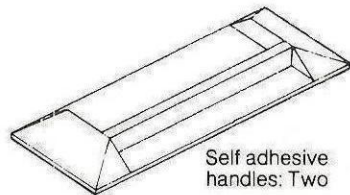


# General Information for Linkline Secondary Glazing uPVC Horizontal Sliding System

## KIT CONTENTS

### WIDTH KIT:

A width kit contains:  
All horizontal sections  
40 No. 6 woodscrews  
40 Wallplugs  
2 Self-adhesive handles



Self adhesive handles: Two



Section A  
Top track: one length



Section B  
Bottom track: one length



Section E  
Glass carrier with short brush seals: two lengths

### HEIGHT KIT:

A height kit contains:  
All vertical sections.



Section C  
Side track: two lengths



Section D1  
Glass carrier with interlock: one length

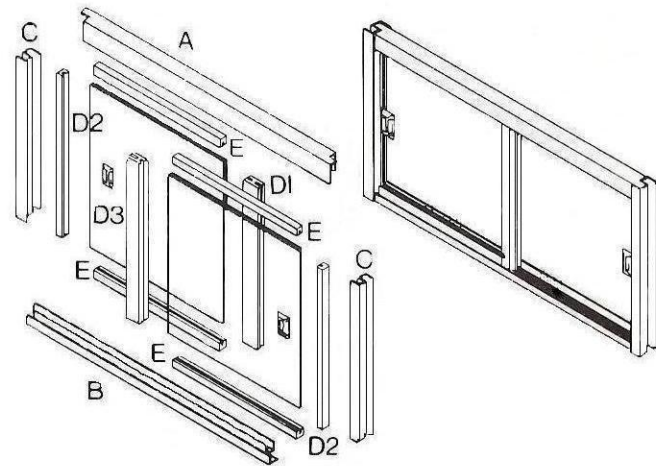


Section D2  
Glass carrier with medium brush seal: two lengths



Section D3  
Glass carrier with interlock and seal: one length

## ARRANGEMENT OF PARTS



Linkline uPVC Secondary Glazing is as effective and attractive as professionally installed systems, but designed for you to install yourself.

You need one width kit plus one height kit of the appropriate lengths to secondary glaze your existing window with two sliding panes

## MORE THAN TWO PANES

If you wish to secondary glaze your window with three or more panes to match your existing window you will also require one Linkline uPVC Multi-Pane kit for each additional pane.

## SELECTING YOUR GLAZING MATERIAL

Do not buy the glazing material until you have installed the outer tracks and have taken the required measurements from them.

This system has been designed to accept 4mm glass or acrylic sheet. 4mm glass generally gives the better result, but if your window is within 800mm of the floor or otherwise exposed to impact, we recommend that you use acrylic or toughened glass.

2mm acrylic may also be used, in which case you will need a Linkline 2mm Glazing kit. This consists of gasket which is fitted round the acrylic before following Instruction 4 to measure, cut and fit the glass carriers.

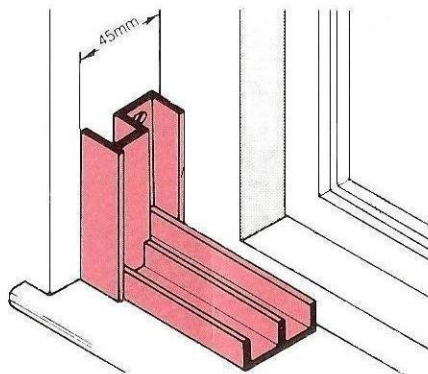
Please observe the following maximum sizes for each single pane

	Max Height
4mm glass or acrylic	1829mm
2mm acrylic	1220mm

The height of each pane should be less than 3 times its width. All glazing material, being slightly flexible may bow slightly if the panes are large or tall. This need not be a problem, but if in doubt consult your glazier, who may suggest alternatives.

## FIXING

For the best results measure and cut all sections accurately. All dimensions are quoted in millimeters.



The systems fixes to the inside of the window recess. Allow a minimum of 45mm of flat window recess to accept the secondary glazing tracks.

The system may be fixed directly to the window recess. However, some windows have surrounds which are difficult to drill and plug. Therefore you may wish to fix a batten to the face of the window frame and fix the track sections to the batten.

For the best thermal insulation and for normal sound insulation purposes, fit the track sections as close as possible to the primary window. Ensure that the main window catches clear the secondary glazing.

If best sound insulation is required, a gap of 150mm between the main window glass and the secondary glazing is recommended.

When fixing the track sections to brick, concrete, plaster etc, mark the positions for drilling the holes through the pre-drilled screwholes in the sections. Then drill holes deep enough to take the plastic wallplugs, so as to ensure a rigid fixing.

When fixing the track sections to a soft wooden recess, batten or sill you may not need to drill and plug - just mark the position of the holes using a small drill or bradawl.

## SAFETY

When the main window is open the secondary glazing pane should also be kept open to avoid pressure in high wind conditions. This is especially important for large exposed panes.

Panes of cut glass should always be handled with care. Protect your hands and eyes at all times. Keep away from children and animals.

## CONDENSATION

Linkline Secondary Glazing will normally reduce condensation considerably. However, in line with other reputable manufactures, Linkline cannot guarantee to completely eradicate condensation, particularly in rooms such as kitchens and bathrooms which are prone to high humidity.

To minimise condensation, fit the secondary glazing as close as possible to the existing window and ensure that all sections are accurately cut and any air gaps sealed.

## FINISHING OFF

Linkline specifies white build quality uPVC because of its superb insulation properties and its long-lasting, attractive, unobtrusive appearance.

Other than normal cleaning the installation requires no maintenance. The tracks may, however, be painted with an oil based paint if desired.

## TOOLS REQUIRED:

Necessary	Desirable
Hacksaw	Mallet
Screwdriver	File (deburring sections)
Steel rule	Square, straight edge
Drill	Spirit level
Masonry drill bit	Bradawl or 1/16" drill for pilot holes in wood
(No 12 1/4")	



# Step-by-Step Instructions

## 1. Cut and Fit the Track Sections

### IMPORTANT

If fitting more than two panes read Instruction 7 before proceeding.

### NOTE

If your window recess is not square or level the secondary glazing installation may be adversely affected. Therefore, during the installation check that the tracks are square and level before finally fixing. If necessary pack out with wood and filler

For simplicity and clarity these instructions show the front pane on the right hand side of the window. There is no technical reason why the tracks cannot be re-arranged to position the front pane on the left hand side.

### 1.1 SIDE TRACKS (SECTION C)

- a) Measure the full height of the left hand side of the window recess. Cut a length of Section C to this size

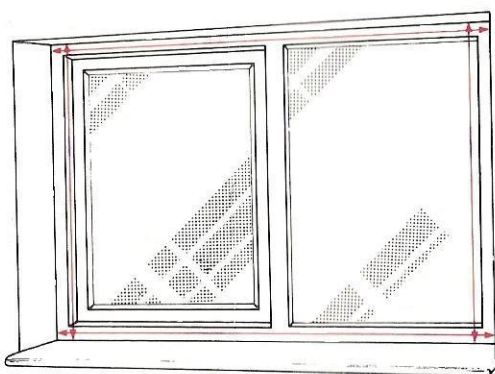
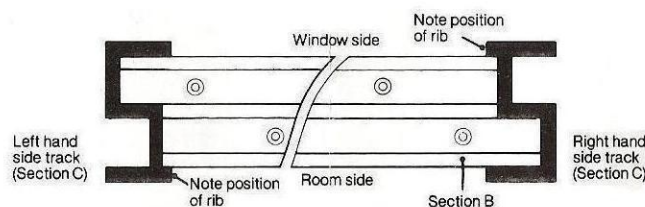


Figure 1

- b) Position in the side of the window recess with the small rib on the room side of the track, and projecting into the window opening (Figure 2).

- c) Fix as described in General Information



- d) Fit the right hand side track as above, but with the small rib on the window side of the track (Figure 2).

- e) Ensure that the two side tracks are in line and parallel before driving home all the screws.

### 1.2 TOP TRACK (SECTION A)

- a) Measure the full width of the top of the window recess. Deduct 6mm and cut Section A to this size.

- b) Cut out and discard a 15mm corner, including the middle leg of the channel, from the right hand side end of the window side channel, and from the left hand end of the room side channel (Figure 3). Note the track is fitted flat face upwards

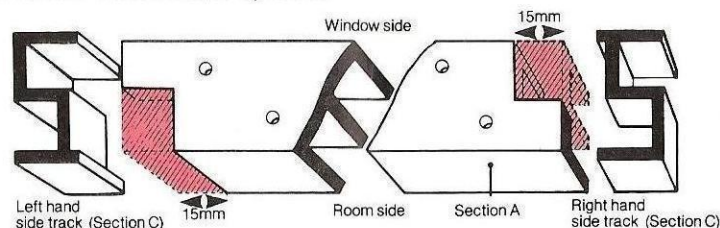
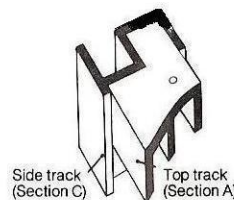


Figure 3

- c) Now insert the top track ends at an angle into the recesses of the side tracks

Figure 4



- d) Push the track into position and fix, using the tubular screw guide to help hold the screws.

### 1.3 BOTTOM TRACK (SECTION B)

- a) Follow the above procedure. Note that the bottom track is fitted flat face downwards and therefore the cut-outs are not the same as for the top track (Figures 5 and 6).

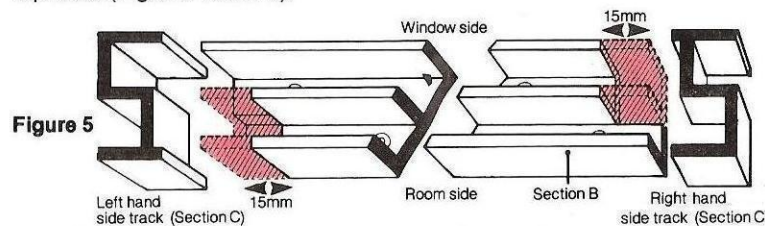
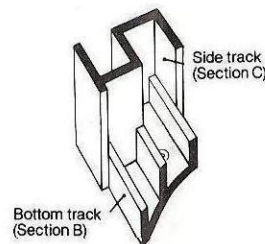


Figure 5

Figure 6



- b) Ensure that the bottom track is parallel with the top track before finally fixing.

## 2. Measure for Glass

IMPORTANT: FOR MORE THAN 2 PANES SEE INSTRUCTION 7.3. Also see Selecting your Glazing material under General Information.

### 2.1 HEIGHT

Measure between the inner edges of the top and bottom tracks and add 22mm to give the height of the glass required (Figure 7).

### 2.2 WIDTH

Make a light pencil mark on the bottom track where you want the two panes to overlap. Measure from that mark to the inner edges of each side track. Add 13mm to each measurement to give the width of each pane of glass (Figure 7).

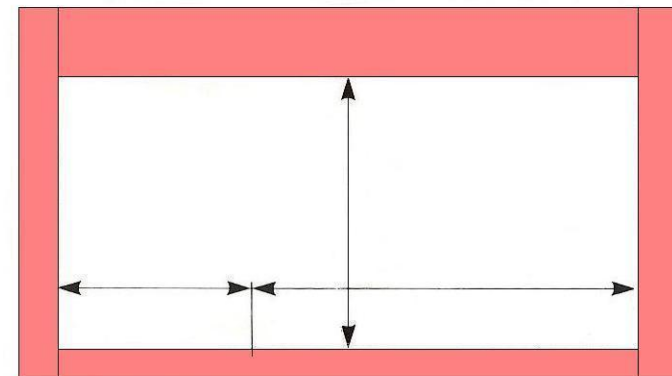


Figure 7

## 3. Obtain and Prepare the Glass

This secondary glazing has been designed to accept 4mm or 2mm glazing material.

4mm glass generally give the best result, but see Selecting Your Glazing Material under General Information.

Ensure your glazing conforms to British Standard recommendations (+/- 0.2mm of the stated thickness). Check that it has been cut to within 1.5mm of the correct size.

It is essential to remove sharp edges from the glass before attempting to fit the glass carriers (Sections D and E). If this has not been done by the glass merchant you can do it yourself.

- a) Lay the glass flat on a steady surface such as a table, with the edge to be smoothed overhanging by about 20mm.

- b) Take a sanding block and using a circular motion of the hand, rub the edges thoroughly.



## 4. Assemble the Panes

### 4.1 BACK PANE

Note: If using 2mm acrylic, fit the 2mm glazing kit firmly all around the pane before proceeding.

- a) Measure the vertical edge of the glass. Deduct 10mm and cut Sections D1 and D2 to this size.
- b) Decide which end of Section D1 will be at the top of the window, and notch back the interlock at that end by 25mm. Notch back to the internal lips, but do not remove them (Figure 8).
- c) Remove a 10mm notch from the bottom end of the interlock of Section D1 (Figure 8).

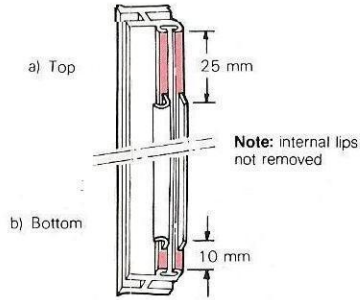


Figure 8

- d) Now stand the glass on its edge on a folded cloth or newspaper with the intended centre edge upwards.

Position Section D1 centrally along the edge, leaving a gap of 5mm at each end. Starting at one end, gently tap with a mallet of piece of wood to fit firmly onto the edge of the glass

Note that the interlock faces inwards towards the room

- e) Turn the glass over and fit Section D2 to the opposite edge. Note that the seal faces in the opposite direction to the interlock of Section D1 - ie outwards towards the window.

- f) Measure the full distance between the outer edges of the vertical glass carriers and cut one piece from each length of Section E to this size

- g) Remove the seals. Mark and cut a notch from each end to fit round the vertical glass carriers (Figure 9). Notch back to, but do not remove the lips at the base of the seal slot (Inset Figure 9).

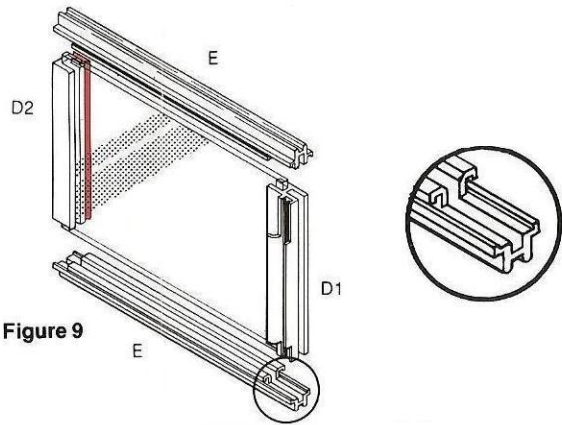


Figure 9

- h) Now measure the distance between the inner edges of the vertical glass carriers and cut two of the four cut lengths of the seal to this size.

Then add 12mm and cut the two remaining lengths to this size.

NOTE: Multipane only. For inner panes, with two interlock sections add 24mm

- i) Now replace the seals in Section E. The longer lengths will be on the same side as the interlock of Section D1 (Figure 10).

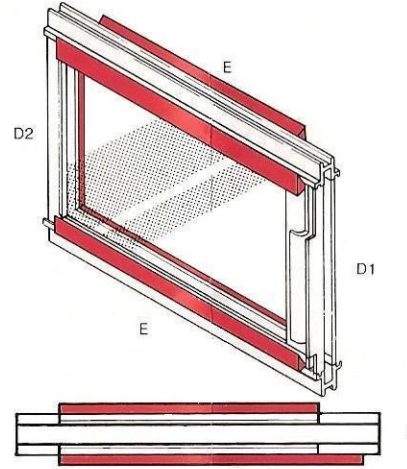


Figure 10

- j) Fit the prepared lengths of Section E to the glass noting that the seals are held in position between Sections D1 and D2.

### 4.2 FRONT PANE

Follow the assembly procedure as for the back pane but note:

- a) Use Section D3 on the edge that will be at the centre of the window. The seal and interlock will face outwards towards the window.
- b) The seal in Section D2 will face inwards towards the room.
- c) The shorter seals in Section E will be on the same side as the flat face of Section D3 (Figure 11).

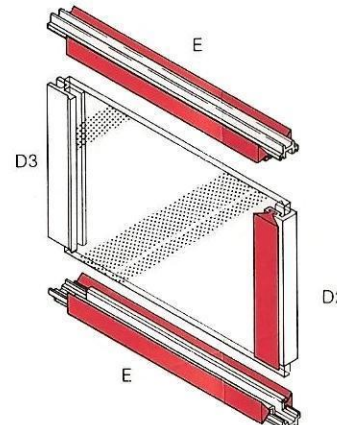


Figure 11

## 5. Fit the Glazed Panes

- 5.1 Before fitting clean the glass and the inside of the tracks thoroughly.

- 5.2 Fit the back pane into position by lifting the pane upwards into the back channel of the top track. Then lower into the corresponding channel of the bottom track.

- 5.3 Repeat this procedure for fitting the front pane into the front channel.

The panes should now slide smoothly from one side of the window to the other. For continued ease of movement keep the track clean and free from dust. Sliding may be further improved by polishing the inside of the bottom track with furniture polish.

## 6. Fit the Handles

Position the handles at the outer edges of the panes, not more than halfway up, with the wider side butting up to the vertical glass carriers (Figure 12). Remove the backing paper and push firmly into position on the glass. On taller, narrow panes position the handle lower, as this will reduce any 'tilt' on sliding,

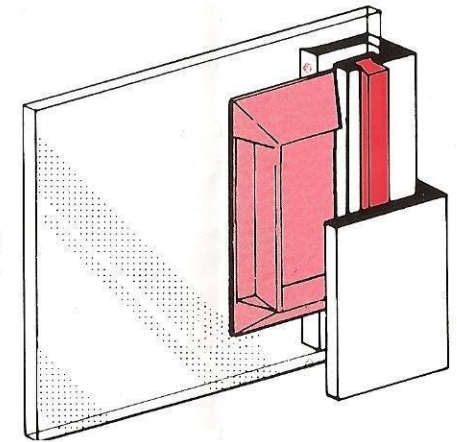


Figure 12

## 7. Multi-pane kit

### KIT CONTENTS:

The Multi-Pane kit contains:  
Vertical glass carrier sections.



Section D1. Glass carrier with interlock. One length



Section D3. Glass carrier with interlock and seal. One length

### 7.1 ODD NUMBERS OF PANES

The outer panes must run in the front track channel.

a) Follow instruction 1 to measure and cut to size the track sections.

b) Before fixing, ensure that both side tracks are positioned the same way with the small rib on the window side of each track and projecting into the window opening (Figure 13).

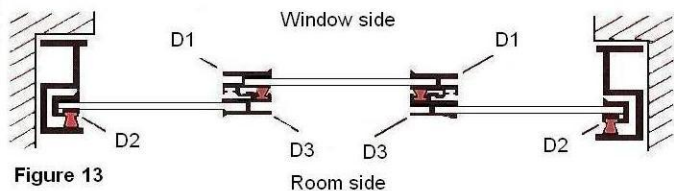


Figure 13

c) Now cut out and discard 15mm corners, including the middle leg of the channels, from each end of the window side channel of the bottom track.

Repeat for the top track but remember it is fitted flat face upwards, and therefore the cut-outs are not the same as for the bottom track (Figure 14).

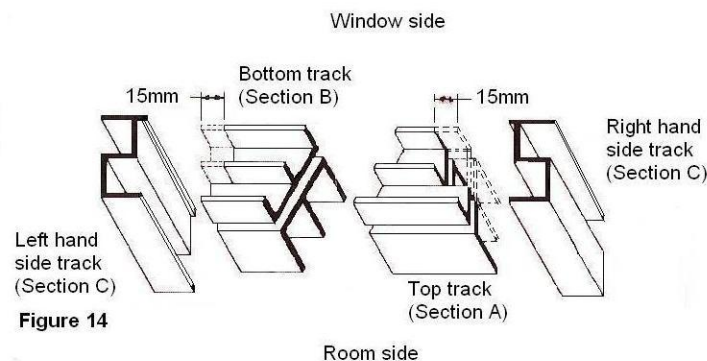


Figure 14

d) Fix the top and bottom tracks as described in General Information.

### 7.2 EVEN NUMBERS OF PANES

The outer panes must run in different channels (Figure 15). Follow Instruction 1 to cut and fit the track sections.

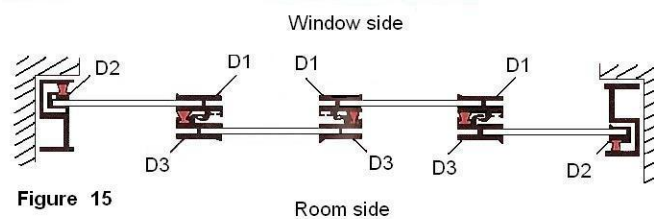


Figure 15

### 7.3 MEASURE FOR GLASS

#### a) HEIGHT

Measure between the inner edges of the top and bottom tracks and add 22mm to give the height of the glass (Figure 16).

#### b) WIDTH

Make light pencil marks on the bottom track where you want the pane to overlap.

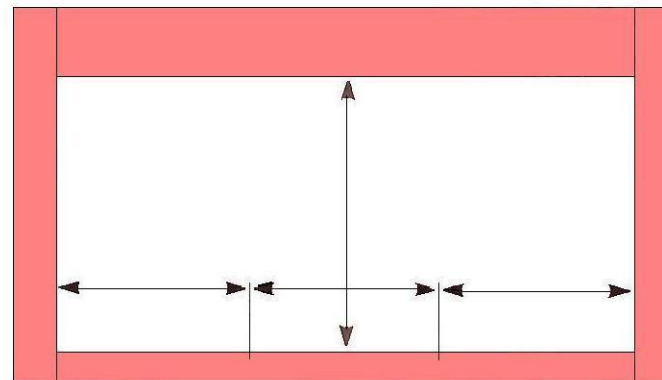


Figure 16

#### OUTER PANES

Measure from the appropriate mark to the inner edges of the side track and add 13mm to give the width of glass.

#### INNER PANES

Measure the distance between the appropriate marks to give the width of the glass.

### 7.4 OBTAIN AND PREPARE THE GLASS

Follow Instruction 3 to obtain and prepare the glass.

### 7.5 ASSEMBLE THE PANES

Follow the same general procedure as Instruction 4, referring to Figure 13 or 15 as appropriate for positioning of the vertical glass carriers and their seals. Inner panes do not contain Section D2.

NOTE: The interlocking action of the vertical glass carriers may restrict access to central opening windows. If you require regular opening of a central pane, you may achieve this by reversing a D1 Section so that the interlock faces outwards towards the window. Position the seals in the F Section as appropriate.

This is not recommended if using acrylic sheet.

### 7.6 FIT THE GLAZED PANES

Follow Instruction 6 to fit the glazed panes into their respective positions.