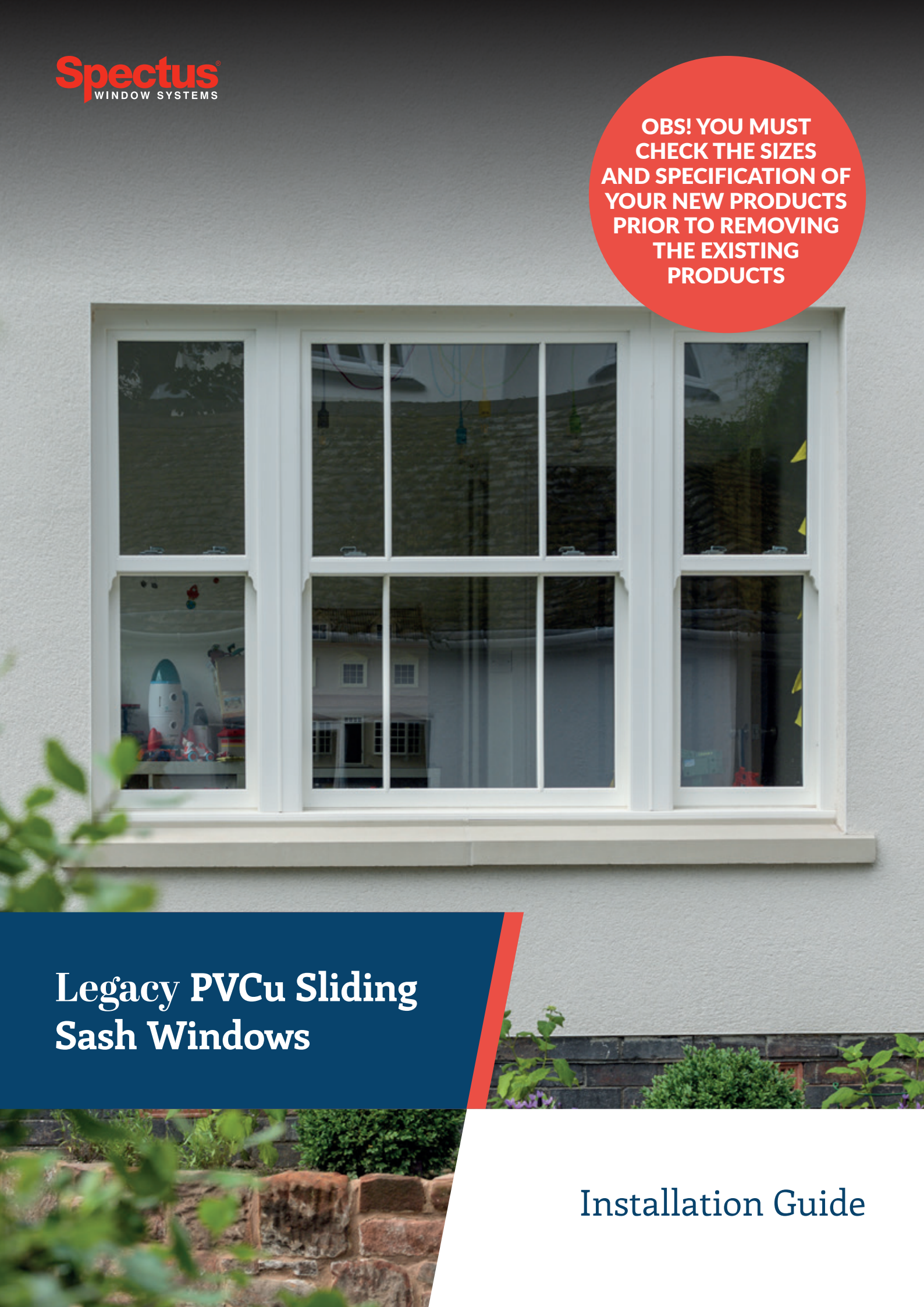
Spectus WINDOW SYSTEMS

OBS! YOU MUST CHECK THE SIZES AND SPECIFICATION OF YOUR NEW PRODUCTS PRIOR TO REMOVING THE EXISTING PRODUCTS



Legacy PVCu Sliding Sash Windows

Installation Guide

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Measuring

There are mainly two different ways in which the windows will be originally installed; brick to brick or check reveal. Both methods are explained in more detail below.

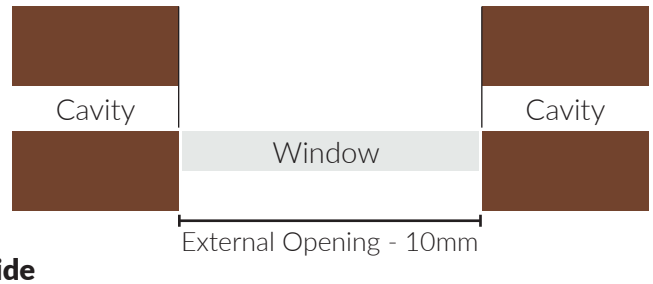
Brick to Brick

You will see about 20-40mm of visible brick showing on the outside.

How to measure?

Measure between the external brickwork opening and deduct 10mm both in width and height.sdss

Inside



Outside

Check Reveal

The full width of the brick is visible on the outside.

How to measure?

Measure between the external brickwork opening and add 40mm to the width and 20mm* to the height with equal 20mm* sitting behind the brick. (*Providing there is sufficient clearance to do so.)

Inside

Outside

Important - Check that the internal width and height are larger than external.

Window Removal

Please read the following steps carefully before attempting to remove any existing windows.

Step 1

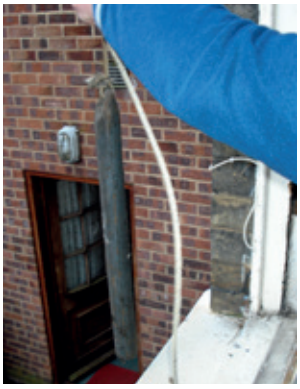
Cut the sash cords to the bottom sash, prise off internal staff bead - this enables you to remove the bottom sash.

Step 2

Cut the sash cords to the top sash, prise off the centre parting bead and the top sash can then be removed.

Step 3

Remove the old sash weight as shown.

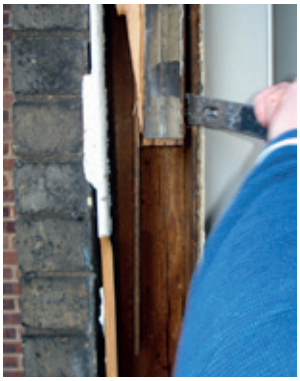


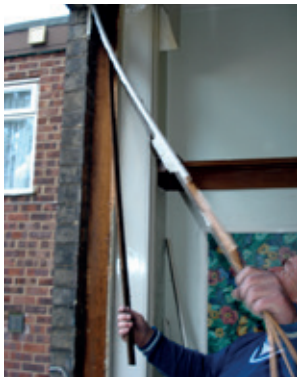
Step 4

Cut the old box near to where you've removed the weights, taking care not to cut or damage any cables that may go through the window.

Step 5

Once you've cut through the box, prise out sides trying not to cause damage to bricks, then remove head rail and cill.





Step 6

Once all the old wooden box has been removed, clean off any old cement or sealant that was around the old windows.

Installation

The procedures in BS8213-4 Code of practice for the survey and installation of windows and external doorsets, or any subsequent updates following this manual, should be followed.

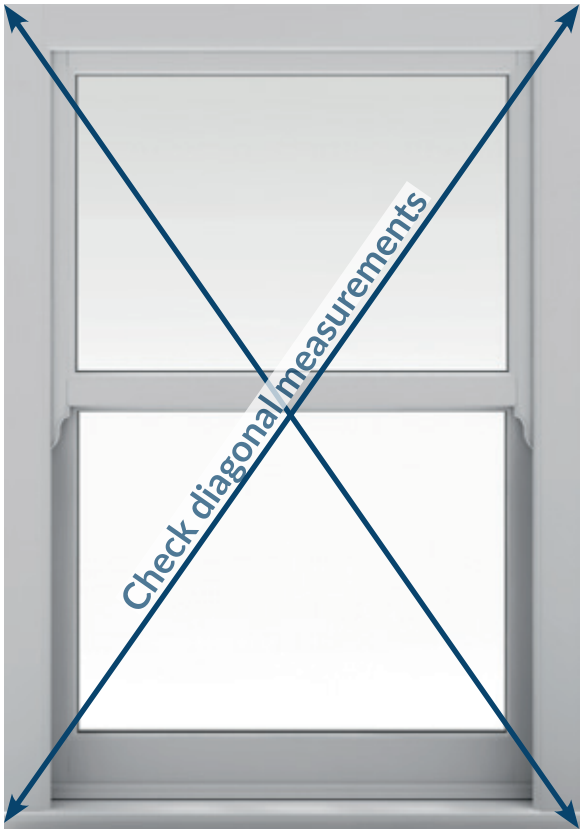
Fit the frame into the opening

The frame should be placed into the opening and bedded on a suitable compound, it should be packed directly under the jambs ensuring that the cill is level and not bowed. The frame should then be wedged temporarily to hold it in position. Adjust the wedging until the frame is standing vertically, and the jambs are plumb and true from side to side.

Check the diagonal measurements of the frame.

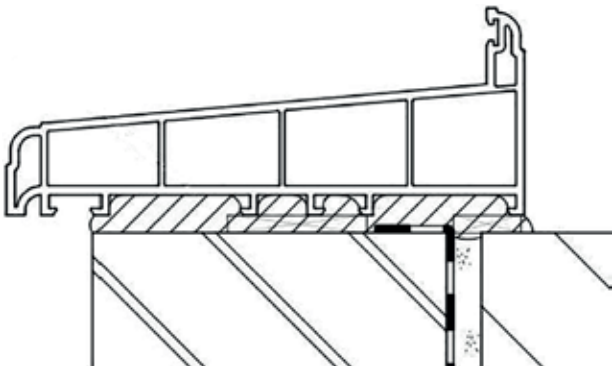
The Frame

Wedge the frame temporarily in the opening ensuring jambs are plum and square.



The Cill

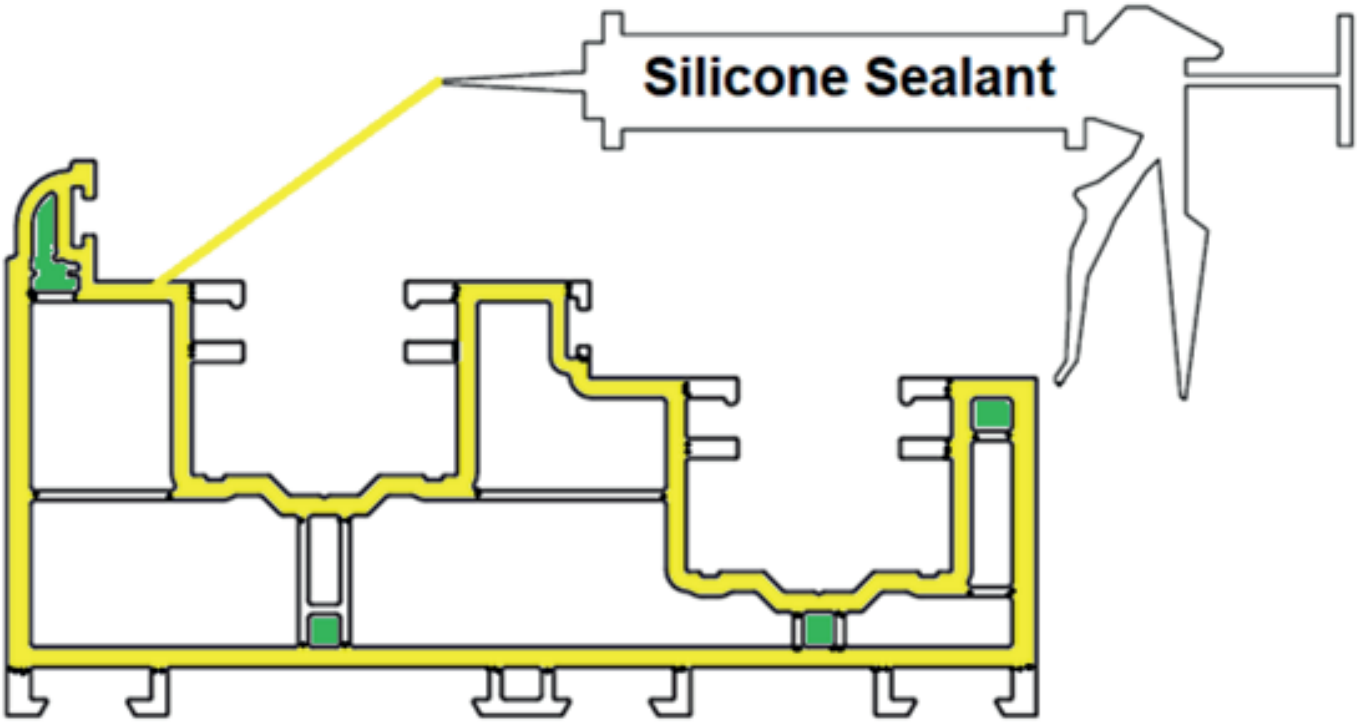
The cill must be level along the opening width, and embedded on a suitable compound.



Temp Cills

If your window has been supplied with a temporary cill, you'll need to follow these steps to fit it onto a flagged cill.

1. **Remove the Temporary Cill** – Carefully take off the temporary cill from all windows that will be fitted to the flag, ensuring you retain the screws.
2. **Apply Silicone Sealant** – Apply silicone sealant to the bottom of both frame jambs as shown in the image below. Make sure all areas highlighted in yellow are fully covered.
3. **Position the Flagged Cill** – Insert the screws through the flagged cill, aligning them with the green-marked areas in the frame. Make sure to hand-tighten them at this stage.
4. **Secure the Cill** – Once all screws are correctly aligned, fully tighten them to secure the cill to the frame.
5. **Final Touches** – Wipe away any excess silicone for a clean finish.



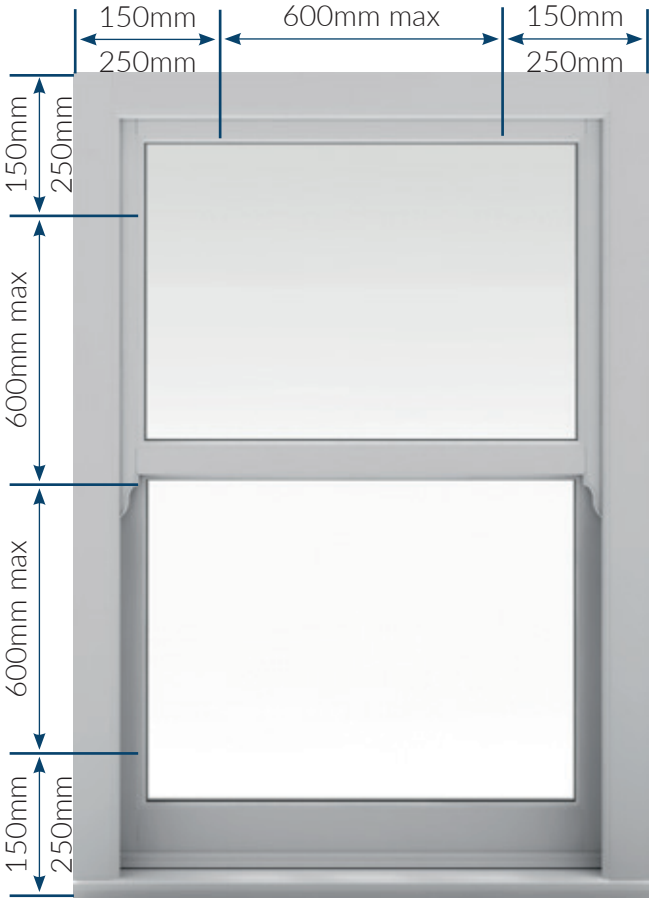
Fixing the Frame

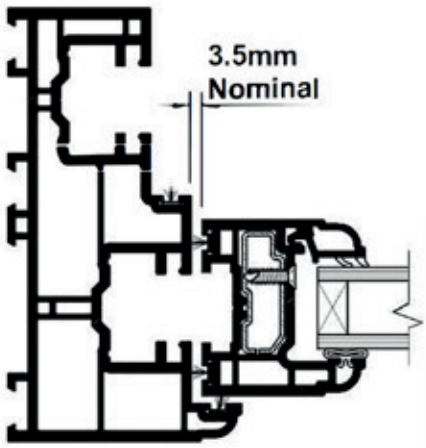
The outer frame can be fixed through three positions, page 9 shows details. Fixing should be between 150mm and 250mm from the corners with maximum centres of 600mm.

Before final tightening, the frame should be packed at screw positions with shims. **To ensure optimum weather performance and correct operation of the sashes, the outer frame must not be bowed.** Ensure the gap between the sashes and outer frame is uniform. Check the diagonal measurements of the frame.

Foam fixing should only be used as a gap filler and not an alternative to mechanical fixings. After applying check that the outer frame has not distorted or bowed. Packing pieces can be placed between the frame and the sashes, or a brace put accross the frame to prevent bowing.

After installation debris or contaminants should be removed and any drainage paths cleared.
Protective tapes should be removed as soon as practical, as ageing of tapes can cause difficulties in removal.



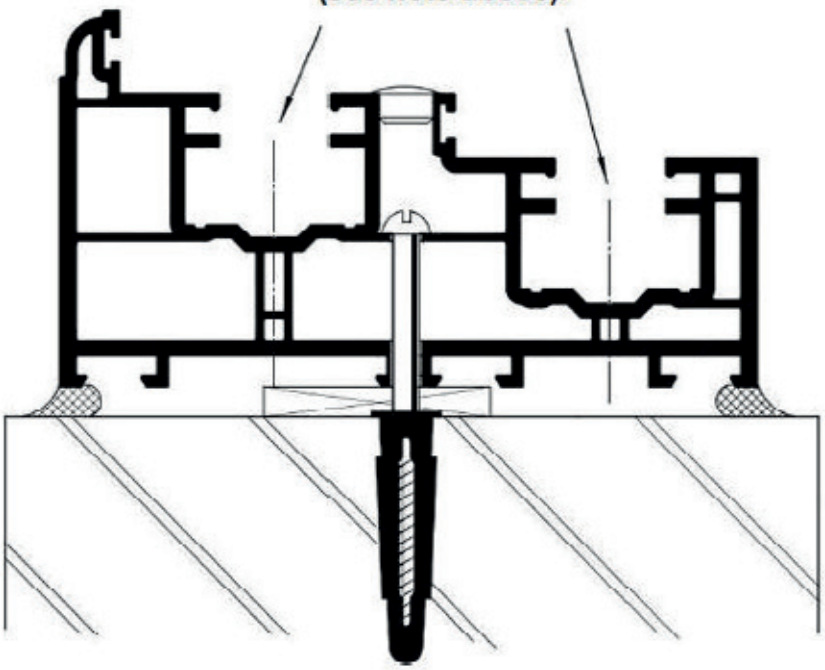


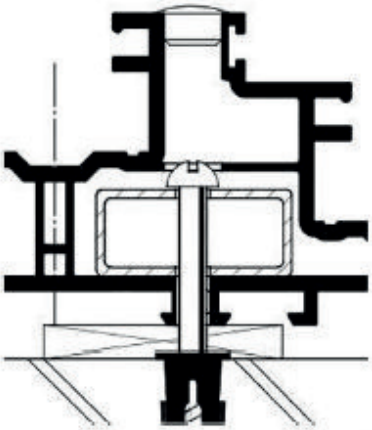
Check gap between both sashes and outer frame.

Fixing Position

As well as the method shown below, frames can also be fixed through the balance channels, but care must be taken not to distort the chamber when tightening the screws. To position a fixing in the top half of the window it will be necessary to remove the balances.

Extreme care should be taken when removing sashes or balances, as they will be under tension and the sash weight will not be supported. (Refer to the balance manufacturer's instructions before removing balances).





Alternative detail if using reinforcement in outer frame.

Fixing Brackets

We supply two types of fixing brackets:

- FL527 (265mm)
- FL007 (200mm)

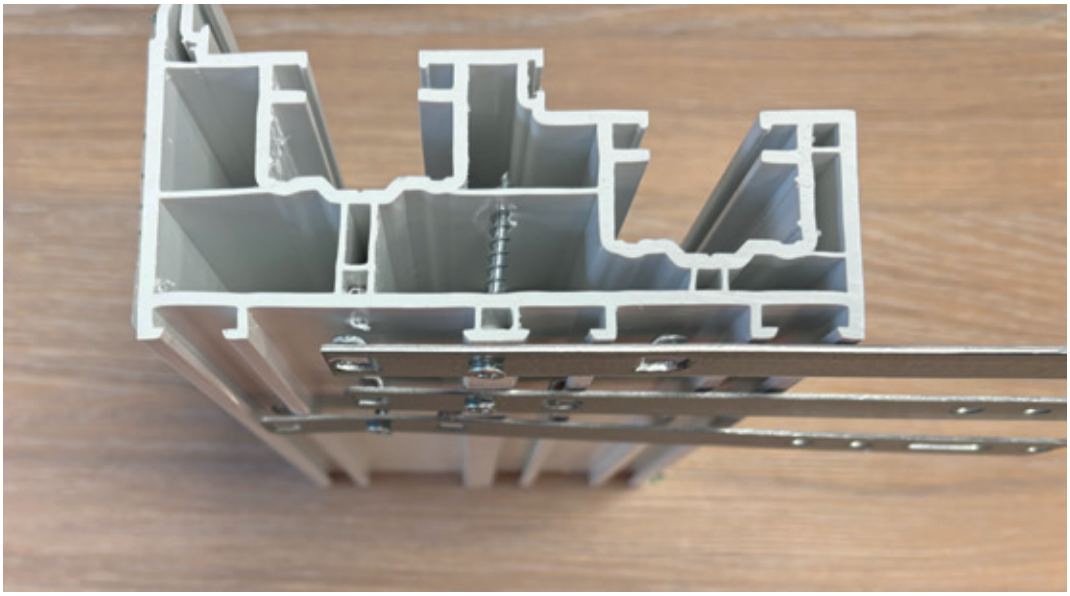
These brackets screw into the outer frame at different positions, allowing a choice of fixing hole locations in the protruding part of the lug. The bracket spacing should correspond to the spacing used for through-frame fixing.

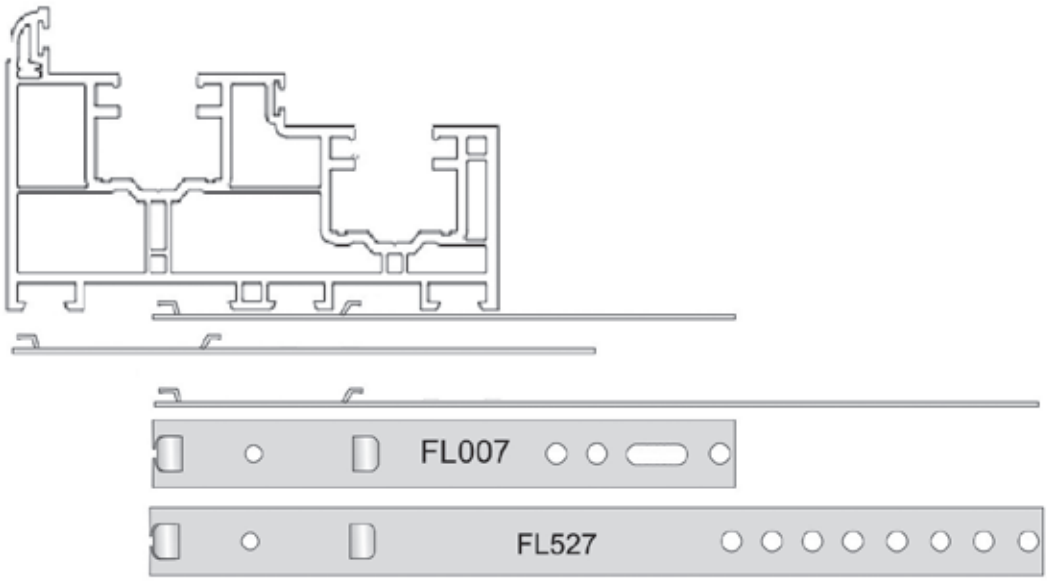
When screwing the brackets into the frame, take care to ensure that no screws penetrate into the balance chambers.

If fixing brackets are used, it is essential to confirm that:

- The outer frame members are straight, and
- The window operates correctly after installation.

In some cases, through-frame fixing may also be required in addition to fixing lugs, to maintain a secure and satisfactory installation.

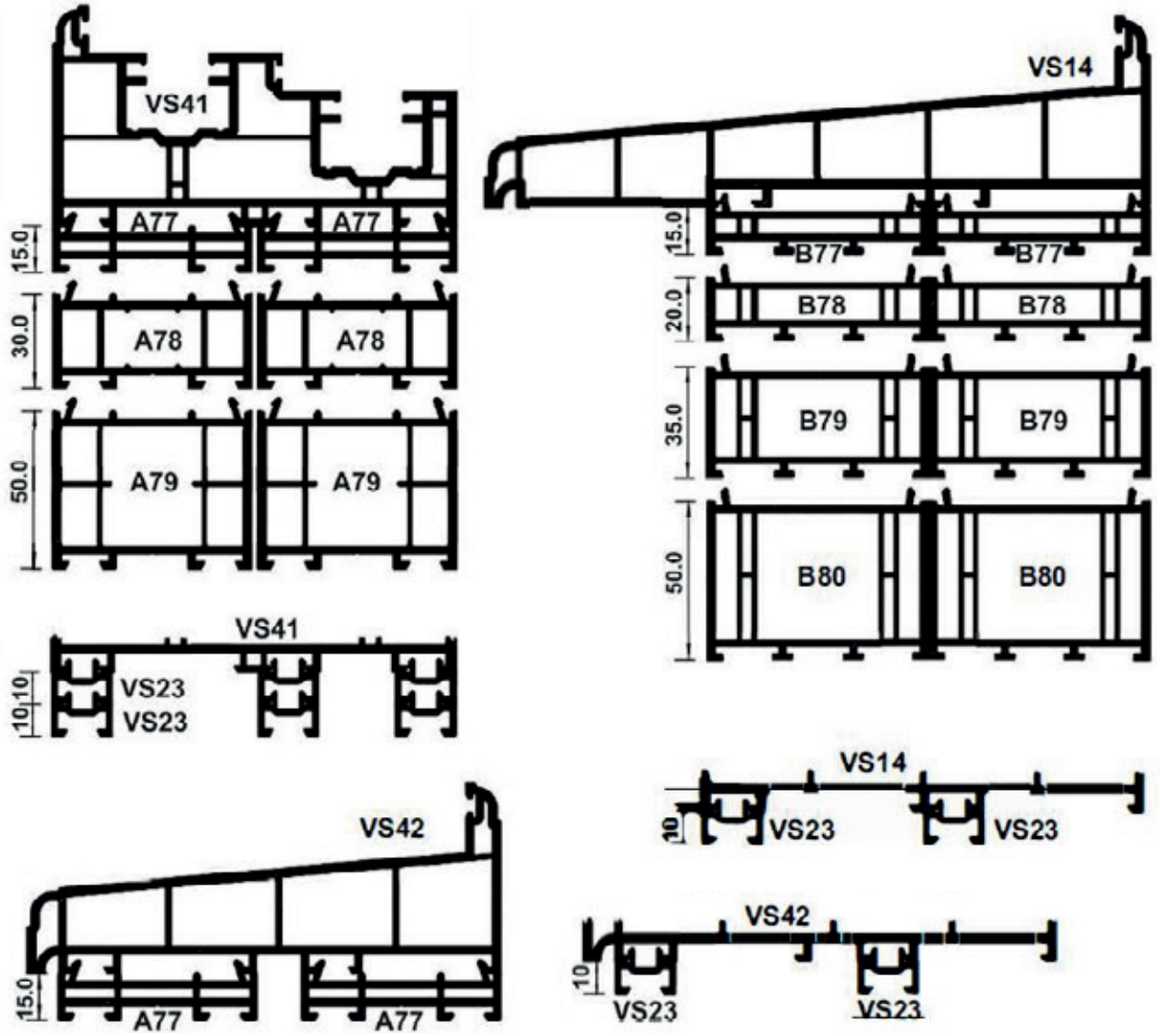




Frame Packers

As an aid to accomodating different installation and building details there are a range of frame packers available. For the outer frame (VS41) and the 150mm Cill (VS42) there are three 63mm wide frame packers and a 19mm wide odd leg add on.

The frame packers are available in 15mm, 30mm and 50mm heights. They can be used in pairs (as shown below) or individually dependant on the building detail. They can be clipped into themselves to achieve alternative sizes.

The odd leg add on is 10mm high and again can be used individually or in combinations. It also clips into itself to accomodate different size requirements.

The 210mm cill (VS14) has a different range range of frame packers. These are 70mm wide and are available in 15mm, 20mm, 35mm and 50mm heights. These can also be clipped into themselves to achieve alternative sizes. The same 10mm odd leg add on is also suitable for use with this cill.