

Embankment Arches - ASSEMBLY INSTRUCTIONS

Contents. The kit comprises SHEET 1 & SHEET 2, the illustrated SUPERQUICK header card, ACCESSORIES CARD A, two long ACCESSORIES sheets B & C,

this ASSEMBLY INSTRUCTIONS sheet and a self-addressed response card.

Tools. A sharp modelling knife and a steel rule are essential. Bulldog clips, a few rubber bands and sticky tape might be useful to secure parts of the kit while glue is drying. Weights and square blocks are great for setting corners and glueing angle pieces.

Glues. Most liquid glues are suitable a fast-drying PVA glue is recommended as it becomes matte and almost transparent when dry. A solvent glue like is also recommended as it is quick to dry but can present problems when touching up model with water based paint. For glueing

areas of paper, such as lining pieces, it is recommended that PVA be thinned or that a spray or a spreadable solvent glue is used.

Card-mounted components.

Separate the parts only when called for by nicking with the knife at uncut points.

Scoring. Red arrows signal a fold back. Blue arrows signal a fold forward. Where the cutter lines are marked with arrows they are scored (i.e. only partly cut through). Here the component is intended to be bent or folded. Sometimes additional scoring with the knife may be necessary, so that the board bends at the fold line without too much resistance. If the fold line is cut

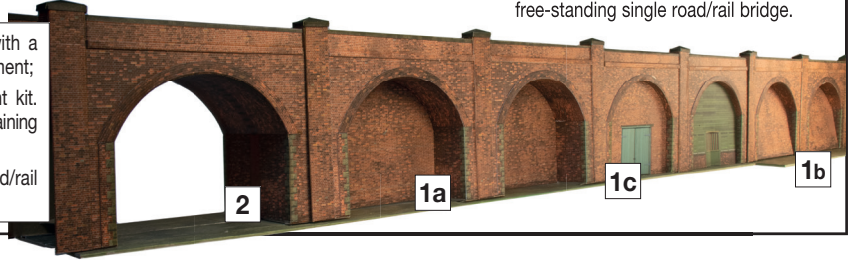
through, a repair can be made by gluing a thin paper strip to the back. When folding a piece forward on a perforated cut it is important to score lightly along the perforation on the reverse of the card.

Waste. Waste card is kept to a minimum and is indicated by symbol **W**

Finishing. The appearance of the completed model will be greatly improved if all exposed edges are touched up with paint. It is important that there is no glue on exposed edges.

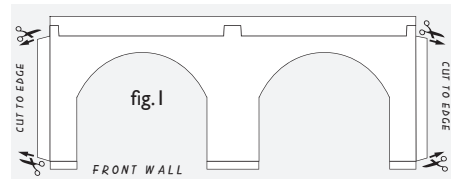
Options. This versatile kit offers two distinct variations on the railway arch. The choice of either a complete kit of two low-relief embankment arches or free-standing single road/rail bridge.

The following instructions are divided into two options with a step-by-step guide to completing either bridge or embankment; **OPTION 1** - a complete guide to building the embankment kit. Variation 1a: Inset arches as illustrated below; 1b: A sloping retaining wall design; 1c is of a bricked-up or under-arch unit version. **OPTION 2** - a complete guide to building the single road/rail bridge kit - go to page 4.


OPTION 1a - CONSTRUCTION OF LOW RELIEF EMBANKMENT KIT (WITH INSET ARCH) - SEE OVER FOR ALTERNATIVE OPTIONS

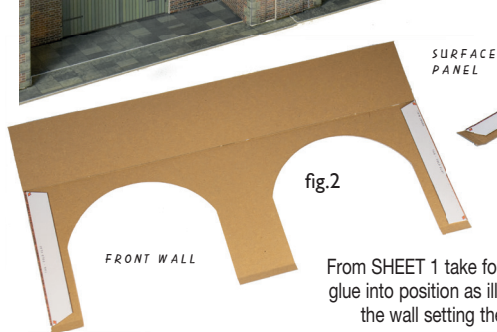

- 1** Before starting, a choice has to be made on the use and appearance of the kit. Options include; a pair of embankment archways, an embankment retaining wall (vertical or sloping) or several options for embankment workshops and unit fronts.

Divide the two SHEET halves.

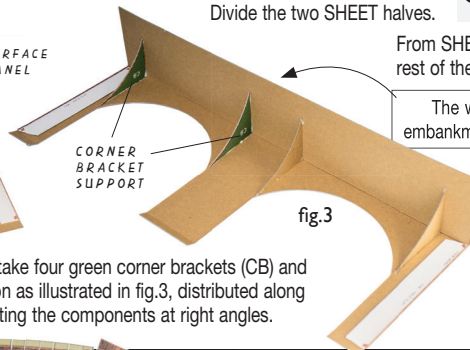


From SHEET 2 separate FRONT WALL, with all six tabs from the rest of the sheet by cutting side tabs to the edge of the sheet.

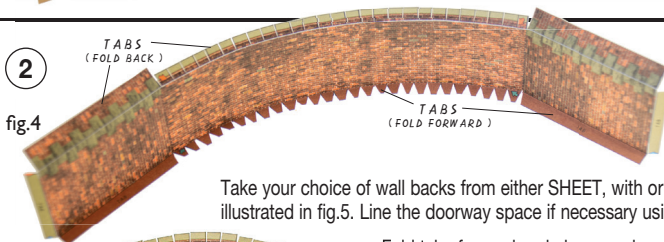
The width of SURFACE piece will determine the depth of the embankment model against a back board or scenery panel behind.



From SHEET 1 take four green corner brackets (CB) and glue into position as illustrated in fig.3, distributed along the wall setting the components at right angles.

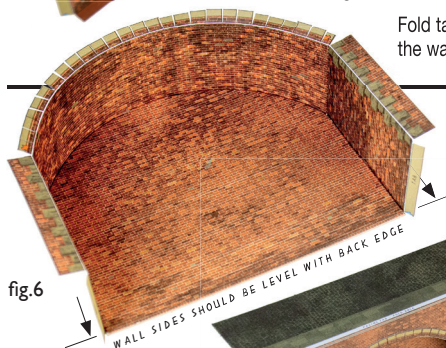
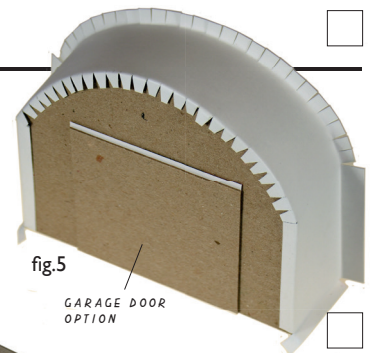


Fold back two side TABS and glue flat. From SHEET 1 take SURFACE piece (trim before fitting if necessary). Glue along underside of top TAB as shown here in fig.2. Fold back PAVING TAB and SURFACE panel.



Take your choice of wall backs from either SHEET, with or without doorway feature as illustrated in fig.5. Line the doorway space if necessary using GARAGE DOOR from SHEET 1.

Fold tabs forward and glue round curve of the back wall piece, ensuring the walls are level to the bottom edge. Repeat with next arch.



- 3** Take both assembled arches and fix in place to embankment walls as illustrated in fig.8.

- 4** From SHEET 2 take PAVING pieces and fix in place at the base of the walls across arch entrance. Fitting around the folded TABS into scored groove at the fore (fig.7).

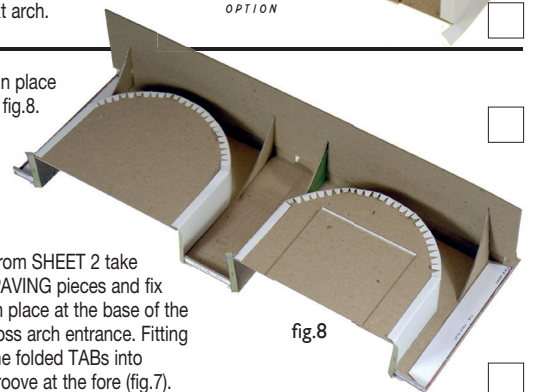
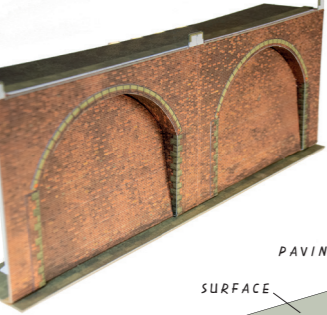


fig.7

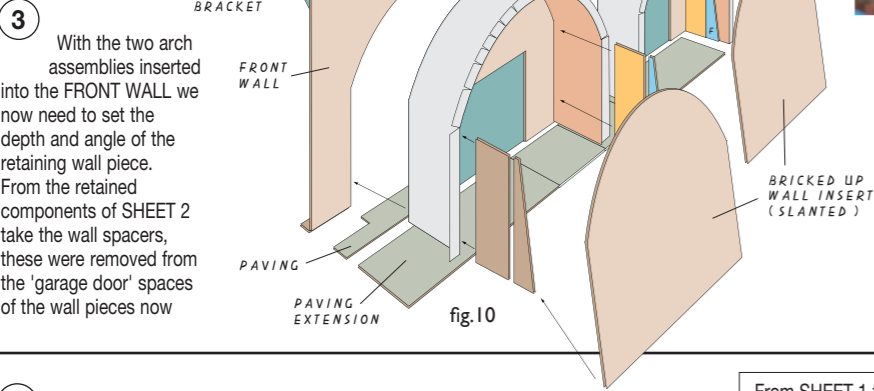
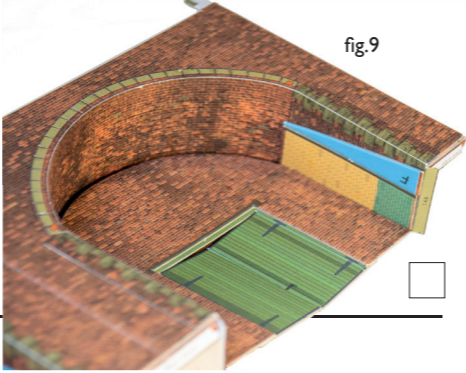
To complete kit as retaining walls with inset arches go to STAGE **5** on page 3.

SECTION 1b - CONSTRUCTION OF LOW RELIEF EMBANKMENT KIT (WITH TILTED RETAINING INFILL)



Before starting a choice has to be made on the use and appearance of the kit. This sloping bricked-up batter option is commonly used as a retaining wall or as a buttress.

To achieve this follow steps ① & ② from overleaf using the 'garage door' back wall pieces as illustrated on the right. Using the unwanted 'garage door' wall pieces to support the inside arch lining.



③ With the two arch assemblies inserted into the FRONT WALL we now need to set the depth and angle of the retaining wall piece. From the retained components of SHEET 2 take the wall spacers, these were removed from the 'garage door' spaces of the wall pieces now

being used to form the arches. Fix into position the larger of the two spacers flush with the bottom edge. Then take the blue FORMER marked F from SHEET 1 and set in place along side this former as shown in fig.9 above. Do this to either side to the arch and to both arches. From SHEET 1 take the two bricked arch wall pieces and set into place over side formers. Trim top edge if necessary to set the bottom edge flat with bottom edge of wall.

④ From SHEET 2 take PAVING piece and fix in place across arch entrances. Fitting around the folded TABs at the base of the wall columns.

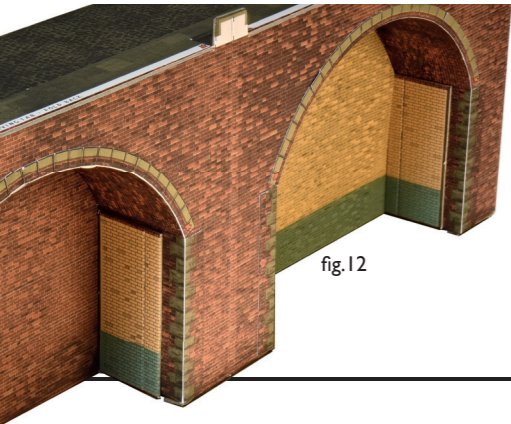
From SHEET 1 take four PAVING EXTENSION pieces as one and retain. This can be glued behind the PAVING to make assembly more rigid and stand alone or add to the paved area out front and glued at the base of the walls along leading edge of PAVING piece.

To complete kit as retaining walls with inset arches go to STAGE ⑤ on page 3.

OPTION 1c - CONSTRUCTION OF LOW RELIEF EMBANKMENT KIT (WITH BUILT UP ARCH)



Before starting a choice has to be made on the use and appearance of the kit. This built-up option can be a choice of detailed unit fronts, a solid bricked arch or a garage door option. Illustrated above is the bricked-up wall option with the additional detailing also included in the kit.



③ From SHEET 2 take PAVING piece and fix in place across arch entrances. Fitting around the folded TABs at the base of the wall columns.

BRICKED WALL OPTION
To achieve this follow steps ① & ② from overleaf using the 'garage door' back wall pieces as illustrated in fig.12 on the right. Using the unwanted 'garage door' wall pieces to support the inside arch lining.

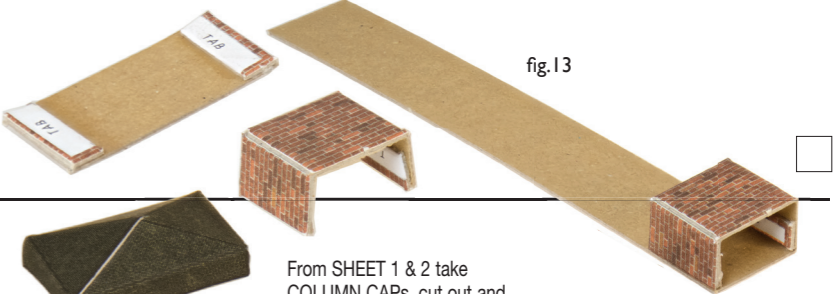
GARAGE DOOR OPTION
If garage door option is the choice for the finish, there are matching yellow brick INSERT PANELS to create a backdrop in case the door is left open. Apply the WALL INSERT PANELS from ACCESSORIES SHEET B to the bricked up wall insert pieces before forming the ARCH LINING from ACCESSORIES SHEET C

④ From SHEET 1 take four PAVING EXTENSION pieces as one and retain. This can be glued behind the PAVING to make assembly more rigid and stand alone or add to the paved area out front and glued at the base of the walls along leading edge of PAVING piece.

To complete kit as retaining walls with inset arches go to STAGE ⑤ on page 3.

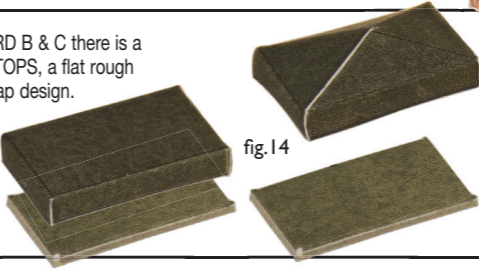
UPPER WALLS SECTION

⑤ With the arches completed the upper retaining walls can now be added. From either SHEET take a BUTTRESS piece and from SHEET 2 take the five-piece COLUMN, fold and glue flat TABs either end. To the rear of the BUTTRESS glue folded COLUMN squarely with the edges flush to one end (fig.13).



⑥ On ACCESSORIES CARD B & C there is a selection of COLUMN TOPS, a flat rough cut and a classic pier cap design.

From SHEET 1 & 2 take COLUMN CAPS, cut out and fold COLUMN TOPS where marked with red fold arrows (fig.14).



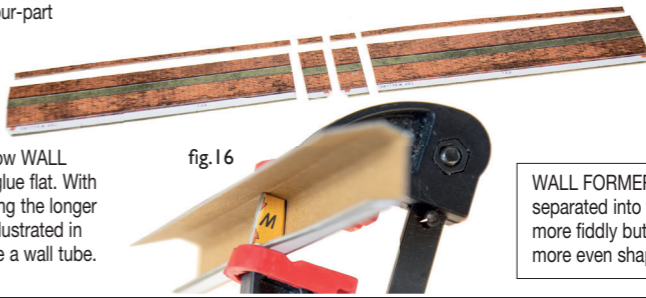
From SHEET 1 & 2 take COLUMN CAPS, cut out and fold COLUMN TOPS where marked with red fold arrows. If necessary glue TAB inside to form peak.

Top each buttress assembly with a COLUMN CAP and chosen TOP.

⑦ Glue BUTTRESS centrally and squarely into position over the central protruding tongue as shown here in fig.15. Make sure the BUTTRESS bottom edge is flush with the FRONT WALL bottom edge.



⑧ From SHEET 2 take the four-part TOP WALLING pieces complete with TAB. Remember to remove and retain the additional thin wall strip.

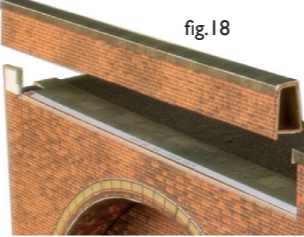


From SHEET 1 take two-part yellow WALL FORMERS marked WF, fold and glue flat. With the fold edge of the FORMER along the longer section so as to overlap TAB as illustrated in fig.16, fold and glue shut to create a wall tube.

WALL FORMERS (WF) can be separated into two formers, slightly more fiddly but spaced out will set a more even shape to the wall section.

The length of the wall pieces can be varied. Additional walling is included for extending the embankment into another to create a continuous wall or set up as a road/rail bridge.

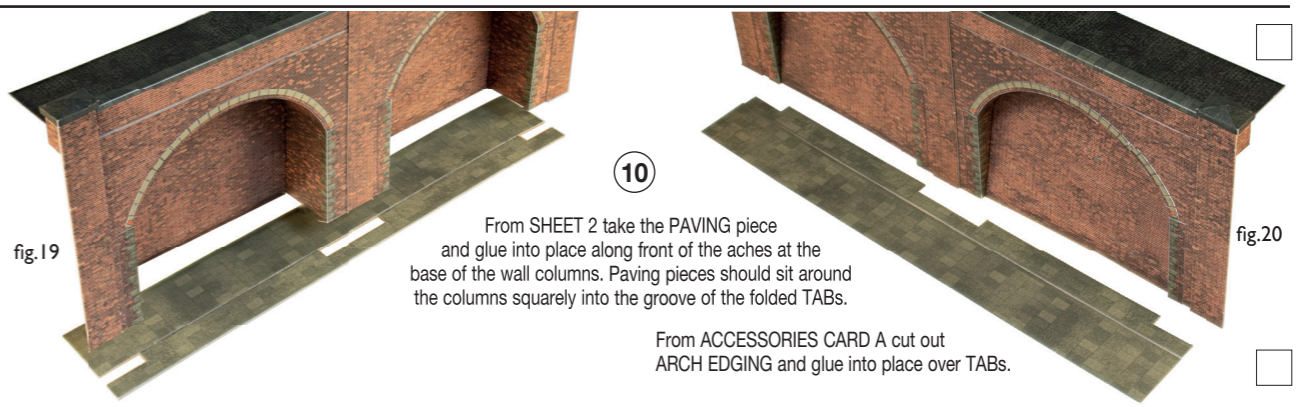
⑨ From ACCESSORIES SHEET A take WALL CAPPING, score lightly along the fold lines between the two red arrows, trim and separate into two.



With the leading edge of the TOP WALLING assemblies overlapping the edge, glue TAB-down to PAVING TAB edge of main wall assembly, either side of central BUTTRESS. Complete with end buttresses glued into position overlapping ends of wall. This overlap will enable a seamless join to another retaining wall assembly.

Using the edge of a steel rule fold CAPPING along scores and glue over TOP WALLING assemblies as illustrated and trim to finished length of wall piece.

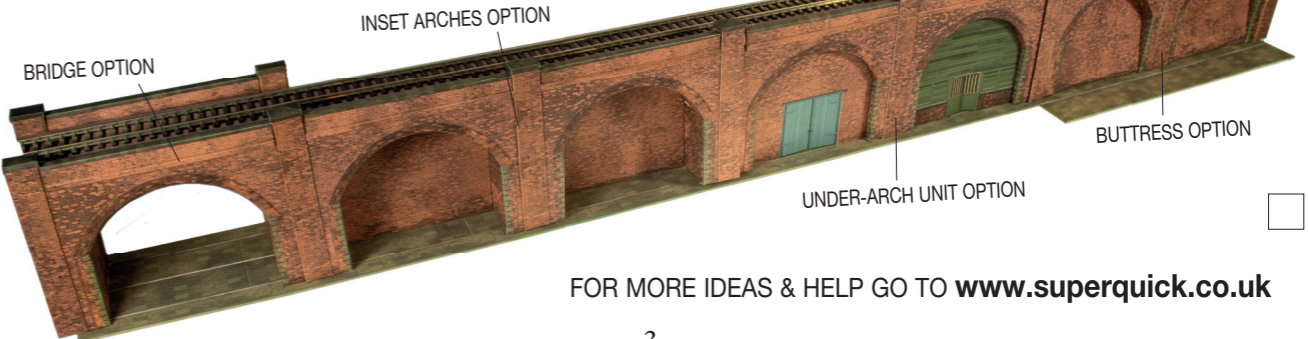
Complete top walling section by fixing squarely into place the two outer buttresses. Cover the join using the thin walling strip retained earlier.



⑩ From SHEET 2 take the PAVING piece and glue into place along front of the arches at the base of the wall columns. Paving pieces should sit around the columns squarely into the groove of the folded TABs.

From ACCESSORIES CARD A cut out ARCH EDGING and glue into place over TABs.

⑪ Finish model with watercolour paint along exposed edges and apply detailing from a wide selection of hoarding and signs to complete the look.



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OPTION 2 - CONSTRUCTION OF SINGLE TRACK ROAD / RAILWAY BRIDGE

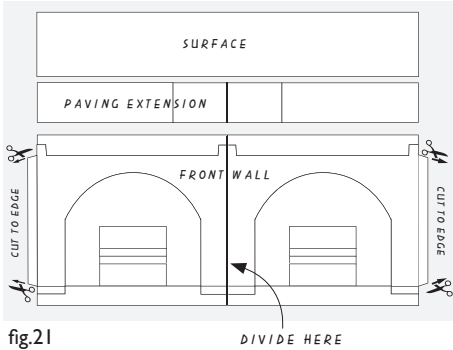


fig.21

- 1 Before starting construction of the bridge the width has to be decided. The method shown here is determined by the width of the ARCH LINING ALTERNATIVE of 72mm. - With the addition of some Superquick D01 Brick paper into the mid section, this can be extended indefinitely into a lined and faced tunnel.

Divide the two SHEETS. From SHEET 2 separate FRONT WALL complete with top PAVING TAB, two side TABs (by cutting to the edges) with all six tabs from the rest of the sheet by cutting side tabs to the edge of the sheet. (fig.21)

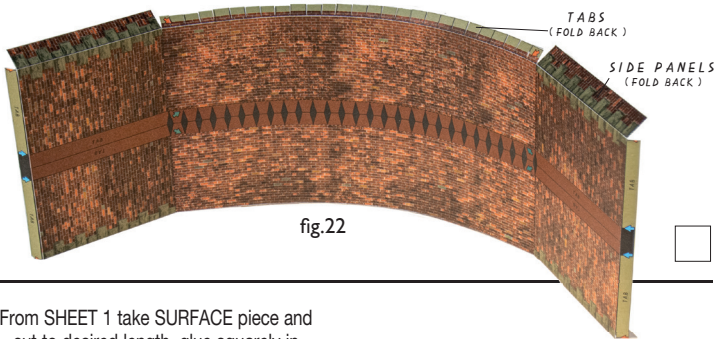


fig.22

- 2 From ACCESSORIES CARD C take the ARCH LINING ALTERNATIVE component as one piece. Cut and fold all outer TABs as illustrated in fig.22, noting just the red arrows.

- 3 Fix the lining into place with bridge outer wall by folding and glueing tabs around arch opening as illustrated in fig.23. Repeat for other wall.

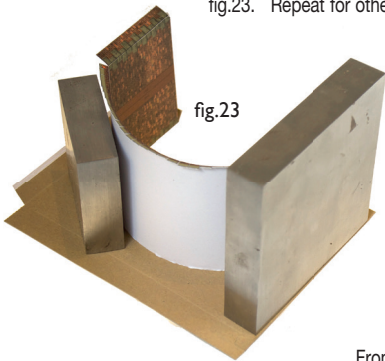


fig.23

From SHEET 1 take SURFACE piece and cut to desired length, glue squarely in place to underside of PAVING TABs

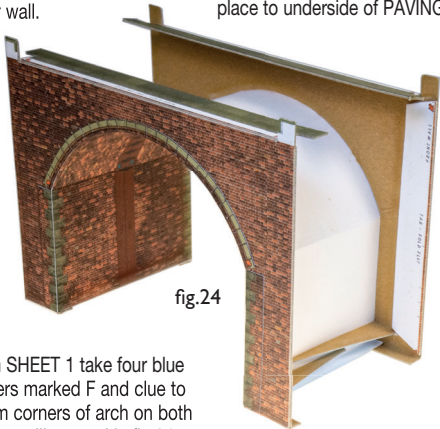


fig.24

From SHEET 1 take four blue formers marked F and glue to bottom corners of arch on both sides as illustrated in fig.24.

Fold flat and glue side TABs

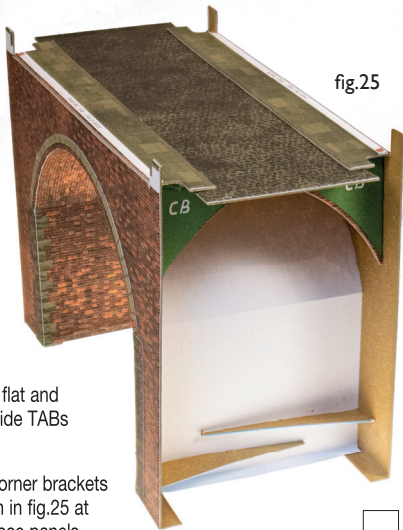


fig.25

From SHEET 1 take four green corner brackets marked CB and glue as shown in fig.25 at either end to support the surface panels.

- 4 For a paved area beneath the arches take the four-part PAVING EXTENSION from SHEET 1 and from SHEET 2 take the PAVING piece and divide both into two halves. Glue into place around bottom tabs (fig.26).

To complete kit with buttresses and top wall sections above the arches go to STAGE 5 on page 3.

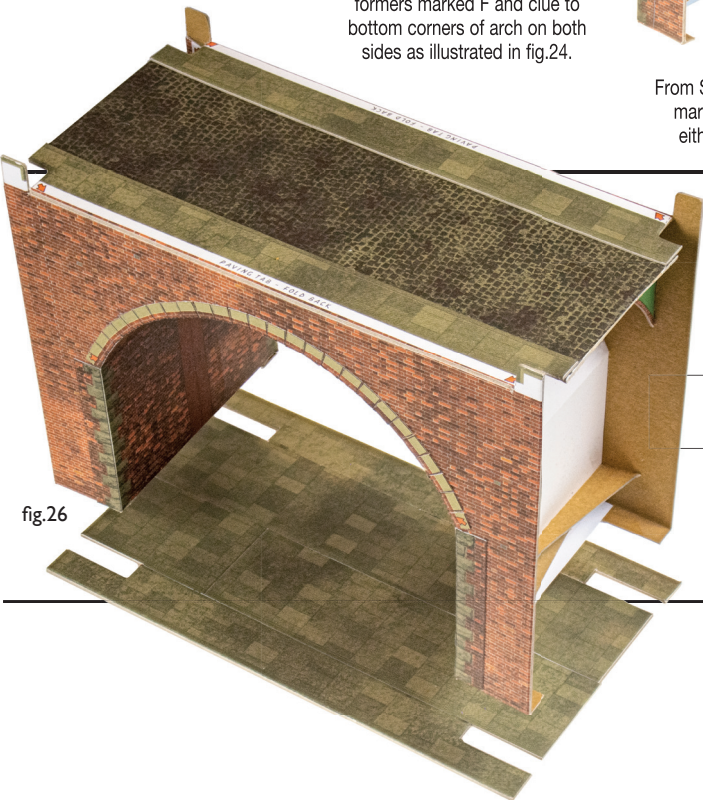


fig.26

This bridge can be adapted into a deep railway tunnel by separating or removing the top SURFACE piece and extending between the outer ARCH LINING ALTERNATIVE ends using SUPERQUICK building paper D01 sheets of Red Brick to line the tunnel space.

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