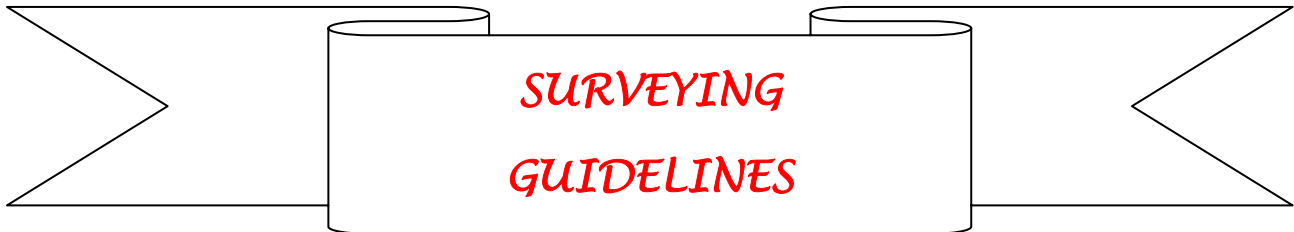


# DUNGANNON WINDOW COMPANY LIMITED

## **VERTICAL SLIDING SASH WINDOW SPECIALISTS**



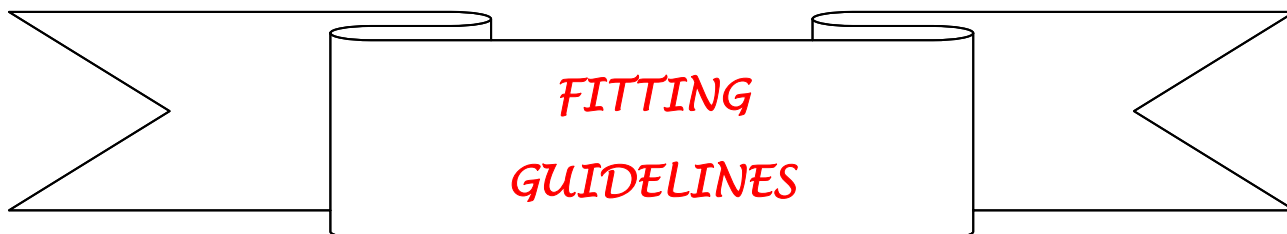
The guidelines to follow should be used in conjunction with normal Codes of Practice and *are for your guidance only*.

It is the surveyors responsibility to ensure accurate measurements are taken and to make sure that the new windows are surveyed and ordered by taking the following points into consideration:

- ◆ Allow correct fitting into opening and behind Damp Proof Course (DPC)
- ◆ Openings are 'square' (ie diagonals are within 10mm)
- ◆ When measuring the **Width**, Top Middle and Bottom measurements should be within 5mm of each other
- ◆ When measuring the **Height**, Left Middle and Right measurements should be within 5mm of each other
- ◆ To make sure that the inside wall dimensions allow the window to be installed, considering our Vertical Sliding Sash Windows are 128mm wide and are larger than most cavities
- ◆ Adequate ventilation is allowed for
- ◆ Provisions for Fire Escape Windows included as per Fire Regulations (see Fire Escape section for more information)
- ◆ Window dimensions are within **minimum and maximum** manufacturing sizes  
  
Minimum Width 350mm Maximum Width 1300mm  
Minimum Height 600mm Maximum Height 2650mm
- ◆ Current Regulations regarding safety glass
- ◆ Current Regulations regarding restricted openings for windows on First Floor and above
- ◆ Preparing a schedule of ancillary items required

# DUNGANNON WINDOW COMPANY LIMITED

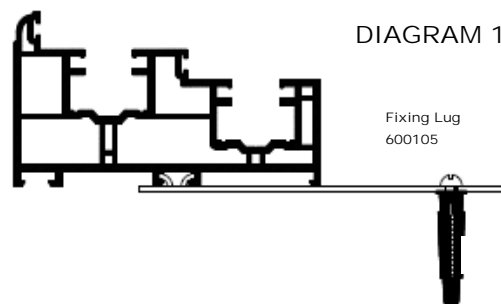
## VERTICAL SLIDING SASH WINDOW SPECIALISTS



All Vertical Sliding Sash Windows to be fitted in accordance with normal fitting procedures. However the points below must be adhered to when fitting the Vertical Sliding Sash Window;

- ◆ Only fixing brackets supplied by Dungannon Window Company Limited are to be used, (as per diagram 1) and placed no more than 250mm from corners and no more than 600mm centres.

**Please Note-** with Fire Hinged Windows we recommend fixing brackets on the HINGE SIDE to have centres no more than 300mm.



- ◆ The windows are fitted 'PLUMB' and 'SQUARE', if not the sashes will not slide or meet correctly.
- ◆ Make sure the jambs of the window are not bowed **inwards (MUST BE 100% STRAIGHT)** otherwise this will make the sashes hard to slide and prevent them being able to tilt inwards.
- ◆ Check to ensure the jambs of the window are not bowed **outwards** as this will make the window drafty.
- ◆ Use of expanding foam as a fixing aid;

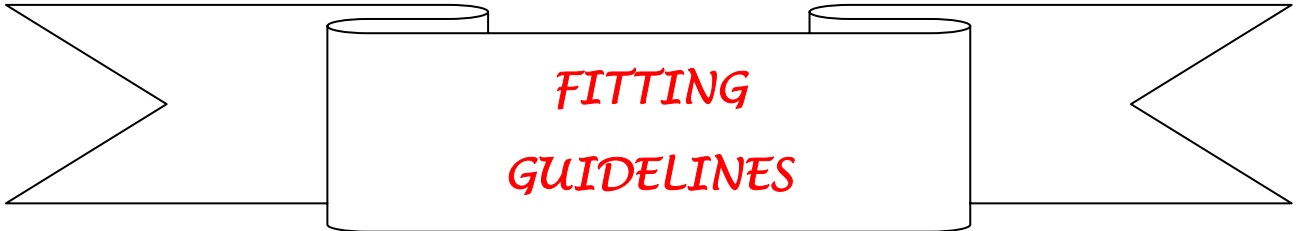
- Around corners of the Sash Window is acceptable

- **Too much foam** on the jambs will cause the frame to bow inwards, please use expanding foam *carefully* if being used as a fixing aid

- **THE USE OF FOAM ON WINDOW JAMBS IS NOT RECOMMENDED BY DUNGANNON WINDOW COMPANY LIMITED**

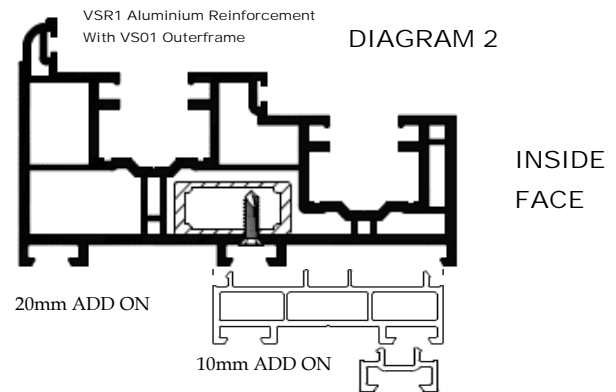
# DUNGANNON WINDOW COMPANY LIMITED

## VERTICAL SLIDING SASH WINDOW SPECIALISTS

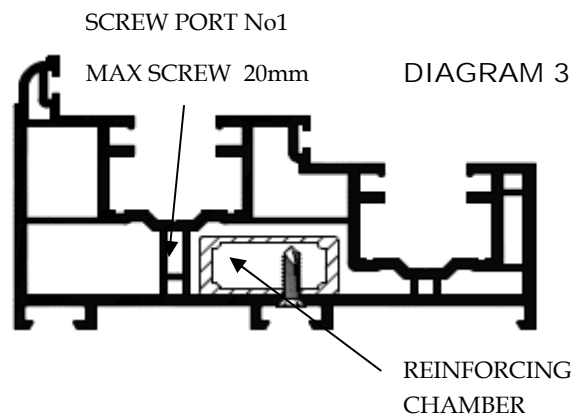


### ◆ Use of Add-Ons

Build-Up extension pieces are available from Dungannon Window Company Limited and come in 10mm, 20mm and 50mm and are designed for clipping into inside of outerframe (see diagram 2) but can be screwed onto the outside edge



**Please Note:** If you have to affix any other items please screw into Reinforcing chamber or screw port number 1 (not more than 20mm) as per diagram 3



Finally Protective Tape **must** be removed, as leaving it on the profile in direct sunlight can result in the tape becoming permanently affixed.

# DUNGANNON WINDOW COMPANY LIMITED

## VERTICAL SLIDING SASH WINDOW SPECIALISTS



### Building Regulations - Fire Safety

The Building Regulation document details that all inhabited rooms, (kitchens and bathroom are exempt), must have at least one window which has a clear opening size of no less than .33m<sup>2</sup>, and a minimum opening size of 450mm in any direction, for emergency egress from fire. (An opening of 450mm x 450mm is only .20m<sup>2</sup>.)

**Please Note**                      **Building Regulations Correct at time of printing**

### WINDOWS WITHOUT FIRE ESCAPE HINGED HARDWARE

Most Sliding Sash Windows over 1300mm in height will act as a Fire Escape (with the bottom sash slid up fully) without having to fit Fire Escape Hinged Hardware, this all depends on the width of the window, listed below are some examples of window sizes.

#### Example

#### Minimum Sizes

| <b>WIDTH</b>  |                | <b>X</b> | <b>HEIGHT</b> |                | <b>TOTAL</b>      |
|---------------|----------------|----------|---------------|----------------|-------------------|
| <b>WINDOW</b> | <b>CLEAR</b>   |          | <b>WINDOW</b> | <b>CLEAR</b>   |                   |
| <b>WIDTH</b>  | <b>OPENING</b> |          | <b>HEIGHT</b> | <b>OPENING</b> |                   |
| 900mm         | 760mm          | X        | 1300mm        | 450mm          | .34m <sup>2</sup> |
| 830mm         | 690mm          | X        | 1400mm        | 500mm          | .34m <sup>2</sup> |
| 765mm         | 625mm          | X        | 1500mm        | 550mm          | .34m <sup>2</sup> |
| 720mm         | 580mm          | X        | 1600mm        | 600mm          | .34m <sup>2</sup> |

**Please Note**                      As our Fire Escape Hinged System is *stiffer* to slide than a normal Vertical Sliding Sash, we only advised using the Fire Escape Hinged Hardware when windows do not pass the above criteria.

# DUNGANNON WINDOW COMPANY LIMITED

## **VERTICAL SLIDING SASH WINDOW SPECIALISTS**



### WINDOWS USING OUR FIRE ESCAPE HINGED HARDWARE

The minimum width of a Vertical Sliding Sash Window to pass this criteria is 625mm

The minimum height depends on the width but must be at least 600mm in height

To establish whether a window passes the criteria, calculate the width and height of the clear opening size with the following formula:

Width (minus 180mm) x Height (minus 130mm) = a total of .35m<sup>2</sup> or more

### Fire Escape Hinged Vertical Sliding Sash Window

This window does not operate as freely as our standard sash window but it does meet British Standard requirements and will pass building control criteria. We would advise **you not to oversell** the Fire Escape Hinged Sliding Sash Window.

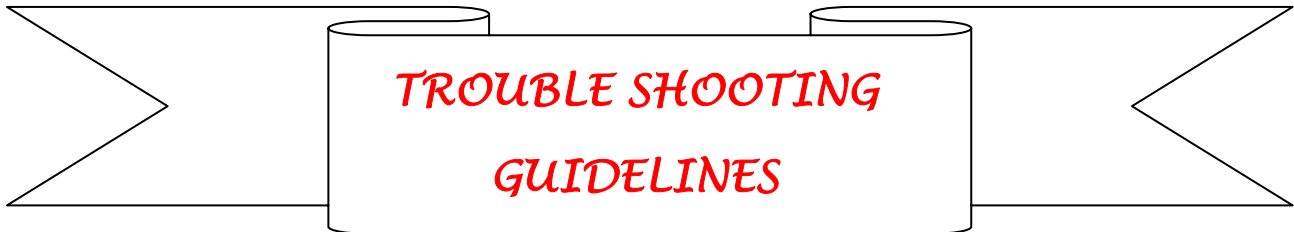
Please note the following points regarding its operation and feel free to pass this on to your customers:

- ◆ Must be fitted **100% square** - if not, windows will **not** operate correctly
- ◆ Hinge side must be fitted **100% straight**
- ◆ When sliding the sash upwards it is important to lift up at the opening side as this balances the sash and helps it slide more freely
- ◆ When sliding the sash downwards, it is important to apply force to the **hinge side only** as this helps to balance the sash at both sides
- ◆ To open window inwards, slide tilt button towards hinge side and pull inwards
- ◆ When closing sash, it is important to lift slightly at closing side

**These are fire escape windows and are designed to be opened inwards as fire escape only - they are NOT designed for constant use**

# DUNGANNON WINDOW COMPANY LIMITED

## ***VERTICAL SLIDING SASH WINDOW SPECIALISTS***



### **Vertical Sliding Sash Window Sashes that are STIFF to Slide Up and Down:**

- ◆ Ensure that packers between Sash and Frame are removed
- ◆ Frame jambs may be bowed inwards, check widths of frame both inside and out to ensure this is not so, may need to refit window and brace across frame

### **Vertical Sliding Sash Window Sashes that will not tilt inwards**

- ◆ Frame jambs may be bowed inwards and the tilt restrictor arms are catching in the balance chamber, check widths of frame both inside and out to ensure this is not so, may need to refit window and brace across frame.
- ◆ The tilt restrictor arms may have been bent, try to straighten, otherwise they will need to be replaced with new ones (see Balance Shoe / Tilt Restrictor Replacement Section)
- ◆ Tilt Latches may need replaced (see Miscellaneous Hardware Replacement Section for guidelines on replacing them)

### **Sashes Fall Down and Will Not Stay Up**

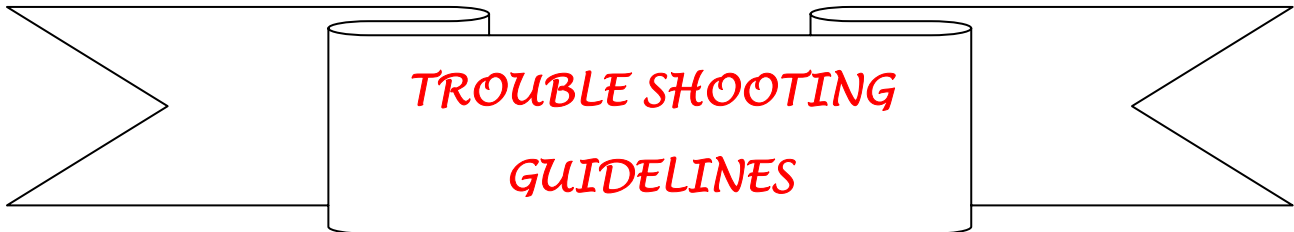
- ◆ Balance or Balances may be broken (needing replaced), tilt sash inwards and look on side for window number and provide Dungannon Window Company Limited with information as detailed for reordering of balances (see Balance Fitting Instructions for replacing them)
- ◆ Balances may need tensioned (see Balance Fitting Section for instructions)

### **Very Noisy - Ratchet Type Sound when Sashes Travel Up and Down**

- ◆ Balance rod is bent and needs replaced - provide Dungannon Window Company Limited with reorder information as detailed (see Balance Fitting Section for Instructions)

# DUNGANNON WINDOW COMPANY LIMITED

## VERTICAL SLIDING SASH WINDOW SPECIALISTS



### Sashes Do Not Slide Past a Certain Point

- ◆ Something is obstructing the travel of the Balance Shoe within the balance chamber. Slide to obstruction point, tilt Sash and examine above and below Balance Shoe to see if there is an obstruction

### Fire Escape Hinged Sliding Sash Windows - Sashes **STIFF** to Slide Up and Down:

- ◆ Fire Escape Hinged sashes are always stiffer to slide than normal vertical sliding sashes as they are side hung
- ◆ To *FREE* them up, Open inwards and the balance chamber can be oiled with a good type lubricant. Always ensure to lift sashes up at opening side and close at hinge side

### Glass Replacement

- ◆ Windows are internally beaded and the bead can be easily removed
  - Using a rigid scraper between the bead and sash
  - Prise the bead away from the sash
  - Replace Double Glazed Unit and
  - Pack as Diagram 4

Note: Ensure sashes are slid up fully before glass removal

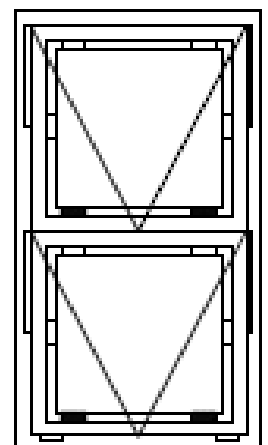
Note: The lock keeper on the bottom bead of the top sash must be screwed of before you can remove the bead

*If there are any raised Astragals to be refitted, contact Dungannon Window Company Limited for correct method for fixing bars to glass.*

### Glass Packing: DIAGRAM 4

All glazing should be in accordance with BS6262, and all current codes of practice.

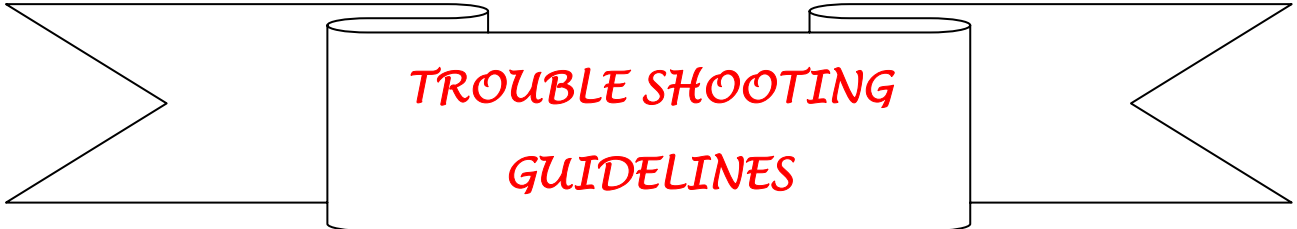
Position the glazing packers as illustrated below:



- Spacer
- Glazing Packer

# DUNGANNON WINDOW COMPANY LIMITED

## ***VERTICAL SLIDING SASH WINDOW SPECIALISTS***



Often the best solution to any problem is to have your Fitters / Maintenance Officer call from site and ask to speak to Tom or Gary for advice (028) 8772 5016.

### REORDER INFORMATION

Order Date: \_\_\_\_\_ Window Size: \_\_\_\_\_

Order Number: \_\_\_\_\_ Window No: \_\_\_\_\_

Order Ref: \_\_\_\_\_

Description of Problem: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_