

Making and fitting your Butted Double Sliding Door Screen – Kit 022.1

Thanks for choosing our screen system.

We double check all orders before despatch, but we would ask you to check that all the components have been received as listed below. If any items are missing please call us on 01628 481919

If you are unsure at any stage please contact us. We are always happy to help.

Kit Contents



Tool Kit: 2.5 mm Drill bit Pozidrive 1 (magnetised) Allen key



1 length of grey door insert



Tools required

- Tape measure & pencil
- Spirit level
- Scissors
- Stanley or modelling knife
- Hacksaw and mitre box or mitre saw
- Manual or power drill
- Drill bit suitable for drilling aluminium 2.5mm (provided)
- Magnetised Pozidrive 1 screw driver bit (provided)
- Allen key 2.5mm (provided)

Overview

Your screen system consists of two sliding screens which slide on a top and bottom track fitted directly to the face of your door frame. When in use they 'butt' together and when not in use they can slide across the fixed panes.

4 x stoppers



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Step 1 – determine where your screen system will be fitted.

Assess your specific installation needs. In particular determine which surfaces above and below the doors you will be fixing the tracks onto. **The surface must be continuous and smooth**.

French doors open outwards in most situations. This means that the screen doors will be installed on the inside of the room, however the system is weatherproof and can be installed on the outside if required.

If you have sliding doors where the handles, or a fixed pane protrudes beyond the frame around the door go first to the "Handle and Pane Protrusions" page at the end of these instructions for the solution.

Step 2 – Measuring and fitting the tracks.

You will have now determined your track mounting surface, which is usually the continuous framing of the glass doors and side panes itself. As per the diagram the tracks will be fitted above and below the door panes.

- Measure the width (W1) and divide by 2. Cut the 4 lengths of track to this measurement so that when two lengths are placed end to end (butted up) the total width equals W1.
- Fit the top 2 tracks with the 'long tail' pointing downwards and furthest away from the frame, ensuring both are level and butted together. Use up to 4 screws per track (provided).
- Repeat for the bottom tracks but with the 'long tail' pointing upwards.



Bottom Track



Note: If the track does not butt up to a wall/frame you can use the stopper provided. Insert the stopper between the tail of the track and your frame and secure with the end screw in each case.

Step 3 – Measuring and cutting the screen door frames

- Measure (H) as per the diagram i.e. from the very top of the top track to the very bottom of the bottom track. Deduct 40mm from this measurement to determine your cut size, e.g. if H = 2040mm the cut size is 2000mm.
- Measure (W2) as per the diagram i.e. from the outer edge of the left-hand dividing vertical to the outer edge of the right hand dividing vertical of the door frame. Deduct 20mm and divide by 2. This will be your cut size for each of the horizontal frame lengths e.g. W2 = 1600mm less 20mm = 1580mm/2 = 790mm.

Note: Two of the short (horizontal) door frame pieces have a series of holes on the back face which are for fitting the wheels in place. Measure out from the centre of this frame piece to ensure these holes are equidistant when the frame is assembled.

• Cut the frame pieces to your cut size with a 45 degree cut making sure that when the frame is assembled, the deep U shaped channel will be running around the inside. See below.





Step 4 – Assembling the screen door frames

- Ensure the horizontal frame pieces with the holes on the face are at the bottom of each screen when the deep U channel faces the door frame.
- Slide one door clip into the outer chamber on each of the vertical frame pieces with the two prongs facing the top of the screen (these clips locate onto the top track when the screens are fitted)
- Ensure the door clips are right at the top of the screens before inserting the corner screw i.e. the screw head should be below the bottom of the door clip



- Insert each of the metal corners into the frame pieces and push the frame together.
 - Lay the screen flat (on a table, bench or the floor), pull and screw each corner together as follows:
 - Insert the 2.5mm drift bit into your drill ensuring the length from the tip of the bit, to the point at which it enters the jaws is exactly 34mm. This will prevent the drill bit from going too far into the screen frame.

- Drill a hole through the edge of the frame 50mm from the tip (see drawing below). You will feel the bit penetrate the skin of the frame and then reach the corner. Stop drilling once the jaws are 1mm from the edge of the frame.
- Insert and screw home a No. 4, 3/8" screw using the Pozidrive 1 drill bit.
- Repeat until all corners are secure.



Step 5 – Fitting the mesh





- Lay your frame down on a hard flat surface with the channel facing upwards.
- Unroll your mesh and lay it over your frame.
- Cut a piece from the roll which is about 40mm bigger than the screen on all 4 sides.
- Meshing with some of the thicker meshes is a little tougher and you will need to apply pressure to push the mesh and spline into the channel.
- Position the longest side of the frame closest to you, this is the side you need to start with. The aim is to get the mesh as straight as possible on the first 2 sides.
- Try to keep the weave of the mesh in line with the frame, use the concave end of the spline tool first to locate the mesh into the channel.
- Holding the spline tool in one hand and the spline in the other, start to roll the spline down into the channel. Try to keep to one smooth continuous movement.
- When you reach the end of this side, turn the spline tool around and use the convex end to push the spline home.

- Turn your screen around to work on the second side. Loop the spline around the corner leaving a little slack in the loop.
- Then mesh the 2nd side as you did the first.
- When the 2nd side has been completed go back to the corner and using a flat headed screw driver or the end of a pair of scissors push the spline down into the corner.
- Continue in this way around sides 3 & 4. The mesh will naturally start to tension at this point. Try not to over tension as this will bow the framework.
 - **Tip:** If necessary you can put a couple of heavy books in the middle of the screen to reduce the tension as you mesh.



• When you reach the end of the 4th side cut the spline with a pair of scissors and push the end down into the corner.



- Using a sharp Stanley knife, held at 45 degrees over the spline, start to cut the mesh against the outer edge of the frame. Use a smooth continuous movement and ensure your other hand is behind the knife in case it slips. Run the cut into the corner.
- Turn the frame as you cut each side.
- When finished you can run the convex edge of the spline tool round the screen one last time.

Step 6 – Fitting the wheels

Locate the two outer most holes on the back face of the bottom (horizontal frames) and fit the wheels as follows:



Step 7 – Inserting the pile seal

The pile seal slides into the small outer receiving channel on the outer frame vertical of each screen Insert at one end, feed through to the other end and cut to length.



Step 8 – Fitting the screen doors

- Position the left-hand screen door with the spline/channel facing your door, the pile running down the left hand side, and the wheels at the bottom.
- Insert the top of the screen onto the top channel and lift upwards until there is enough clearance to rest the bottom of the screen on the bottom channel.
- Let the screen door rest on the bottom channel and test to ensure it rolls smoothly.
- Push the door clips up so they also locate onto the track then tighten the grub screws to hold them in place.
- Check again to ensure the screen rolls smoothly.
- Repeat for the second screen but this time with the pile running down the right-hand side when the spline/channel faces your door.

Step 9 - Fitting the door insert strip

- The door insert creates the seal between the 2 door panels.
- Take the insert strip and push it firmly into the edge of one of the door panels. Starting at the top and working towards the bottom of the screen. Cut any excess off at the bottom with a pair of scissors.

YOUR INSTALLATION IS COMPLETE

Door Handle and Fixed Pane Protrusions

Some patio doors have handles and/or fixed pane framework that protrudes beyond the outer frame of the patio door. These will cause an obstruction to your sliding screen panel.

Solutions:

- In the case of a protruding handle, it's sometimes possible to replace this with a smaller option.
- For a protruding pane, fix a framework to 'build off' the outer framework to 3 sides and bring it level with the fixed pane.

If the handle still causes an issue when this is in place, you will need to build out further and include the middle vertical too. The depth of the framework depends on the depth of protruding pane / handle but the end result needs to give you a flat surface around the door as per the diagram below. You can use lengths of wood, finished to your required colour, PVC or aluminium



We can supply a selection of white PVC lengths that may be suitable for your situation. If you would like to discuss or need any assistance please call us on 01628 481919