

PN951 N Scale Manor Farm Buildings

CHECK LIST

This kit should contain the following:

- 2 x PRINTED SHEET. Kit parts.
- 1 x GREY SHEET. Strengtheners parts
- 1 x FROSTED GLAZING sheet.
- 1 x INSTRUCTION BOOKLET.

READ THROUGH ALL THE INSTRUCTIONS BEFORE YOU START.

This is a complex kit that requires particular attention to detail, so proceed with care!

To construct this kit you will need the following:

1. A modellers knife.
2. A pair of sharp scissors.
3. A steel ruler.
4. Glue - See glues.
5. Ultra Fine Tip Glue Applicator, see below.
6. A cutting surface - a sheet of card or cutting mat.
7. Fine point tweezers.
8. Water colour paints and a very fine brush for painting edges and corners.

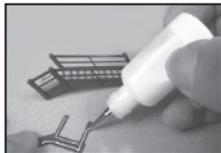
METCALFE

Ultra Fine Glue Tip Bottles.

These bottles are essential for gluing the smaller components in this kit.



Tiny strips and spots of glue can be accurately laid down with precision.



INSTRUCTIONS

GLUES

UHU Solvent Free All Purpose Adhesive Glue

Works superbly well in our fine glue applicators. Dries quickly, but allows time for positioning of kit parts as described further on in the instructions.

Also Deluxe Materials 'SPEEDBOND'
A fast drying PVA.
see www.deluxematerials.com

GETTING STARTED

1 EXTRACTING COMPONENTS FROM THE BASE SHEETS.

To stop the components from falling off the sheets, they are held secure with score lines. These are cuts that only go 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. These score lines are marked with blue arrows: WARNING, Cut with care using a knife that is not too sharp, this will reduce the risk of the blade running off the score and cutting the components.

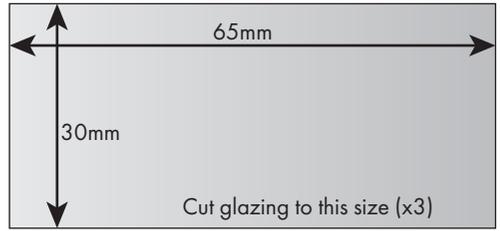
2 MAKE YOUR 'BUILDERS YARD'.

As you extract the components from the base sheets they need to be kept away from your working area on a thick piece of card or a tray until needed. Keep the components organised to which building they belong to.



3 WINDOW GLAZING

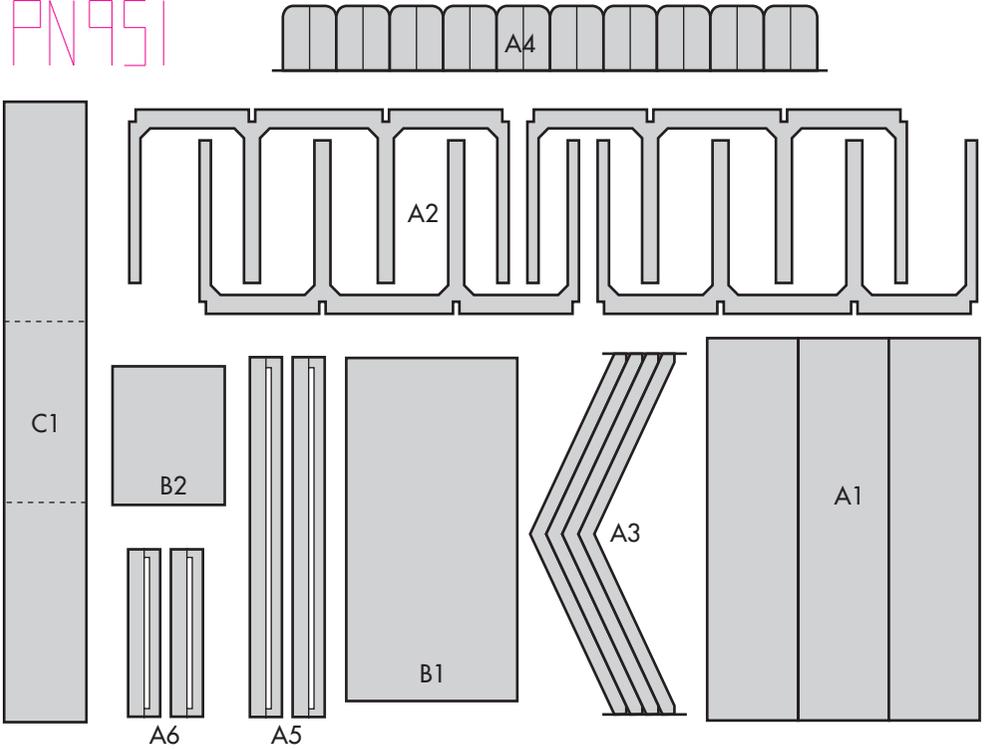
The kit contains a frosted glazing sheet that is approximately 110mm by 80mm. You need to cut this into three sections that measure 30mm by 65mm



4 STRENGTHENERS.

To help identify with strengtheners go with each building below is a key to the components.

PN951



A1 - Raised Floors x3
A2 - Truss Supports x4
A3 - Trusses x 4
A4 - Cubicle Walls x20
A5 - Long Door Runners x2
A6 - Short Door Runners x2

B1 - Large Hen Hut Base
B2 - Small Hen Hut Base

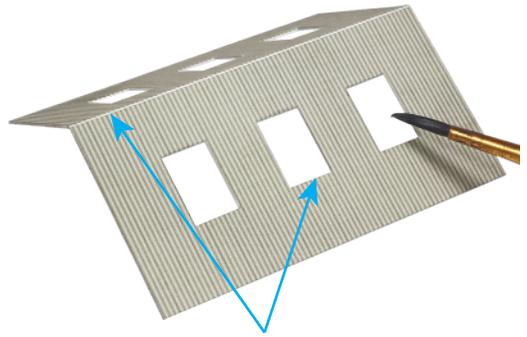
C1 - Silo Pit Walls

5 PAINTING THE EDGES

The white card that shows on the corners and edges is best painted before you build the kit.

All you need is a simple set of water colour paints and a fine brush.

Something like this set of 'Reeves' watercolours or even simple child's watercolours.



Paint all exposed edges, window frames, roof ridge as well as the wall edges..

Mix your colour with lots and lots of water, apx. 1 part paint to 5 parts water or more. TEST ON WASTE CARD FIRST UNTIL YOU HAVE THE CORRECT SHADE & COLOUR.

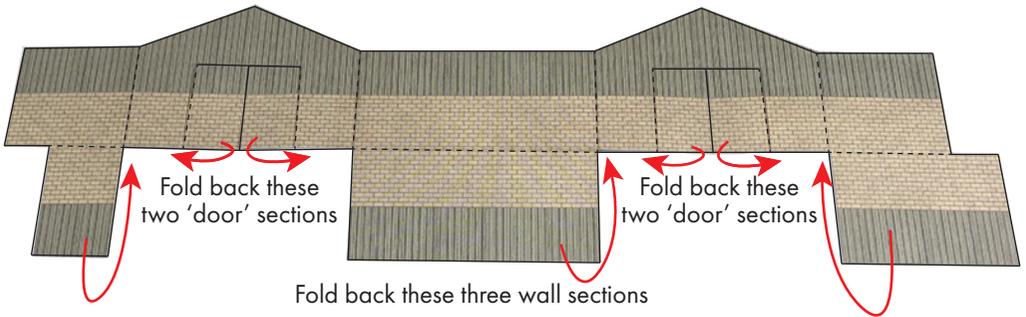
Fold the edges of the card back fully and gently run the point of your brush along the exposed white card. Only tiny amounts of paint on your brush. It's better to have to go over it a few times than to flood it with paint. Before the paint dries, run your finger along the edge to rub the colour into the absorbent white card. Then wipe away any paint that has run onto the printed surface before it dries.

Remember, you only need to just slightly tint the card with a little colour. DON'T paint a thick solid line down the edges, you will only make it look worse.

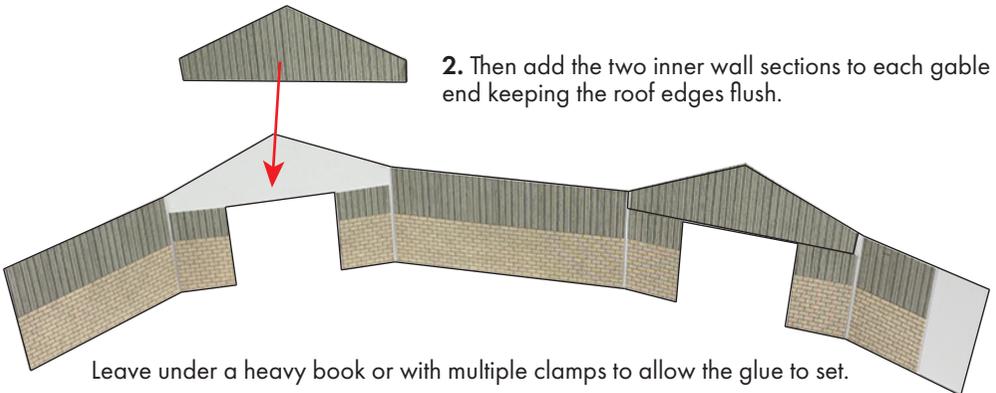
LETS START TO BUILD!

Fig.1. MAIN BARN

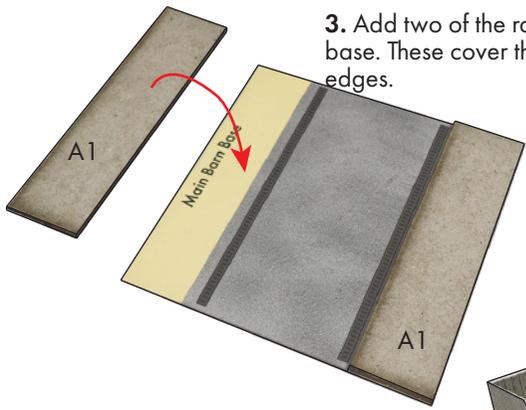
1. The main walls have inner sections that need to be folded fully back to make a double thick wall.



2. Then add the two inner wall sections to each gable end keeping the roof edges flush.

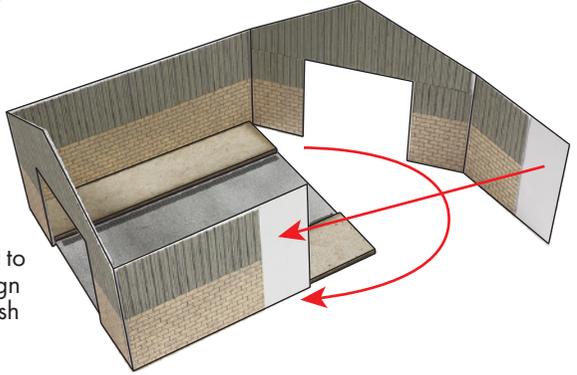


Leave under a heavy book or with multiple clamps to allow the glue to set.

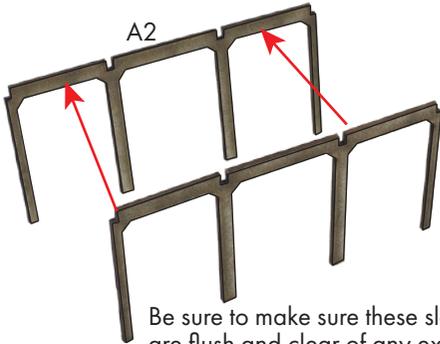


3. Add two of the raised floors (A1) to both sides of the main barn base. These cover the yellow sections and keep flush to the side edges.

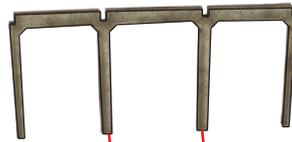
4. Now wrap the barn walls around the base. Joining the walls with the overlapping sections.



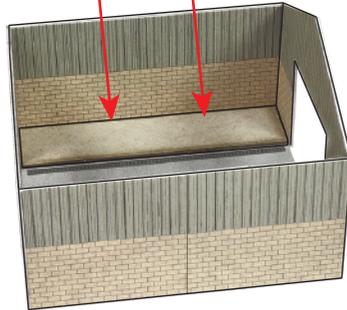
5. Next the four truss supports (A2). You need to make two double thick supports. Carefully align two supports and glue together. Repeat to finish with a pair of supports two card layers thick.



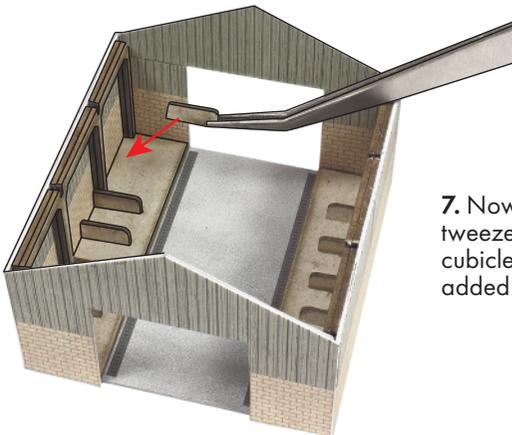
Be sure to make sure these slots are flush and clear of any excess card. They need to be clear so the trusses can easily slot into them.



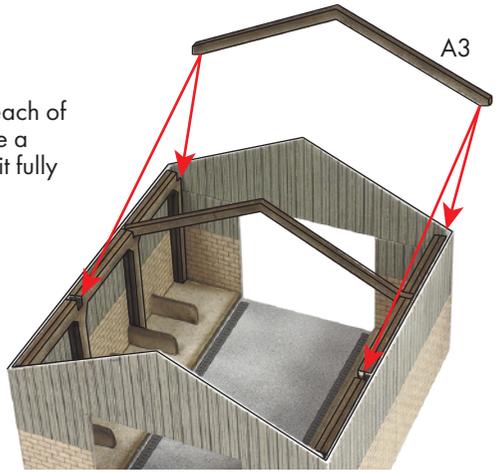
6. Slot the supports along each of the side walls and glue into place.



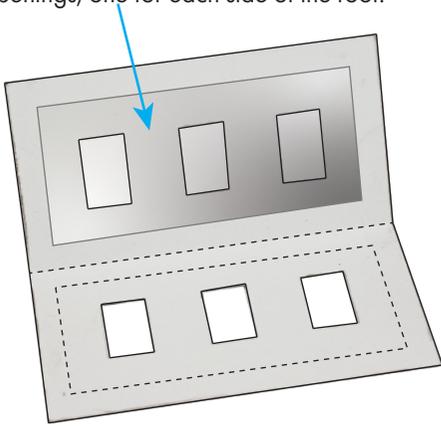
7. Now, this is a bit fiddly and will need tweezers, but this is the best time to add the cow cubicle walls (A4). In this build six walls are added along each wall.



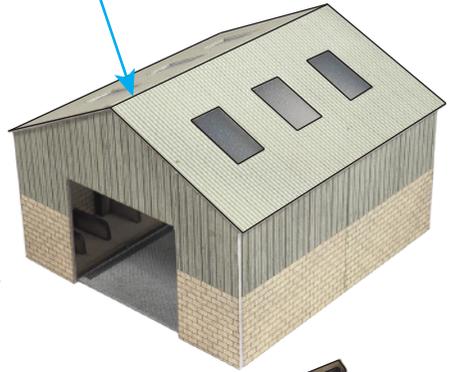
8. Then add the four trusses (A3), one in each of the slots along the side supports. These are a snug fit so take care and make sure they sit fully into the slot.



9. Now add the frosted glazing to the underside of the roof (cut to 30mm by 65mm) centre the glazing over the window openings, one for each side of the roof.



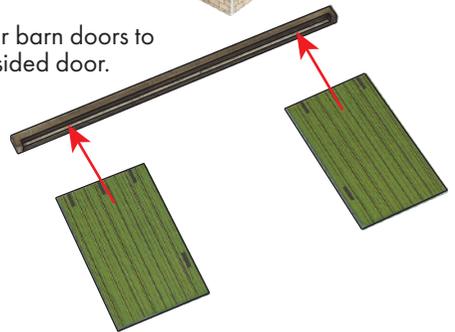
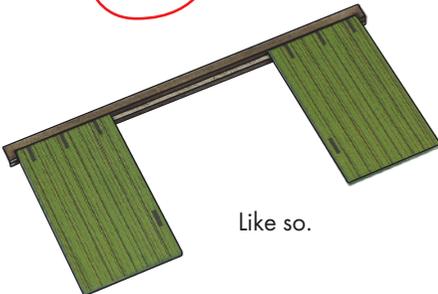
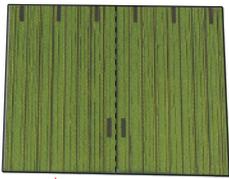
10. Then add the roof to the build. keeping an even overhang at each gable end.



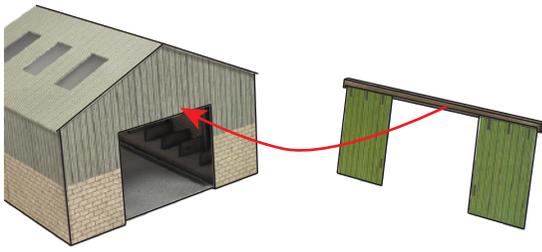
11. Take the two long door runners (A5) note the tiny scores at each end (marked in red opposite), gently fold back fully to create a section two layers thick with a slot the length of the runner - this is where the doors slot into.



Fold back the four barn doors to create a double sided door.



12. Decide if you'd like the doors open or closed and glue the tops of the doors into the slot on the runner. If you want the doors closed carefully work out the centre on the runner before applying glue. Repeat for the opposite door.

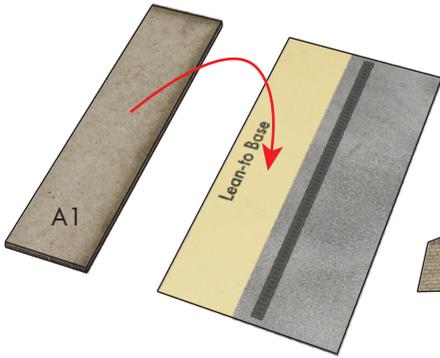


13. Now add the runner/doors to each gable end of the barn, centre the runner - they are slightly shorter than the width of the gable end.

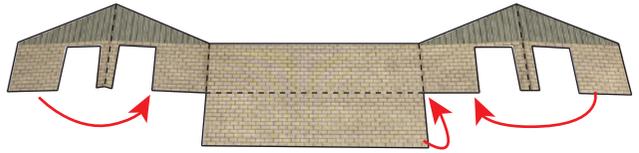


Like so.

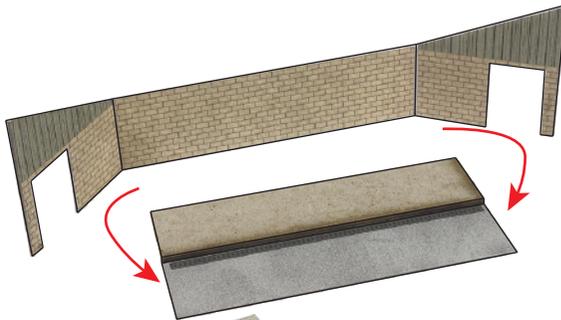
Fig.2. LEAN-TO



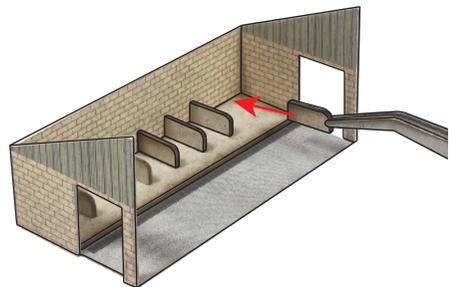
14. The lean-to goes together in same way as the main barn. Add the last raised floor (A1) to the yellow section on the lean-to base, keeping those edges flush.



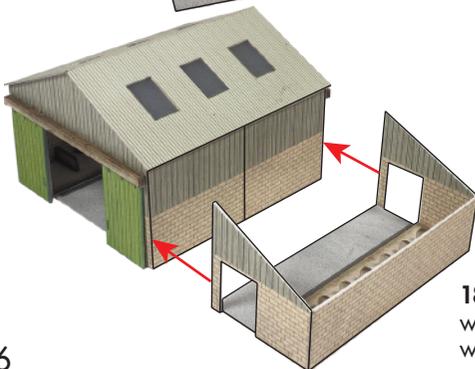
15. Fold back the two gable wall and the side wall sections to create double sided walls.



16. Wrap the lean-to walls around the base

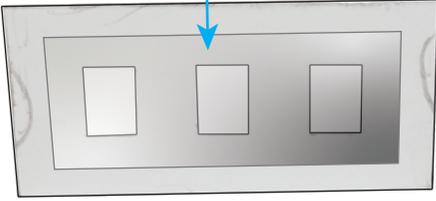


17. Now add the cow cubicle walls (A4), this time seven walls have been glued into place.

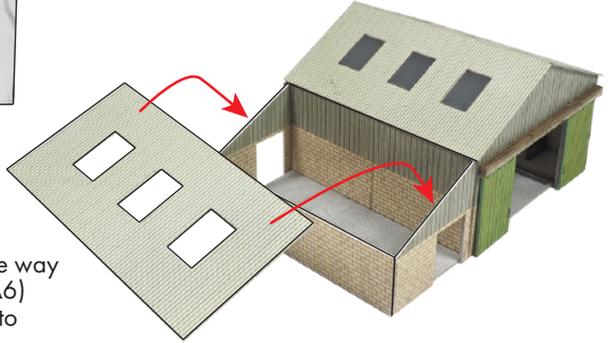


18. Now fix the lean-to to the main barn. Pick the side with the wall join - to cover said join. Keep the gable walls flush and allow the glue time to set.

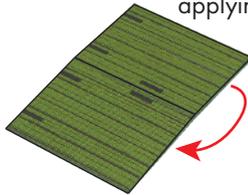
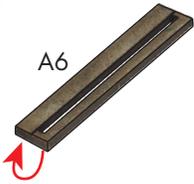
19. Add the last piece of window glazing to the underside of the lean-to roof.



20. Then add the roof to the lean-to, this will slide underneath the slight overhang of the main barn roof.



21. The lean-to doors go together the same way as the main doors. Fold back the runner (A6) and slot into place the double-sided lean-to door



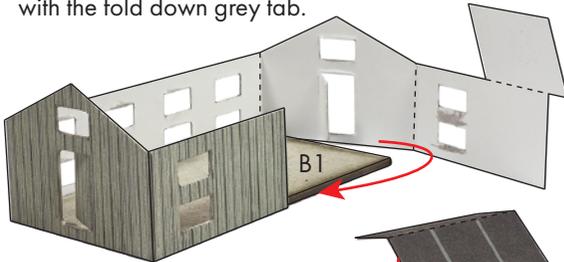
Just one door on each runner this time! Again decide on it being open or closed before applying glue.



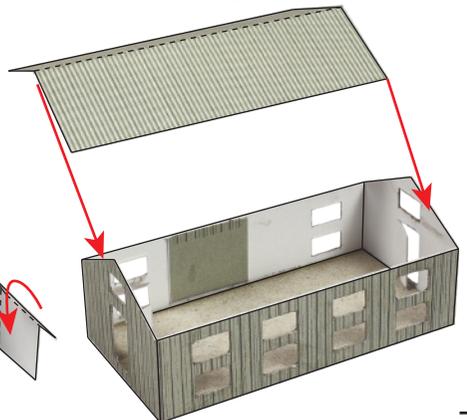
22. Then fix the door and runner above the lean-to doorway.

Fig.3. HEN HUTS

23. These go together very simply and quickly. Fold the main walls around the base (B1) joining the walls together with the fold down grey tab.



24. Then add the roof, keeping an even overhang at each gable end.



25. The small hen hut goes together the same way, wrap the walls around the base (B2), join with the tab and add the roof.

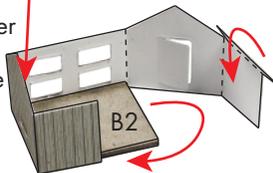
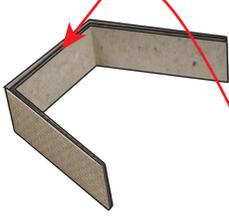
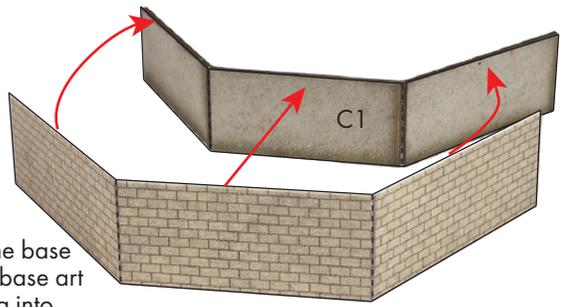
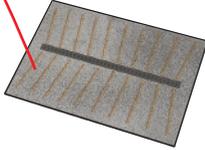


Fig.4. SILO PIT

26. Add the silo wall strengthener (C1) to the silo outer walls, align so the walls are in a U shape, and keep the end and bottom edges flush. The strengthener is slightly lower than the outer wall. This creates a ridge that the base will slot into.

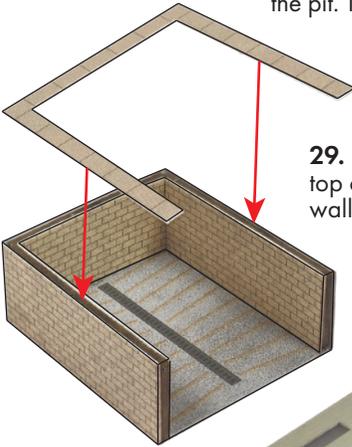


Note: The ridge is at the base of the wall. So flip the base art side down when gluing into place.



27. Add the base, fitting flush into the ridge created by the strengthener allowing the outer walls to extend over the edge of the base.

28. Now slot in the inner wall sections. The smaller section gets added first to the back of the pit. Then the two side sections.



29. Lastly add the wall top capping to the walls.

