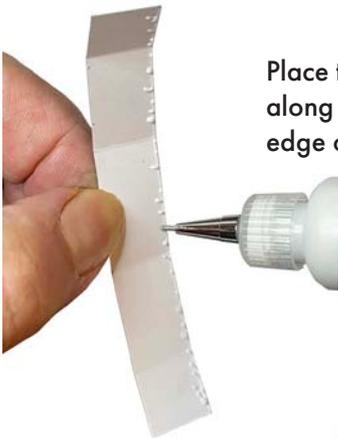
Hold the tabs vertical at each stage as the glue sets to keep each layer centred.



Next slot the medium plinth marked 'II' over the tabs and glue down..



Finally slot the small plinth marked 'III' over the tabs and glue down..



Place tiny spots of glue along the inside bottom edge of the tank.

Then fold the tank around the top step of your plinth



Test without glue first so you see just how it fits.



Fix tank top inner card to the underside of the tank roof. Make sure it is centred on all edges.

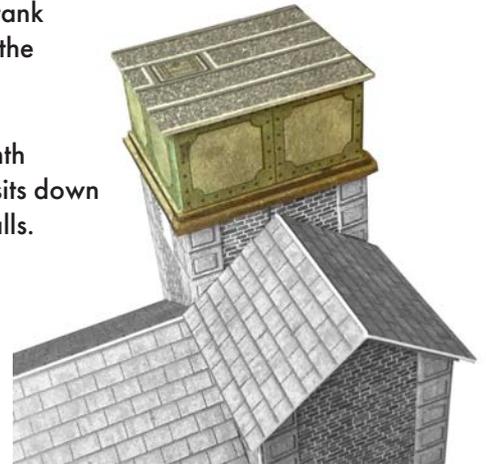
Turn over and fit down on to the tank.

The inner card sits inside the tank walls.



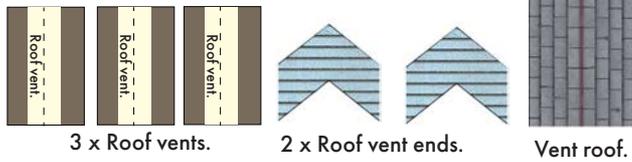
Now fix the tank to the top of the building.

The base plinth underneath sits down inside the walls.

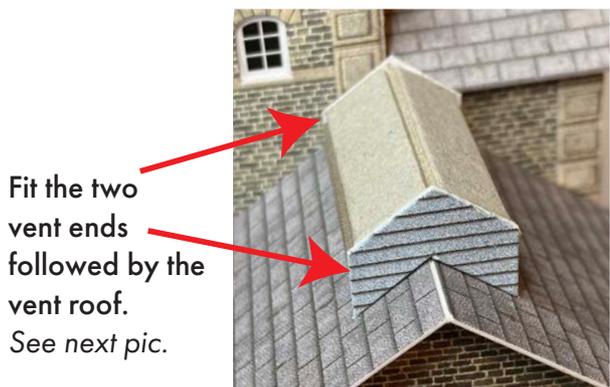
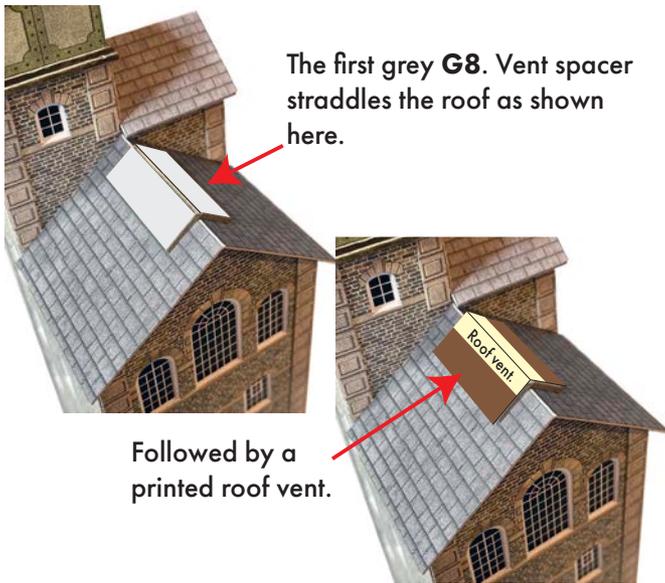
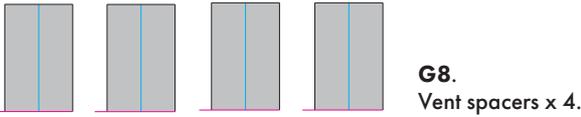


6 The Roof Vents.

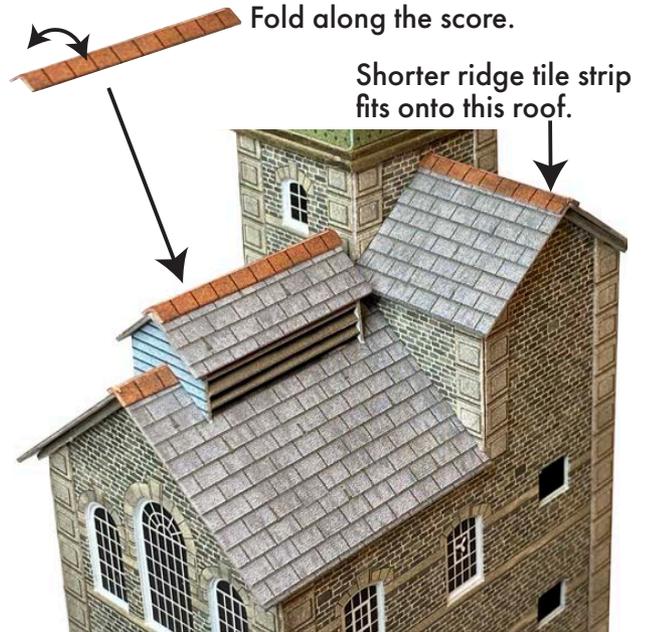
From sheet 'A' extract:



From grey sheet 'C' extract:



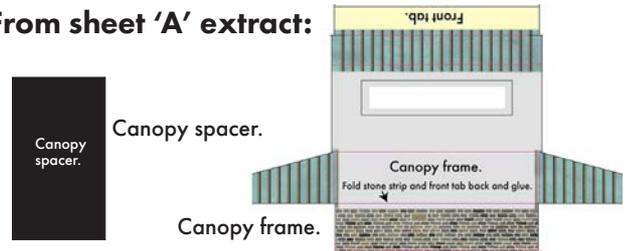
Fit the longest ridge tile strip to the vent roof.



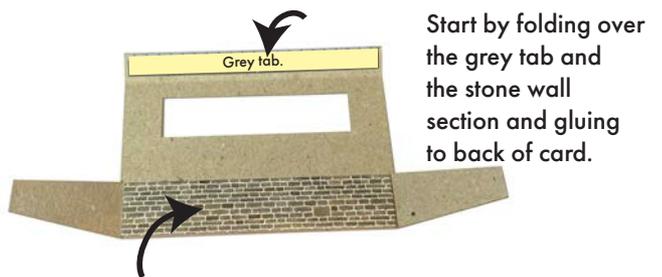
Cut the remaining ridge tile strip down to fit on the roof next to the vent. Keep the rest to use on the roof over the hoist.

7 The Canopy.

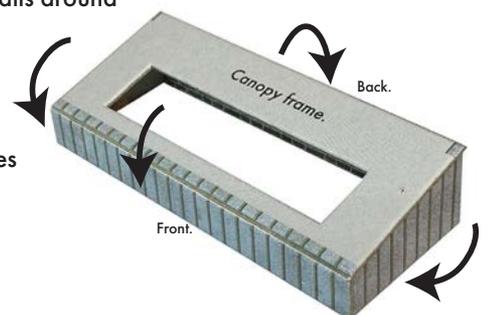
From sheet 'A' extract:

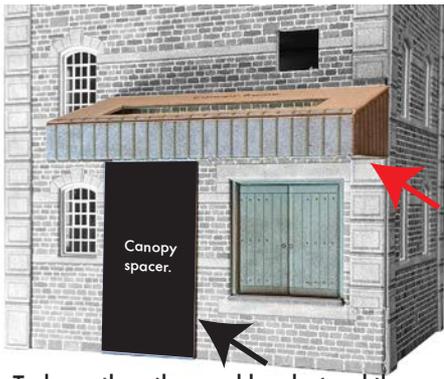


From your window store:



Fold the front and back sections down. Bring the side walls around and fix to the underside of the top and into the small recesses in the front wall.

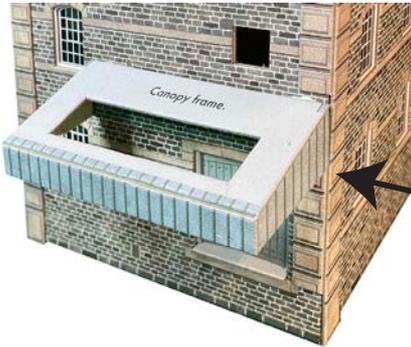




Once fast, fix the canopy frame to the wall above the large doors.

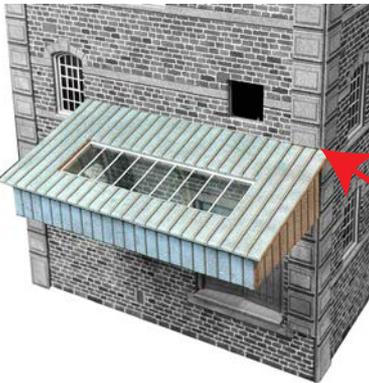
Fit flush to the wall end and sitting on top of the corner stone in the recess.

To keep the other end level, stand the canopy spacer against the wall with canopy sitting on top.



You may find this job easier if you lay the building on its back.

End result should look like this.



Wait until the canopy is completely fast before fitting the roof.

Overhanging equally at each end and pushed up under the corner stone where there should be a small recess.

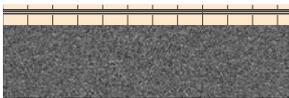
8 The Platform.

From sheet 'B' extract:



Platform walls..

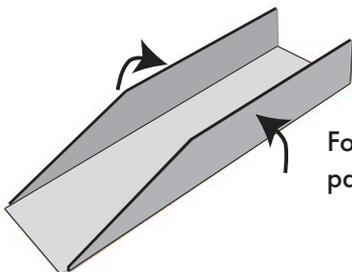
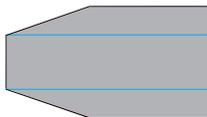
From sheet 'A' extract:



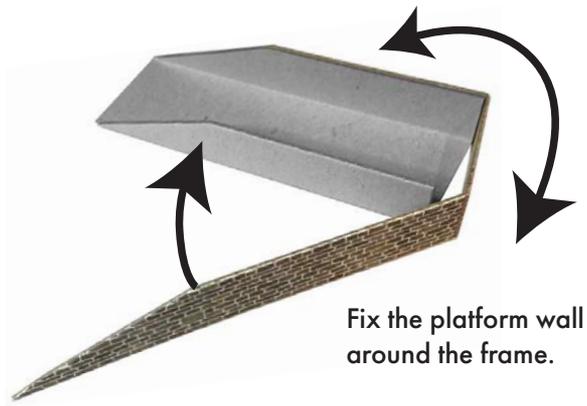
Loading bay platform top.

From grey sheet 'C' extract:

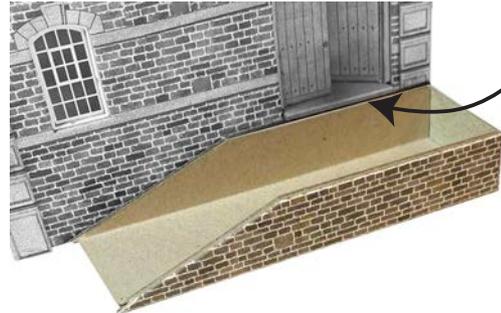
Platform inner frame G9.



Fold up the two side panels of the inner frame.

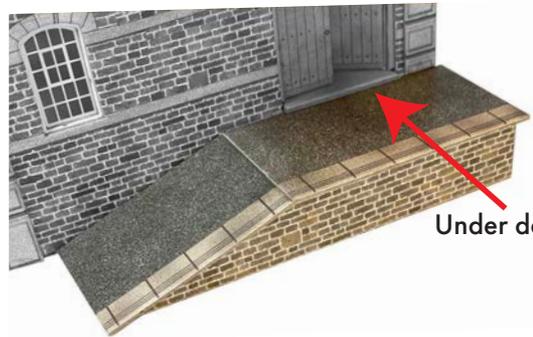


Fix the platform wall around the frame.



Gap for platform top.

Fix the platform walls to the building as shown. Fix while stood on a flat surface, there needs to be a small gap under the door step to leave room for the platform top.

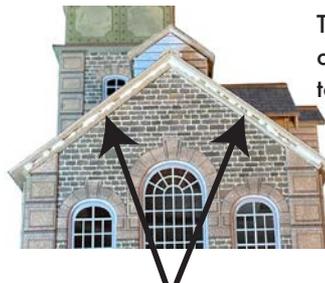


Under door step.

Fix the platform top on to the walls and pushed tight up to the building so that it sits just under the door step.

9 The Barge boards.

Located on sheet 'B'.

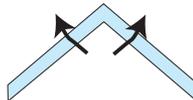


The barge boards fit under the overhang of the roof glued on to the ends of the inner roofs.

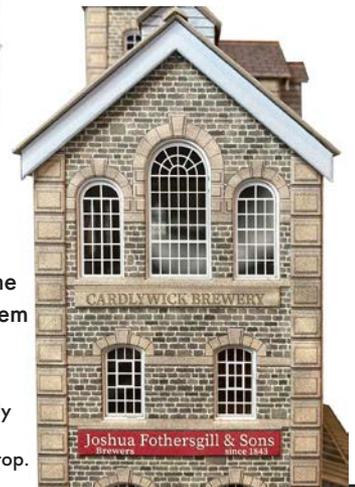
Spots of glue onto the end of the inner roof.

Test without glue first.

You may need to widen out the barge boards a little to get them to fit up to the roof



Bend carefully so you don't break at the top.



10 The Hoist Shaft.

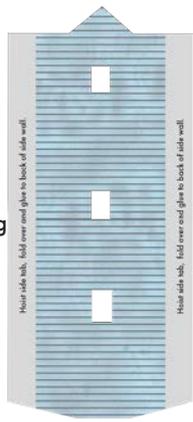
From sheet 'A' extract:



From Grey sheet 'D' extract:



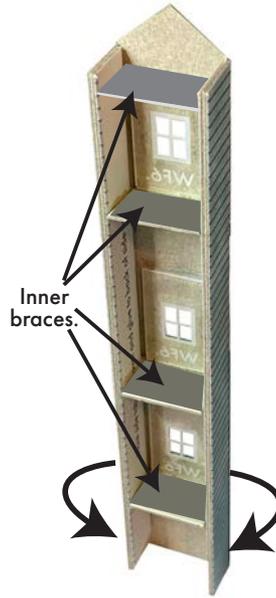
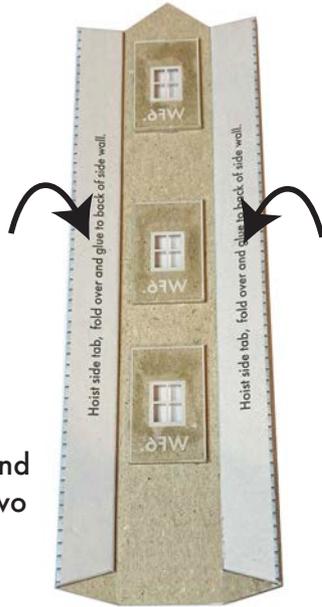
The Hoist with glazing attached..



Fit the three windows if not already fitted.



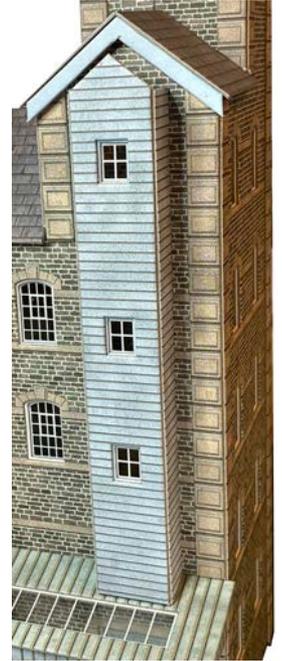
Then fold over and glue down the two long grey tabs.



Fold the side walls at right angles and fix using the grey inner braces just underneath or above the windows.

Glue to the building so that it sits on top of the loading bay roof.

Centre it under the small roof. Best fitted with the building laid on its back.



And finally, fit the hoist roof topped off with a small ridge tile strip.

Other kits designed to stand along side this brewery kit include PN991 Old Mill Chimney Stack and PN187 Old Factory which can easily double up as a great bottling plant and distribution centre. Buildings can also be connected at a higher level using our PN992 Over bridge kit.

