

A FULLY SCULPTURED 70 MM  
PVC-U WINDOW AND DOOR SYSTEM

IDEAL 70

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# IDEAL 70. The new generation PVC-U window and door system from aluplast.

The system has been designed to 'tick all the boxes' for state of the art windows and doors and features advanced design and system engineering. IDEAL 70 is a fully integrated profile suite designed using the latest computer aided techniques combined with many years of experience.

The result is a window and door system which meets the requirements of today's challenging marketplace and which will continue to excel in the future.

IDEAL 70 is both attractive in appearance and effective in application. The fully sculptured profiles and matching glazing beads result in windows and doors with classic styling and tremendous appeal for consumers. The system boasts many advanced design features, enabling simple and economic fabrication and installation.

Advanced design affords IDEAL 70 a considerable degree of future proofing, allowing the system to take in its stride current trends and potential future requirements of UK Building Regulations.

The fully integrated profile suite ensures that all IDEAL 70 product types harmonise beautifully on any elevation regardless of the style of property.

Three outer frame height options (50mm, 60mm and 75mm) and two mullion sizes (70mm and 80mm) provide for frame designs that can accommodate most wind load requirements and reveal details.

## Effective **solution** for any building detail



The IDEAL 70 system provides for easy and cost effective fabrication of the following product types:

- Outward opening Casement Windows with dedicated internally or externally glazed sashes.
- Inward opening Tilt and Turn windows
- Residential Doors – inward or outward opening
- French Window or Double Casement Windows inward or outward opening
- French or Double Doors – inward or outward opening

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HOME IMPROVEMENTS

The IDEAL 70 system is available in a beautiful white lustre finish and also in the following elegant coloured foiled finishes as a standard stock offer:

- Rosewood foil on one side on white base
- Rosewood foil on both sides on brown base
- Golden Oak foil on one side on white base
- Golden Oak foil on both sides on caramel base
- Palisander (black) foil on one side on white base
- Palisander (black) foil on both sides on brown base
- Cream foil on one side on white base
- Cream foil on both sides on white base

A comprehensive range of cills, couplings, frame extensions, bay connectors and ancillary profiles complements the IDEAL 70 main profile suite to provide effective solutions for almost any building detail.

A comprehensive range of special coloured foil finished products is available to order under specific conditions of sale.

# German technology. British looks.

## Five chamber profile design

IDEAL 70 boasts five chambers (front to back) at the core of its design philosophy. Having two chambers either side of the reinforcement chamber greatly reduces thermal bridging and provides a superb thermal insulation performance.

Acoustic insulation or noise reduction is also much improved so windows manufactured from IDEAL 70 provide the householder with a greater level of all round comfort and well being. The five chamber construction and resulting thermal performance means that IDEAL 70 is well prepared for any changes to specifications or building regulations calling for enhanced thermal efficiency.

## 70 mm profile depth

The use of a main profile depth of 70mm allows the easiest installation into most UK building details; enabling installers to fix back to the internal plaster line and still cover any remaining paint lines on the external substrate.

A profile depth of 70mm also allows for greater flexibility with regard to glazing thickness. IDEAL 70 permits glazing of 28mm or 24mm double and 36mm or 40mm triple glazed high performance units with the same consummate ease.

The profile design incorporates lugs to locate the reinforcement profiles. Orientation options are provided for steel reinforcements that allow optimum selection for economic production and facilitate insertion of reinforcement profiles prior to welding of the PVC-U sections.

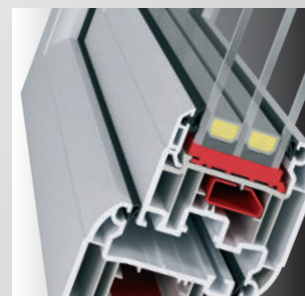
The base design of IDEAL 70 outer frame sections provides compatibility with a wide range of aluplast ancillary profiles including cill sections, frame extensions, bay corner solutions and many other sections.





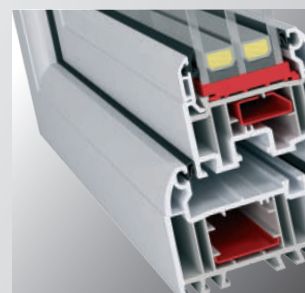
## Fully sculptured profiles

We know of no better looking window available on the market today. IDEAL 70's cleverly designed sculptured shape makes for simply stunning windows and doors. Beautiful both inside and out, IDEAL 70 windows and doors are perfect for replacing the replacements; an important development for the future of the industry. IDEAL 70 windows and doors are eminently desirable for the end user. IDEAL 70 is as easy to fabricate as it is stunning to look at. The positive stops at either extreme of the sculptured shape give defined datum points for modern window fabrication machinery and also make fabrication easier in more basic fabrication environments. IDEAL 70 combines stunning good looks with ease of fabrication.



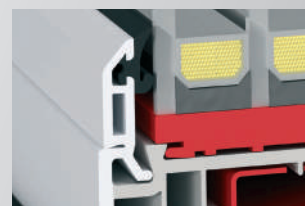
## Matching bead and profile design

The bead shape mirrors the shape of the upstand to the glazing rebate to provide a beautiful balanced appearance with identical sightlines. The finished window looks identical viewed from inside or outside; simply stunning! 28mm or 24mm glazing options While 28mm high performance double glazed sealed units have become the performance standard in the domestic sector, IDEAL 70 recognises the need for the option of 24mm glazing depth to meet a wider range of window and door specifications for other market sectors. Glazing beads for both 28mm and 24mm sealed units both offer a fully sculptured appearance that perfectly complements the sculptured profile detail. Triple glazing can easily be produced utilizing our 36 40 mm glazing beads.



## Single leg glazing bead

IDEAL 70 employs a single leg 'knock-in' or J-bead design. The single leg bead makes for faster, easier installation and provides the cleanest glazing platform. Installers love the way the single leg bead locates and the single leg format affords both stability and security while also easily accommodating normal glazing tolerances.



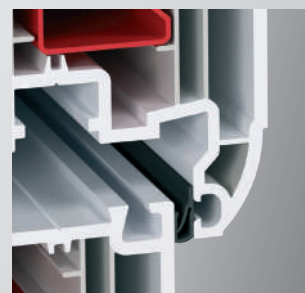
## Equal V notching

Internally glazed casement windows have steadily grown in popularity and today enjoy market dominance in most sectors. To achieve an internal glazing detail in both opening and fixed light sections of the window requires 'reverse butt' welding of the outer frame profiles. In previous generation PVC-U systems this resulted in an untidy 'dog leg' effect at transom and mullion joints which marred the overall appearance of the finished window. IDEAL 70 has been cleverly designed to utilize equal V-notching for transoms and mullions resulting in a balanced appearance with equal length feature grooves that complement the stunning appearance of the IDEAL 70 window.



## Co-extruded gaskets

IDEAL 70's co-extruded gaskets eliminate the need for the time consuming application of weatherseals and gaskets to frames and sashes following the welding process as part of fabrication. The time saved will provide an increase in fabrication efficiency in the region of 15%. Using IDEAL 70 with its co-extruded gaskets will also enable the fabricator to reduce stockholding. IDEAL 70 gaskets provide outstanding weather performance and complement the profiles' elegant sightlines. Co-extruded gaskets eliminate "the shrinking back" effect typical of old gasket systems and therefore prevent any gaps in corners. IDEAL 70 windows and doors are also easier to fit and cleaner to glaze as the co-extruded gaskets eliminate the need for messy lubricants.



## Sustainability and Eco-Management

An ecologically sound production process as well as a sustainably designed work place form a crucial part of the aluplast eco guidelines, which are reflected in our environment-friendly products and processes.

## Emphasis on Recycling

The raw materials used for our window profiles are based on a calcium-organic chemical compound that is strictly lead-free. With this eco-friendly attitude and our involvement in VINYL 2010 Project, which promotes the use of recycled materials in our profiles. Aluplast offers window systems that can be fabricated and recycled in an ecologically sound way.



# Sustainability

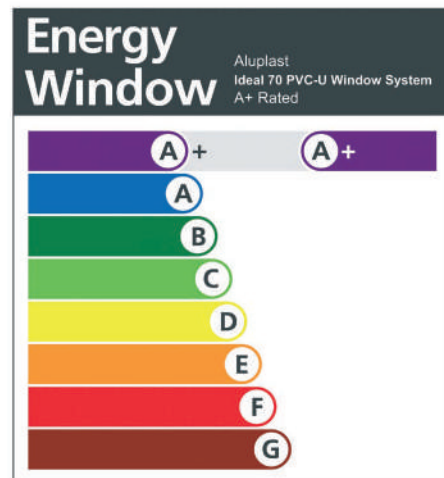
Economic. Social. Environmental.

## Protecting the environment actively with PVC-U windows

aluplast PVC-U window systems live up to what they promise: An outstanding product quality and a long service life contribute actively to the conservation of the natural environment.

## Responsibility towards People and the Environment

aluplast assumes responsibility for people and the environment and, together with customers and partners, contributes actively to the protection of our natural environment!



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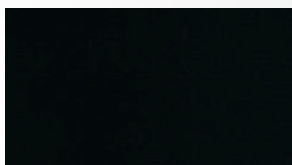
## Wide range of coloured foil finishes

All Aluplast coloured foil finishes feature innovative technology which improves performance characteristics providing a much longer life cycle of the surface finish. Our lamination foils utilise special patent-protected pigments which considerably reduce the surface temperature of coloured foil finished profiles. There is an extensive range of coloured foil finishes to choose from – some examples are shown below:

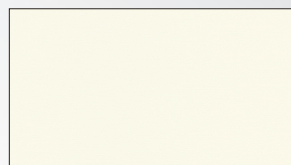
### Standard colours



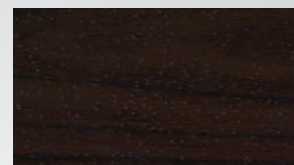
Ap23 golden oak



Ap33 palisander



Ap49 cream



Ap56 rosewood

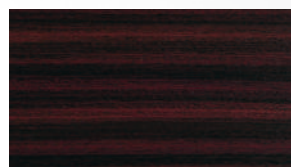
### Special foil finish colours



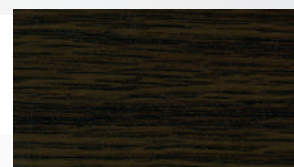
Ap01 oak special



Ap02 natural oak



Ap05 mahogany



Ap06 dark oak



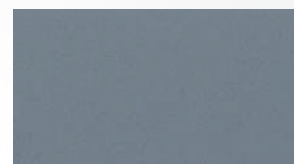
Ap27 walnut



Ap30 dark green



Ap32 dark red



Ap34 grey



Ap40 anthracite grey



Ap41 steel blue



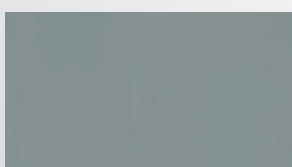
Ap43 green



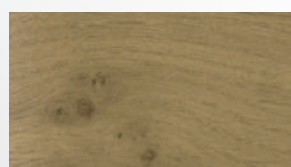
Ap44 white



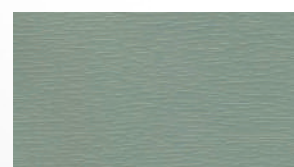
Ap52 birch



Ap61 grey sanded



Ap96 irish oak



Ap97 chartwell green

NOTE: The colour representation given here may vary from the actual foil colours used in the product due to the limitations of print technology.

## Accreditations

The Aluplast IDEAL 70 system conforms to the requirements of BS EN 12608:2003 unplasticised polyvinyl chloride (PVC-U) profiles for the fabrication of windows and doors – classification, requirements and test methods, certificate number KM 13468 and is extruded under BS EN ISO 90001 quality management system requirements certificate number FM10215.

Windows and doors have been manufactured and tested to the latest fabrication, weathering and security requirements and passed.

### **BS7413:2002**

All windows and doors fabricated in accordance with requirements of this standard.

### **BS6375**

All windows and doors are tested for weather performance, water ingress, air leakage and deflection including low threshold French doors and have passed.

### **PAS24:2012**

Enhanced security performance requirements for door sets and windows in the UK. The latest PAS24 standard covers the security and testing requirements for all fenestration products. Aluplast IDEAL 70 casement, tilt and turn windows and doors, including French doors have passed.

The stringent testing and successful outcome has resulted in the IDEAL 70 system Kitemark licence number KM 590706 in respect of BS EN 12608/PAS24 window system supplier and KM 590707 in respect of BS EN 12608/PAS24 door system supplier.

### **Energy Ratings**

The IDEAL 70 system comfortably achieves an 'A' standard WER (Window Energy Rating).



### **CE Marking**

The Aluplast IDEAL 70 system, when fabricated using certified hardware, meets the requirements of BS EN 14351-1 windows and doors – product standard, performance characteristics – Part 1; windows and external pedestrian door sets without resistance to fire and / or smoke leakage characteristics, and with the appropriate FPC (Factory Production Control System) CE marking can be applied to the glazed fabricated product.

