

**Railway Arches  
INSTRUCTIONS**

**PRE-BUILD PREPARATIONS**

**Tools you'll need to build this kit**

(all of which are available on our website:  
[www.metcalfe-models.com](http://www.metcalfe-models.com))

1. A modellers knife
2. A cutting mat
3. A steel ruler
4. A pair of fine pointed tweezers
5. Water colour paint set
6. Metcalfe ultra fine tipped glue applicator
7. Glue (see below)

**Glues**

We recommend using a combination of glues, Speed bond and Rokat card glue, both are produced by Deluxe materials.

**Rokat card glue** is an instant, fast drying glue which is great quickly securing components that require little positioning. It also comes with it's own fine tip applicator.

**Speed Bond** is a slightly slower drying glue which is ideal for the components where careful positioning is required.

**UHU solvent free** is also a great all round glue and is excellent for fixing the plastic windows.

**Metcalfe ultra fine tipped glue applicator** is essential for applying small amounts of glue to the smaller components.

These bottles come in a pack of 3 and are best used with Speed Bond and UHU, simply unscrew the top and fill with the glue.



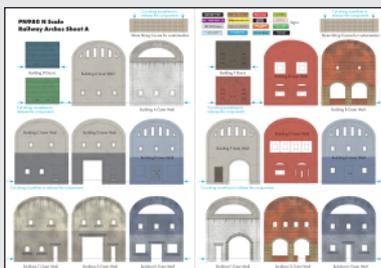
**PLEASE - PAY ATTENTION**  
Read through the instructions and familiarise yourself with the kit before you start any building. Follow these step by step instructions carefully to make this wonderfully detailed kit.

**Kit Component Check List**

The kit contains the following sheets

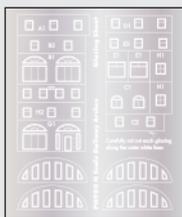
**Sheet A.**

Printed sheets with the components to make this kit.



**Glazing sheet.**

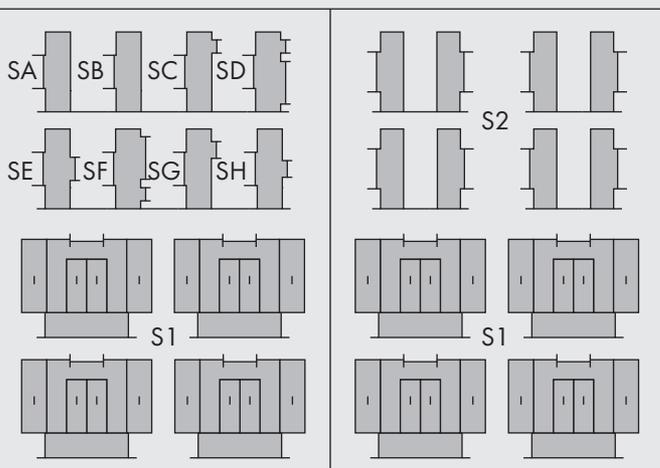
Clear plastic glazing to fit behind the window openings.



**Strengtheners sheet.**

A thick grey card with inner and base strengthening parts. Below is a key to each of parts with an abbreviated code, this code will be referenced in the instructions.

The only strengtheners that are different for each building are the bases (SA-SH) for easy reference write the code to the underside of each of the bases.



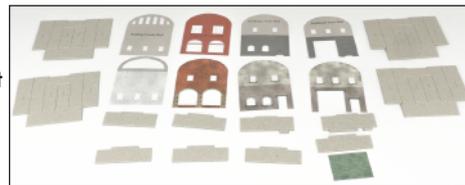
- SA - Building A Base
- SB - Building B Base
- SC - Building C Base
- SD - Building D Base
- SE - Building E Base
- SF - Building F Base
- SH - Building H Base

- S1 - Internal Support (x8)
- S2 - Floor Spacer (x8)

**Extracting the components**

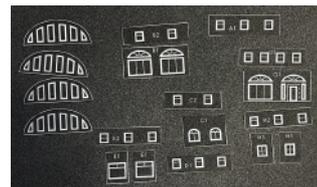
To prevent the components from falling off the sheets they are held secure with scorelines, marked with a → These are cuts that only go about 75% of the way through the card. To release them carefully run the point of your knife along these scorelines and they will come seamlessly away, be very careful your blade does not run off the score and damage the components. Use a steel ruler as a guide especially if using a new sharp blade. Keep the components organised and away from your work area on a piece of card or tray that we will call your builders yard.

Take great care cutting free the Building Inner Walls, note that the doorways are stepped up from the base edge, you may need to run your knife down the vertical cuts to get a clean release.



**Windows**

Carefully cut out the windows along the outer white line from the glazing sheet, organise and place on a dark piece of card (so that you can see them and they don't get lost) and place within your builders yard until required.



## Painting the exposed edges

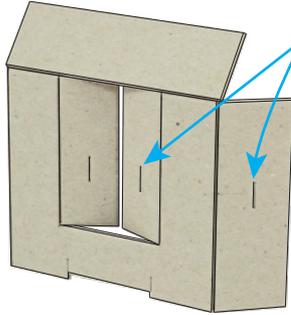
The exposed edges, undersides and folds of the roof sections and wall ends will need to be coloured to match the printed surface. Use some water paints, mix the colour with lots and lots of water, test against the leftover bleed on the base sheet to get the correct shade and colour. The card only has to be tinted, as a solid painted line will make it look worse. Quickly wipe away any excess paint off the printed surface before it dries.



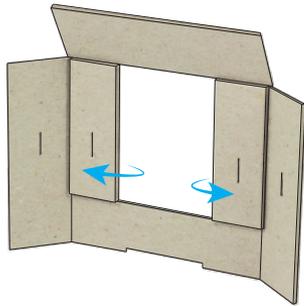
## LET'S START TO BUILD!

Each of the 8 buildings are built the same way.

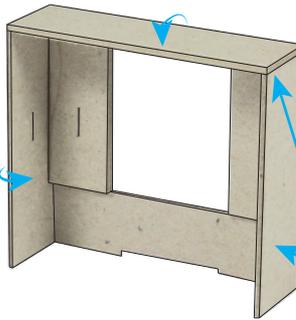
### 1 Inner Strengtheners



First make sure that you can see this cut line clearly on the reverse side on each of the S1 Internal supports. They act as guides for the Floor Spacer's (S2) position.

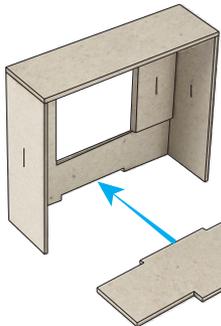
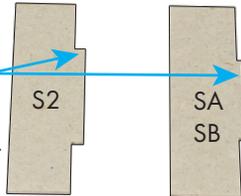


Fold back and glue to the inside the two central tabs.

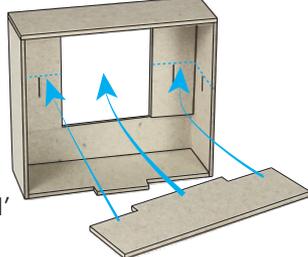


Now fold in the sides and then the top folds down to rest flush to the side supports. Make sure the side and top side edges are flush.

Note the different rear tab sizes of the bases to the S2 floor supports (especially the SA and SB bases). The bases have a shallower and smaller rear tab to the S2's so they if you do get them mixed up they won't fit properly.



Next add the base to the S1 internal support. The rear tab slots into the corresponding gap on the S1 and the sides fit flush around the base.



Now the S2 Floor Spacer, carefully align to the top of the 'I' scores in the S1.



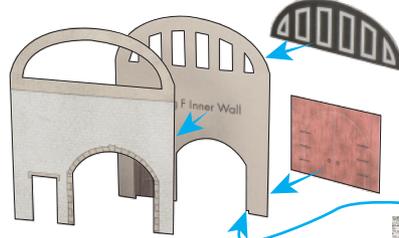
Like so.

Repeat with the remaining seven, organising them A-H so you remember which base goes with which building wall.

2

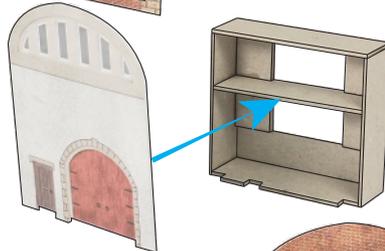
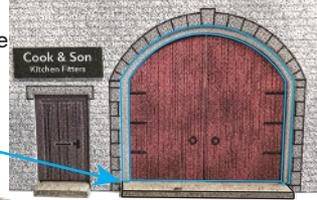
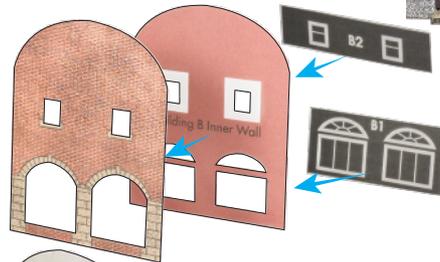
### 2 Building Walls

Start by matching the window glazing to the corresponding inner building walls, carefully align and glue into place the windows to the openings. The four 'arch' windows match to building's A, E, F and H inner walls. Then align and glue to the matching outer wall, keeping all the edges flush.



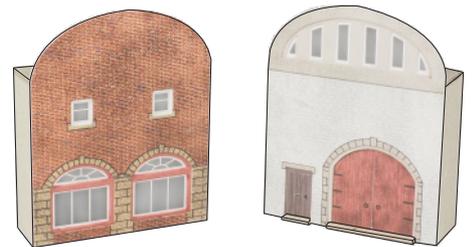
Align bottom edge to the 'stepped' edge of the frame.

To avoid misalignment of the garage doors, be sure to align the bottom edge to the offset frame that will sit atop the base once fitted.



Now carefully glue to the matching inner frame keeping the sides flush, test the fit first to make sure the doorways fit correctly to the base.

Like so.



Lastly fit into the viaduct arch. Adding the optional Stone string course and a sign if required.

If you're only using the fronts as a half relief, then use a little waste card or black paper to glue to the back of the inner strengthener.