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PB3A(BL) Pro Build Shed Kit 3A (For the PB3B shed kit, work up to Figure 15 only)

Thank you for purchasing one of our Pro Build Kits. Please check your kit contains the following:

- 1 x Rear gable end
- 3 x A frames
- 2 x Pre stressed concrete wall panels for rear gable end (these have radius corners and a rebate on the edge)
- 6 x Prestressed concrete wall panels for the side walls (square edged with no rebate)
- 2 x Yorkshire boarding panels 290mm wide x 98mm high (for side walls)
- 2 x Yorkshire boarding panels 142 mm wide x 98mm high (for side wall)
- 1 x Yorkshire boarding panel for rear gable end

- 12 x Wall cladding rails (145mm) – for end bays only
- 6 x Wall cladding rails (142mm) – for middle bays only

- 20 x Roof purlins (145mm) – for end bays only
- 10 x Roof purlins (142mm) – for middle bays only

- 1 x Base

(Wall Cladding Rail)



(Roof Purlin)



Before you start we recommend setting up a jig to make sure your build is straight and square – in Figure 1 you will see I have used a flat piece of board (approx 600mm x 450mm) and on that I have glued a second piece (approx 400mm x 180mm). Your jig and work surface must be 100% level as any unevenness will affect the quality of the build and may make the latter stages of your construction impossible (this is down to the fine tolerances the components are machined to).

Figure 1



The tools you will need are:

- 1) Super Shed Glue
- 2) A sharp craft knife with a new blade
- 3) An old tooth brush!
- 4) Carpenters square
- 5) Plenty of patience

Construction stage 1:



Figure 2

Carefully cut out the roof purlins and wall cladding rails from the matrix using your craft knife (Figure 2). Remove any small pieces of debris on the edges using your tooth brush (do not use sand paper – too harsh). Remember you have 2 different sizes of each, the 145mm purlins and cladding rails are for the end bays and the 142mm purlins and cladding rails are for the middle bays. **Important: DO NOT MIX UP the two sizes or types or you will RUIN your construction.**

Figure 3

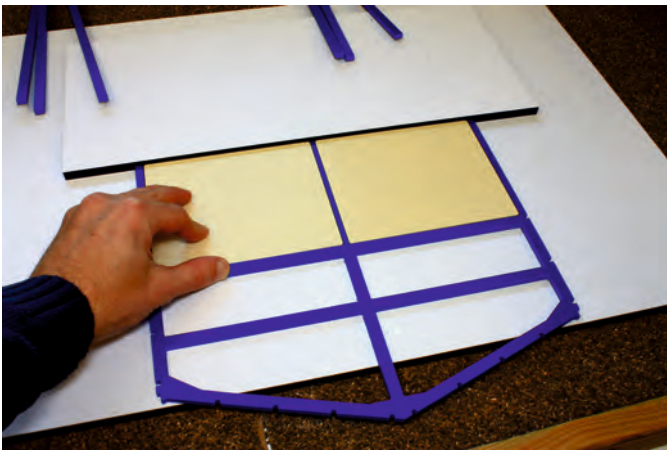
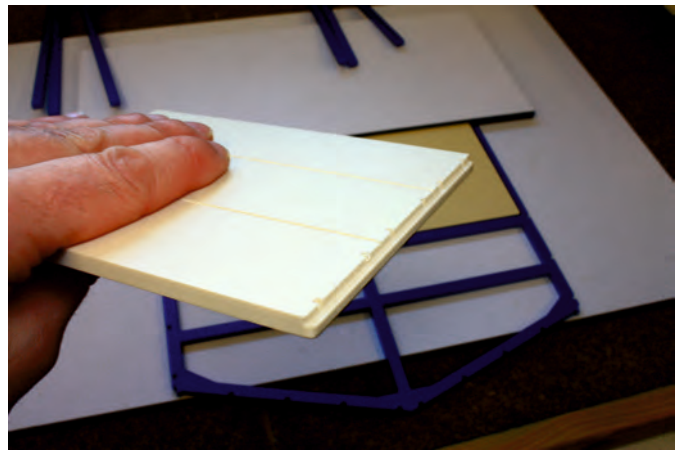


Figure 4

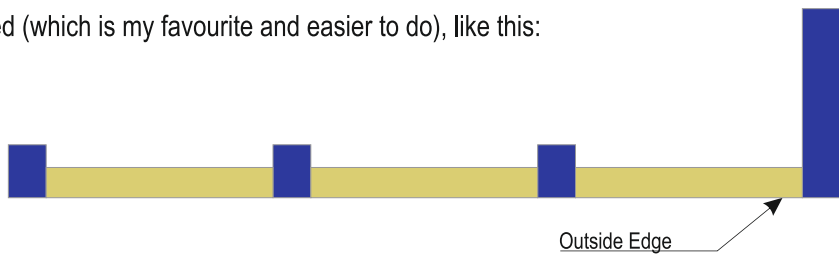


Lay the rear gable end down flat on your work surface, offer up the 2 x prestressed concrete wall panels making sure you are using the panels that have the rebate along the ends and small radius corners (shown in Figure 4 above). This rebate and radius makes for a very snug and tidy fit within the recessed lower areas of the gable ends and makes the walls flush both on the inside and outside of your shed. Lay a thin line of glue within the recessed area of the gable ends and position the panels into place. Make sure they are square and level with the bottom edge of the wall and hold tight for 10 seconds for the glue to bite. Leave for 5 minutes for the glue to set.

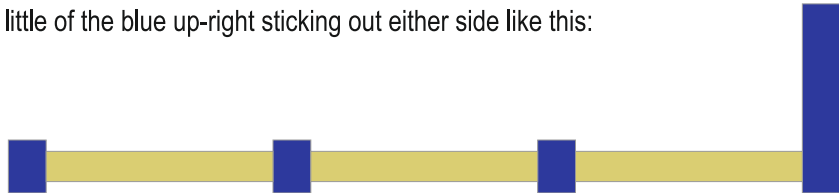
Your next stage is to construct the side walls of your shed. Take your 3 x internal A-frames and 6 x prestressed concrete wall panels for side walls (these are square edged and have no rebate).

Before you start to glue your prestressed concrete wall panels into place you need to decide how you want them to line up with the uprights of the A-frames and Gable ends. Just like the real thing you can either:

- 1) Make them flush to the outside of the shed (which is my favourite and easier to do), like this:



- 2) OR make them central, so you can see a little of the blue up-right sticking out either side like this:



IMPORTANT: WHICH EVER WAY YOU DECIDE YOU MUST BE CONSISTENT AND ACCURATE WITH YOUR GLUING ALL THE WAY ALONG THE WALL, OTHERWISE YOUR WALL CLADDING RAILS AND ROOF PURLINS WILL ALL BE OUT OF LINE LATER ON.

PLEASE NOTE: MAKE SURE YOUR PRESTRESSED WALL PANELS ARE FACING THE RIGHT WAY SO THAT YOU CAN SEE THE CHANNEL DETAIL FROM THE OUTSIDE OF THE SHED – OTHERWISE YOUR SHED WILL LOOK INSIDE OUT!

Using your jig, position 1 x rear gable end wall as you see in Figure 5 and offer up one of the side wall concrete wall panels, apply a thin line of glue to the end of the wall and hold against the corner of the gable end making sure your construction is square and upright. Hold for 10 seconds and let go. Do the same with other side as to see in Figure 6 below.

Figure 5



Figure 6

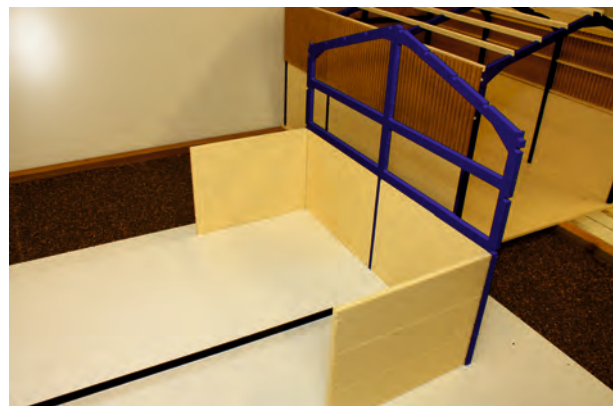
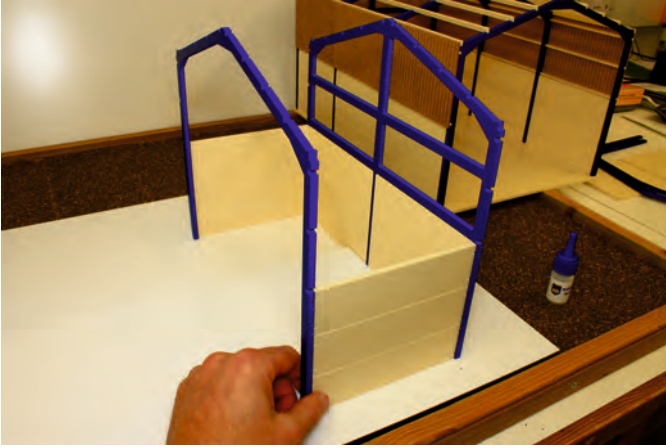


Figure 7a



Using your jig, offer the up the first internal A Frame as you see in Figure 7a and carefully glue it to the side wall panels – use your jig to make sure the construction is square and the uprights of the A frame and gable end are in-line.

Tip: glue one side wall at a time, the A Frame is flexible enough for you to do this and lets you concentrate on getting a square and upright construction.

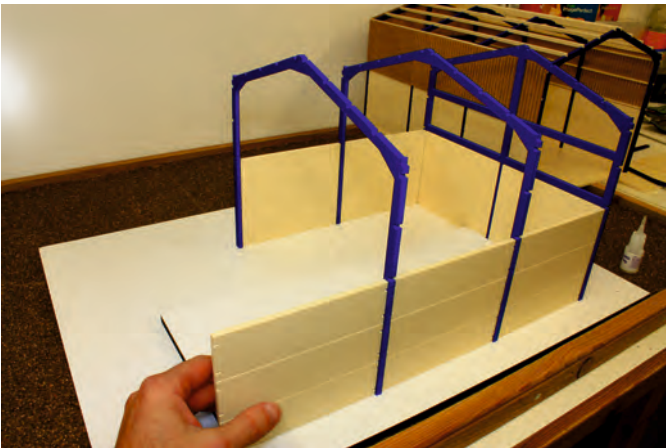
Figure 7b



Figure 7c



Figure 8



Repeat the process as you see in Figure 8, 9 & 10. Leave for 10 minutes for the glue to set.

IMPORTANT: IF YOUR CONSTRUCTION IS NOT SQUARE, UPRIGHT AND IN-LINE YOUR ROOF PURLINS AND CLADDING RAILS WILL NOT FIT CORRECTLY AND YOU MAY RUIN YOUR SHED – SO TAKE YOUR TIME!!

Figure 9

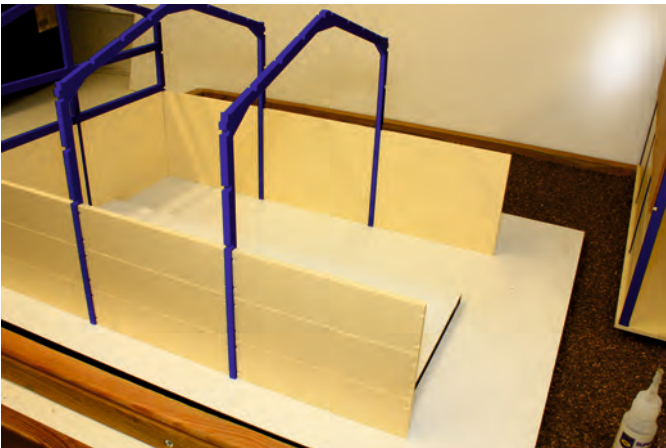


Figure 10

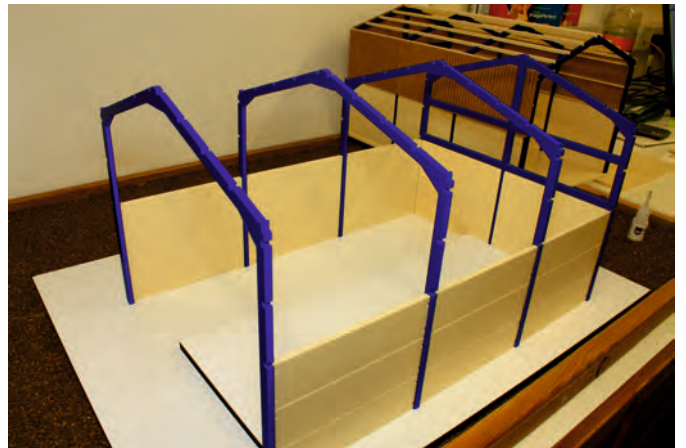




Figure 11

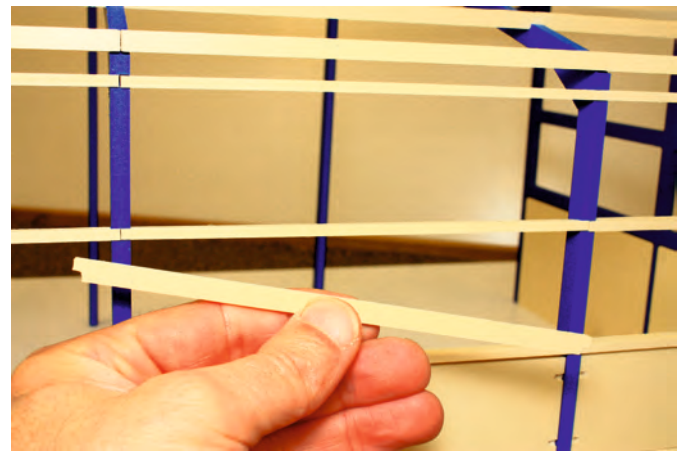


Figure 12

The next stage is to glue your wall cladding rails to your side walls. Carefully separate the END cladding rails (as you see in Figure 11) 145mm long from your MIDDLE BAY cladding rails (as you see in Figure 12) which are 142mm long and leave them in 2 separate piles.

Important: the END cladding rails have a larger cut-out to one end only – and this end of the cladding rail must be located into the GABLE END/FRONT A FRAME UPRIGHTS ONLY.

Each bay takes 3 wall cladding rails starting from the top of your prestressed concrete wall panel sections working upwards.

Do a DRY RUN first without using any glue, and carefully position the wall cladding rails starting from either end of the shed – you will see they will 'click' into place and make the back wall flush ready to accept the Yorkshire boarding later on. Once you are sure you have the right pieces in the right place, working from one end, apply small blobs of glue to each end of the wall cladding rails and locate into the uprights, hold each one for 5 seconds until the glue bites. Once all done leave your construction for 10 minutes for the glue to cure.

Now you are ready for roof purlins. . Carefully separate the END roof purlins (as you see in Figure 13) 145mm long from your MIDDLE BAY roof purlins (as you see in Figure 14) which are 142mm long) and leave them in 2 separate piles. Put a post-it note on each pile so you don't make a mistake during construction, label them END and MIDDLE – you will thank me for giving you that advice!

Figure 13



Figure 14



Do a DRY RUN first without using any glue, so you get used to how the purlins will sit on the A-frames and gable ends. You must make sure the 145mm purlins are used for the end bays only and the 142mm purlins are used for the middle bays OTHERWISE YOU WILL RUIN YOUR SHED.

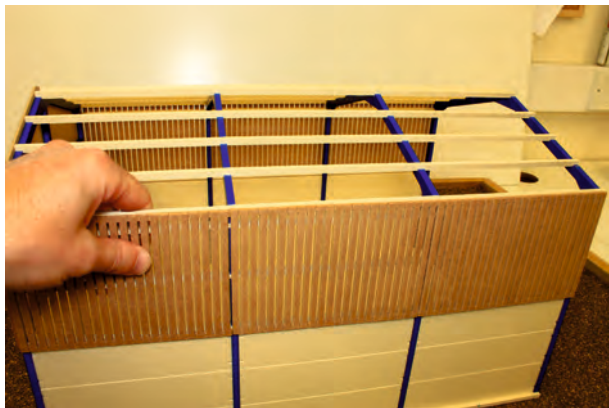
When happy with the above, start from one end and apply a small bob of glue to each end of your 145mm purlins position into place. You must make sure the purlin is 100% flush with the outside of the gable end/front A frame and sits perfectly in the middle of the internal A-frames. Repeat for the whole bay working your way from one side of the shed to the other. The only really fiddly-bit is the purlin that sits at the top of the side walls – when gluing into place carefully push against the gable end /A-frame so the purlin sits flush – very important when you go to attach the Yorkshire boarding panels.

Then go to the other end bay and repeat, making sure the purlin is 100% flush with the outside of the gable end and sits perfectly in the middle of the internal A-frames.

Go to your pile of the shorter 142mm purlins and complete your middle bay, again starting from the back working your way up over from one side to the other. If you were accurate with your placing of the end-purlins – the middle purlins will meet at each end giving a nice neat professional look to your shed. Leave the whole shed to set for 20 minutes.

You are now ready to apply the Yorkshire boarding panels to the back and ends of your shed. Carefully remove any fluffy bits using your tooth brush – do this from both sides to give a smooth finish.

Figure 15



Your Yorkshire Boarding for the side walls comes in 2 panels, 1 x 2 bays and 1 x 1 bay per side. Apply a line of glue along the 3 rows of wall cladding rails and along the line of top roof purlins – these are the main contact points for your boarding. Offer up the larger panel making sure it is flush to the gable end and press against the rails/purlins making sure it is straight and level. You will want to see approx 2mm of the top roof purlin showing over the top of your boarding panel – this allows any roof section to sit properly. Offer up the smaller single bay boarding panel and repeat the gluing process. **IMPORTANT – MAKE SURE YOUR BOARDING PANELS ARE THE CORRECT WAY AROUND – THE FLUSH SIDE SITS AGAINST THE SHED – OTHERWISE IT WILL LOOK INSIDE-OUT**

Figure 16

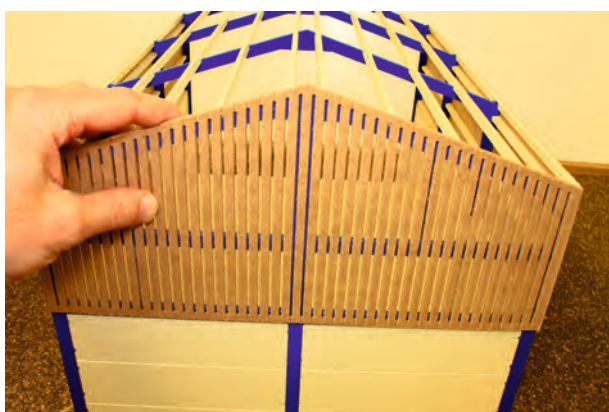
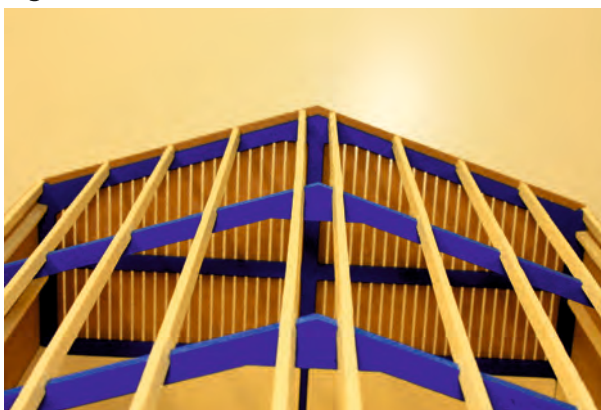


Figure 17



Nearly there! Offer the Gable end boarding panel making sure it is not inside out (flush side sits against the shed). See the main contact points on the frame and apply a thin line of glue along them – press and hold the boarding panel in place for 15 seconds. It is important that you make sure the top edge of the boarding panel sits flush with the top edge of the roof purlins for a professional finish, as in Figure 17.

You are now ready glue your shed to the base. You must be very careful now to make sure your construction is completely square – ie the walls are square to each other and they sit square on the base. Once you are happy the walls are at perfect right angles apply a few spots of glue to the bottom of the blue uprights, position and hold for 10 seconds to create a rigid construction. You will need to be quick with any final adjustments at this stage as the glue bites very quickly! **Job done!**

PS: Some warm soapy water may now be needed to get that hardened glue off your finger-tips!

Any problems please call us – we carry a full range of spare parts if required and are very happy to chat on the phone if you would like to go through the construction stages before you commit to your pro-build.

Figure 18



Kind Regards

Paul

Owner – Brushwood Toys