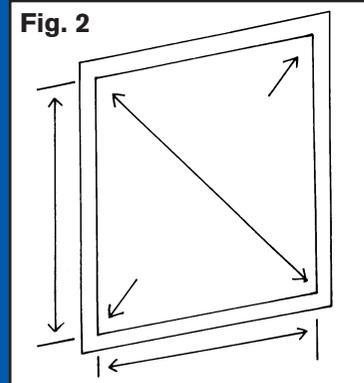
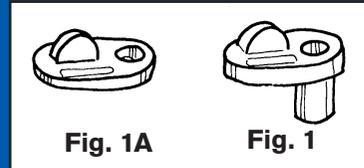


Keep the insects out for the summer – with a little help from Mitre 10.

Australia is famous for many things – including a huge fly population and other insects. If you haven't yet fitted flyscreens, or if the ones you have are damaged, you'll probably find your home invaded by hoards of tiny uninvited guests at the slightest hint of warm weather.

Of course, you can have screens custom made especially for your windows. But why go to that expense when it's such a simple matter to make and install your own aluminium flyscreens. It requires no special skills, and all the components and advice you need are available right now from your Mitre 10 store. Just ask. You'll not only save money – you'll get satisfaction out of doing the job yourself.



Step 1: Planning

There are three ways of mounting your screens, so before you buy materials, decide which style of screen you want to make. Your choice will determine the height and width of your screen frame and how you fit it to the window frame.

One way is to mount the screen against the window frame, or to rest it on the window sill. It can then be either hinged or fixed. If fixed, you'll need offset buttons (Fig. 1). If it is to be flush mounted (set in the window recess), it can be hinged or fixed using flush buttons (Fig 1A). For sliding screens, you'll also need to buy and fix the sliding track.

Step 2: Measuring up

Whichever style you choose, first measure the size of the window opening between the inside edges of the window frame. Measure the height each side and width top and bottom (Fig. 2). If the opening is not square, you'll have to make allowances for your flyscreen to fit.

If your screen is to be face mounted, add at least 25mm to your window opening measurements to allow for overlap on height and width (Fig. 3)

If you plan to rest the screen on the window sill, add only 12mm to the height and 25mm to the width.

With flush-mounted screens, deduct 3mm from the window opening measurements for clearance on all sides (Fig. 4).

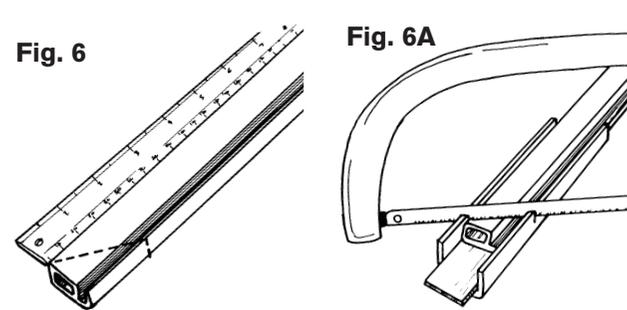
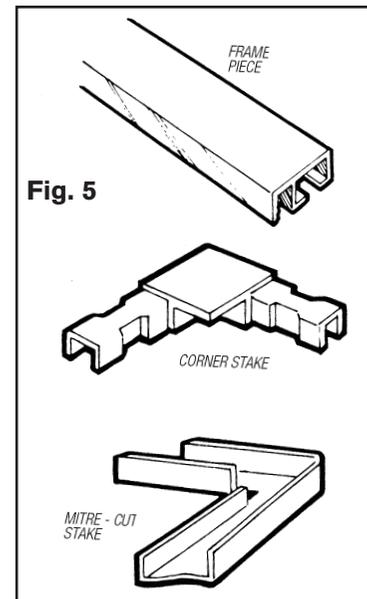
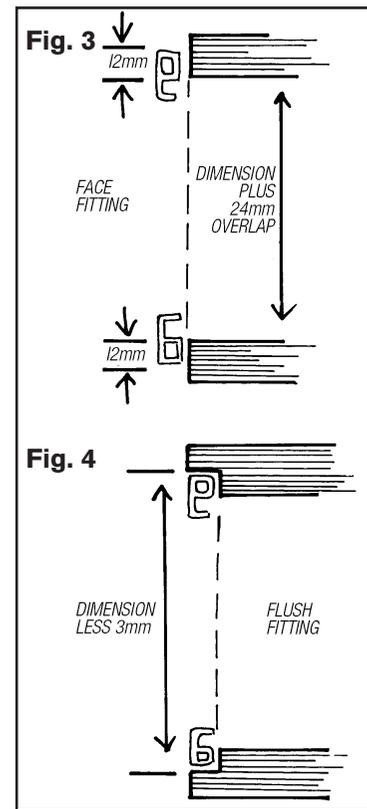
For sliding screens, first fix the sliding track in place then measure the distance between the top and bottom tracks, making clearance allowances detailed within the track fitting instructions. For width, add 12mm to each side.

Step 3: Cutting the frame to size

Various manufacturers have different ways of fitting screen frame corners together. Both square and mitred (45° angle) corner stakes are available and depend on the make of aluminium framing you've bought (Fig. 5). Your Mitre 10 store will help you select the right corner stakes.

If using square corner stakes, all pieces are cut square. Be sure to deduct the size of the corner stakes from your overall height and width measurements, usually about 41mm less.

For mitred corners, cut to the exact measurements you made in Step 2. Start with the longest pieces first so if you do make a mistake, you'll be able to use that piece for one of the shorter lengths. Measure your frame pieces along the outside edge and mark the top of the 45° angle (Fig. 6). Use your mitre box to ensure the joints are at the correct 45° angle, and cut with your hacksaw. Cut the other end to length with a second mitre cut. Always ensure that the spline groove is to the inside of the frame so that it is always on the shortest side. Any cut ends that are slightly burred should be carefully filed smooth, avoiding any damage to the finished outside surface.



Step 4: Putting the frame together

Having cut all four sides to size, lay the shorter lengths on a flat surface and insert the corner stakes at the end of each length. Make certain the spline groove is on the inside of the frame.

When both shorter lengths are made up with corner stakes, fit the longer sides into the stakes (Fig. 7). The corner stakes are designed to fit tightly, so it may be necessary to gently but firmly tap them in with a hammer. Use a scrap piece of timber to protect the surface finish (Fig. 7). Then complete the frame by fitting the remaining short length in the same way.

Step 5: Cut to size

Ensuring that the frame is square, lay the insect screening over the frame, with the spline groove facing up. Cut the screening approximately 2cm wider than the frame.

Step 6: Cut corner at 45° angle

With a pair of scissors, trim one corner of the screening at a 45° handle. (Do not cut all 4 corners at one time.) Line up the centre of the cut with the corner of the spline groove. This prevents buckling. (Fig. 9)

Step 7: Wedge screening into groove

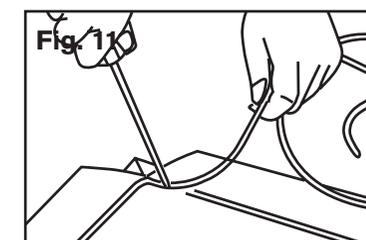
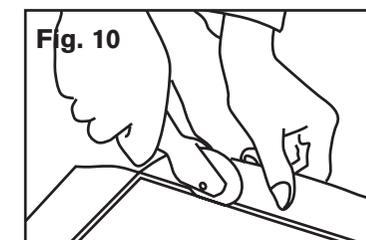
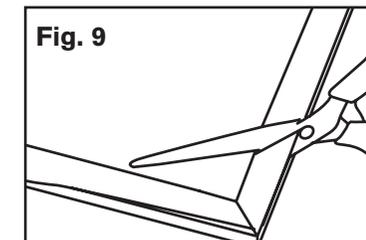
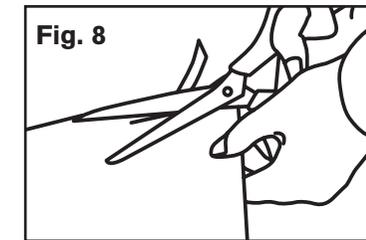
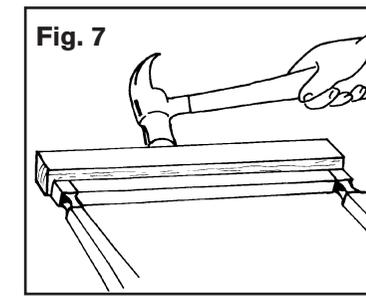
Starting at the cut corner, gently crease the insect screening into the spline groove using the convex wheel roller. Use several light strokes to avoid damage. Holding the roller at a slight angle and folding in a section of the screening at a time, will make the process easier and prevent tearing. Continue until it is completely wedged down into the groove. (Fig. 10)

Step 8: Push spline into corner

Using screwdriver, gently push the end of the spline down into a corner. (Fig. 11)

Step 9: Roll in spline

Using the concave wheel of the spline roller, press the remainder into the groove. Working around the frame in a clockwise direction gives a better, flatter result. (Fig. 12)



Step 10: Cut spline and trim excess

Cut the loose end of the spline to meet the start of a pair of scissors. Trim excess screening close to the edge of the spline with a utility knife. Your new insect screening has now been fitted. (Fig. 13)

Step 11: Fitting your new screen

Place the screen in position and mark where the hinges and security buttons are to be located. Drill small holes to start the screws and fix the fittings into the window frame, ensuring that they are evenly spaced (Fig. 14).

