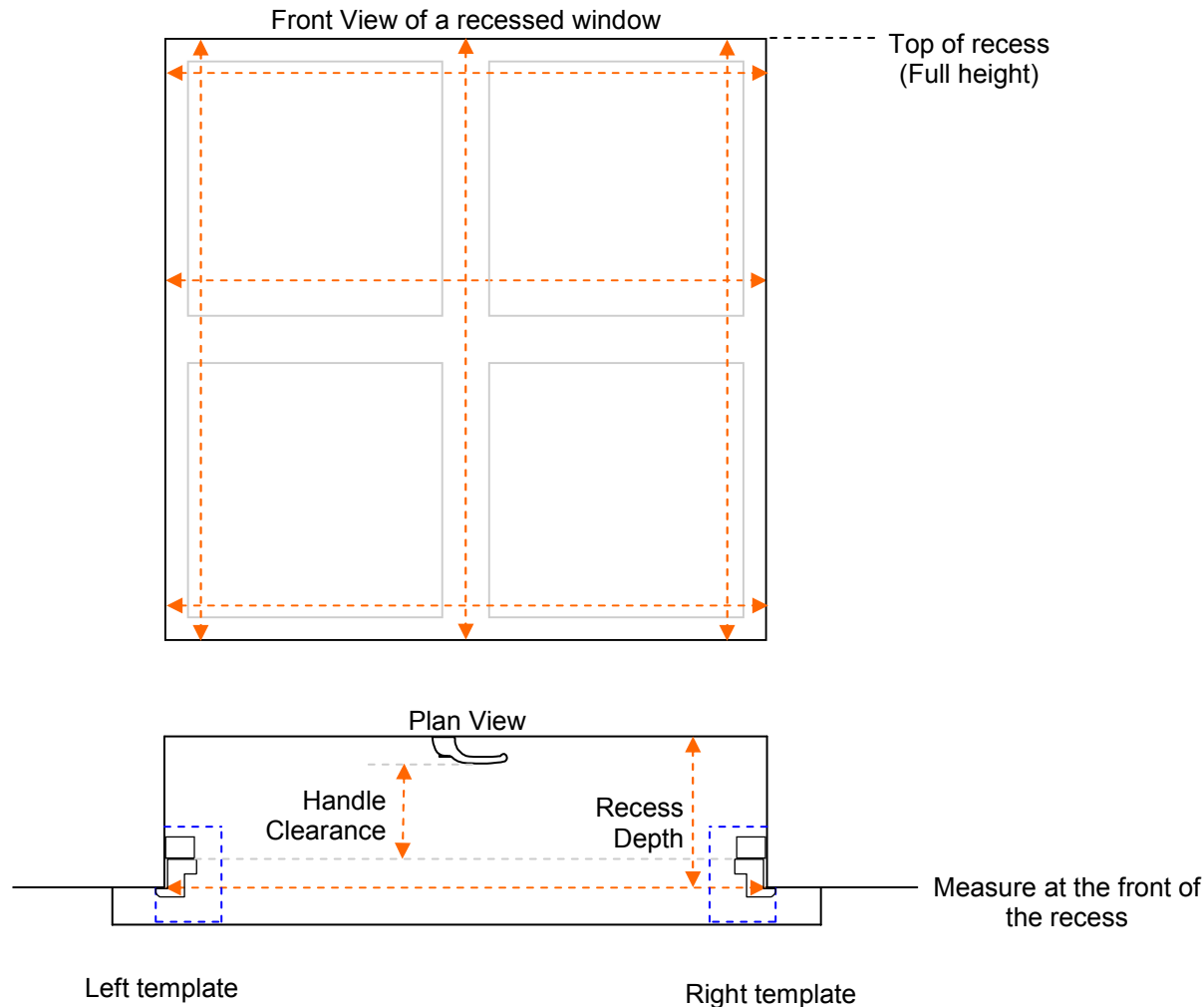


## MEASURING: WIDTH & HEIGHT



## 3.0: Z Frames

### How to measure for a Z frame

The Z frame will frame your window, allow the shutters to wrap back around the wall and hide any un-even recesses.

Measure at the front of the recess, this is where the Z frame will fit. Always measure in several places.

#### Clearance

5mm fitting clearance is allowed between each frame side from the inner Z frame section and wall.

Use the template to see how the frame will fit and to check the louvre clearance.

#### Width

Measure in 3 places across the width at the front of the window.  
(Use the smallest width.)

#### Height

From the window sill, at the front of the recess, measure the height in 3 places.  
(Use the smallest height.)

#### Handle

Measure how far any handles protrude from the face of the window frame. Check this against the templates. See guide '1.2 Protruding objects' for advice.

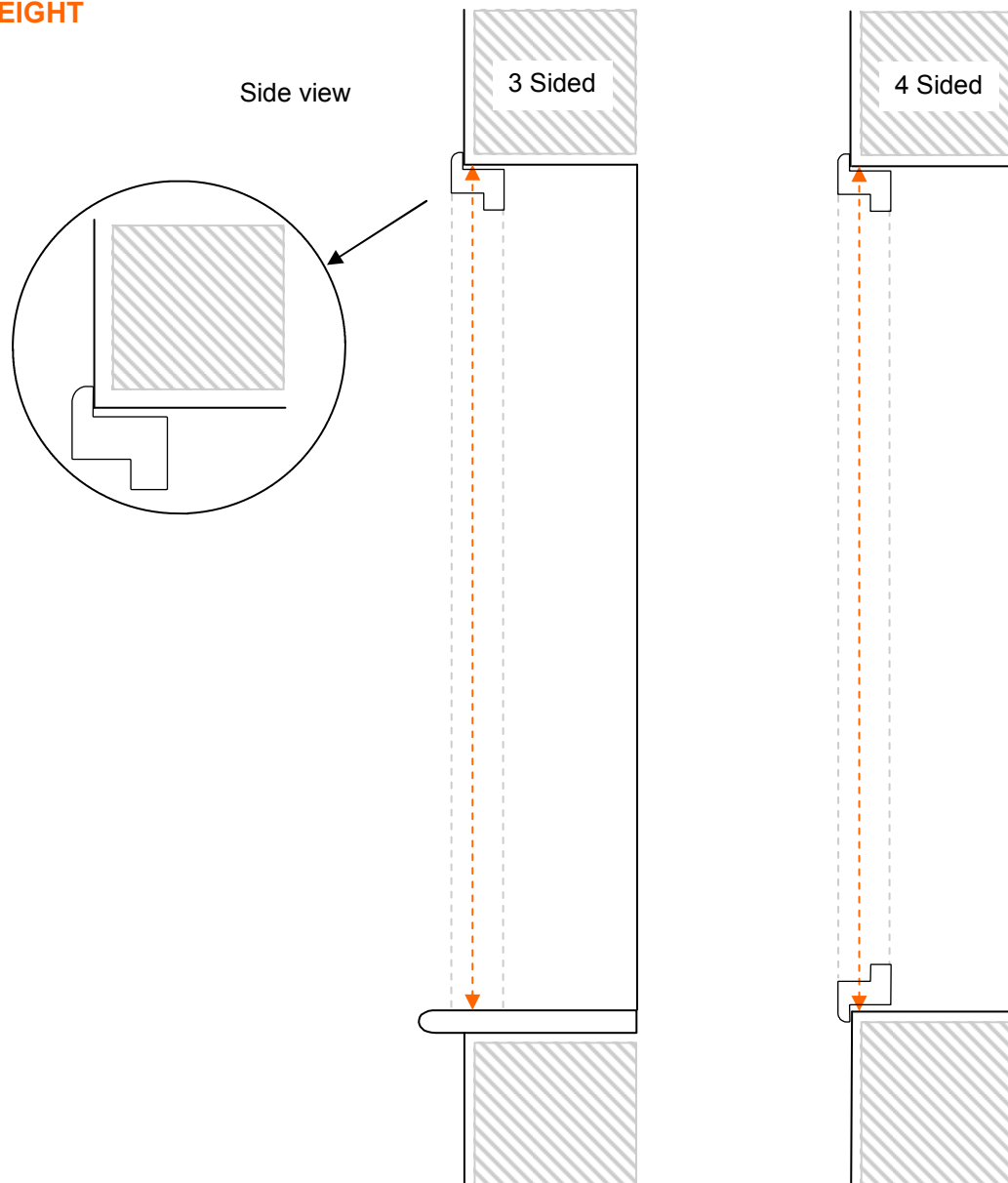
#### Recess depth

The Z frames fit half in and half outside the recess, so check the depth against your chosen louvre size to ensure there is enough clearance.

#### Templates

The templates will show you where the Z frames are fitted within the recess and allow you to check the louvre blade clearance.

## MEASURING: HEIGHT



### 3.0: Z Frames

#### How to measure the height

The Z frame can sit down onto your window sill (3 sided frame) or surround the window (4 sided frame).

#### 3 Sided

Measure the height from the window sill on the left, centre and right hand side to inside of the top recess.

**Recess** - When ordering recess size, 5mm will be deducted from your height to allow the frame to fit inside the recess and be adjusted.

#### 4 sided

Measure the height from recess to recess across the left, centre and right hand side of the window.

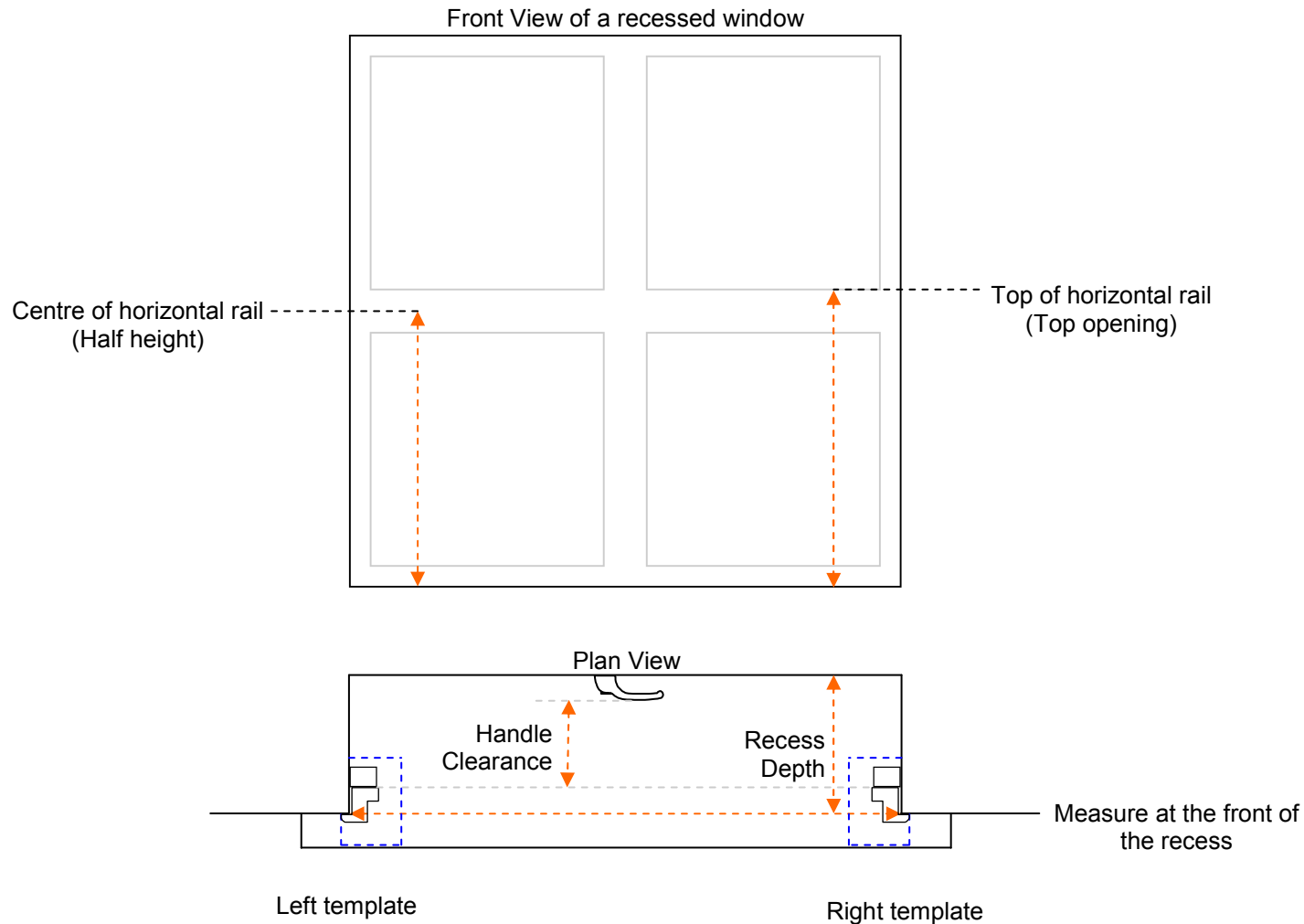
**Recess** - When ordering recess size 10mm will be deducted from your height to allow the Z to fit inside the recess and be adjusted up and down.

#### Frame size

When ordering frame size no additions or deductions will be made.

Please take note of where the Z frame order sizes are taken from on the last page.

## MEASURING: RAIL HEIGHTS



### 3.0: Z Frames

#### Rail heights

Z frames can be fitted with the following shutter designs:

Full height - Half height - Top opening

Find out where to take the height measurement on each design:

#### Horizontal rail

Measure from the sill or bottom or recess to the **centre** of the rail on the window.

Heights over 1800mm require a horizontal rail as standard.

#### Half height

Half height shutters with Z frames are not a popular option.

Measure from the sill or bottom of recess to the **'top'** of the window rails, take the highest measurement.

3 sided frames (no top) are recommended for half height shutters with Z frames.

#### Top opening

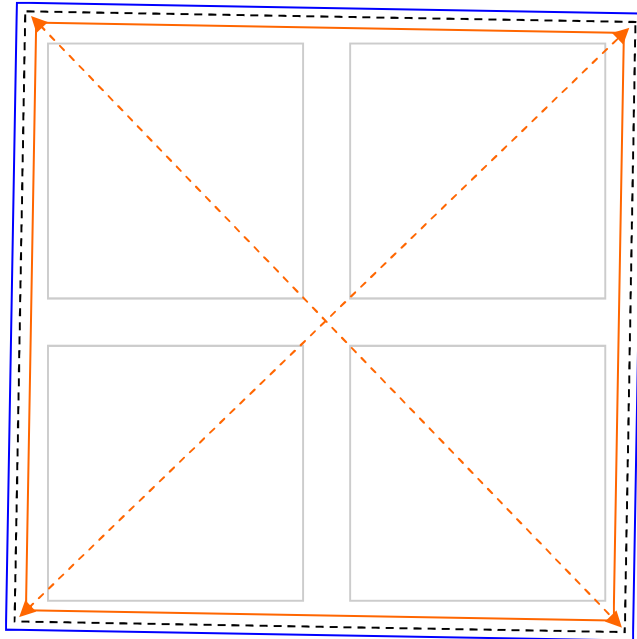
When the top set of shutters are open it is important that you do not see any of the rails on the window as these can be out of level and will make the shutters appear out of level if this height measurement is taken too low.

Measure from the sill or bottom of recess to the **'top'** of the rails on the window, take the highest measurement.

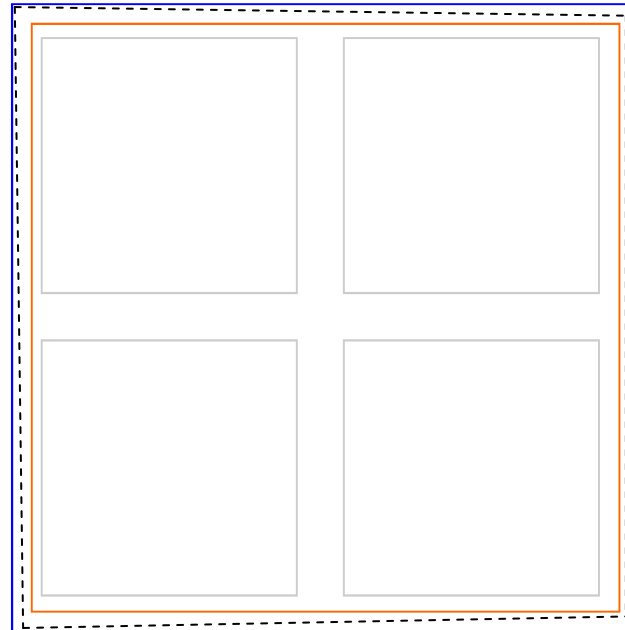
### 3.0: Z Frames

#### MEASURING: OUT OF LEVEL WINDOWS

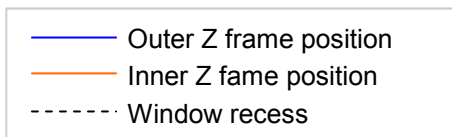
Window A



Window B



Level line



#### What if my window is out of level?

##### Window A

Sometimes windows can be out of level but still square like in this example. You can check how square your window is by measuring across the diagonals.

Both measurements will be the same if the window is square. The shutter frame can be fitted to match the window, it does not have to be fitted level.

##### Window B

In this example you can see the top runs out of level to the left, the bottom drops to the left and the left side is wider at the top than on the right.

Although it should not happen, it is quite normal to find when measuring.

Using a level, work out the smallest width and height from the levels you take.

This might be one reason you choose to order 'Frame' size rather than 'Recess' size. It allows you to create your own clearance gap according to the levels of your window.

##### Z overlap.

Allowing for the 5mm clearance this Z frame will overlap the recess by 11mm. Check the window is not more than 11mm out of level, if it is you may need to select a wider Z frame.

##### Advice

If you would like further advice please upload photos of your window and a similar Drawing B with the relevant sizes and levels shown.

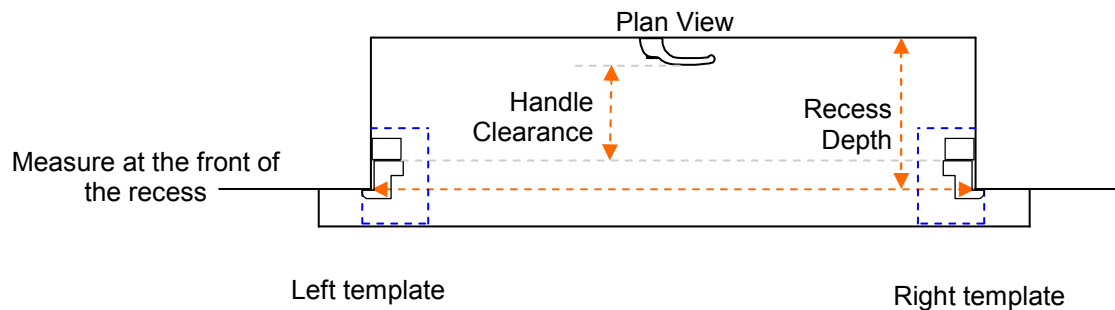
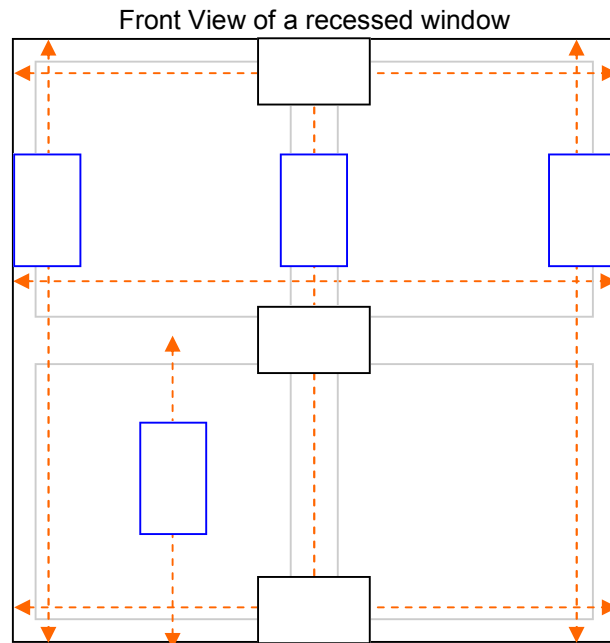
## MEASURING: SURVEY FORM

### 3.0: Z Frames

#### Survey form

Enter your exact window recess sizes into the boxes on the left.

Enter the smallest recess order sizes below:



Key:

Height

Width

#### Shutter details

Room name

Shutter type

Louvre size

Colour

Frame size

Folding

Options

#### Smallest order sizes

Width

Height

Horizontal Rail

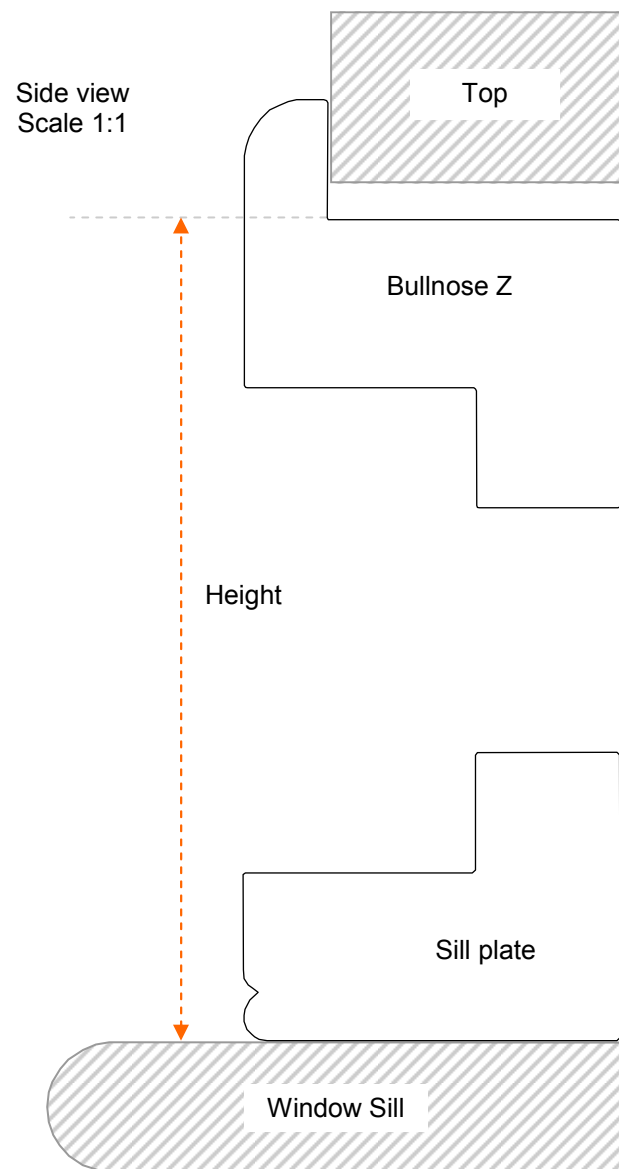
Top opening

Handle

**'Double check your measuring'**

### 3.0: Z Frames

#### MEASURING: OPTIONAL BOTTOM SILL PLATE



#### Optional bottom sill plate

The sill plate is designed to sit on the window sill providing a 4 sided frame option to this Z frame.

The sill plate offers support for the shutters and provides a neat finish to the bottom of the frame.

Measure from the window sill to the inner Z frame for the 'Frame' height.

**MEASURING: FRAME ORDER SIZE**

**Frame size**

An important note about how all Z frames are measured.

The decorative overlap is not part of the frame dimensions.

**Important:**

All 'Frame' order sizes on Z frames are taken from this highlighted edge.

