

PN915 N Scale Little Cardleywick Station

A small fictitious space saving station with all the features of a larger station but sits on a small footprint.

INSTRUCTIONS

PLEASE READ THESE INSTRUCTIONS BEFORE YOU START TO BUILD.

It is important you familiarise yourself with all the components and building techniques.

CHECKLIST.

- 1 x SHEET A. Printed components for all Buildings.
- 1 x SHEET B. Plain Grey Card - internal strengtheners etc.
- 1 x GLAZING SHEET.
- 1 x INSTRUCTION BOOKLET (this one).

Kit components at a glance.

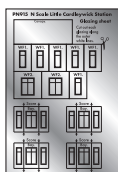
SHEET A.



SHEET B.



GLAZING SHEET.



1 Tools to build this kit.

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

1. A modellers knife. We find that a Swann Morton knife with 10a blade is the best tool for the job.
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. Water colour paints to paint over corners and edges.

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.



UHU All Purpose solvent free.

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



Roket Card Glue is an instant and fast drying glue, great for where you need stuff to stay just where you place it.



Supplied with its own fine tip applicator.

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

Care & Use of glue applicators

Always replace the pin if not using for more than a couple of minutes. The nozzle will block up from time to time, so simply tip the bottle up as shown here and push the pin inside, then vigorously push and pull the pin whilst squeezing the bottle at the same time. This allows the glue to moisten the dry glue in the nozzle.



If this doesn't help, then take the metal nozzle off and rod it out with the pin from the other end.

Speed Bond is a water based glue so running warm water over it as you go helps soften any hard glue in the nozzle.

ALWAYS store the bottles upside down when not in use. This keeps the glue moist around the nozzle end of the bottle.

This simple holder was made using hard foam corner packaging (out of a furniture flat pack). You could also fashion one from styrene foam packing.



When using the bottles stick the pin into the foam for safe keeping. They are very easy to lose!

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

4 Extracting components from base sheets.

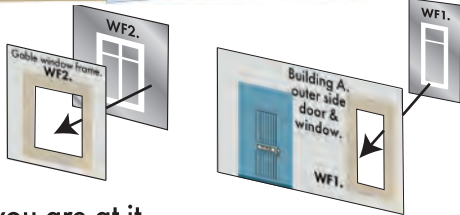
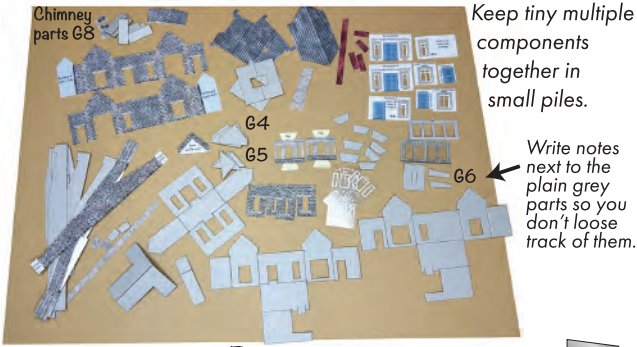
To stop the components falling off the base sheets, they are held secure with score lines (marked with blue arrows) that cut about 75% of the way through the card. →

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.

SEE OVER THE PAGE

Extract ALL the components in one go.
 Very carefully extract each of the components and place them on a separate sheet of thick card or a tray away from your working area - like this.
 We call this the 'Builder's Yard'

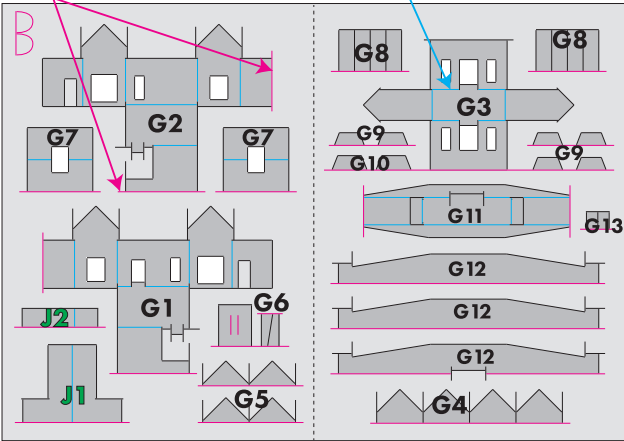


Also whilst you are at it,
 fix all the WF1. & WF2.glazings to the back of
 the six various window openings.
 Plus fix the plain glazing to the back of the canopy
 UPPER roof. Place all back in your Builder's Yard.
Do Not do anything with the bay windows.
 Leave these flat without glazing for now.

5 GREY SHEET C Components.

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

BLUE lines indicate
 fold lines - Don't cut.

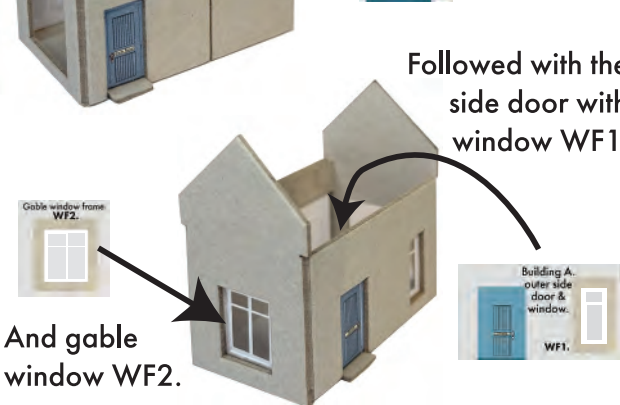
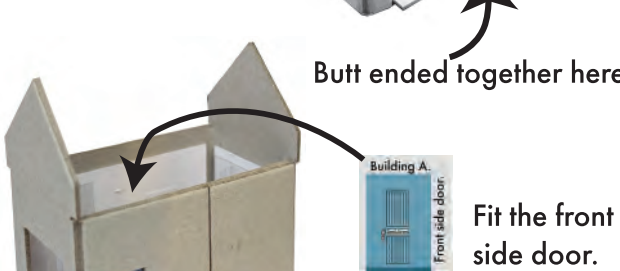
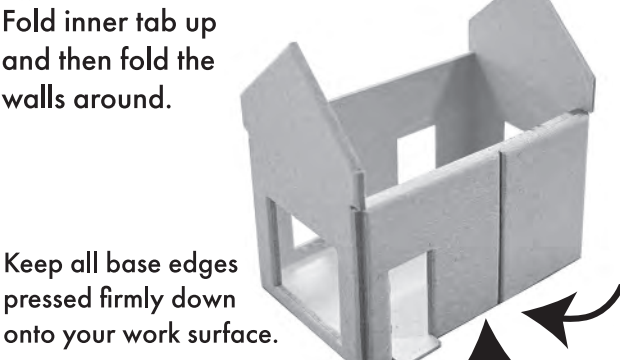
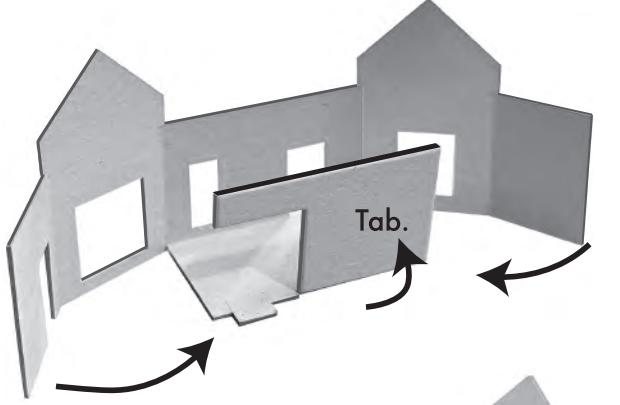
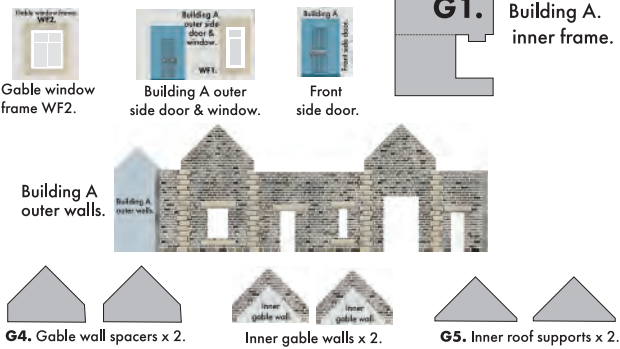


- Key.**
- G1.** Building A inner frame.
 - G2.** Building B inner frame
 - G3.** Booking hall inner frame
 - G4.** Gable wall spacers x 4.
 - G5.** Inner roof supports x 4
 - G6.** Canopy side supports & Spacing Jig.
 - G7.** Inner roofs x 2.
 - G8.** Chimney spacers x 8.
 - G9.** Bay window tops & inner supports x 6.
 - G10.** Bay window tops x 2 large.
 - G11.** Ramp base.
 - G12.** Ramp inner walls.
 - G13.** Ramp wall capping x 2.
 - J1. & J2.** Jig components to make perfect chimney spacers.

START BUILDING

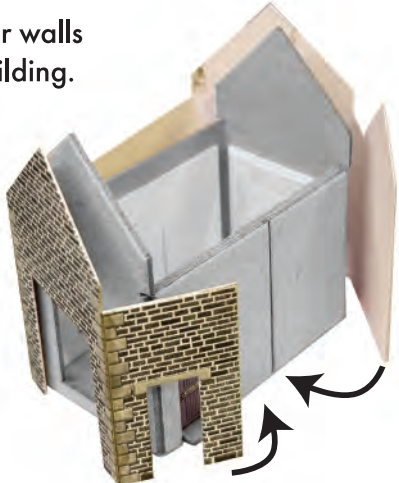
1 Building A.

The bits you are
 going to need:

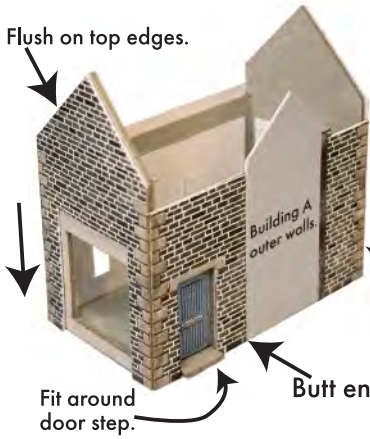


Wrap the outer walls around the building.

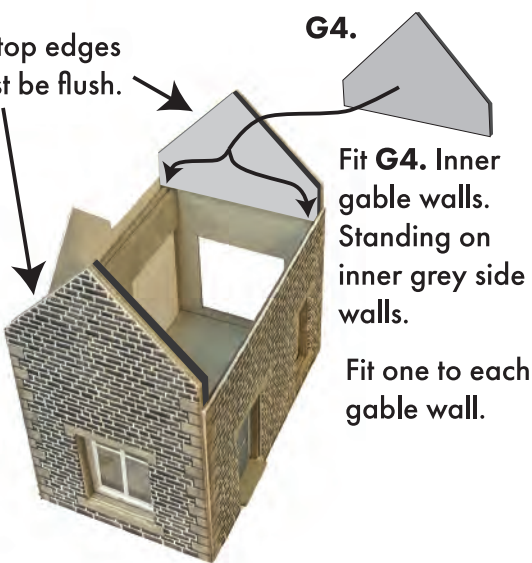
Do it without glue to start with, so you see how it fits.



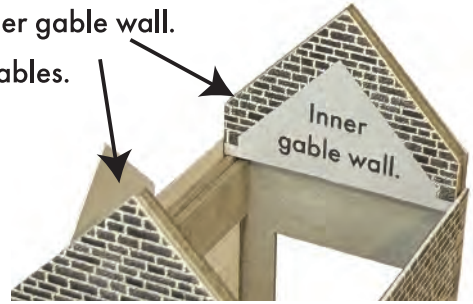
BUT FIRST: Paint the corners with a little very much watered down water colour paint (roughly 95% water to 5% paint or thinner). Fold corners fully back and dab along the white card that shows. Just slightly tint the card. Don't wadge loads of thick paint in. You will make it look worse. Practice makes perfect!



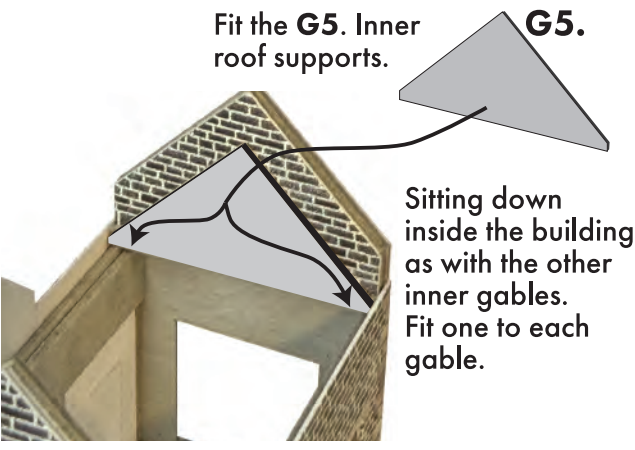
Fix walls around making sure all base edges are pushed flat down onto your work surface.
Gable tops edges should all be flush.



Fit the inner gable wall.
To both gables.



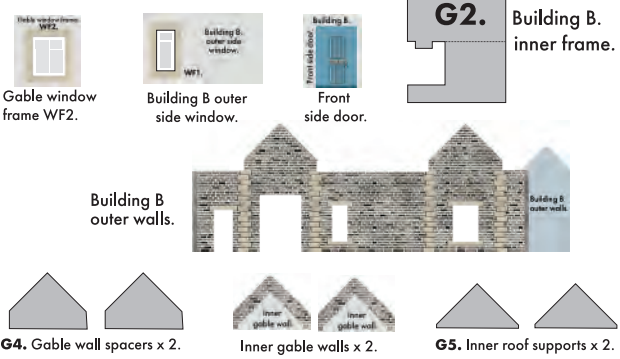
Fit the **G5**. Inner roof supports.



Put the building to one side and go on to build the other building (B).

2 Building B.

The bits you are going to need:

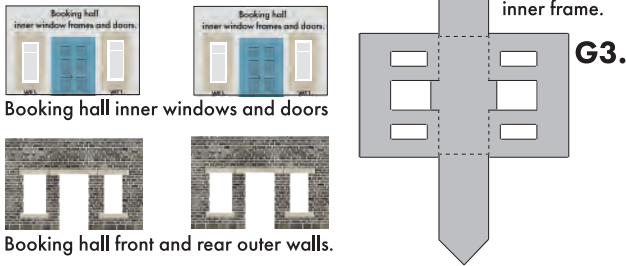


Building B is a mirror image of building A. and fits together in exactly the same way. The only difference is that there is outer side door.

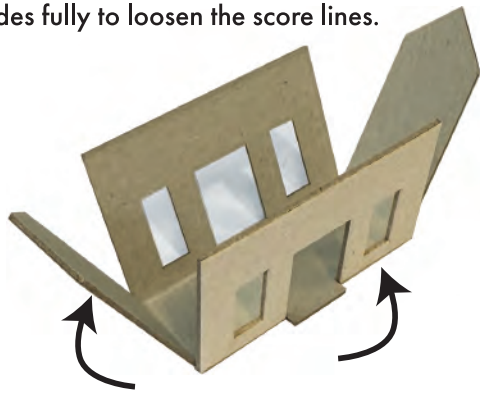


3 Centre Booking Hall.

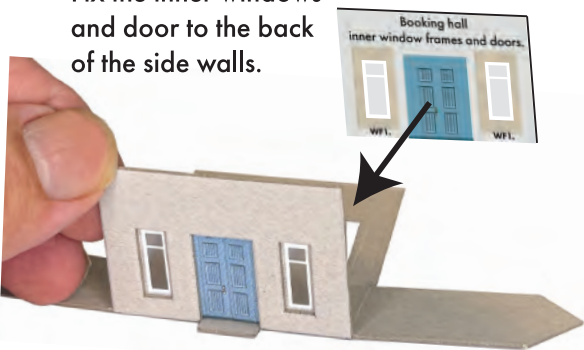
The bits you are going to need:



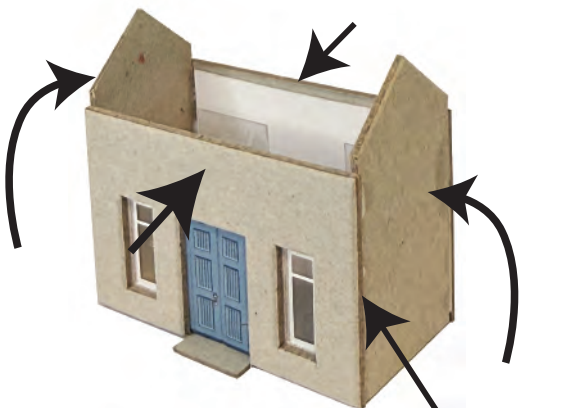
Turn the inner frame over and fold up the four sides fully to loosen the score lines.



Fix the inner windows and door to the back of the side walls.



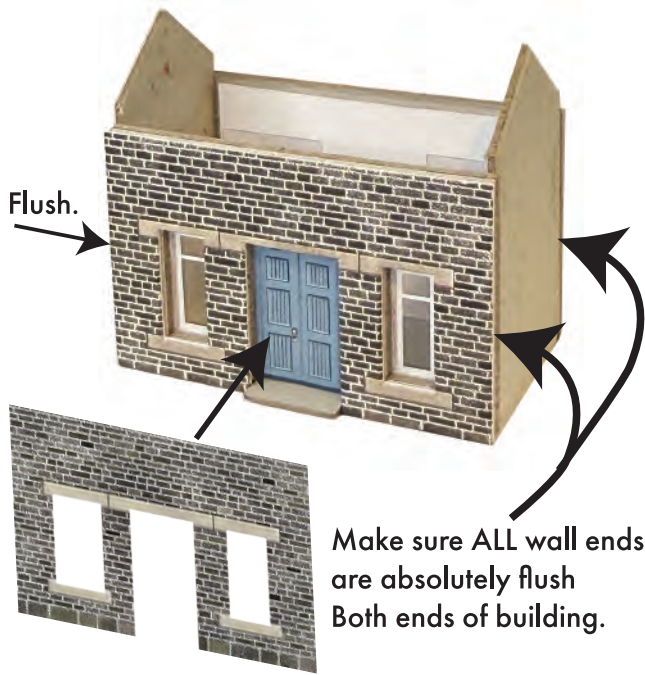
Hold the walls upright as you fix them.



Fold the four walls up and fix the gables so they sit inside the side walls.

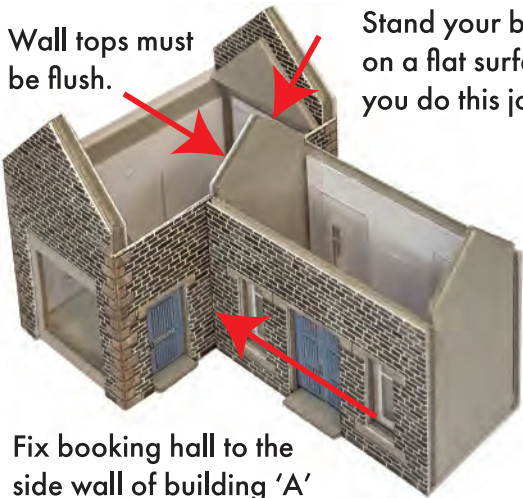
Flush with wall ends

Now fit the two outer walls to either side of the building.

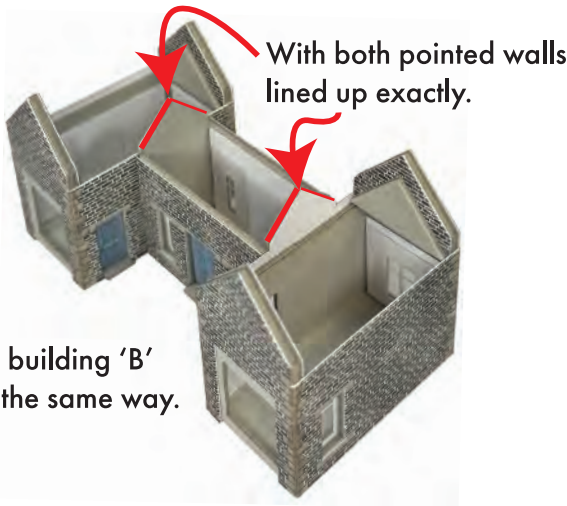


4 Join Buildings Together.

Wall tops must be flush. Stand your buildings on a flat surface as you do this job.



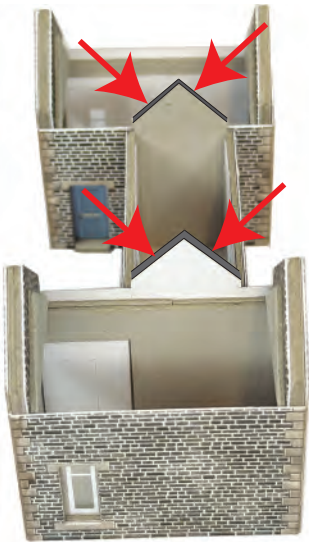
Fix booking hall to the side wall of building 'A'



Fit building 'B' in the same way.

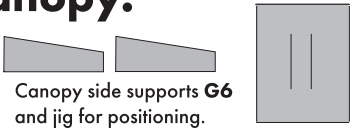
It is imperative that the tops of the joining walls are all flush on all edges.

All buildings must be in perfect alignment and sitting flat on your work surface for the roofs to fit.

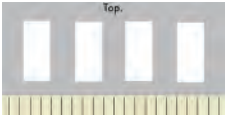


5 Fit the Canopy.

The bits you are going to need:



Canopy side supports **G6** and jig for positioning.

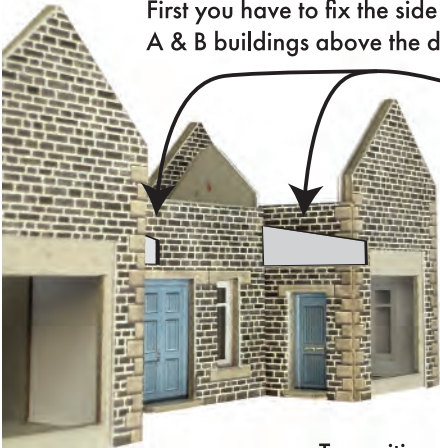


Platform canopy LOWER roof.

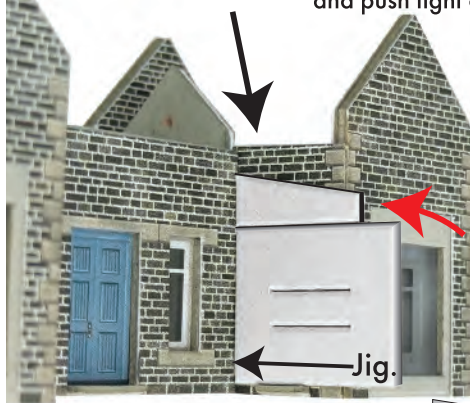


Platform canopy UPPER roof.

First you have to fix the side supports onto the A & B buildings above the doors as shown here



START WITH THIS SIDE

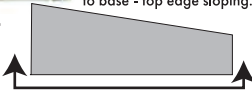


To position the support, stand the jig on the doorstep and push tight against the wall.

Hold it in position and fix the side support above as shown.

Side edges at right angles to base - top edge sloping.

WATCH OUT! Make sure you get the support the right way around look carefully before you fix.



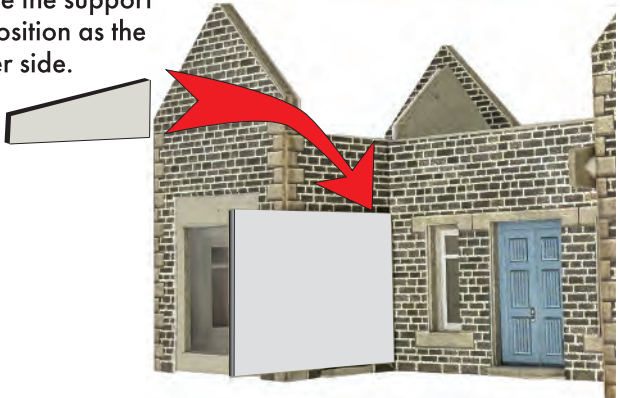
NOW FOR THE OTHER SIDE

When you place the jig against the building turn it so the side with two embossed lines is facing the building.

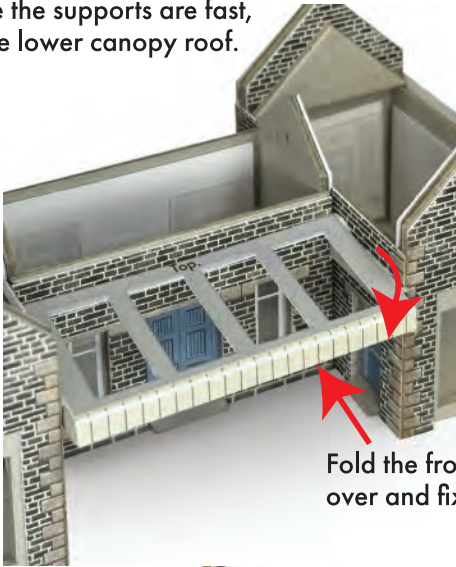
There is a technical reason for this (too complex to explain at this point)



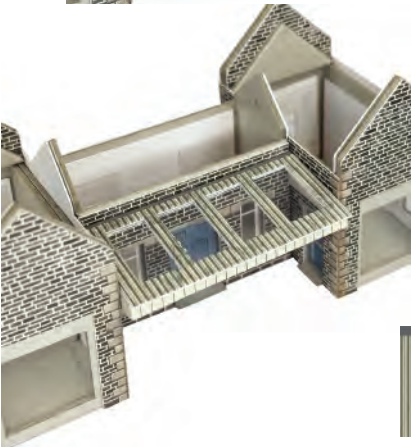
Place the support in position as the other side.



Once the supports are fast, fix the lower canopy roof.



Fold the front panel over and fix.



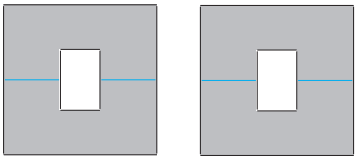
Fix the upper roof on top.

This edge to the back.



6 Fit the Roof.

The bits you are going to need:



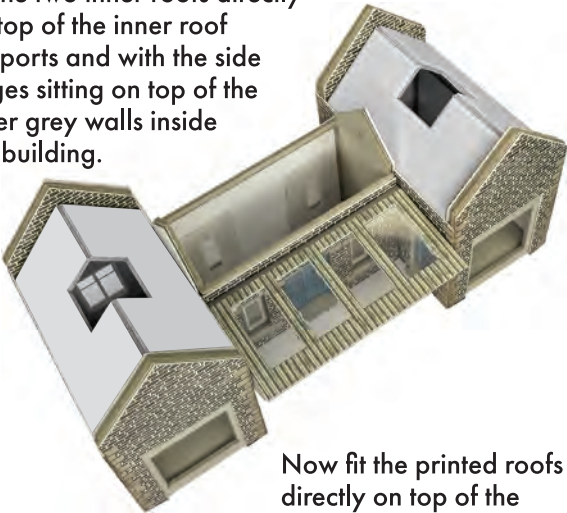
2 x Inner roofs G7.



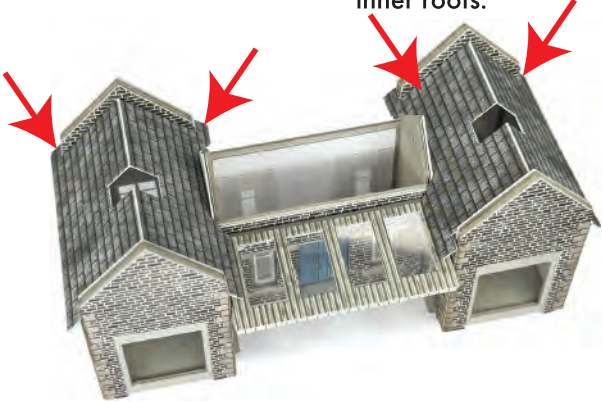
Buildings A & B roofs.

Booking hall roof.

Fit the two inner roofs directly on top of the inner roof supports and with the side edges sitting on top of the inner grey walls inside the building.



Now fit the printed roofs directly on top of the inner roofs.



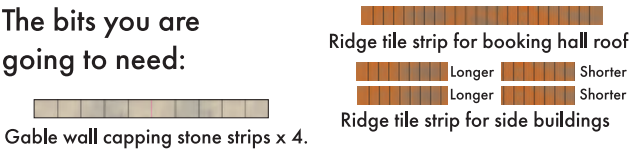
Next it's the centre booking hall roof.

The longer edge of the roof slots down under the side buildings overhanging roofs this side of building.

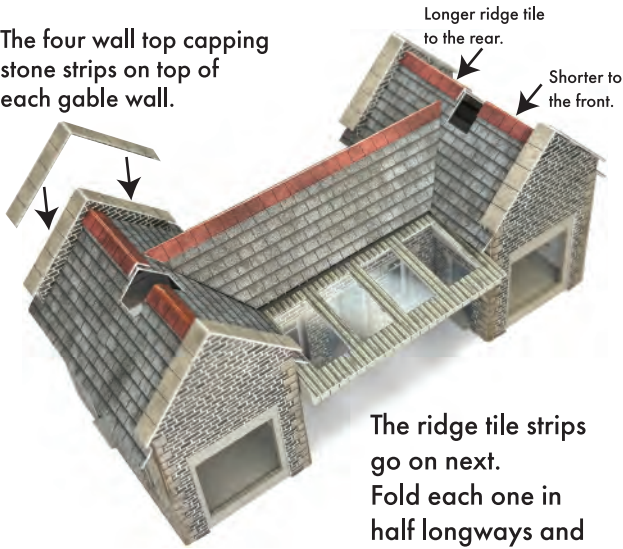


7 Capping and Ridge Tiles.

The bits you are going to need:



The four wall top capping stone strips on top of each gable wall.



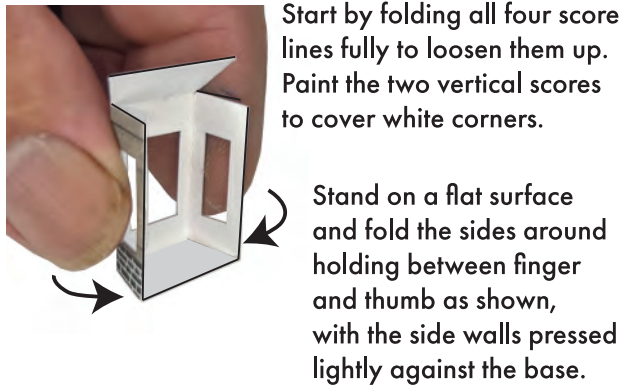
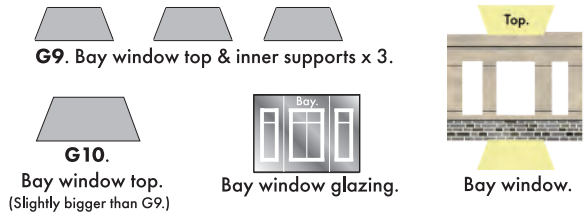
The ridge tile strips go on next. Fold each one in half longways and paint the white card on the fold and edges.



The long strip for the booking hall roof needs the ends trimming down to a point as shown (apx 40°)

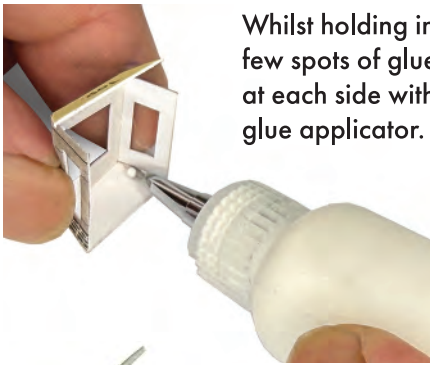
8 Bay windows

The bits you are going to need for each window:



Start by folding all four score lines fully to loosen them up. Paint the two vertical scores to cover white corners.

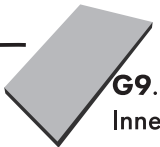
Stand on a flat surface and fold the sides around holding between finger and thumb as shown, with the side walls pressed lightly against the base.



Whilst holding in place squirt a few spots of glue along the joints at each side with your fine tip glue applicator.



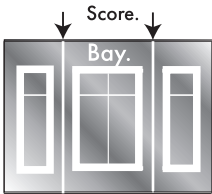
Continue to hold as you place the inner support inside and push tight to the front wall.



G9.
Inner support

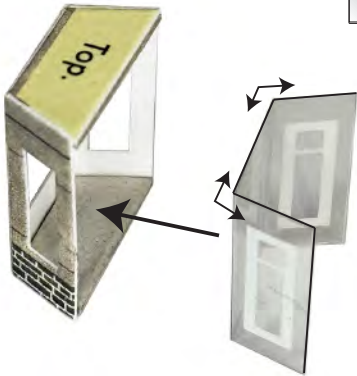
Now turn the window over and repeat the process with the top tab.

Lightly score the glazing sheet along the two white lines. Then fold the side windows to the same angles as the bay.

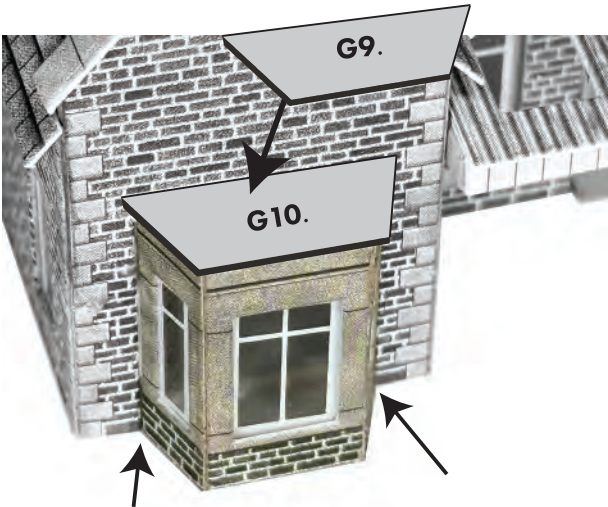


There are a couple of extra glazings in case you mess up.

Then fit inside the bay window. Just a couple of spots of glue are all that is needed to hold them in place.



The bay roof is made up with the larger **G10.** grey card top sitting on the bay and the smaller **G9.** card centred on top.



Fix the bay window into the recess on the front of the building, then fit the roof.

9 The Chimneys.

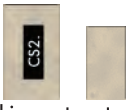
For each chimney stack you will need the following components:



Chimney stack.



Four grey chimney spacers **G8.**



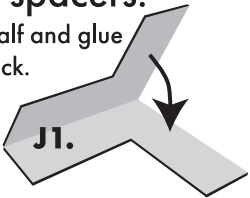
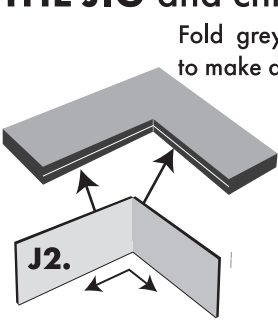
Chimney top stones **CS1. & 2.**



Jig components **J1. & J2.** to make chimney spacers.

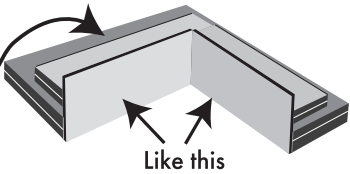
THE JIG and chimney spacers.

Fold grey **J1.** in half and glue to make double thick.



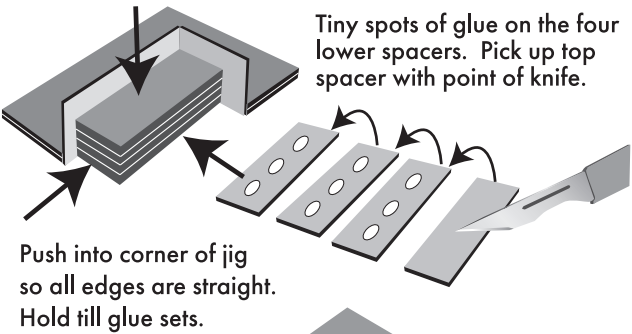
Then fit **J2.** folded at a right angle into the corner.

Pack behind with waste card to strengthen.

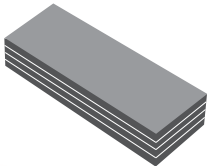


Like this

Tiny spots of glue on the four lower spacers. Pick up top spacer with point of knife.

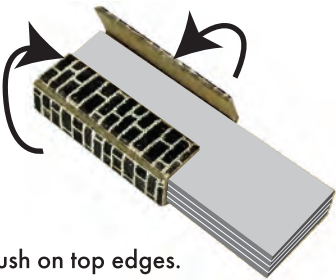


Push into corner of jig so all edges are straight. Hold till glue sets.



The chimney spacer block.

And there you have it.



The chimney stack wraps around the spacer block and the two ends meet butt ended together.

Flush on top edges.



10 Chimney Pots.

This job can seem a little tedious but well worth the effort. It's a job best done whilst watching TV, listening to the radio or even a podcast!

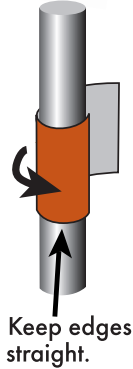
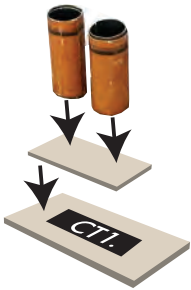
Cut out the terracotta coloured strips (below) roll each one tightly around a metal rod to form a cylindrical shape.

Drill bits, nails or small screws like this are good for the job. anything at apx 2mm diameter



Roll up tight and keep rolling until the paper is fully curled around.

Then unroll the end back out just enough to smear with a little glue, then roll back up and hold tight until the glue has set.



Fix the pots onto the CT1. & 2 capping stones before attaching to the top of the chimney stack

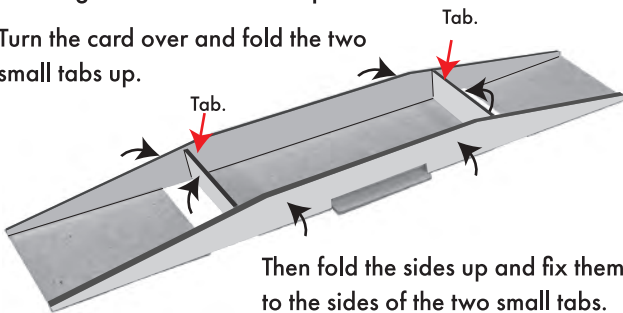
The chimney stack is now pushed down inside the openings in the roof...No glue needed.

11 Ramp.

The ramp is only needed if you are standing the building on top of our PN135 platform kit and you need access from street level to platform level.

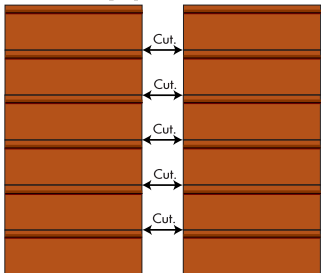
Starting with the G11. Ramp Base

Turn the card over and fold the two small tabs up.



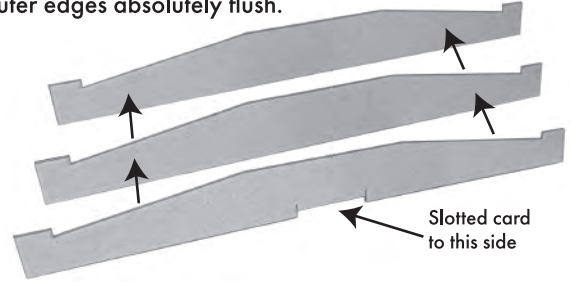
Then fold the sides up and fix them to the sides of the two small tabs.

Chimney pots



Hold the sides tight against the tabs as the glue sets. They must be set at right angles.

Now for the wall. Fix the three grey cards together with all outer edges absolutely flush.



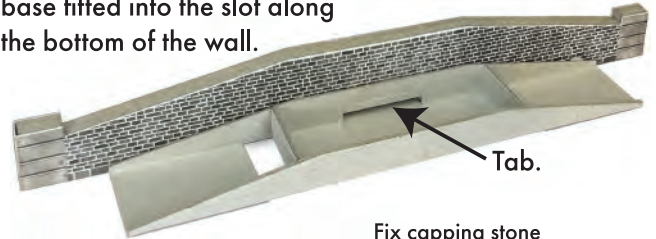
Fix the outer wall to the plain side.



Fix the inner wall the other side with the slot and fold the end pillars around.

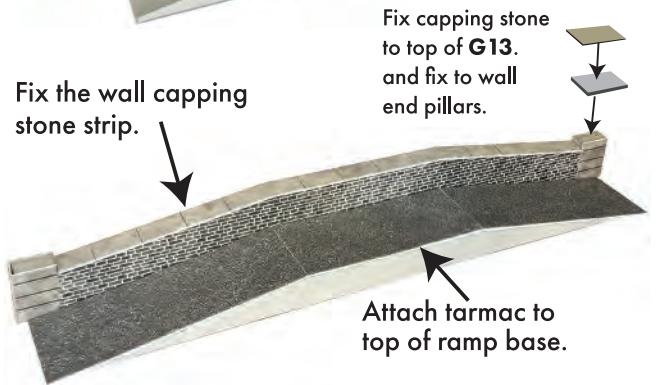


Fix the ramp to the side of the wall with the tab on its base fitted into the slot along the bottom of the wall.



Fix the wall capping stone strip.

Fix capping stone to top of G13. and fix to wall end pillars.



Signs & Posters

Fold in half and glue back to back.

