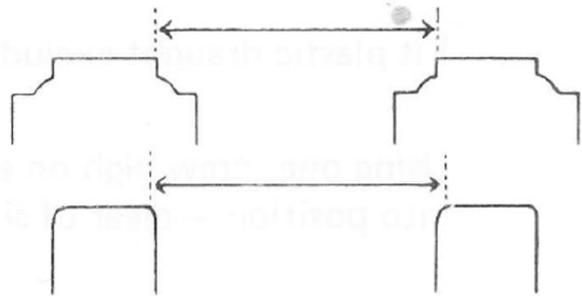
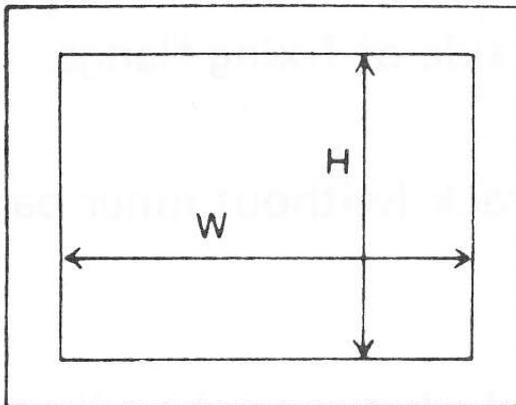


## MEASURING FOR SECONDARY DOUBLE GLAZING

When deciding which type of units are most suited to any particular type of existing window, consideration must be given to the effects of potential hazards such as curtains, drapes, pelmets, protruding hardware and anything else which may hamper the movement or fit of a secondary installation. In particular, it should be noted that an open hinged unit in the wrong situation may become a dangerous hazard.

Having decided as to suitability, the size of a hinged or fixed unit should be derived from two basic dimensions marked H & W on the illustration. When taking these measurements, only the level area of the wooden frame should be thought of as suitable sealing surface. Any corner mouldings should be disregarded.

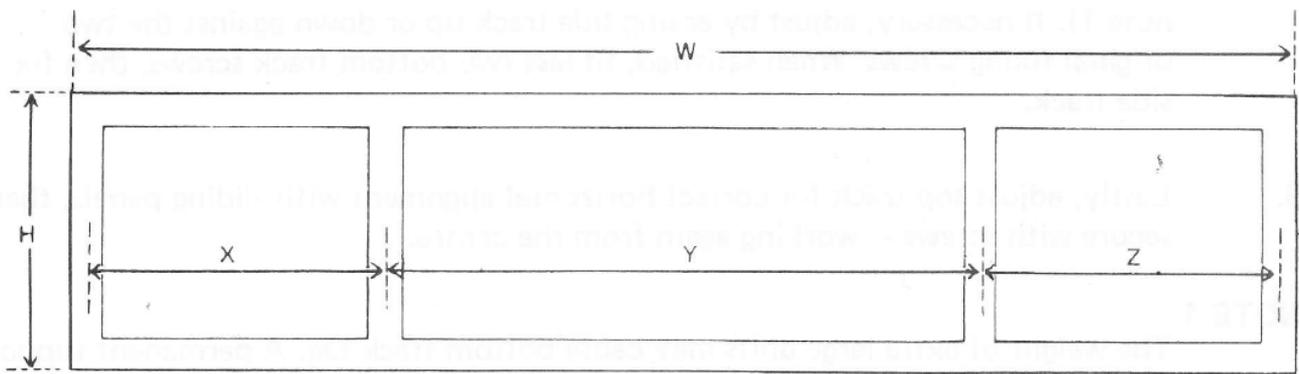


To ensure an effective seal, a hinged or fixed unit should measure at least 10 mm *larger* than H & W. If space permits, the ideal addition to H & W would be 20 mm - affording a comfortable 10 mm all round seal.

When measuring for *hinged* units, allowance must be made for the hinges and catches - which project 9 mm from each side of the aluminium frame. Therefore, two *adjacent* hinged units require mullions (vertical window timbers) to be at least 28 mm wide ( $5 + 9 + 9 + 5$ ) or 38 mm ( $10 + 9 + 9 + 10$ ) for 'ideal sized' units. Adjacent *fixed* units require mullions of at least 10 mm and ideally at least 20mm wide.

Measuring for slide units, again entails two basic dimensions which normally relate to an overall window aperture size - into which the slide track must fit - therefore the slide unit should be some 10 mm *smaller* than H & W.

In addition, it is important that the slide unit meeting stiles should align with the existing window mullions, so that there is no additional obstruction to the view through both units.



Referring to the illustration, five measurements should be taken for a three panel unit, H & W (from which 10 mm should be deducted) and X Y & Z - so that panel widths are correct. The dimensions X and Z should be to the edge of the *secondary unit track* - which would be some 5 mm less than aperture side (assuming 10 mm has been deducted from W). Units with more than 3 panels will require all the additional centre to centre mullion dimensions (Y1, Y2, Y3 etc.)

Vertical Slide units should be measured as two panel horizontals - turned 90°. Lift out units require only H & W - less 10 mm as for slide units.

### INSTALLATION OF HORIZONTAL SLIDE UNITS

To ensure a completely satisfactory result, please adhere carefully to these instructions.

1. If not already assembled, screw together outer track using lightly oiled self-tapping screws.
2. Fit plastic draught excluder or mastic compound to rear side of fixing flange.
3. Using one screw high on each side, hang the assembled track (without inner panels) into position - clear of sill.
4. Take the weight of the outer frame by placing wood blocks between the sill and bottom track at each end and under the point where panel meeting rails will overlap when the unit is closed.
5. Insert sliding panels and move to the 'nearly closed' position. Check that all vertical rails are properly aligned with the side track and each other. If necessary increase or decrease the thickness of the wooden blocks under bottom track until alignment is correct. **Do not be tempted to proceed further until this important objective is achieved.**
6. Working from the centre, secure bottom track with screws - leaving out the last screw at each end.
7. Remove wood blocks and re-check alignment of handle sections and side track (see note 1 ). If necessary, adjust by easing side track up or down against the two original fixing screws. When satisfied, fit last two bottom track screws, then fix side track.
8. Lastly, adjust top track for correct horizontal alignment with sliding panels, then secure with screws - working again from the centre.

#### NOTE 1

The weight of extra large units may cause bottom track sag. A permanent support under the bottom track below each meeting stile should then be used.

#### NOTE 2

When fitting 'Reversed Fixed' outer track (usually to a wooden sub frame) squaring up by raising or lowering the bottom track still applies. Packing should also be used at side and top track fixing points.

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Secondary Glazing London - A Division of Cricklewood Glass

229 Cricklewood Broadway

London NW2 3HP

Phone Number: 0208 452 0039

email: [service@cricklewoodglass.co.uk](mailto:service@cricklewoodglass.co.uk)

web: [www.cricklewoodglass.co.uk](http://www.cricklewoodglass.co.uk)

Name and Registered Office:

The Glass Shop Cricklewood Ltd

30 Milton Road, Westcliffe On Sea, Essex, SSO 7JX.

Registered in England and Wales - Registered Company No. 06605681

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