Building the ARCHED BRIDGE

Our latest specially commissioned card kit from Scalescenes.com's **JOHN WIFFEN** is this useful and flexible arched bridge which can be built as a rail under or rail over bridge. Including all the details you need to complete the bridge, John explains how it goes together.

Tools required

- ☐ Steel ruler
- ☐ Modelling knife *[Card blunts knives, replace blade regularly!]*
- ☐ Tweezers
- ☐ Glue stick *[Ideal for applying printed sheets to card]*
- ☐ 'All purpose' clear or PVA adhesive
- ☐ CA or 'super glue' *[Ideal for small elements]*
- ☐ Artist's matt spray varnish
- ☐ Felt tip pens
- ☐ Cutting mat or sheet of thick card
- ☐ Damp cloth *[To wipe glue off fingers]*
- ☐ Fine sand paper *[To smooth rough edges]*
- ☐ Small right angled square or block

For construction tips go to:
http://scalescenes.com/construction-tips-page

Assembly

- Spot or thin bead of glue
- Coat well with glue stick
- Cut along line
- Fold along line
- Lightly score and fold along line
- Apply weight
- Assembly tip

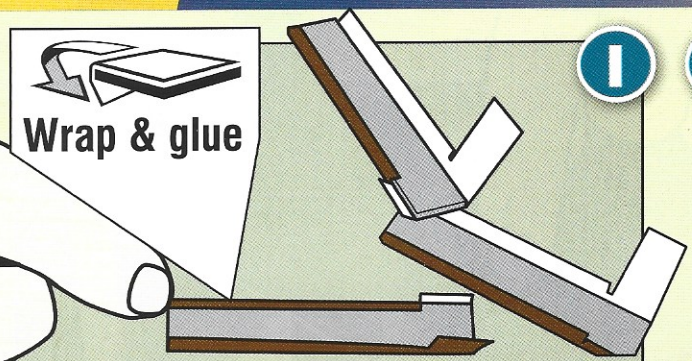
Wrap & glue — Wrap and glue printed sheet around edge

Print only — Printed sheet only required

Medium card — Glue printed sheet to:
OO approx 1mm
N approx 200gsm

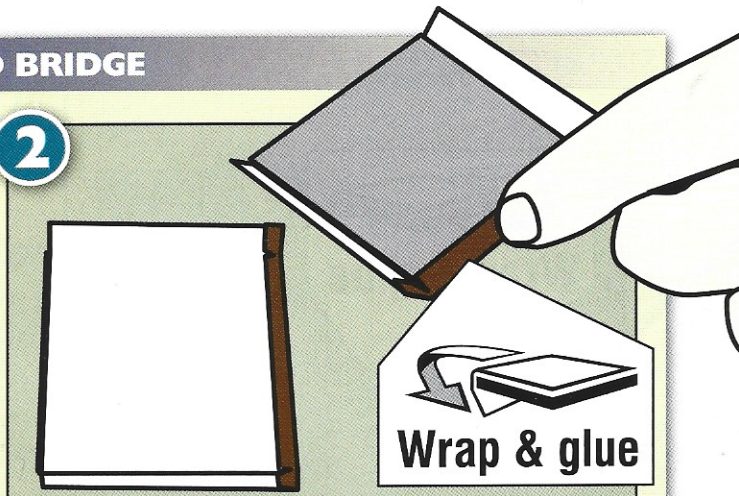
Heavy card — Glue printed sheet to:
OO approx 2mm
N approx 1mm

STEP BY STEP HOW TO BUILD THE ARCHED BRIDGE



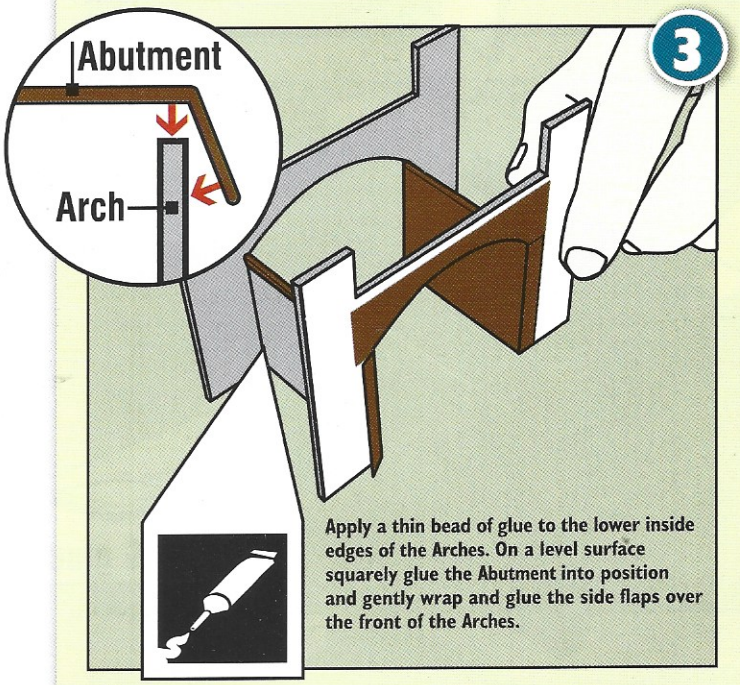
1

This kit can be built as either an over or under rail bridge. If built as a road under rail version, additional cut marks are included on the relevant base layers to form a lower bridge if preferred. Glue the sheets to Heavy or Medium weight card as labelled. Fold along the blue dotted lines and cut out the Buttress cover layers. Squarely glue the base layers into the centre of the cover layers. Check for bubbles and creases. Only apply thin beads of glue to the overhanging flaps labelled A and then gently fold them tightly around the edge of the base layers. Leave the other flaps unglued at this stage.



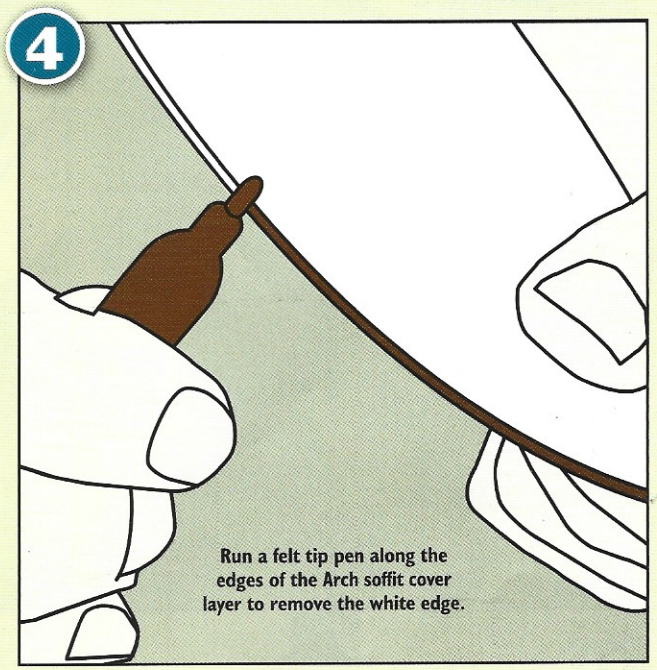
2

Fold along the blue dotted lines and cut out the Abutment cover layers. Squarely glue the base layers into the centre of the cover layers. Apply thin beads of glue to the top edge flap and gently fold them tightly around the top of the base layers. Check for bubbles and creases. Leave the side flaps unglued.



3

Apply a thin bead of glue to the lower inside edges of the Arches. On a level surface squarely glue the Abutment into position and gently wrap and glue the side flaps over the front of the Arches.

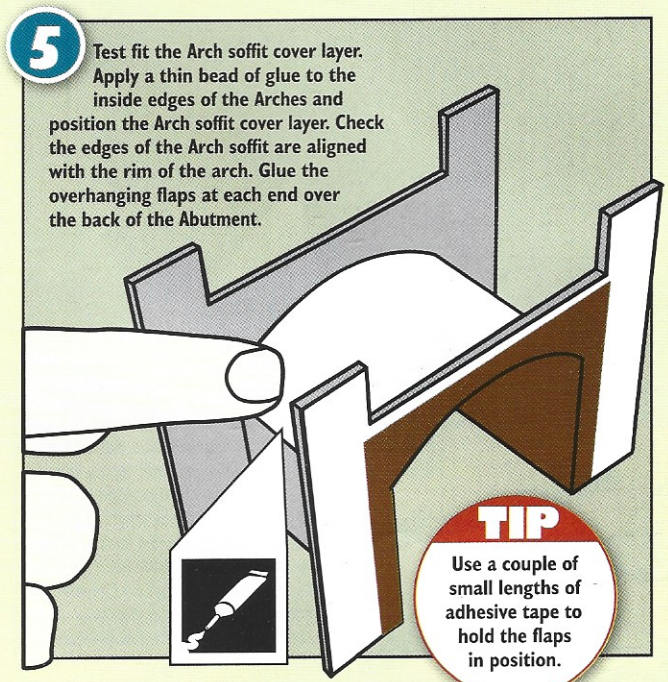


4

Run a felt tip pen along the edges of the Arch soffit cover layer to remove the white edge.

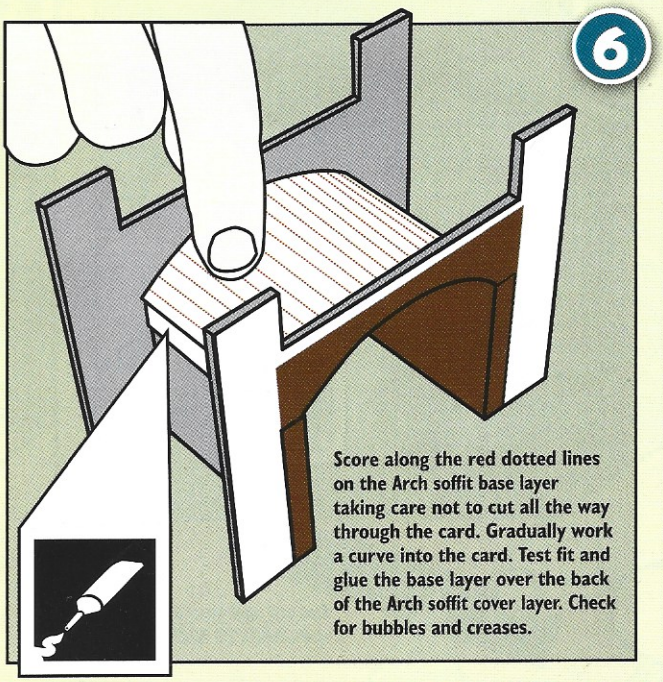
5

Test fit the Arch soffit cover layer. Apply a thin bead of glue to the inside edges of the Arches and position the Arch soffit cover layer. Check the edges of the Arch soffit are aligned with the rim of the arch. Glue the overhanging flaps at each end over the back of the Abutment.



TIP

Use a couple of small lengths of adhesive tape to hold the flaps in position.

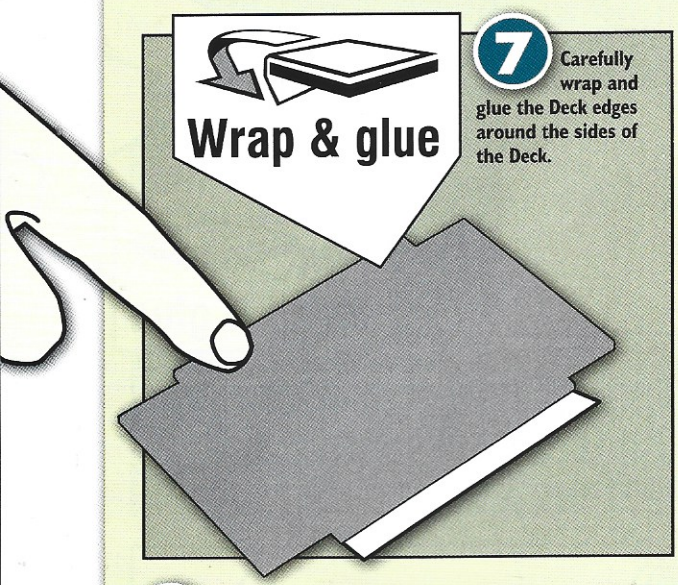


6

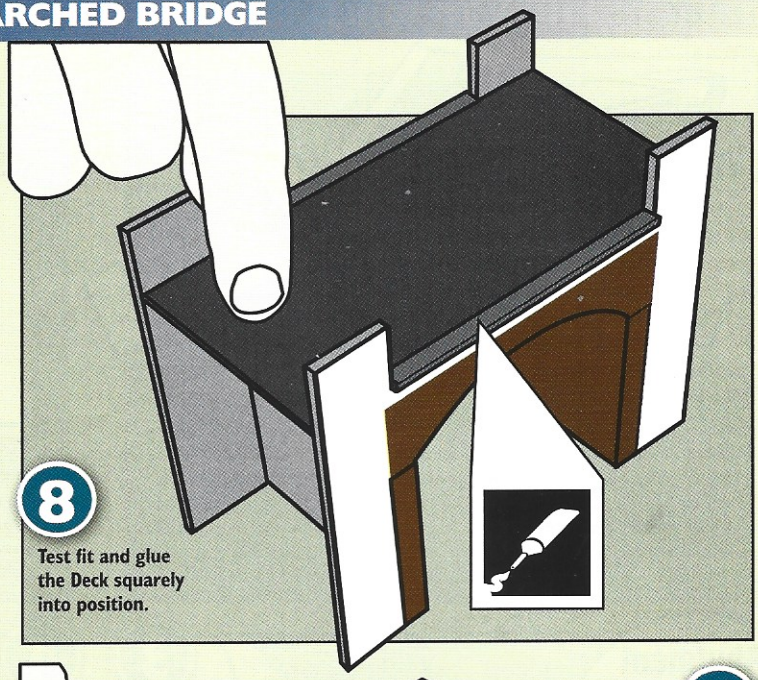
Score along the red dotted lines on the Arch soffit base layer taking care not to cut all the way through the card. Gradually work a curve into the card. Test fit and glue the base layer over the back of the Arch soffit cover layer. Check for bubbles and creases.

PLEASE TURN THE PAGE FOR STEPS 7-16

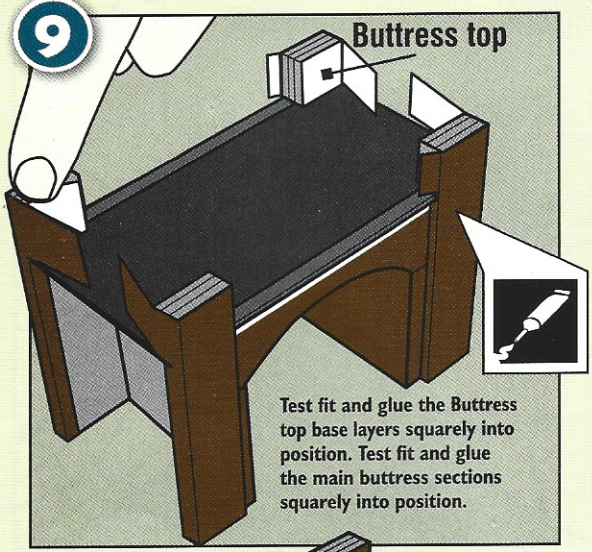
STEP BY STEP HOW TO BUILD THE ARCHED BRIDGE



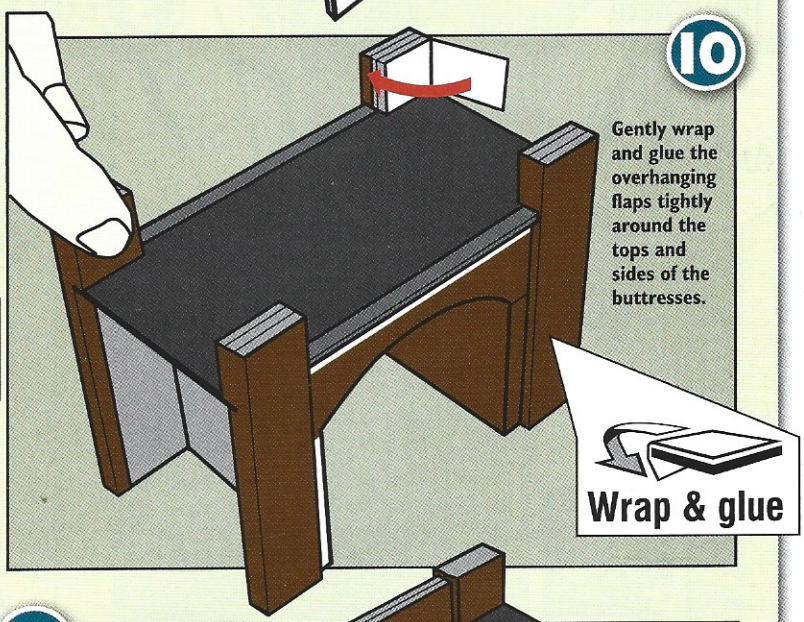
7 Carefully wrap and glue the Deck edges around the sides of the Deck.



8 Test fit and glue the Deck squarely into position.

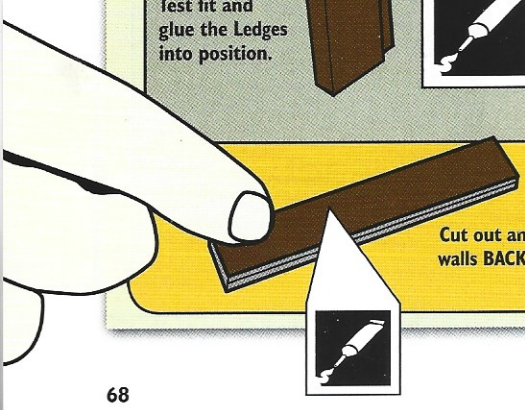


9 Test fit and glue the Buttress top base layers squarely into position. Test fit and glue the main buttress sections squarely into position.

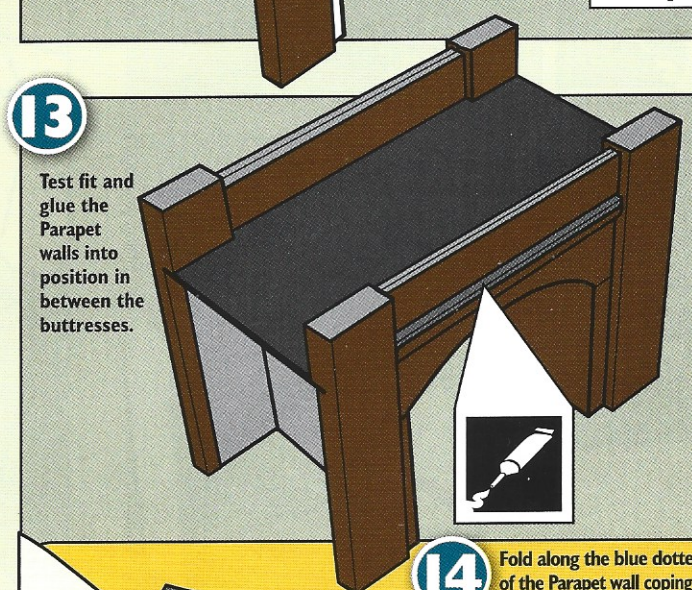


10 Gently wrap and glue the overhanging flaps tightly around the tops and sides of the buttresses.

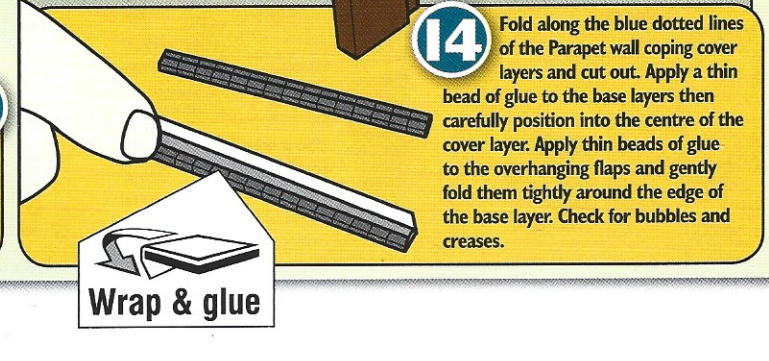
11 Test fit and glue the Ledges into position.



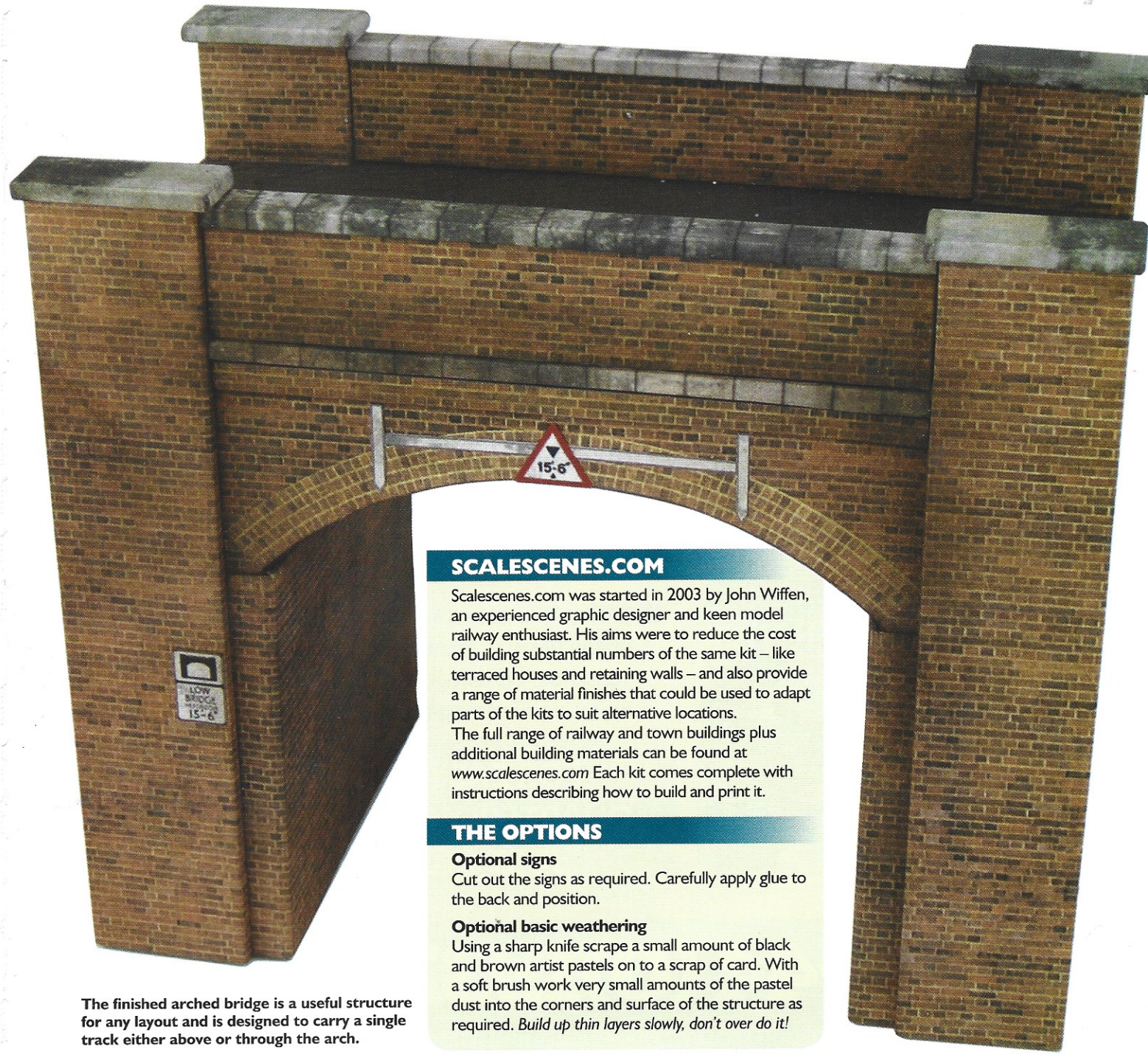
12 Cut out and glue the Parapet walls BACK TO BACK (printed side out).



13 Test fit and glue the Parapet walls into position in between the buttresses.



14 Fold along the blue dotted lines of the Parapet wall coping cover layers and cut out. Apply a thin bead of glue to the base layers then carefully position into the centre of the cover layer. Apply thin beads of glue to the overhanging flaps and gently fold them tightly around the edge of the base layer. Check for bubbles and creases.



The finished arched bridge is a useful structure for any layout and is designed to carry a single track either above or through the arch.

SCALESCENES.COM

Scalescenes.com was started in 2003 by John Wiffen, an experienced graphic designer and keen model railway enthusiast. His aims were to reduce the cost of building substantial numbers of the same kit – like terraced houses and retaining walls – and also provide a range of material finishes that could be used to adapt parts of the kits to suit alternative locations.
The full range of railway and town buildings plus additional building materials can be found at *www.scalescenes.com* Each kit comes complete with instructions describing how to build and print it.

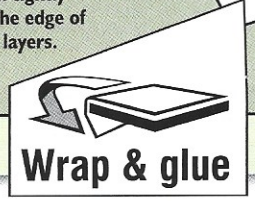
THE OPTIONS

Optional signs
Cut out the signs as required. Carefully apply glue to the back and position.

Optional basic weathering
Using a sharp knife scrape a small amount of black and brown artist pastels on to a scrap of card. With a soft brush work very small amounts of the pastel dust into the corners and surface of the structure as required. *Build up thin layers slowly, don't over do it!*

15

Glue the Buttress capping base layer squarely into the centre of the back of the cover layer. Apply thin beads of glue to the overhanging flaps and gently fold them tightly around the edge of the base layers.



16

Test fit and glue the Parapet wall coping into position along the top of the Parapet wall. Glue and position the Buttress capping squarely to the top of the buttresses. Allow an even overhang on all sides.