

# PO340 00/H0 Scale PLATFORM CANOPY

READ THROUGH ALL THE  
INSTRUCTIONS BEFORE YOU START.

To construct this kit you will need the following:

1. A Modellers knife.
2. A pair of sharp scissors.
3. Glue and Ultra Fine Applicator Bottles - SEE BELOW.
4. A cutting surface - a sheet of card or a cutting mat.
5. Fine point tweezers to hold the smaller components.
6. Water colour paints and a very fine brush, or black fine point felt tip pen.
7. Good Eye Sight - or a magnifier, for tiny components and plenty of concentration.

## GETTING STARTED

### 1 EXTRACTING COMPONENTS FROM SHEETS.

There are three sheets of laser cut card. The components on each sheet are held in place with scorelines that are cut part way through the card. These scorelines are shown on the descriptions for each sheet further on in these instructions. Cut each scoreline with your knife very gently. Don't try to cut in one go, just run the point of your knife along the score lines a few times until you eventually cut through. Extract the components very carefully so as not to rip or bend the fragile parts.

### 2 MAKE YOUR 'BUILDERS YARD'.

This is an area kept away from your working surface, where you store ALL components extracted from the base sheets until needed.



Use a piece of thick card or a tray to make your builders yard.

Your WORKING area should have a clean flat surface, and should only contain the kit parts you are actually working on.

EVERYTHING ELSE SHOULD BE KEPT NEATLY ARRANGED  
IN THE BUILDERS YARD, UNTIL NEEDED.

PLEASE NOTE: Don't throw anything away. Keep all offcuts and waste card in a box until the kit is finished, just in case you can't find anything. The chances are that it will be there.

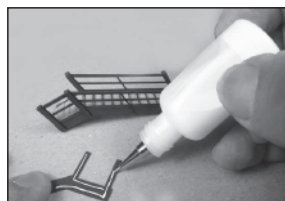
## INSTRUCTION SHEET

### CHECK LIST

This kit pack should contain the following:

- 1 x CREAM CARD - Containing legs beams and trusses
- 1 x DARK GREY CARD - Containing roofs and gutters.
- 1 x LIGHT GREY CARD - Containing inner gables and gluing & building aids
- 1 x GLAZING SHEET.
- 1 x INSTRUCTION SHEET (this one).
- 1 x Ridge Tile Sheet.

The METCALFE Ultra Fine Tip  
Glue Bottles are essential for gluing  
the fine laser cut components in this kit.



Tiny strips or  
spots of  
glue can be  
Accurately  
laid down with  
precision.



Always replace the pin after use and  
store the bottles upside down to keep the glue moist.

### UHU All Purpose Adhesive Glue

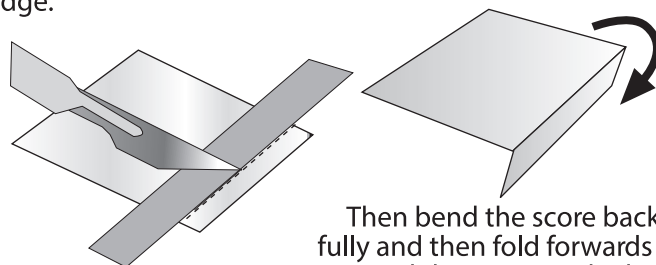
Is available in standard and solvent free. Both types are fine for use in our glue bottles, even though the instructions on the back of the packs warn against solvent based glues, we have tested the UHU solvent based glue and it works fine, but the solvent free glue doesn't string as much, but can be a little harder to clean off if it drips onto your work surface or oozes onto unwanted areas of your kit.

### Speed Bond by Deluxe Materials

This is an excellent PVA. based glue that dries quickly, but also allows time to get parts into position. It has the added advantage that it dries clear leaving little evidence if it oozes out of joints etc. Used in our fine glue applicator bottles a 112g bottle lasts for ages. [www.deluxematerials.com](http://www.deluxematerials.com)

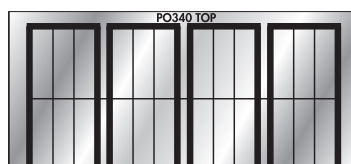
### GLAZING

The glazing in this kit is quite thick and is easier cut to size by scoring along the outer edges of the window sections with the point of a knife, guide by a straight edge.



Then bend the score back  
fully and then fold forwards  
and the unwanted edge  
will snap cleanly off.

You will end up with four  
sheets of glazing like this.

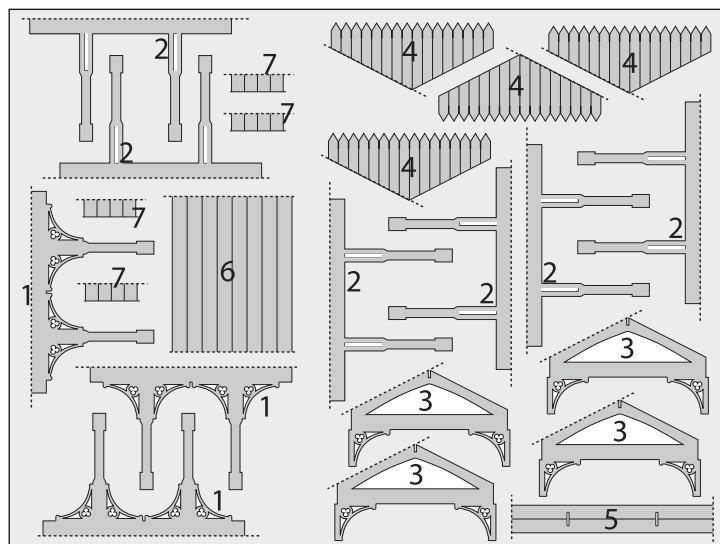


Shown here in black for identification only.

NOTE: It is important  
that you cut the glazing  
sides as indicated,  
otherwise the roof  
won't fit properly if they  
are cut bigger than shown.

## CREAM LASER CUT CARD

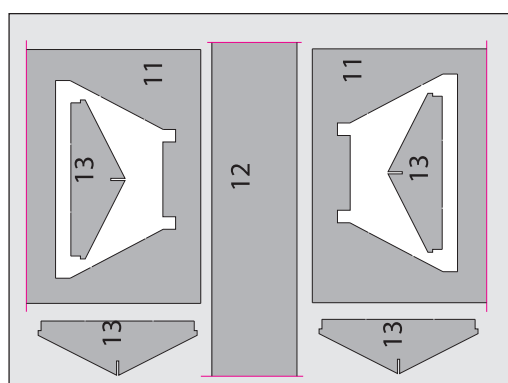
Dotted lines indicate the scorelines you need to cut to release.



## KEY.

1. Inner legs with beam and brackets. x 3.
2. Outer legs with beam. x 6.
3. Roof truss and cross beam. x 4.
4. Gable end. x 4.
5. Ridge plate. x 2.
6. Truss side beam. x 8.
7. Leg base section. x 8. There are extra base sections in case you loose some.

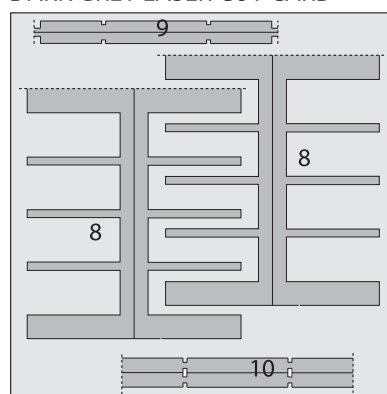
## LIGHT GREY LASER CUT CARD



## KEY.

11. Positioning jig for inner and outer legs x 2.
12. Frame brace.
13. Gable inner strengtheners x 4.

## DARK GREY LASER CUT CARD

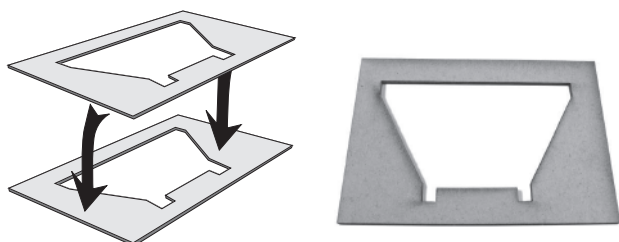


## KEY.

8. Roof top x 2.
  9. End gutter x 2.
  10. Mid gutter x 2.
- Take extra care when removing the root sections they are very delicate.

## Fig. 1. POSITIONING JIG.

This jig is used to align the inner and outer parts of the leg and beam units when they are fixed together.

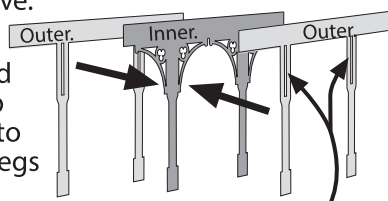


The two parts of the jig, fasten one on top of the other. ALL inner and outer edges must line up flush

## Fig. 2. LEG & BEAM UNITS.

The main part of the canopy framework is the bit with the legs (or posts). There are three leg & beam units, in this kit each consisting of one inner and two outer sections that are glued together to form a rigid set of legs with a beam above.

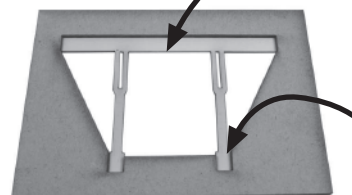
Each of the three leg and beam units are made up by fixing the outer legs to either side of the inner legs with the brackets.



NOTE: The outer legs have tiny slots located at the top. The brackets on the truss sections slot into these. They must be kept free of glue until needed.

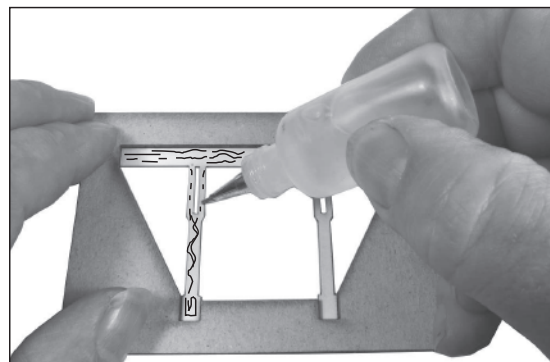
## Fig. 3. ASSEMBLE THE LEGS.

Place the jig on a flat surface and fit one of the outer legs inside the opening.



Make sure all the edges of the legs are pushed firmly down through the opening and sitting flat on your work surface.

Using your 'Ultra Fine Tip Glue Applicator' carefully glue the surface of the outer leg unit. Not too much and just spots on the very narrow bits.

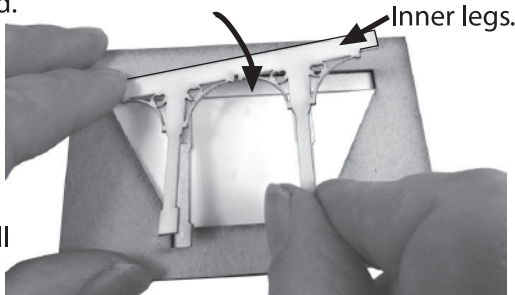


There needs to be enough glue to stick the inner leg unit on top but without glue oozing out around the edges

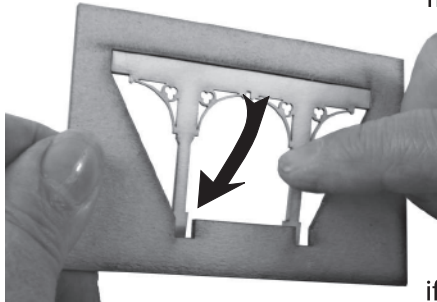
## Fig. 3. Cont'd.

The INNER leg and beam unit with brackets now sits down inside the jig, directly on top of the outer leg you just glued.

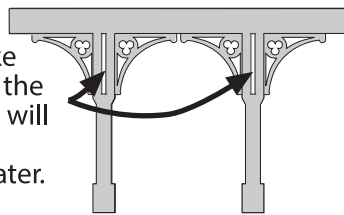
Push firmly down on top of the outer legs and slide around if needed to ensure that all edges of legs and beams line up.



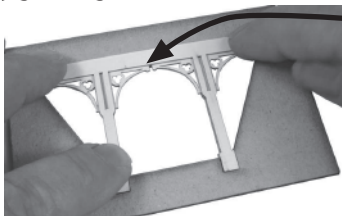
Now push out the unit from the jig starting with the legs. Push them from the front out through the back. The bottom of the legs may need to be carefully pushed using the point of your knife if the glue has oozed out and attached them to the jig.



Clean any glue off the edges of the card and make sure the slots at the top of the legs are free of glue as this will stop the cross beams from seating in them properly later.

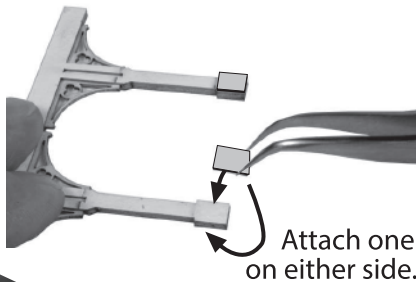


Next, put another outer legs and beam section into the jig and glue as before.



Then attach the above unit you have just made in just the same way as the top picture, but remember to fit so the inner legs are sandwiched between the two outer legs and beams.

The small leg base sections fit onto the wider part at the bottom of the legs. Use a few tiny spots of glue to fix.



Attach one on either side.

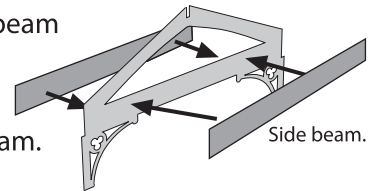
When fast, paint the bases like this with a black fine pointed felt tip pen.

And 'Hey Presto' you've got your first set of legs. Now all you have to do is repeat this process twice more to end up with three sets of legs.

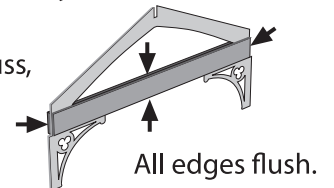


## Fig. 4. TRUSS & CROSSBEAM.

To strengthen the crossbeam part of the truss there are two side beams that are attached to each side of the crossbeam.



Make sure that the tops bottoms and ends all line up flush with the main truss, leaving the ends of the brackets free to fit into the slots in the posts.



Repeat with other three trusses.

## Fig. 5. BUILDING THE FRAME.

The legs, beams and trusses now all come together to form the main frame that holds up the roof.

First check that the two slots in the legs are free from any glue or bits, then fix the first truss into the slot making sure the end of the bracket sits fully down into the slot. The end of the beam should be tight up against the side of the main beam.

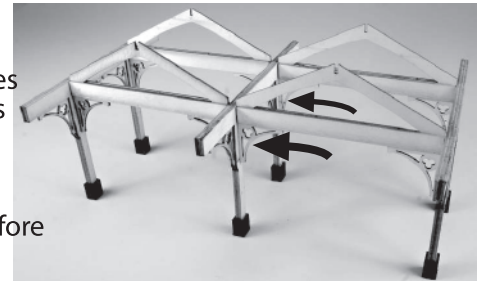


Hold firmly at rightangle until fast, then fit the second truss into the other slot.

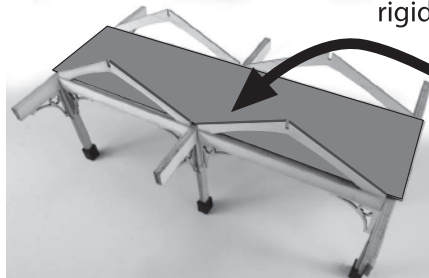


Once both trusses are fast, carefully fit the other end of the two trusses into the slots of another set of legs. This requires very, VERY nimble fingers. Make sure all brackets are seated fully into the slots.

Now repeat the first step with two more trusses and a set of legs then attach to the rest of the framework. Leave to dry before the next step.



You now have a fairly wonky structure. So to hold it rigid and at the correct angles, insert the grey frame brace (12). Push down between the trusses onto the beams to hold the structure rigid.





## Fig. 6. RIDGE PLATES.

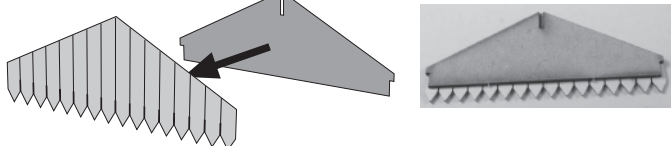
The two ridge plates fit into the slots at the top of the trusses. Push them down so that the slots engage fully with each other.



## Fig. 7. GABLE END SECTIONS.

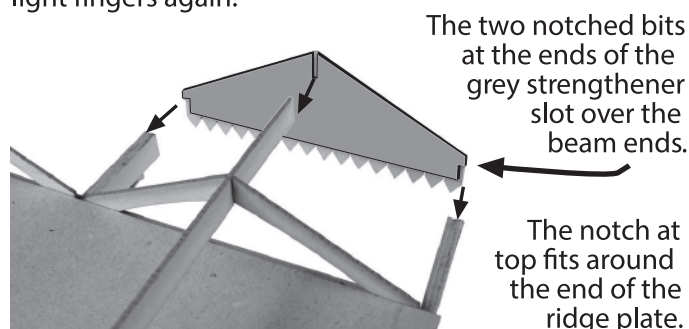
Each gable end is made of two parts. The outer cream coloured section has a grey inner card that is fixed to the back of it so that the upper and side edges are all flush with one another.

Like this.

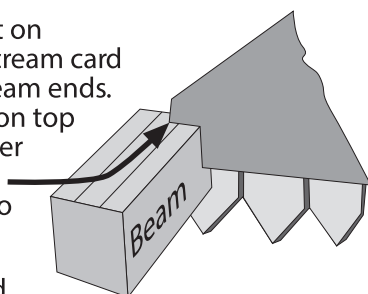


## Fig. 8. FIT GABLE ENDS.

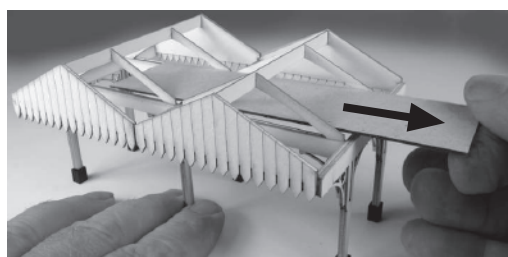
This can be tricky and requires patience and light fingers again.



Note: The side notches sit on the beam with the front cream card pushed up against the beam ends. The top of the notch sits on top of the beam and just under half way across to allow room for the next gable to fit at the other side,



Make sure all notches and the top slot are seated fully in their places then hold Very carefully in place until fully fast before you fit the next one, and so on.



Once they are all secure and fast, carefully pull out the grey frame brace.

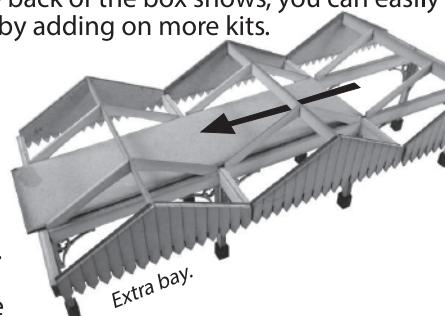
See Fig.9. if you are extending the kit, otherwise go to Fig.10.

## Fig. 9. EXTENDING THE CANOPY.

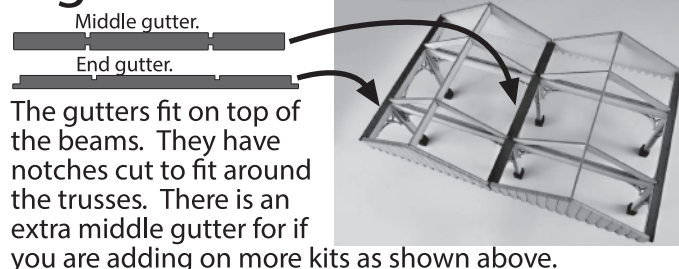
As the picture on the back of the box shows, you can easily extend your canopy by adding on more kits. If you are, now is the time to do it.

An easy way, is to add on one single bay at a time, using one set of legs and two trusses.

See first part of Fig.5. then attach to the structure in the same way as shown in (Fig.5. third photo down) and then when fast, simply slide the grey brace along to hold rigid whilst you attach the ridge plate and gable ends. Repeat this process for every extra bay you are adding, and remember, you will always end up with a spare set of legs.

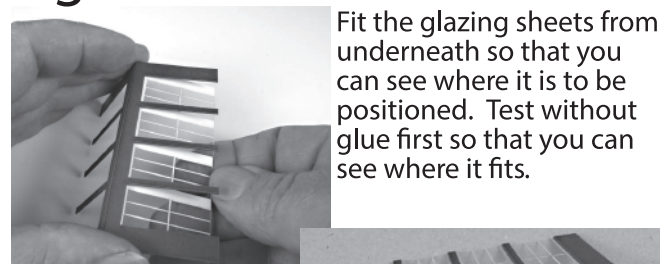


## Fig. 10. THE GUTTERS.



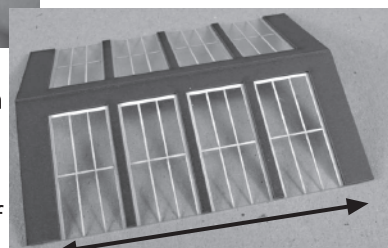
The gutters fit on top of the beams. They have notches cut to fit around the trusses. There is an extra middle gutter for if you are adding on more kits as shown above.

## Fig. 11. THE ROOF.



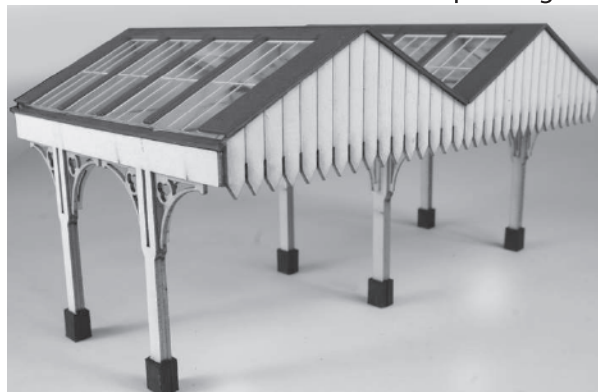
Fit the glazing sheets from underneath so that you can see where it is to be positioned. Test without glue first so that you can see where it fits.

The glazing should be flush along the bottom edge with the five roof end sections. Use only tiny spots of glue placed on underside of card to fix to glazing.



Glazing flush with card edges.

Sit the two roof sections on top of the building with the ends overhanging equally over each gable. The two centre trusses are slightly lower than the gables to allow for the thickness of the plastic glazing.



© Copyright 2013 Metcalfe Models & toys Ltd.