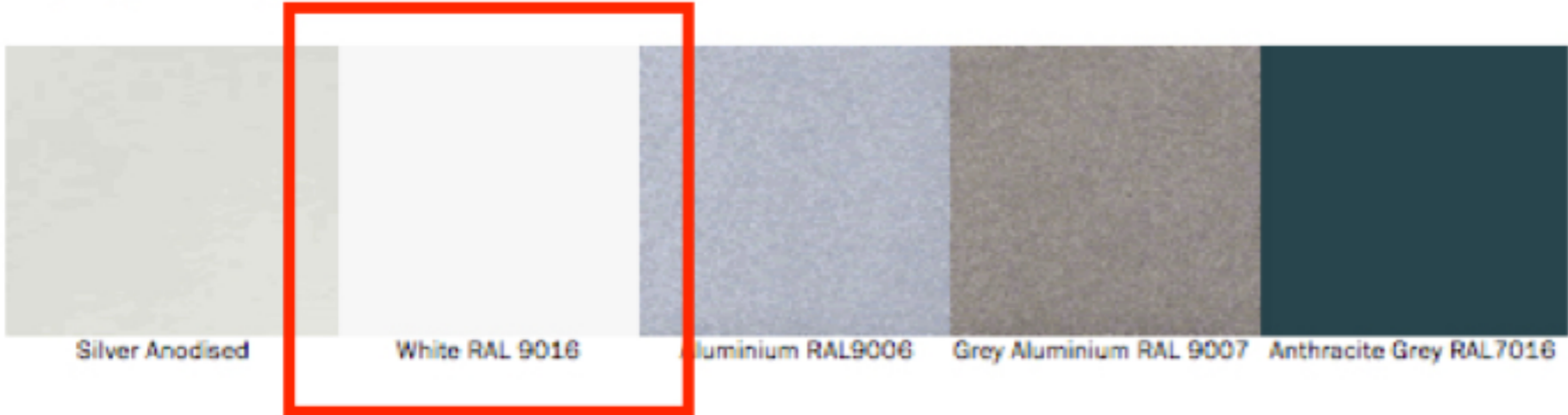


# SF55v Finishes

## Standard Aluminium Finishes

As standard we offer the choice of the 5 colours shown below. These colours offer our shortest lead times and are included within our quotations. Once we have prepared a quotation we are able to send colour samples for approval prior to progressing with your order.







# Glazing

The SF55v versifold door system is internally glazed and can accommodate glazing ranging from 4mm clear toughened glass up to a triple glazed sealed unit of up to 36mm.

Our standard 28mm unit comprises of 4mm clear toughened glass with Low-E (low emissivity) to the inner pane x 20mm argon gas cavity x 4mm clear toughened glass. This complies with the Building Regulations for safety and thermal efficiency.

All units are BS kite marked, manufactured to BS EN 12600 and BS 5713:1979 standards.

IDSystems offer a wide choice of glazing options. Including, manual or electrical internal venetian or pleated blinds which can be incorporated inside the glazed unit. These are very popular, especially on internally opening systems where curtains are not practical.

## Operating system

The stainless steel running mechanism consists of four wheels, manufactured from tough glass fibre reinforced polyamide. And set around a maintenance-free sealed ball-bearing, giving a quiet, smooth operation with optimum resistance to extreme weather and temperatures fluctuations.

The Sunflex SF55v versifold door can be adjusted to alter height and load of the system to provide a degree of tolerance. The wheels of the running mechanism run in a channel in the sides of the track rather than sitting directly on the bottom. Unlike many inferior systems, this minimises the risk of the operating system fouling, should any dirt or debris be allowed to build up in the bottom of the track.



# Security

The standard locking system offers a very high level of security with a quick, smooth and easy operation. It consists of a two-point top and bottom shoot bolt mechanism, which is incorporated into the framework within each intermediate panel. For improved security all Sunflex folding door systems are internally glazed as standard with centre secured locking hinge pins and interlocking gaskets.

The lead door features multipoint lock and a five-lever profile cylinder. It can be fitted to either the inside only or both internally and externally, meeting the requirements of the Association of British Insurers.

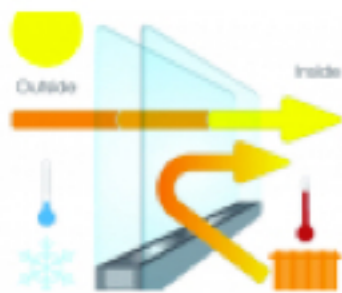
The shoot bolt rods are manufactured in aluminium and linked by a corrosion resistant cam. In addition they are capped with polyamide cones that prevent any damage to the track when locking, whilst compressing the panels tight against the top and bottom seals.

Throughout the range of Sunflex folding systems you have the option of internal and/or external handles. Handles are fitted to every intermediate door panel and additional locks can be added at these points for higher security.

## Weathered track

In any exposed location we would always recommend the use of a weathered track. When used with an outward opening door a weathered track can be fully recessed below your internal floor level meaning that there is no threshold to trip over, just a 35mm step down to the outside. An external deck or paving can be brought up to the track on the outside giving a very minimal difference in levels whilst maintaining a weather tight seal.



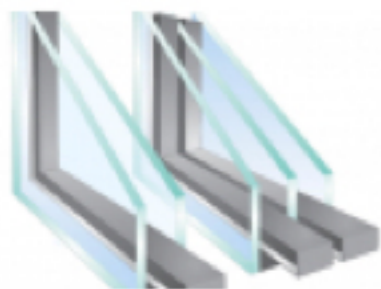


## U-values and heat losses

A U-value is a calculation of the amount of heat lost through a building material. The calculation of U Values can be quite complex as it is measured as the amount of heat loss through a 1 square metre of material for every degree difference in temperature either side of the material. It is indicated in units of watts per square metre per degree Kelvin or  $W/m^2K$ . The simplest way to approach u-values is the lower the u-value the more thermally efficient a product is.

A u-value of a door or window is calculated by working out by determining the u-value of the frame and the area of the glass and is then quoted as an overall u-value. Beware that some manufacturers may just be providing the u-value of the glass alone which gives a false overall value. All of our systems have been thermally simulated in accordance with CE standards to EN 10077.

Building Regulations approval will be required on all extensions and new builds to which we are able to provide CE data showing compliance. Any replacement works we are able to cover being a member of Fensa and a certificate would be provided on completion of our installation.



## Double or triple glazing

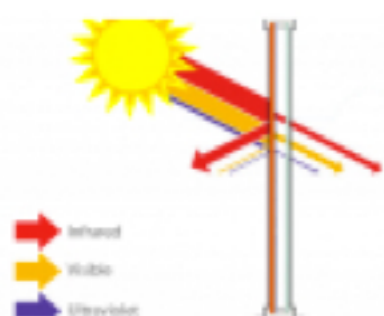
Double glazing is a minimum requirement for external doors and windows. Our standard double glazed units consists of a soft-coat low-e pane and an argon gas filled cavity which provides a centre pane u-value of  $1.2W/m^2k$ . Over the standard we can provide super insulated double glazed units providing a centre pane u-value of  $1.0W/m^2k$  whilst providing solar control.

Triple glazing is becoming increasingly popular, especially in total new builds, as it provides the lowest u-values possible and can be up to 40% more efficient than double glazing. Combining two panes of low-e glass and two gas filled cavities glazing u-values as low as  $0.5W/m^2k$  are possible with the added benefit of great sound reduction.

For more information on our huge range of glazing options or for help in specifying the correct glass for your project contact our technical sales department on 01603 408804.



## Solar control and the benefits of solar gain



With the standard glass specification retaining as much heat as possible you may wish to consider reducing the heat transfer from outside which is known as solar gain. Solar gain can make glass roofs, conservatories or south facing elevations quite unbearable in the height of summer months like stepping into a greenhouse. A solar control glass is a glass with either a special coating or a body tint to reduce the amount of heat entering a building either by reflecting or absorbing heat. Using a solar control glass can reduce the need for air conditioning and blinds. Whilst the solar control glasses are great at reducing the heat they will also have an impact on light transmittance.

Building control often recognise the benefits of solar gain in modern buildings as large areas of glass will work as a source of free energy during cooler months and increased solar gains are recommended. The use of low-iron glass can increase the heat and light transmittance to provide further solar gains during the autumn and winter months. Many modern designs incorporate overhangs to glazing to cast shadows over glazing during the summer combatting the solar gains, thus allowing solar gains as the sun gets lower in the sky later in the year reducing the need for heating.

## Safety glass

As standard we fit toughened glass to comply with Building Regulations Document N as an alternate method of compliance we are able to fit laminated glass. Both options have their pros and cons





# Appearance

The Sunflex SF55v system is available as standard in silver anodised EV1 or polyester powder coated to a semi-gloss finish - white RAL 9016; aluminium RAL 9006; grey aluminium RAL 9007; or anthracite grey RAL 7016.

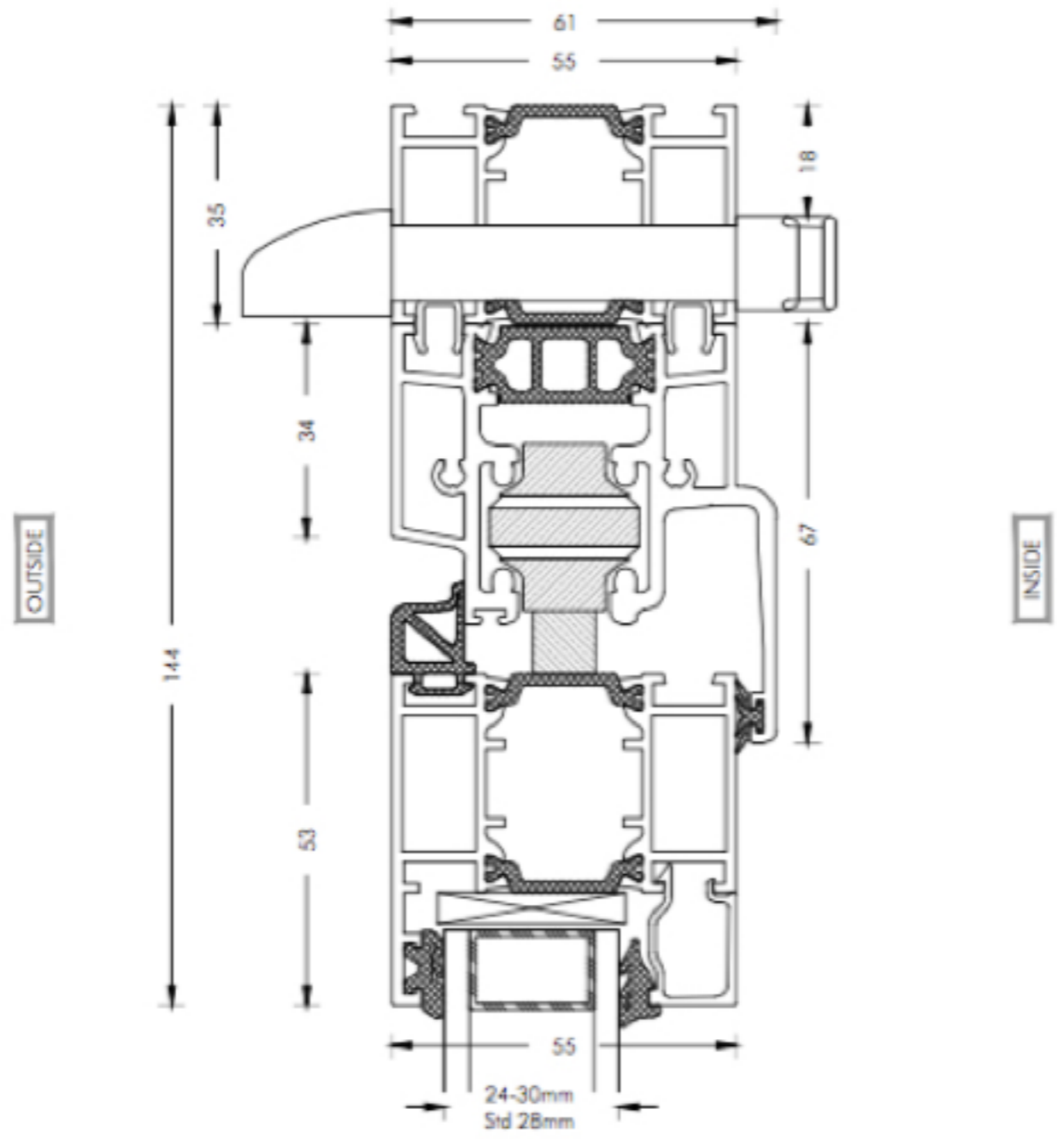
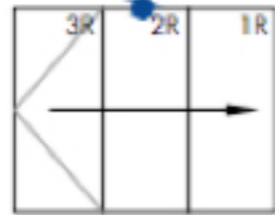
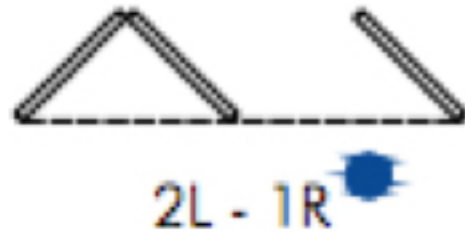
Single doors fitted as standard with lever handles. With first opening pair and intermediate door panels fitted with flush handles are specially designed to complement the door system. Standard colours are white RAL 9016; black RAL 9011; aluminium RAL 9006; grey aluminium RAL 9007; or anthracite grey RAL 7016. Gaskets are in black, with hinges mounted within seal sightline available in white RAL 9016 or black RAL 9011.

Other RAL colours are available with over 200 colours to choose from. You can even have different colours to the inside and outside (dual colour) or different wood grain effects are available for a nominal charge. The RAL colours can be applied to the handles and hinges if required or alternatively there is a stainless steel handle and hinge option. In addition you can specify whether a matt, semi-gloss or full-gloss level of paint finish is required.

A marine environment finish, required to all systems within 5,000m of a shoreline or chemical swimming pool environment, is also available.

# Ventilation

Trickle vents with an airflow equivalent to 2,500mm<sup>2</sup> or 5,000mm<sup>2</sup> can also be incorporated with the addition of a 35mm add-on head profile. These will be colour coded to suit the frame colour choice.



Description **Vertical Section - Connection**  
**Top Track With 35mm Extension And Trickle Vent - Panel /**  
**Open Out**

Detail No: **SF55-02TV**  
 System: **SF55** **B**