



**TECHNICAL** EXCELLENCE

THE FORMULA ONE RANGE

# ENJOY THE BENEFITS OF TECHNICAL EXCELLENCE AND SUPERIOR DESIGN

Our product range has been derived from decades of manufacturing, along with extensive experience in research and development to give the best technical solutions combined with superior design.

From windows and doors to conservatories and garden rooms, our winning formula comprises the best in design solutions, high quality PVCu profiles, glazing, thermal performance, security and sustainability.

Our fully guaranteed products offer high performance solutions through energy-efficient design and glazing options that keep your home warm. In addition, to keep your home secure, high level security features are included as standard to give complete peace of mind.

Alongside first-class service and customer satisfaction, you'll also find a commitment to energy saving and the environment at Formula One that we're rightly proud of and constantly looking to develop as we all strive to find ways to have positive effects on our planet.



## TECHNICAL EXCELLENCE CONTENTS

|                                               |       |
|-----------------------------------------------|-------|
| Technical excellence and superior design..... | 3     |
| What makes us different .....                 | 4-5   |
| Superior service at every stage .....         | 6-7   |
| Glazing and efficiency.....                   | 8-9   |
| Energy and sustainability .....               | 10-11 |
| Security with confidence .....                | 12-13 |



# WHAT MAKES US DIFFERENT

## PERFORMANCE AND INDIVIDUALITY

You want to be confident that your new windows, door or conservatory will keep you protected from the harsh extremes of the weather, keep your home secure, improve your comfort and lifestyle, as well as give your home a sparkling new look for many years to come.

At Formula One we build in durability and reliability as standard. All our windows and doors are fully tested to withstand the very worst weather conditions - from scorching hot to freezing cold plus driving wind and rain - so you can be sure that wherever you live we can provide the best solution for your home.

Our range also offers the very best in security with all locks purpose made using the highest quality materials and tested to meet the Police Preferred Specification (Secured By Design) to give complete peace of mind that the security of your home is not compromised.

You can also choose from a selection of designs and a range of popular colours - from a standard brilliant white to a distinctive range of coloured foil finishes for something more discerning. Whatever your choice, you can be sure of producing a special and unique look for your property that will also give optimum performance whatever the weather.

### A HIGH PERFORMANCE SOLUTION

All our frames are manufactured using high impact, high performance PVCu. Fully sculptured, our Ideal 70 profile delivers exceptionally clean and slim sightlines and the flexibility and subtlety for use in retail, new build and specification sectors.

All frames are fusion welded and NOT screwed together, ensuring better cohesion and corrosion stability. The main profile depth of 70mm with integrated five chambers (front to back) is at the core of the system. All outer frame PVCu walls are approaching 4mm thickness and incorporate two chambers either side of the reinforcement chamber, preventing thermal bridging and providing superb thermal insulation.

Design highlights and benefits include:

- Five chamber, 70mm energy efficient design.
- Internal glazing beads for extra security and meets weather tightness standard BS 6375.
- A low-line PCE co-extruded gasket providing outstanding weather performance whilst complementing the elegant sightlines. Severe weather rating for windows and doors openings and glazing is achieved by double seal using TPE (Elastomer) gaskets, fusion welded at each corner to eliminate shrinkage, to BS 4255-1 and BPF 345/2.
- Deep drainage furrow.
- Profile thickness for firm hardware anchoring.
- Profile specific galvanised steel reinforcement to BS EN 10346.
- Glass units are Argon gas filled super spacer, warm edge technology double glazed units tested to BS EN1279-2&3 /BS EN 1215

## STANDARD CASEMENT

### 1. GREAT FINISH

The Ideal 70 offers a premium quality finish. A pioneering system means that Formula One can also guarantee environmental performance with eco-tech 70 recycled content options.

### 2. BEADING

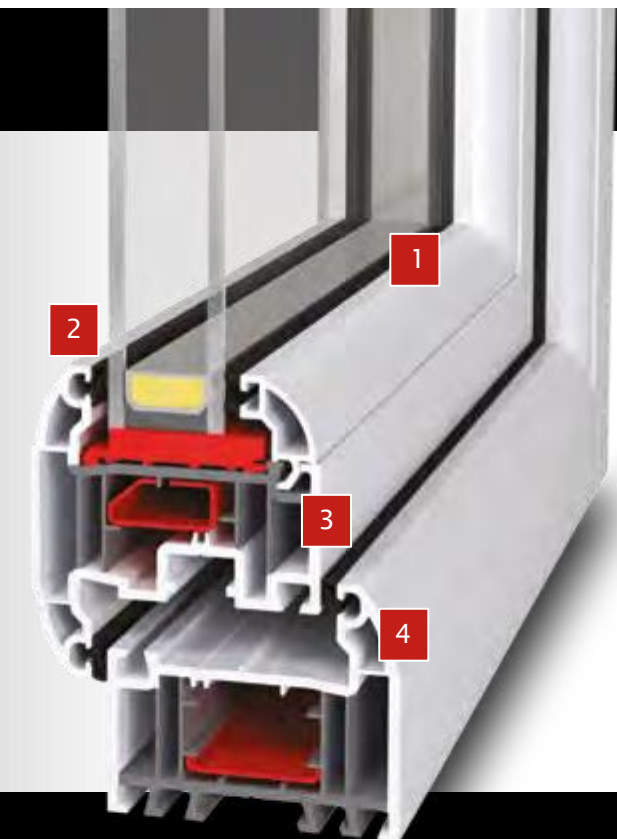
The Ideal 70 has a full range of beading options from a 24mm to a flush fitting 44mm bead, double and triple-glazed options are easily accommodated to achieve a WER A++ rating.

### 3. SUPERB WEATHER PERFORMANCE

A 23mm rebate with an 8mm cover gives an optimum weathering performance.

### 4. FULLY SCULPTED

The Ideal 70's fully sculptured 70mm five chamber system provides excellent insulation to achieve a WER A++ rating.



## FLUSH SASH CASEMENT

As a sculptured system, designed specifically for the UK and Ireland, Ideal 70 offers a great match to period properties. The aluplast Flush Sash builds on this foundation with additional period detailing including a deep bottom rail, dummy sash options and the option to replicate a 90o traditional mechanical joint.

### SPECIFICATION

- 70mm five chamber system
- A++ WER rating and u-values as low as 1.2W/m2K
- Fully sculptured suite of profiles provide an end product mirroring sightlines from fixed lights to opening sash
- Standard 24mm all the way through to flush fitting 40mm beads suitable for the best performing triple glazed sealed units
- Flush option
- Premium surface finish
- Extensive range of woodgrains colours and foils including flat colour options
- Extruded using ecotech our pioneering recycled content system
- A 23mm rebate with an 8mm cover gives optimum weathering performance
- Can be manufactured to PAS24



# SUPERIOR SERVICE AT EVERY STAGE



## FIRST CLASS SERVICE & SATISFACTION

Our Authorised Dealers, with local showrooms, will be happy to show and explain all the Formula One range options and choices in person. In addition, our factory technical support team is on hand to assist with specifying or advising on any project. We'll make sure that your order and specification is exactly what you need.

### QUICK PRODUCTION TURNAROUND

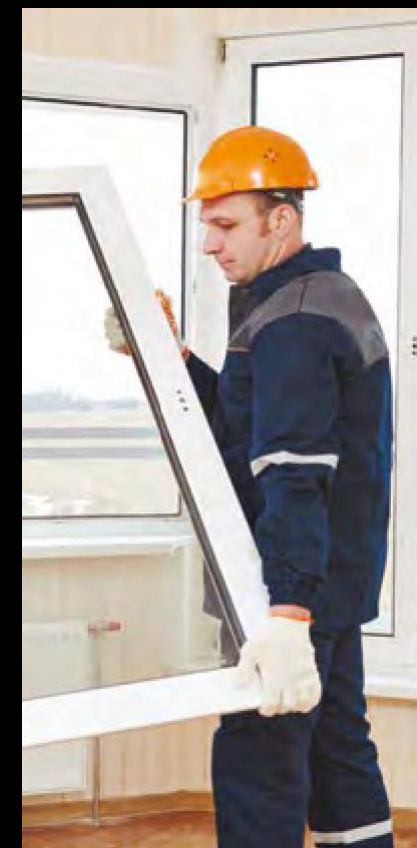
We fabricate most orders within five business days. That means our installers can usually schedule your installation quickly, fully confident that your products will be delivered on-time without delays, nationwide.

### FLEXIBILITY AND CHOICE

With slim-sightlines, an extensive choice of colours and finishes and excellent Secured By Design security, it's no wonder homeowners, architects and developers choose the Formula One range. Our windows, doors and conservatories offer thermally-efficient double or triple glazing with 'A' energy rating as standard so your home will be warmer and you'll spend less on heating and cooling bills.

### SATISFACTION GUARANTEED

As an owner-managed business we are approachable, knowledgeable and hands-on. We pride ourselves on delivering superior service levels and will always go the extra mile to ensure total customer satisfaction.



### FULLY GUARANTEED PRODUCTS

Provided that they are used and maintained, as per our miniatous handbook. All our products are covered by a comprehensive manufacturer warranty.

- **PVCu Profile**  
10 years against discolouration, warping and cracking
- **Window Handles**  
10 years mechanical operations & 10 years surface finish
- **Window Hinges**  
10 years mechanical operations
- **Window Locks**  
10 years mechanical operations
- **Door Handles**  
10 years mechanical operations & 10 years surface finish
- **Door Hinges**  
10 years mechanical operations & 2 year PVD surface finish
- **Door Locks**  
10 years mechanical operations & 12 months surface finish
- **Glass**  
10 years for all units supplied with super spacer & 5 years for other spacer bar options



FULLY  
GUARANTEED

# GLAZING AND EFFICIENCY

## THE ENERGY EFFICIENT DESIGN THAT KEEPS YOU WARM

Fitting energy-efficient windows and doors can cut the cost of heating your home dramatically and, since a better insulated home consumes less energy, it also reduces harmful CO2 emissions.

All Formula One glazed units are Argon gas-filled and benefit from super spacer, warm edge technology. This German engineered system comprises a thermally efficient, five chamber PVCu unit which creates a barrier between cold air outside and warm air inside.

Our standard double-glazed units are 'A' rated and tested to BS EN1279-2& 3 / BS EN 12150. They offer a net energy gain of 2KWH/m2/per year to the household.

Our standard window glazing specification starts with affordable, efficient 'A' rated double-glazed units, whilst upgrade options offer the choice of higher energy efficiency and specialist glazing effects.

Glazing options available include:

- Upgrades to Triple glazed units to an Energy Rating of 'A++'
- Specially coated double or triple-glazing that reduces solar loss/gain
- Glazing styles including Frosted glass, Etched glass, Stained glass, Georgian bars and Leaded glass.

In very large glazed areas like conservatories, thermal loss and solar gain become particularly important to ensuring comfortable year-round use. So in addition to the 25mm (standard) polycarbonate roof, we offer a 40% thicker 35mm option too.

Window Energy Ratings rate windows from 'A/A+' to 'G' using a 'traffic-light' type colour code and to meet building regulations, all new windows must achieve a minimum WER 'C' rating or U-value of 1.6 or less.

Although conservatories are not rated in the same way our products are nevertheless equally energy efficient ensuring your home performs well.



28mm

### A ENERGY SECURE

**Important energy and noise performance:**

U Value (The measure of thermal performance) = 1.4

Noise Reduction Qualities = -31db

- 70mm depth frame
- 60mm outer frame height
- Glazing element is Pilkington KS Softcoat
- 4mm Annealed outerpane / 20mm super spacer / 4mm KS Softcoat inner pane
- All Glazing units are compression gap sealed and Argon filled



36mm

### A+ ENERGY SECURE

**Important energy and noise performance:**

U Value (The measure of thermal performance) = 1.2

Noise Reduction Qualities = -32db

- 70mm depth frame
- 60mm outer frame height
- Glazing elements are Pilkington Optiwhite & KS Softcoat
- 4mm OptiWhite outerpane / 12mm super spacers / 4mm KS Softcoat centre & inner pane
- All Glazing units are compression gap sealed and Argon filled



40mm

### A++ ENERGY SECURE

**Important energy and noise performance:**

U Value (The measure of thermal performance) = 0.8

Noise Reduction Qualities = -32db

- 70mm depth frame
- 50mm outer frame height
- Glazing elements are Pilkington Optiwhite & KS Softcoat
- 4mm OptiWhite outerpane / 14mm super spacers / 4mm KS Softcoat centre & inner pane
- All Glazing units are compression gap sealed and Argon filled

# ENERGY AND SUSTAINABILITY

## TAKING CARE OF OUR ENVIRONMENT

We are all aware of global warming and the issues for the future of our planet. The impact of building and our use of energy in them is becoming more critical every year. Reducing greenhouse gases will help reduce the rate of climate change and there is a definite requirement for us all to work together towards this goal.

### LEAD FREE PVCU

Historically, older PVCu window frames and doors used to contain lead-based additives and if touched, especially once weathered, there was a risk of lead contamination. Today, end-of-life PVCu products are turned into granules to make reconstituted PVCu state-of-the-art reinforcing materials wherever possible. When you purchase a Formula One product you can be sure that your old PVCu windows will not end up as landfill - they will be recycled and used as reinforcing in the future.

We now have the technical ability to use this material safely for non-weather-facing material within a number of our profiles. All Formula One weather-facing / UV-facing surfaces are 100% lead free and made from 100% virgin polymer PVCu. Inside, any recycled PVCu is incorporated safely, clearly identified by a different colour.



Formula One Windows are ecologically sound and sustainable. Energy-saving glazing materials are used to reduce greenhouse gas emissions and to reduce heat loss, which means lower heating bills. All our windows are 'A' Energy Rated as standard, and can be upgraded up to 'A++' with triple glazing.



You cannot get through a single day without having an impact on the world around you. What you do makes a difference and you have to decide what kind of a difference you want to make.



# SECURITY WITH CONFIDENCE



The quality and design of your windows and doors dictates the security of your home. One weak link is all it takes: one-fifth of all UK burglaries are committed by simply accessing an unlocked door or open window, whilst forced doors and windows account for all the rest.

## SECURED BY DESIGN

All Formula One windows and doors use the latest shootbolt multipoint locking systems and internal glazing beads. The profile walls are strong and robust, with steel reinforcement at the critical points to increase resistance to attack. Our security commitment ensures that our windows and doors can meet the Police preferred Secured By Design standard.

## COMPLETE PEACE OF MIND

When it comes to home security it is important to have complete peace of mind. Rest assured that our products come with high quality locks, hinges and anti-jemmy excluders as standard – not optional upgrades – as we believe your safety and security is of paramount importance.

## Window Security

All window hardware are fitted with security enhancements to meet PAS24 enhanced security. Also passed by the Association of Chief Police Officers specification Secured By Design.

**LOCKS:** Multipoint locking: Police preferred specification Secured By Design and exceed the requirements PAS24 enhanced security.

**KEEPS:** Police preferred specification Secured By Design and exceed the requirements PAS24 enhanced security.

**SHOOTBOLTS:** Excalibur plus locks include twin die cast clawbolts, large steel mushroom espagnolette eccentric cams and double high strength steel shootbolts.

**ANTI-JEMMY STEEL EXCLUDERS:** Provided as standard on all of our windows and meets PAS24 enhanced security and SBD.

**HINGES:** Steel, BS EN1670 grade 3 corrosion and PAS24 compliant meeting BS6375 with excellent load bearing characteristics.



**SAFETY:** Multipoint locking for the ultimate peace of mind and safety.

**SECURITY:** Double high strength steel shootbolts with espagnolette cams combine with high specification keeps for maximum security.

**DURABILITY:** Die cast key locking handle for strength and durability.

## Door Security

All doors can be manufactured to the police preferred specification Secured By Design and meet the requirements of PAS 24.

**DOOR HANDLES:** Door handles are corrosion resistant with multipoint locking controlled cylinder.

**1 STAR PLATINUM HANDLE:** Made from 316 stainless steel to withstand 480 hours of corrosion resistance so less likelihood of the door handles pitting. Can be paired with a Platinum 3 Star cylinder to achieve PAS 24.\*

**2 STAR PLATINUM HANDLE:** Has a built in cylinder guard for higher security. This is also the only handle that we sell that when paired with the 1 star cylinder can achieve a 3 star security rating. Can be paired with a Platinum 1Star cylinder to achieve PAS 24.\*



**LOCKS:** Door locks include 2 deep throw stainless steel hook bolts, 2 deep throw dead bolts, centre latching facility with centre hook and 2 roller cams interspaced along the whole length of the lock with a stainless steel faceplate.

**SUPERIOR 1 STAR CYLINDERS:** Secured By Design accredited, this product has replaced our magnum cylinders. They are Anti Bump, Anti Drill and Anti Pick with a high security dimple cut blade key. Can be paired with a 2 Star Platinum handle to achieve PAS 24.\*

**SUPERIOR 3 STAR CYLINDERS:** The 3 Star meets all of the above criteria as the 1star and more. In addition to Anti Bump, Anti Drill and Anti Pick they are also Anti Pull and Anti Screw, due to the sacrificial face, and include the high security dimple cut blade key. Can be paired with a 1Star Platinum handle to PAS 24.\*

**KEEPS:** Police preferred specification Secured By Design exceeding the requirements of PAS 24 enhanced security.

**PATIO DOOR SECURITY:** Includes high security anti jacking system with a 6 point hook lock.

\*Door Hinge Protectors, Glass Clips and Laminated Glass still required to meet PAS 24 for Document Q Accreditation.



**SAFETY:** Multipoint locking for the ultimate peace of mind and safety.



**DURABILITY:** Die cast key locking handle for strength and durability.



**SECURITY:** Stainless steel hook bolts and deep throw deadbolts for maximum security.



# HOME LIVING PRESENTED



There's no better way to improve the appearance, energy efficiency, security and comfort of your home than with Formula One windows, door and conservatories.

Now learn more about the details behind the technical excellence of our products and services, including important security features that are built in to give you complete peace of mind.

Just flip the brochure over and discover Technical Excellence.



# TECHNICAL EXCELLENCE SECURED

High quality PVCu profiles, superior thermal performance and advanced security features off the very best in technical excellence from Formula One.

Now see how these technical solutions combine with superior design to offer a choice of windows, doors and conservatories that will give your home the look it deserves.

Just flip the brochure over and discover Home Living.

