



## Bespoke Joinery for the Construction Industry



Established 1959

# INTRODUCTION

Thank you for requesting the latest I. D. Products brochure. Over the following pages we will introduce our range of timber joinery. I. D. Products is a well established company, which has been in the business of designing and manufacturing high quality window frames, door frames, and doors for over 40 years. Still in the ownership of the founder on the original premises, the business has expanded steadily, building on the benefits of these many years of experience.

Throughout this time we have introduced numerous specification innovations and improvements to ensure that we provide a quality product which adheres to the most up to date standards of the building industry.



Due to the high number of design and product requirements requested by customers working in different building environments, it became clear, early on in the life of the company, that a versatile approach would be necessary to satisfy a wide range of customer specifications. To this end, the FLEXOLITE joinery system was devised, and trademarked in 1968, by I. D. Products. By using standard ranges of timber sections which satisfy different levels of design and performance criteria, nearly any size and configuration of frame can be manufactured. This 'tailor made' approach gives our customers the ultimate versatility when incorporating joinery into their construction projects.

## ○ Market Position

Generally, our customised design and manufacturing techniques make us a cost effective choice for most replacement or new build projects, of almost any size. The recent construction industry trends for mixed design and broader creativity specifications has complemented our existing working practices well. Although our techniques are not ideally suited to individual domestic replacement work, any job of from 10 to several thousand units is ideally suited to our market position.

Since the formation of the company, our customers have included housing associations throughout the country, London Boroughs, many local authorities and numerous private developers. Our staff have a thorough understanding of the building industry and are confident in dealing with architects, builders, association personnel, and individual clients.



## I.T. at I.D. Products

In 1989 computer aided design and computer aided manufacturing were incorporated into the company processes. Apart from the obvious efficiency advantages which these innovations lead to, the main benefits to the customer are the high consistency and increased affordability of our products.

Once we have received instructions to quote for a job, our estimators will generate a CAD schedule detailing each required item. From this a scale copy is provided to the customer which includes full specification drawings on a frame by frame basis plus any extra specific details required to clarify section use and construction techniques. An example of our schedules can be seen on page 18 of the brochure. The computerised system then generates an itemised price quotation based on production requirements and material usage. Once the quotation has been accepted, all necessary production paperwork from cutting lists and assembly information, to delivery details can be generated instantly from the original schedules.



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# Contents

All of the sections used in the various Flexolite frame ranges have associated CAD cross-sectional drawings which can be made available to architects or designers should they wish for a greater level of detail at the planning stage of their project. Drawings are available on our web site, at [www.id-products.co.uk](http://www.id-products.co.uk) or alternatively we can provide the information on a CD. Please telephone to request a copy.

## ○ Service

From the time of your first contact with I. D. Products we aim to provide a good level of personal service. This is done by allocating contacts for design, estimating and order control through to final product delivery.

As the specification of joinery can involve a number of technical choices and our customers have varying degrees of expertise on the subject, we are very happy to advise on any issue or pre-order query. This service may include the production and demonstration of sample units or arranging a visit to an existing site to see our products in-situ.

## ○ Standards

As with any aspect of the construction industry, the manufacture of timber frames and doors is constantly under review by industry bodies to ensure the latest performance advancements are incorporated at the earliest possible opportunity.

We have always embraced recommendations and legislation, which have helped us to produce a higher specification product. Being registered under the British Woodworking Federation 'Code of Conduct' and in contact with the Building Research Centre, we are always informed of current technical developments and design good practices.

## ○ Assurance

As a result of close contact with these trade associations, our products are generally compliant with the requirements of the NHBC and the stringent BS7950 stipulations. In order to get this recognition our products have had to undergo a series of through performance tests in recognised test stations. The frames are exposed to extreme pressure and endurance situations to examine security performances in line with 'Secured By Design' criteria.

In recognition of these performance standards all of our products carry a 10 year guarantee against failure in any respect of manufacture, glazing and ironmongery (for any of these elements undertaken by us). Please refer to our 'Installation and Care' guide and our standard terms and conditions for further information on the warranty available with our products.



# PRODUCT OVERVIEW

Using the various standard ranges of the Flexolite joinery system, we are able to offer products to suit a wide variety of applications from quite simple cost conscious units to exceptionally high performance frames and doors.

In addition to the standard sections we also offer a number of special situation items such as flush sashes, fully reversing sashes, twin sash units, and simulated sliding frames.

Both traditional designs and contemporary concepts can be achieved using current high performance techniques and materials. To ensure consistency, all elements of manufacture are traceable and are constantly monitored for quality control.

Naturally, we are conversant with the latest Building Regulations and can advise on issues such as Mobility Thresholds in doors (Part M2) and fire escape requirements in windows (Part B1). The latter is achievable, even where narrow sashes are required for aesthetic purposes, through the use of fire escape ironmongery or through the incorporation of 'flying mullion' frame designs.

## Materials

We are of the firm belief that there is no substitute for the use of good quality materials in the manufacture of any product. Our softwood is unsorted redwood to BS 1186 from fully managed sustainable Nordic forests and our hardwood is sourced from certified U.K. suppliers.

The overall condition and quality of the timber used plays an important part in the strength, machining consistency and adhesion of finishes, of the finished product. Our timber sources ensure compliance with the NHBC, BS 644 and BS 1186 Class 2 and Class 3 requirements for material quality used in frames, sashes and beads.

Generally speaking, we would encourage the use of our timber stocks, as we can control the quality and machining of the wood, but upon request we can work with special timbers specified or provided by the customer.



# FINISHING & GLAZING

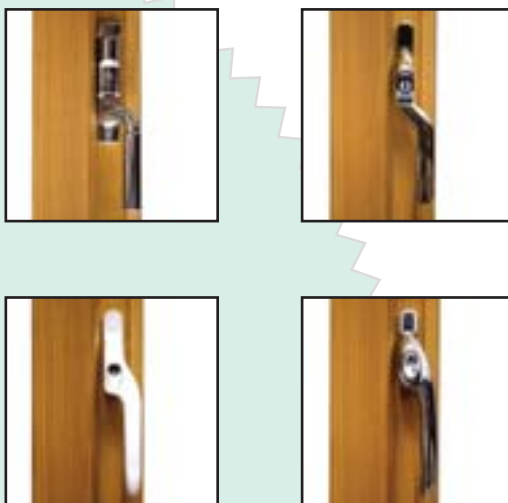
## ○ Preservatives

All timber sections are treated with an appropriate preservative after all machining processes have been completed. The preservative adheres to BS5589 with regard to protection against effects of water, wood boring insects and rot.

## ○ Finish Options

All frames are delivered to site with a minimum of a base coat of primer or stain in order to comply with NHBC guidelines and to protect against initial outdoor storage. However, it is well recognised that further finish coats applied at the factory will significantly outperform those added in-situ after installation. The factory finishing process has two main advantages - firstly, the frame will receive full coverage, including the end grain and sides of the frame which would be hidden behind brickwork during site finishing, leaving vulnerable unprotected areas; secondly - factory finishing gives a more professional result as there is no risk of overpainting to glazing, ironmongery, and surrounding brickwork.

When the recommended fully finished service is specified we follow the initial primer coat with two further coats of either water based paint or stain. These coats are applied using a spray process to ensure a thorough coverage. The finish is offered in a wide variety of colours to satisfy client preference.



## ○ Glazing

As with finishing, the glazing process is also best approached during manufacturing. Properly fitted glazing in the controlled factory environment will virtually eliminate the possibility of failure of the glass units.

Furthermore, the customer will benefit from the 10 year guarantee to the glazing element of the joinery as well as the main timber work.

We can provide factory glazed, site-glazed or unglazed products in accordance with customer preference. Glazing is available in a variety of specifications to suit the application, for example, Low E glass, gas filled glazing units, acoustic and security units. All glazing is compliant with Building Regulations Part L.

## ○ Beads

Glazing beads play an important part in the integrity and performance of windows and doors. The standard fitting is using the material specified for the door or window, with vented profiles on bottom beads, however, we also offer an aluminium bead where preferred and use laminated units for curved and round frames.

## ○ Ironmongery

The choice of ironmongery is ostensibly influenced by the aesthetic desires of the end user and by the security requirements of the application. We have contacts with numerous ironmongery providers from whose supplies we can make recommendations, or we can fit customer specified items on request.

# Issues

As stated in our Environmental policy, we are convinced of our commitment to deploy environmentally sound policy wherever possible. This is achieved by a combination of performance monitoring and by reducing the use of materials, power consumption and pollution through efficiency measures and compliance with waste management policy and regulations.

## ○ Forestry Management

The process of environmental consideration starts with the choice of materials in use. The paramount consideration involved is the commitment to purchase timber from sustainable sources, which we do through the highly controlled Finnish Forest Certification Scheme for softwoods and through certification for hardwoods. Through the management of forestry, where timber is harvested and replaced with new trees, the carbon dioxide absorbing properties of the forest are maximised, as younger trees are more efficient at performing this transfer. I. D. Products is in full support of the sentiments of the Wood for Good environmental campaign.

## ○ Waste Management

At I. D. Products all residual waste from the manufacturing processes are sold on to other commercial entities for conversion to particle board or animal bedding and off-cuts of timber are traded with other local businesses for their services. With packaging from deliveries being reused for various processes on the shop floor, the figures for waste and cost of waste disposal are negligible.



## ○ uPVC

The cost of a window should not be judged merely in terms of the initial capital cost, but rather on a figure including maintenance, repairs, and energy losses spread over the life of the product. Timber windows are increasingly demonstrating both significant financial, and overall life expectancy advantages over units manufactured from other materials. Further to this is the very persuasive environmental argument in favour of timber.

Broadly speaking timber frames require 10 times less energy than aluminium to convert the raw materials to the finished product and 20 times less than uPVC. Timber is the only renewable joinery material currently in existence and does not create the disposal issues of plastics. The production and disposal of uPVC windows involves no less than 6 of the 15 most hazardous chemicals listed by European governments for priority elimination.



wood. for good.

*'It is no longer a question of if PVC should be phased out, but how it shall be phased out.'*  
Swedish Minister for the Environment

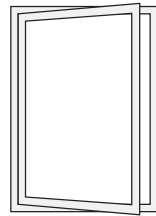
*'...there now exists a substantial body of evidence which shows that the combustion of PVC in a fire leads to the release of dioxins and furans which may then be spread over a wide area... Dioxins are one of the most toxic chemicals know.'* The fire Brigades Union

Please refer to the Greenpeace report 'Building the Future: A guide to building without PVC' for further information for specifiers.

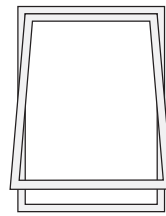
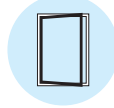
# Opening Light Styles



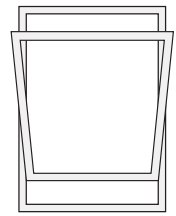
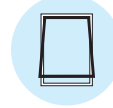
Below is a graphical overview of the different types of sash hanging option and other frame design choices. Where applicable, these options are indicated by means of their associated icon on the range pages which follow.



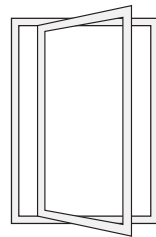
Side Hung  
Opening Out



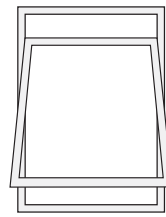
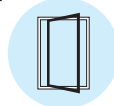
Top Hung  
Opening Out



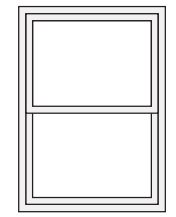
Fully Reversing  
Opening Out



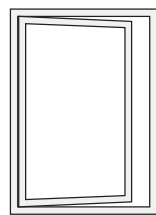
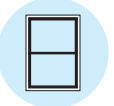
Side Hung  
Canopy Hinges  
Opening Out



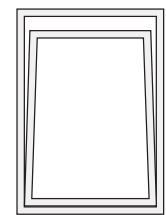
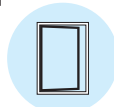
Top Hung  
Canopy Hinges  
Opening Out



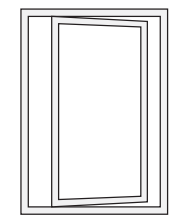
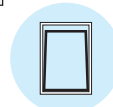
Simulated  
Sliding Sash



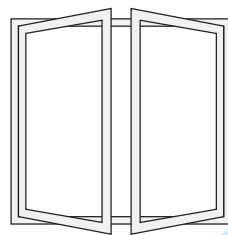
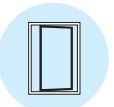
Side Hung  
Opening In



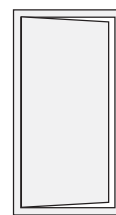
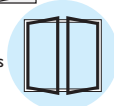
Bottom Hung  
Opening In



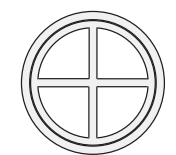
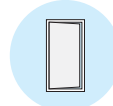
Side Hung  
Canopy Hinges  
Opening In



Side Hung  
Rebated Meeting Stiles  
Opening Out



Door Frames &  
Door and Window  
Combinations



Curved and  
Round Frame  
or Sash

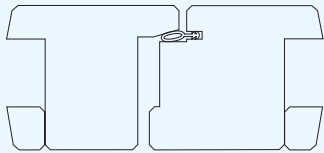


# Section

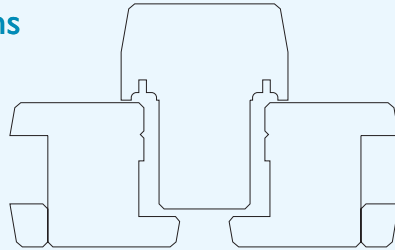
# Options

Below are some of the variants available to most frame ranges, which will need some consideration in the overall specification of a job. Please talk to one of our estimators for further information on the choices and best options for your project.

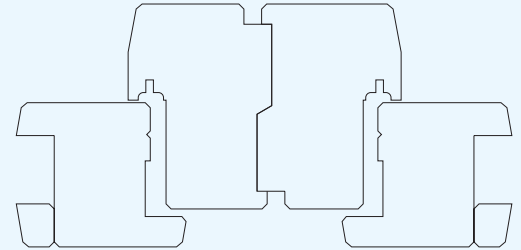
## Sash Meeting Style Options



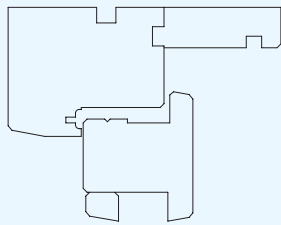
Rebated Meeting Stiles



Single Mullion

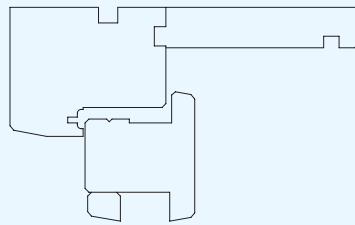


Back - to - back Mullions



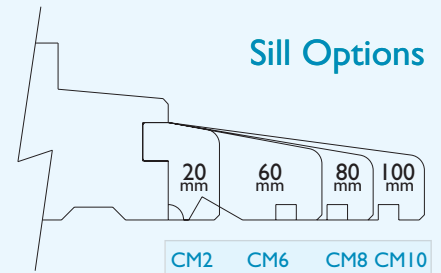
60mm Cheek

Boarding  
and  
Tile  
Hanging



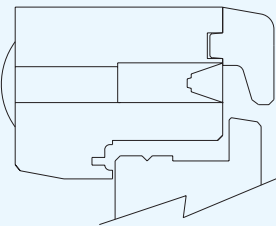
100mm Cheek

## Sill Options

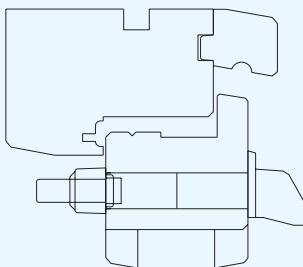


Four choices of Sill Mould

## Vent Options

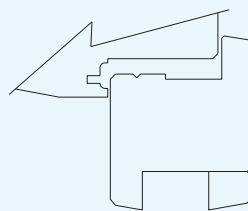


Vent in head of frame

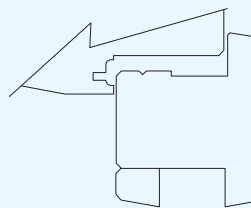


Vent in top rail of sash

## Rebate Options

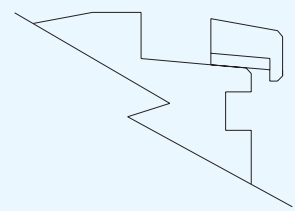


Glazing rebate on the Outside

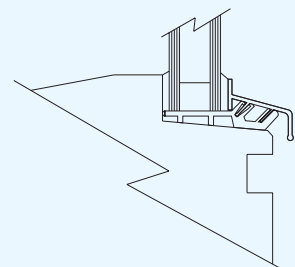


Glazing rebate on the Inside

## Bead Options



Ventilated bottom bead



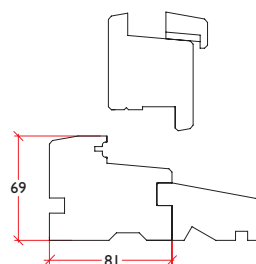
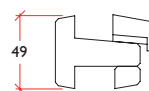
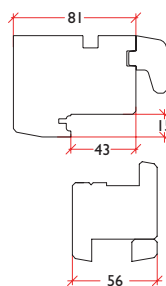
Aluminium bottom bead

These options are available in all Section Ranges

# 84 **B**

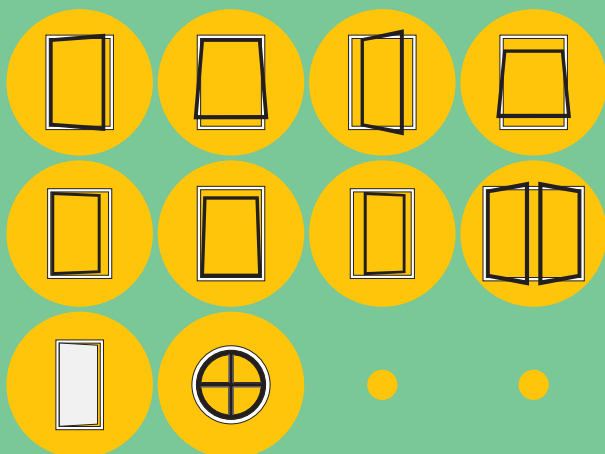


This is our standard section range based on current performance expectations. The 84 range offers high thermal and acoustic properties and can handle double glazing to a wide variety of specifications. The section range is highly adaptable and can be used in almost any configuration and opening style. The frame has a bold modern look with prominent members.



The section is derived from standard stock to give a finished overall frame depth of 81mm with rebates of 15 x 43mm for glazing from 20 to 24mm.

Sash members are 56mm in depth and the standard bar is 49mm in height.



## RANGE CHARACTERISTICS

HIGH THERMAL PERFORMANCE

HIGH ACOUSTIC PERFORMANCE

AVAILABLE IN A WIDE VARIETY OF STYLES

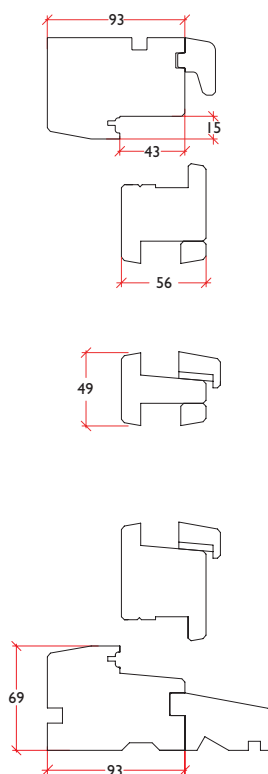
MANY GLAZING OPTIONS

STURDY MODERN LOOK

# 94 **B**

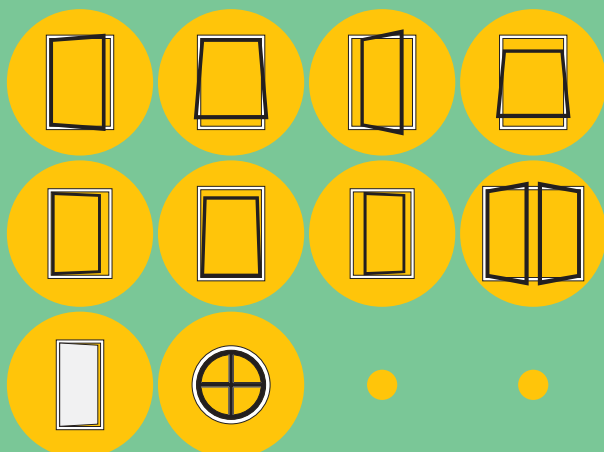


This section range is similar to the 84B range with an increased overall frame depth. This allows for positioning over the DPC and for other exceptional situations as well as providing increased performance ratings. The frame, sash and bars of this range have a bold appearance with strong lines.



*This frame uses heavy stock to give a 93mm finished frame depth. The rebate dimensions are 15 x 43mm to accept options from 20 to 24mm.*

*Sash members are 56mm in depth and the standard bar is 49mm in height.*



## RANGE CHARACTERISTICS

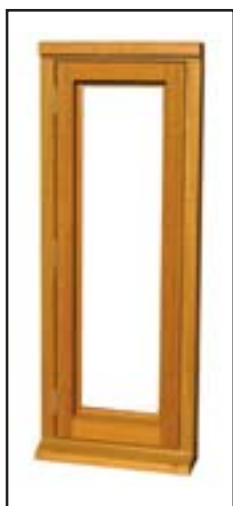
- HIGH THERMAL PERFORMANCE
- HIGH ACOUSTIC PERFORMANCE
- HIGH SECURITY SECTIONS
- HIGH STRENGTH SECTIONS
- STURDY MODERN LOOK

# 84 F

In an increasing number of cases, local authority conservation departments are requiring the use of flush sash type frames to match prevailing building styles.

To provide for this move, we have introduced this new frame range.

Sashes are hung on butt hinges and restrictors and make use of high security multi-point bolts.



## RANGE CHARACTERISTICS

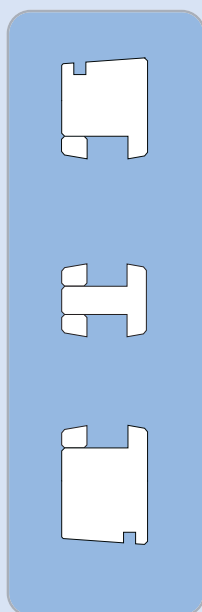
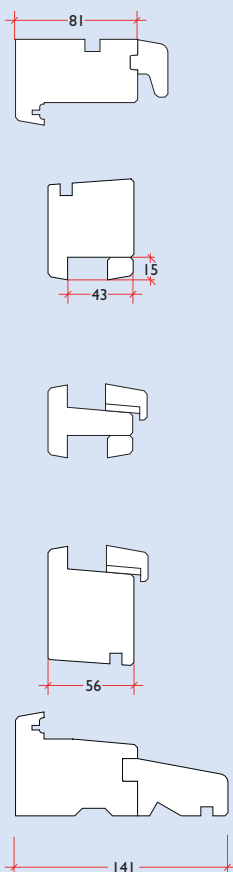
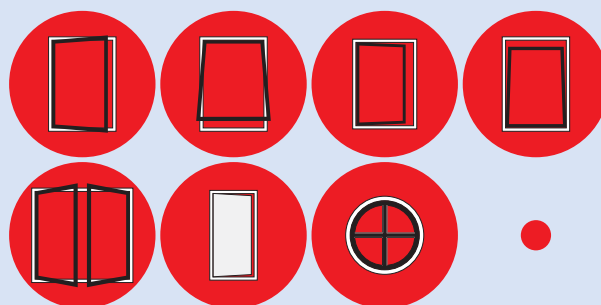
FLUSH SASHES

TRADITIONAL STYLING

MODERN PERFORMANCE

MULTIPLE OPENING LIGHT STYLES

IDEAL FOR CONVERSIONS



**Internal Glazing**



*This range has a finished frame depth of 81mm, a sash depth of 56mm and sash rebates of 15 x 43mm.*

*The sash will accommodate our standard bar and vented bottom bead when externally glazed; and the smaller 17 x 15mm beads throughout on internally glazed units.*

# 83

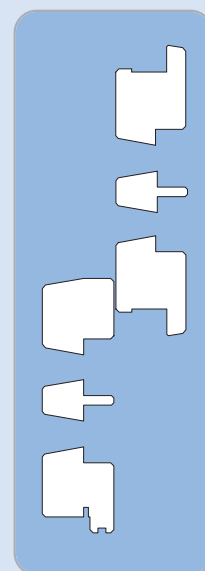
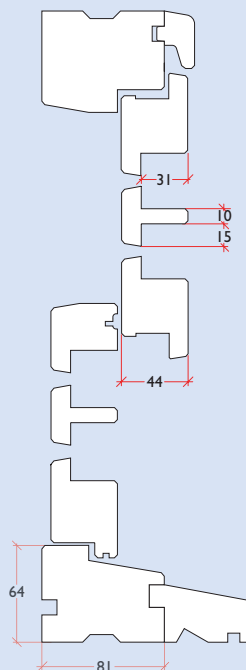


This range offers an innovative approach to those requesting sliding sash windows. Using standard opening styles and modern construction the range alleviates the inefficiencies of the traditional sliding sash, while retaining the external appearance.

A thinner than standard bar is recommended where used to enhance the traditional look.



*This range is constructed to finish depth 81mm with two different internal component options to allow for different aesthetic preferences. The sash bead and bar options allow for either 10 x 20mm or 15 x 31mm rebates for 6mm and 14mm glazing respectively.*

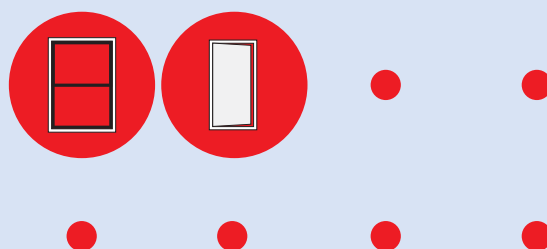


Single Glazing



## RANGE CHARACTERISTICS

- TRADITIONAL STYLING
- MODERN PERFORMANCE
- CHOICE OF PROFILES
- DOUBLE GLAZING OPTIONS
- STURDY CONSTRUCTION

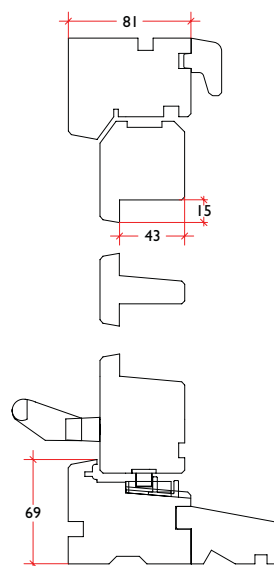
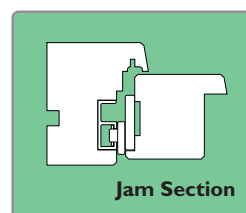


# 84

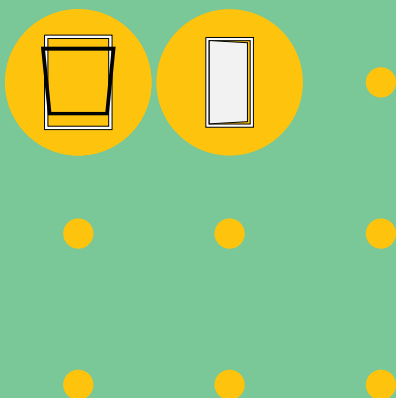
# R



This range is a 'fully reversing' option which allows the opening light to rotate fully to allow for ease of cleaning. Unlike traditional pivots it does this without projecting into the room and causing a hazard or clashing with blinds and curtains. Although the hinge mechanism is determined by the nature of the frame, we do offer a choice of visible ironmongery with this range.



The functionality of this design is accommodated by specially moulded frame components complying with the standard 81 mm finish depth and 43mm rebate depth. The inset shows the profile of the jam frame section and the reversing hinge mechanism.



## RANGE CHARACTERISTICS

ENHANCED ACCESSIBILITY

HIGH THERMAL PERFORMANCE

HIGH ACOUSTIC PERFORMANCE

CHOICE OF IRONMONGERY

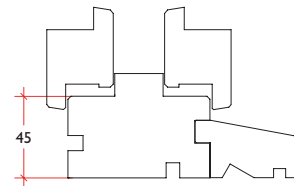
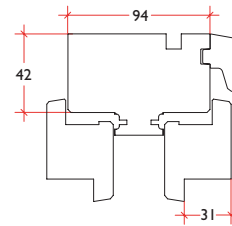
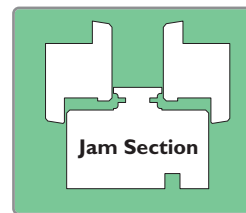
GLAZING VERSATILITY

# 93

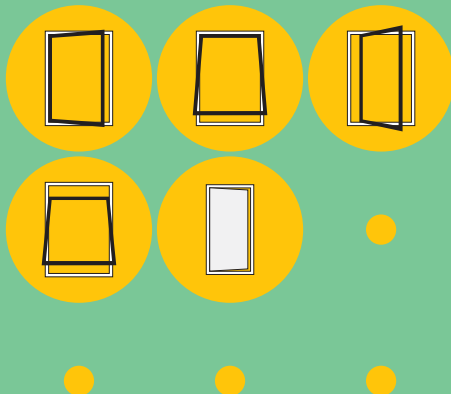
# T



In certain circumstances it is necessary to provide greater acoustic protection than available with standard fittings. For these purposes we have introduced the 93T range which offers twin opening lights on double sided frame elements. From this starting point it is possible to choose different transom and bar combinations on the inner and outer opening to create the desired look.



The members are 94mm in depth and can accept opening lights with 15 x 31 mm rebates for up to 14mm double glazing. Any other combination of sizes can be offered within the same principle format. The inset shows the plan view of the jam section and sash members.



## RANGE CHARACTERISTICS

- EXCEPTIONAL THERMAL PERFORMANCE
- EXCEPTIONAL ACOUSTIC PERFORMANCE
- VERSATILE DESIGN OPTIONS
- CHOICE OF REBATE SIZES
- SEVERAL OPENING LIGHT STYLES

# 84 M

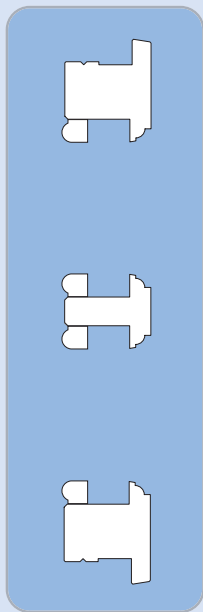
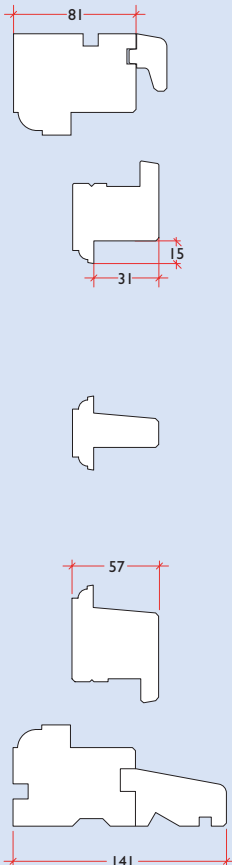
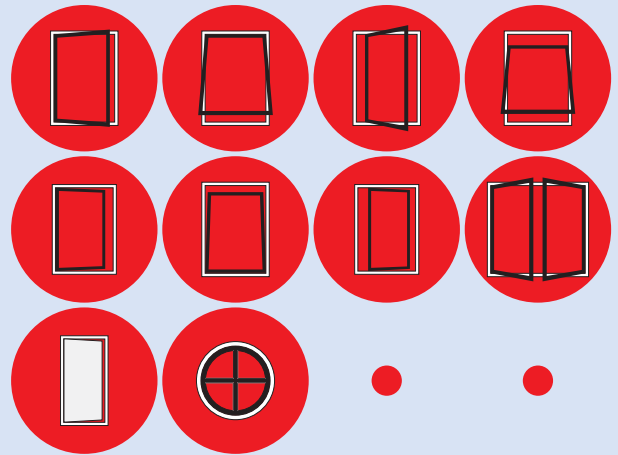
This range is based on the 84B range, but displays a decorative ovolo moulding to the internal view of the frame and sash. The moulding is also optionally available to the external view of the sash.

The range fulfils the same high performance expectations as the conventional styles and offers the usual choice of finishes and ironmongery.



## RANGE CHARACTERISTICS

- HIGH THERMAL PERFORMANCE
- HIGH ACOUSTIC PERFORMANCE
- WIDE VARIETY OF STYLE OPTIONS
- MANY GLAZING OPTIONS
- TRADITIONAL STYLING



**Internal Glazing**



*This range has a finished frame depth of 81mm and a rebate depth of 15 x 43mm.*

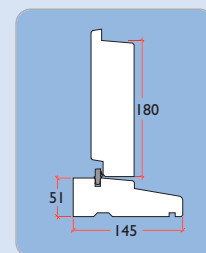
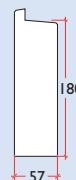
*Where the frame is specified with internal beading the bead can incorporate the moulding in sympathy with the frame style (insert), otherwise a standard bead will be used.*

# DOORS

Doors can be constructed to any specification and design to suit the application. Starting with sturdy 57mm stile and rail members additional panelling or joined sections can be designed to suit project requirements. Panelling options can be from solid timber boarding or layered plywood. We stipulate hardwood throughout for door manufacture as the preferred method to guarantee conformity and durability.



The components used for standard doors and door frames give a 43mm rebate for glazing and panelling and can be 'opening in' or 'opening out'. Door frames are available with the inclusion of a bottom sill (insert), or an easy access threshold in compliance with building regulations part M (main diagram).

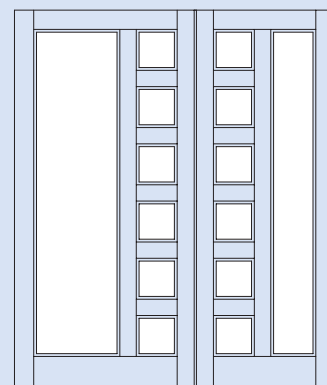
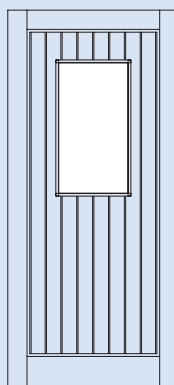
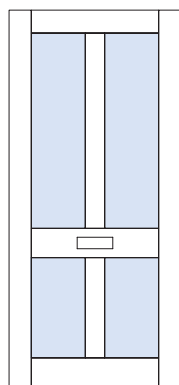
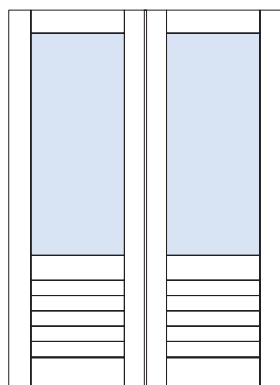


**Bottom Sill**



## RANGE CHARACTERISTICS

- DESIGNED FOR PROJECT
- GLAZING & PANELLING OPTIONS
- HARDWOOD STABILITY
- STURDY STANDARD MEMBERS
- PART 'M' COMPLIANCE ACHIEVABLE



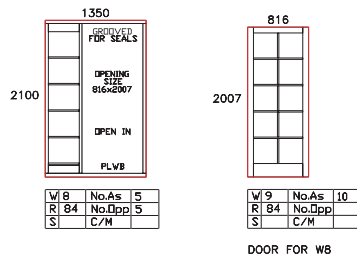
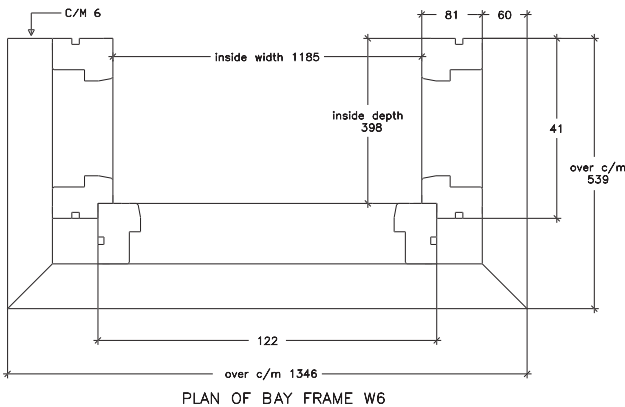
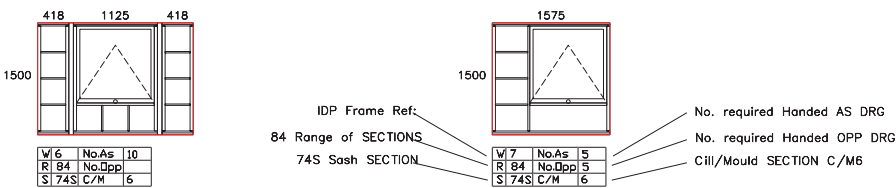
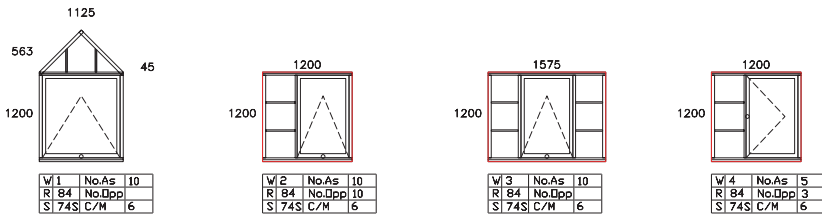
# Quotation Service



Below is an example of a production schedule of the type that you will receive from us when you request a quotation. After we are certain that you are happy with the specification of your joinery request, we will enter the data onto our computer system to produce the schedule. In this way we both have an accurate copy of your requirements in an easy to understand extract from the main project plans. This makes it easy for you to visualise the joinery and to communicate any changes or concerns you may have before we proceed to production.



NOTE: All diagrams show frames as viewed from outside the building  
All dimensions of overall frame sizes are actual finished sizes



Architect: F T FASTRACK

JOB: HOUSING  
REF:

ESPAG/BOLT  
ESPAG/HANDLE CHMBRAS  
Fittings:

Amendments:

Weather seals supplied loose  
External rebate size 15mm x 43mm  
One coat sadolins PX65 pigmented stain  
Glazing beads 17B - 28B  
Preservative treated hardwood (1)  
Window & door frames to Drq E/115M (84RANGE)

Specification:

I D PRODUCTS LTD  
ASHWELL BALDOCK HERTS  
TEL 01462 742305 FAX: 2171

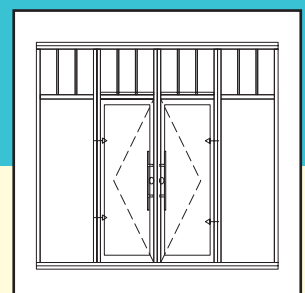
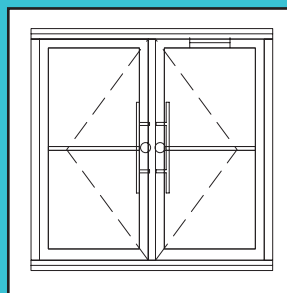
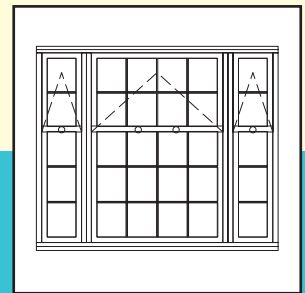
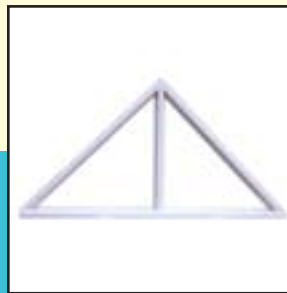
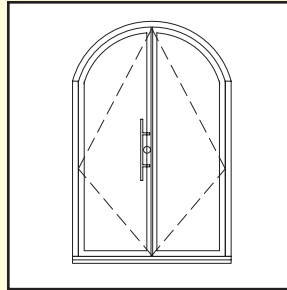
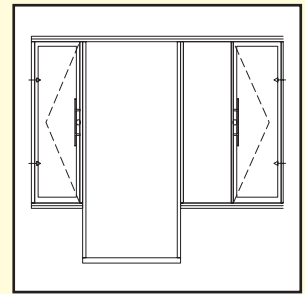


Date: 18/02/03 IDPSCX  
Sheet: 1 of: 1 Sheets  
SCHEDULE IDP 2000

# Sample Frame Configurations

As mentioned previously, we are able to be especially adaptable and versatile in design terms within the parameters of the flexolite standard section ranges. Whether you know exactly what you want, or you need some ideas and practical advice to take your thoughts to the next step, we are sure to be able to help.

To the right and through the photographs in the brochure are just a small selection of the configuration possibilities available. To see more standard frame options please consult our web site. To discuss your requirements further please telephone - your call would be most welcome.



**West End  
Ashwell  
Baldock  
Hertfordshire  
SG7 5PL**

**T : 01462 742305**

**F : 01462 742171**

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