

Celeste



Triple skin flat roof windows – Installation Guidelines



Celeste flat roof window

Introduction

Celeste is a range of high quality roof-lights designed to give home owners the opportunity to maximise the use of natural light in flat roofed structures. The roof-lights offered by **nbs** can have fixed or opening triple skin dome windows. The Non-ventilated or Ventilated up-stands are made from Glass Reinforced Plastic (GRP) with an inbuilt insulation layer.

Window opening models

A manually operated mechanical stay holds the triple skin dome window at any position from closed to a maximum opening of 280mm. A two metre opening rod is optionally available.

Roof Finishes

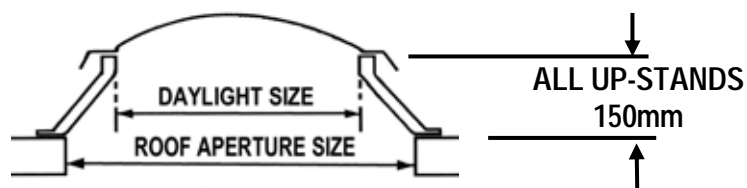
Celeste flat roof windows can be installed in three layer felt, mastic asphalt and glass fibre matting.

Celeste models

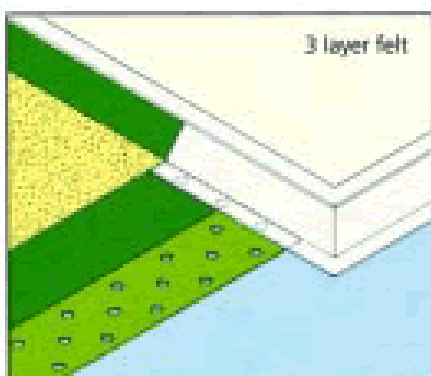
Daylight size (All models) mm	Models with Non-vented up-stands			Models with Vented up-stands	
	Roof aperture size mm	Fixed dome window nbs model	Opening dome window nbs model	Roof aperture size mm	Fixed dome window nbs model
400 x 400	650 x 650	CFNV4040	CONV4040	600 x 600	CFV6060
500 x 500	750 x 750	CFNV5050	CONV5050		
600 x 600	850 x 850	CFNV6060	CONV6060	800 x 800	CFV8080
750 x 750	1000 x 1000	CFNV7070	CONV7070	950 x 950	CFV9595
800 x 800	1050 x 1050	CFNV8080	CONV8080		
900 x 900	1150 x 1150	CFNV9090	CONV9090		
1000 x 1000	1250 x 1250	CFNV1010	CONV1010	1100 x 1100	CFV1111
1200 x 1200	1450 x 1450	CFNV1212	CONV1212		
400 x 700	650 x 950	CFNV4070	CONV4070		
400 x 1000	650 x 1250	CFNV4010	CONV4010		
500 x 1000	750 x 1250	CFNV5010	CONV5010		
700 x 1000	950 x 1250	CFNV7010	CONV7010		
1000 x 1600	1250 x 1850	CFNV1016	CONV1016		

* To comply with strength and fire regulations all triple skin dome windows have an....
 Outside skin made from polycarbonate
 Middle skin made from acrylic
 Inside skin made from polycarbonate

Flat roof window with an outside OPAL skin – have OS added to the model reference e.g. CFNV4040OS

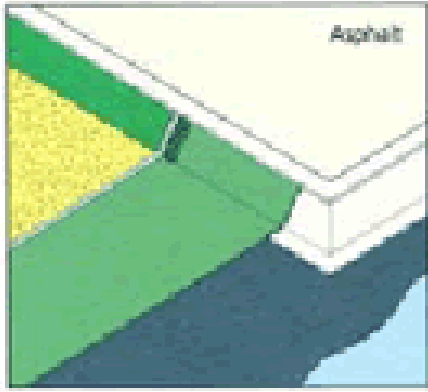


Key dimensions for Celeste triple skin roof windows



Three layer felt roofing

The first layer of felt is laid to the edge or the trimmed opening. The Celeste GRP up-stand is then bedded into position. The second layer is then laid to abut to the edge of the up-stand. The final layer is then laid running over the up-stand to finish under the lip.



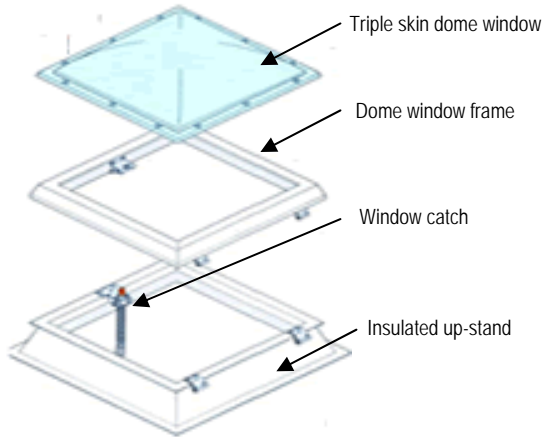
Mastic asphalt roofing

When fixing to asphalt roofing the Celeste GRP up-stand is simply set in bitumen and screwed to the decking in the normal way. Once the up-stand is fixed, sheathing felt should be laid to mask the sides of the up-stands and then the asphalt can be laid in the normal way.

Glass Fibre Matting

The outer surface of the Celeste GRP up-stand is treated with a weather coating. In order to enable glass fibre matting to bond satisfactorily to the up-stand, this weather coating must be removed by cleaning with Acetone or Methylene Chloride.

Celeste components



Complete unit

Fire Regulations

External exposure designation:

Polycarbonate performs well under fire conditions. All Celeste dome windows achieve the highest external rating - FAA.

The polycarbonate used to construct Celeste outside and inside skin on the dome window has a Tp(a) rigid classification as described in Approved Document B of the Building Regulations.

Surface spread of flame:

Polycarbonate has a Class 1 surface spread of flame to BS476: Part 7. **Class O**

Whilst not a classification identified in any British Standard test, Class O is recognised as the highest level of product performance for lining materials. To obtain Class O classification a material must be:

- a) Of limited combustibility as described in Approved Document B, or
- b) A Class 1 material which has a fire propagation index (I) of not more than 12 and sub-index (I1) of not more than 6.

Polycarbonate is a Class O material.