



[www.ianfirth.co.uk](http://www.ianfirth.co.uk)



# Introduction to 'External Doors and Doorsets'

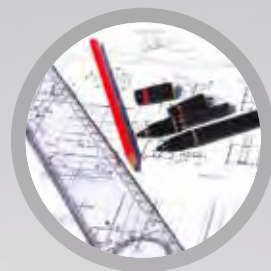


## The **No. 1** Choice

Ian Firth Hardware Ltd, established 1982, one of the leading suppliers of residential doorsets to the housebuilding sector, offers a wide range of designs and specifications to suit many different requirements. From purpose built premises in West Yorkshire, housing 'state of the art' CNC manufacturing facilities, we distribute nationally using our own fleet of dedicated vehicles.

## For **Creative** Design

Whatever the genre or design brief of the project, Ian Firth Hardware Ltd can help to find the perfect door and glass combination to suit. From Tudor and Gothic-inspired designs, through traditional Victorian and Edwardian styles, to ultra modern contemporary looks, we have doors for all tastes. Due to partnerships with component factories we can also work with our customers to create bespoke designs tailored to their individual needs. As we offer internal doors and ironmongery too, we can make sure the full package is coordinated.



## For **Tested & Certified** Products

We understand doors have to meet strict performance criteria and we at Ian Firth Hardware Ltd are proud to state that our doorsets are fully tested here in the UK at approved UKAS accredited laboratories. This means you can have confidence in our products to perform as you require. Tests include PAS24 Security, EN1303, KiteMark, TS007, BS6375 General Performance, CE Marking, Thermal Cycling, U-Values, Acoustics, Fire Resistance, Weather testing, and Operating forces.

## For **First Class** Customer Service

Service is really important to our customers and we therefore have a team of dedicated sales co-ordinators based in our offices ready to help you, whatever your query. They are backed up with a strong team of Field Sales Representatives, a very experienced Technical and Design Department, as well as After-Sales Customer Care.

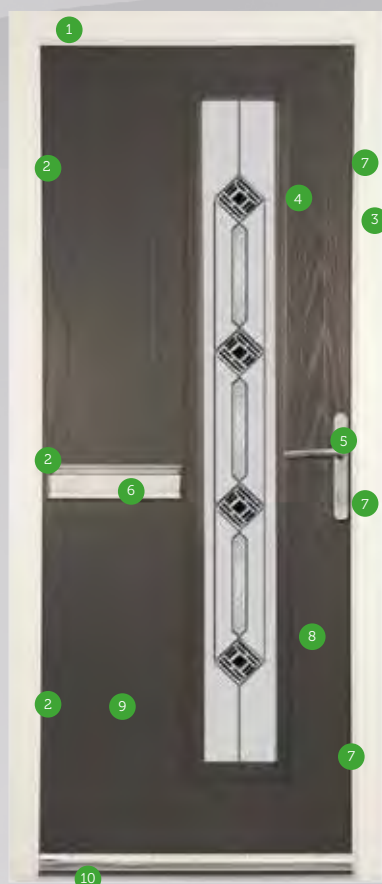


## For **Excellent** Technical Back Up

Active members of trade associations: The Guild of Architectural Ironmongers, Association of Composite Door Manufacturers, The Door and Hardware Federation, and accredited to ISO9001 Quality Management System, ISO14001 Environmental Management System, BSI Kitemark, Enhanced Security Doorsets, and Secured by Design.



# 10 Good Reasons To Buy Our Composite Doorsets



- 1 PVC frame has steel reinforcement as standard to add rigidity
- 2 Adjustable hinges allow ease of installation and maintenance
- 3 Large rubber seal fitted around perimeter of frame to improve weather performance
- 4 Glazing cassettes sealed externally with Stixall™ for improved watertightness
- 5 Stainless steel lever furniture available in our range
- 6 A range of letterplates available to suit various performance requirements and budgets
- 7 Adjustable keeps allow for easy fitting and maintenance
- 8 Winkhaus Thunderbolt™ Multipoint Lock with tapered bolts fitted as standard
- 9 Huge range of door designs, glass patterns and colours available. Built as pre-hung doorsets
- 10 Wheelchair-friendly Slimline Sill with connectors fitted as standard, designed perfectly to suit PVC profile

## Performance Characteristics

**BS6375**

General Performance Specification covering durability, basic security and weather tightness applies to all our external doorsets

**PAS24**

Enhanced Security Specification is available on a range of doorsets, approved by BSi Kitemark and Secured by Design, to meet the requirements of Building Regulations AD Part Q.\*



FD30 Fire resistance is available on a range of doorsets, See page 22.



Our doorsets can be made to meet clear opening requirements and fitted with level access thresholds to meet the requirements of Building Regulations AD Part M.\*



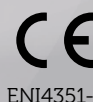
Doorsets can be made with acoustic properties to meet requirements of Building Regulations AD Part E.\*



All our doorsets have a U-value of 1.5 w/m2K or better to meet the thermal performance requirements of Building Regulations AD Part L.\*



Our doorsets have an Ozone Depletion Rating of zero and a Global Warming Potential of 5. We only use water based foam insulation within the construction of our doorsets.

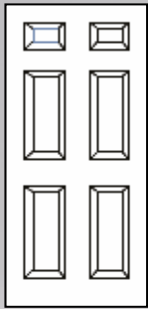


EN14351-1

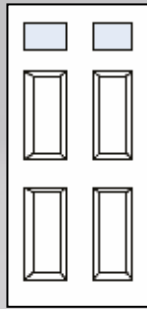
\*Our doorsets can also meet the requirements of the Scottish Building Regulation Technical Handbook.

# Door Styles

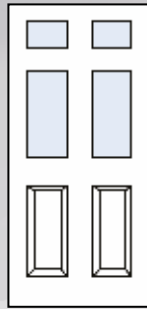
These are just a selection of door designs that are possible. If you cannot see the design you are looking for please send details to us and we will do our best to accommodate your specific requirements.



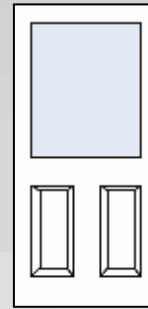
IFU.01  
Huron



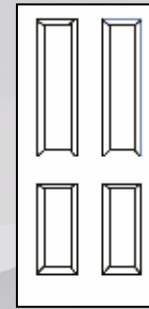
IFU.02  
Erie



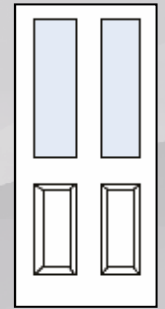
IFU.48  
Balaton



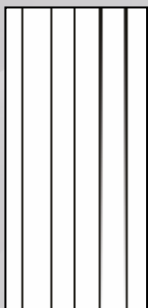
IFU.05  
Michigan



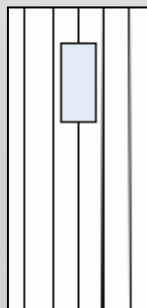
IFU.30  
Placid



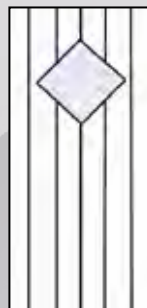
IFU.07  
Ontario



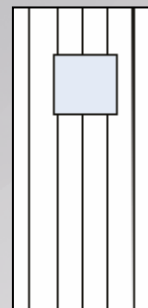
IFU.28  
Cottage



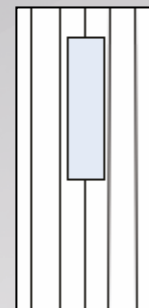
IFU.27  
Cottage  
Superior



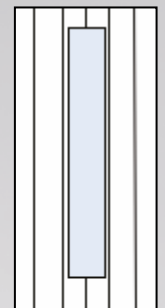
IFU.37  
Cottage  
Coniston



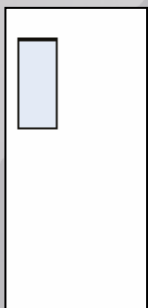
IFU.38  
Cottage  
Windermere



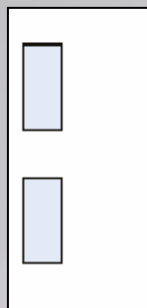
IFU.57  
Cottage  
Ullswater



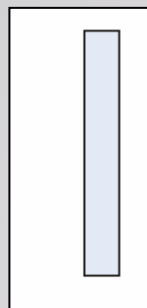
IFU.63  
Cottage Corrib



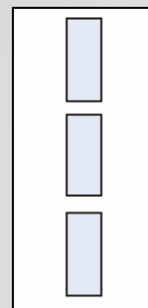
IFU.53  
Ennell



IFU.56  
Ryan



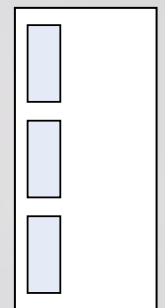
IFU.59  
Powell



IFU.69  
Charlotte



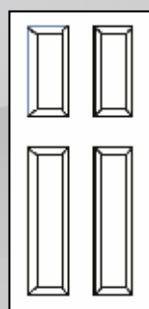
IFU.47  
Spencer



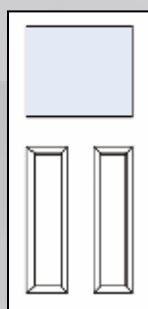
IFU.97  
Sydney

**Have you  
seen our  
other product  
brochures?**

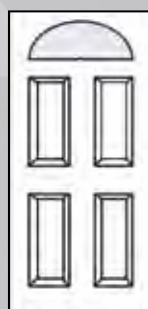




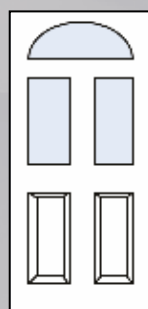
IFU.29  
Tahoe



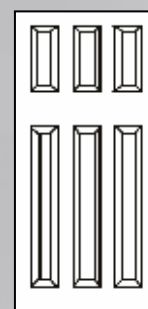
IFV.80  
Mask



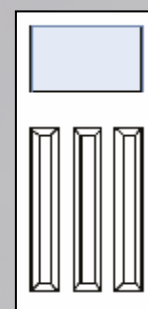
IFU.26  
Clearwater



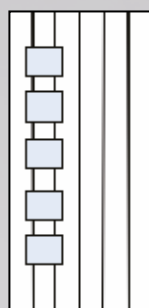
IFV.40  
Alto



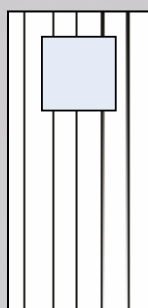
IFU.63  
Lutyens unglazed



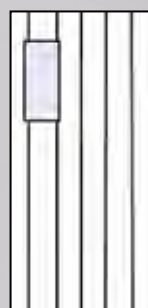
IFU.64  
Lutyens



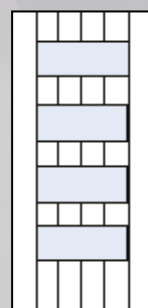
IFV.79  
Cottage Conn



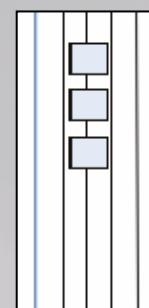
IFV.64  
Owel



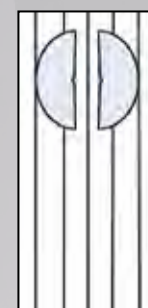
IFV.71  
Cottage Aire



IFV.39  
Cottage Grasmere



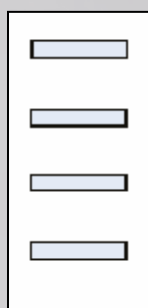
IFV.70  
Cottage Beck



IFV.78  
Cottage Basson



IFU.49  
Flush



IFU.11S  
SuperNova



Please ask us for  
more details

01924 438 112

[www.ianfirth.co.uk](http://www.ianfirth.co.uk)

email [enquiries@ianfirth.co.uk](mailto:enquiries@ianfirth.co.uk)





# Ontario Range

A timeless classic door style with a wide range of glass designs from plain clear or obscure glass (see page 28), through contemporary geometric styles, to very decorative traditional effects.



Ontario  
with Viola Blue Glass



Ontario  
with Imperial Chrome Bar Glass



Ontario  
with Cotswold Obscure Glass



Ontario  
with Decco Glass



Ontario  
with Etched Glass



Ontario  
with Simplicity Glass





# Michigan Range

This classic half-glazed door lets in maximum light to the home, but glass options can offer choice of decorative designs as well as plain, functional options (see page 28).



Michigan  
with Imperial Chrome Bar Glass



Michigan  
with Decco Glass



Michigan  
with Simplicity Glass



Michigan  
with Cotswold Glass



Michigan  
with Viola Green Glass



Michigan  
with Imperial Chrome Bar Glass





# Erie Range

When you want a little natural light but not compromising your privacy, the Erie door is perfect.



Erie  
with Etched Glass



Erie  
with Simplicity Glass



Erie  
with Costwold Glass



Erie  
with Clear Imperial  
Chrome Bar Glass



Erie  
with Viola Red Glass



Erie  
with Clear Glass





# Balaton & Alto Ranges

These two styles bring light and elegance into any home.



Balaton  
with Viola Green Glass



Balaton  
with Costwold Glass



Balaton  
with Simplicity Glass



Alto  
with Infinity Glass



Alto  
with Viola Blue Glass



Alto  
with Costwold Glass





# Clearwater & Lutyens Ranges

Taking design genres from the past we can offer these 1930s Art Deco door designs.



Clearwater  
with Viola Blue Glass



Clearwater  
with Simplicity Glass



Clearwater  
with Cotswold Glass



Lutyens  
with Simplicity Glass



Lutyens  
with Etched Glass



Lutyens  
with Juliette Glass





# Cottage Range

The Cottage door is the pinnacle of versatility enabling endless possibilities in design.



Cottage Superior  
with Monarch Diamond Glass



Cottage Ullswater  
with Imperial Chrome Bar Glass



Cottage Powell  
with Etched Glass



Cottage Coniston  
with Monarch Diamond Glass



Cottage Windermere  
with Twist Glass



Cottage Beck  
with Cotswold Glass





# Cottage Range

Don't be deceived into thinking Cottage means old fashioned when there are so many modern looking designs that can be made using this door style to suit many design applications.



Cottage Ullswater  
with Imperial Chrome Bar Glass



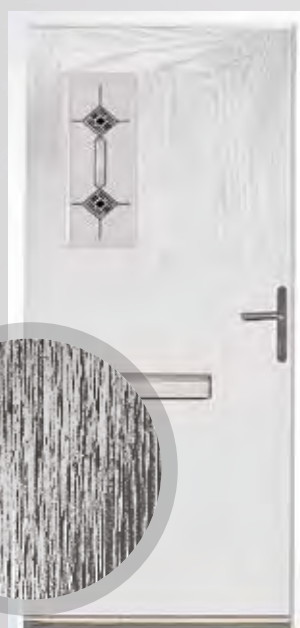
Cottage Owel  
with Cotswold Georgian Bar Glass



Cottage Grasmere  
with Etched Glass



Cottage Conn  
with Etched Glass



Cottage Aire  
with Cotswold Glass



Cottage Basson  
with Viola Blue Glass





# Flush Range

Let your imagination run riot using the Flush door as your blank canvas to create infinite design possibilities.



Ennell  
with Viola Black Glass



Ryan  
with Cotswold Glass



Powell  
with Etched Glass



Ree  
with Cotswold Glass



Volta  
with Simplicity Glass



Lyon  
with Viola Green Glass





# Solid Range

When glazing in the door leaf is not necessary, there is no need to compromise on style.



Huron



Placid



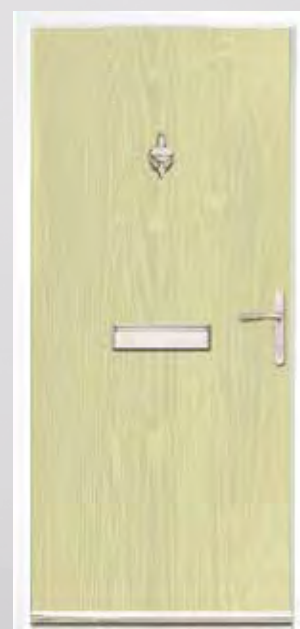
Tahoe



Lutyens



Cottage



Flush



FD30 Doorsets available in selected styles from this page. Ask for more details.





Have you seen our  
extensive range of  
**Internal  
doors?**



## Super Nova

Our brand new Super Nova door is an industry first combining grained GRP skin with ready glazed panels. Ultra modern styling is finished with satin stainless steel pull handle and the best in locking solutions.



Automatic lock included in this sleek, modern door design. Glass is etched to give privacy whilst still allowing light in.



# Communal Entrance Doorsets

Any style of door and any design of frame can be made into a doorset for use as the communal entrance doorset to a block of apartments.

A range of hardware specifications is available depending on the opening orientation, access control and security level requirements needed for the project.

A choice of stainless steel pull handles and escutcheons can be chosen from our extensive range.

Matching push plates and kick plates are recommended to protect these doorsets from extra wear from the higher volume of users.

Frame Type	Softwood	Softwood	PVC	PVC	PVC	PVC
Opening Orientation	Inward	Outward	Inward	Outward	Inward	Outward
PAS24	no	no	no	no	yes	yes
Hinges	Grade 13 Ball Bearing Stainless Steel, tested to 200,000 operations	Grade 13 Ball Bearing Stainless Steel, tested to 200,000 operations	Grade 13 Ball Bearing Stainless Steel, tested to 200,000 operations	Grade 13 Ball Bearing Stainless Steel, tested to 200,000 operations	Grade 13 Ball Bearing Stainless Steel, tested to 200,000 operations	Grade 13 Ball Bearing Stainless Steel, tested to 200,000 operations
Locking Specification	65mm mortice nightlatch case with Cylinder & Thumbturn, Electric Strike* fitted to frame.	65mm mortice nightlatch case with Cylinder & Thumbturn, Electric Strike* fitted to frame protected with Anti-thrust plate	65mm mortice nightlatch case with Cylinder & Thumbturn, Electric Strike* fitted to frame protected with lip extension	65mm mortice nightlatch case with Cylinder & Thumbturn, Electric Strike* fitted to frame protected with lip extension and anti-thrust plate	AV2-E Automatic Multi-point Lock with electric motor* connects to access control system*. TS007 3star Security cylinder & thumbturn. TS007 3star Security cylinder & thumbturn	AV2-E Automatic Multi-point Lock with electric motor* connects to access control system*. TS007 3star Security cylinder & thumbturn. Full height lip protects mechanism from attack and weather.
Access from outside	Occupiers have keys, visitors use intercom* to contact an occupier who releases door from a button* in apartment.	Occupiers have keys, visitors use intercom* to contact an occupier who releases door from a button* in apartment.	Occupiers have keys, visitors use intercom* to contact an occupier who releases door from a button* in apartment.	Occupiers have keys, visitors use intercom* to contact an occupier who releases door from a button* in apartment.	Occupiers have keys and/or could use some other form of access control entry*, visitors use intercom* to contact an occupier who releases door from a button* in apartment.	Occupiers have keys and/or could use some other form of access control entry*, visitors use intercom* to contact an occupier who releases door from a button* in apartment.
Exit from inside	Free exit for all using thumbturn on cylinder	Free exit for all using thumbturn on cylinder	Free exit for all using thumbturn on cylinder	Free exit for all using thumbturn on cylinder	Free exit for all using thumbturn on cylinder	Free exit for all using thumbturn on cylinder
Self-closing device	Overhead Doorcloser fitted to door on inside face, Fig 1	Overhead Doorcloser fitted to door on inside face, Fig 66 with parallel arm bracket	Overhead Doorcloser fitted to door on inside face, Fig 1	Overhead Doorcloser fitted to door on inside face, Fig 66 with PVC frame parallel arm bracket	Overhead Doorcloser fitted to door on inside face, Fig 1	Overhead Doorcloser fitted to door on inside face, Fig 66 with PVC frame parallel arm bracket

\*Wiring to mains power, intercom systems and access control entry devices such as keypads, card readers, proximity devices are not supplied and included as part of the doorset. These must be supplied and installed by a qualified electrical engineer in accordance with Building Regulations.

**Check out our range  
of Postal Boxes**

Page 29 of our Hardware Brochure

# COLOUR OPTIONS

## Standard Finishes

The GRP door is supplied pre-finished in a range of standard colours:

The colour is on the external face only, the internal face and the edges remain white for all colours.

Standard Colours and include white, black, blue, green, red.

White	=	'RAL 9016'
Black	=	'RAL 9005'
Blue	=	'RAL 5004'
Green	=	'RAL 6009'
Red	=	'NCSS3560-Y90R'

For coloured doors if the surface is scratched a lighter shade will show. Touch-up pens are available.



White



Blue



Black



Green



Red

## Woodgrain Finishes



Light Oak

Rosewood

## Special Colours



Light Grey  
RAL 7001

Slate Grey  
RAL 7015

Anthracite Grey  
RAL 7016

Home Cream  
RAL 1015

Duck Egg Blue

Chartwell  
Green

Other woodgrain effects can be available on special order.

Woodgrain effects are hand applied so can have variations in shade.

Doors and uPVC frames can be made special order to any RAL colour. A minimum order quantity and/or set up charge may apply and lead times extended.



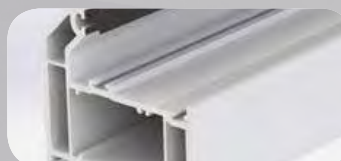


# External Door Frame Options

## 1 Materials



**Primed Softwood**  
For on-site painting



**uPVC profile with steel reinforcement**

White as standard, but other colours can be made to special order

Whatever the material, all our doorframes are fitted with weatherseals which have been tested to BS6375.

## 2 Frame Style

Sidelights can be made with or without midrail, and can be made with multiple horizontal rails if required. glass for fanlights and sidelights can be any style required: clear, obscure, decorative, with integral bars, etc.



Single Frame



Fanlight Frame



Single Sidelight



Double Sidelight Frame

## 3 Frame Dimensions

Standard frame dimensions when fitted with standard 25mm sill.

Door Size	Single Frame**	Fanlight Frame**	Single Sidelight, LH or RH sidelights**	Double Sidelight **
762x2013mm*	848x2095mm	n/a	n/a	n/a
838x2013mm	924x2095mm	924x2395mm	1300x2095mm	1700x2095mm
914x2013mm	1000x2095mm	1000x2395mm	1300x2095mm	1700x2095mm

\*Size available in selected door designs only

\*\*Alternative frame sizes can usually be accommodated to suit a wide range of applications

## 4 Sill Sections

Frames are supplied with 25mm 'mahogany' effect composite sill section as standard.

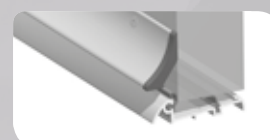
- Superior performance and low maintenance by comparison to high density timbers;
- Non-hygroscopic and will not absorb moisture;
- Extended life compared to hardwood;
- Eliminates the need for an impermeable barrier or membrane during installation;
- Highly durable outer skin with a glassine finish which can be left untreated or painted as required;
- Guaranteed not to warp, shrink or distort.

These are available in 140mm and 170mm widths to suit structural opening fitting positions.

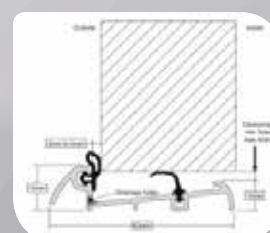
Frames are fitted with aluminium Slimline Threshold system as standard that meets the requirements of Part M. These are supplied loose for site installation and are complete with rain deflector.



Composite Sill with Slimline



Slimline with SRD Aluminium



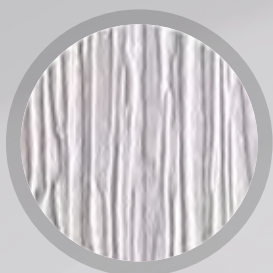
Slimline Threshold Dimensions

# Glass Options

Available for all door designs, sidelights and fanlights:



Clear



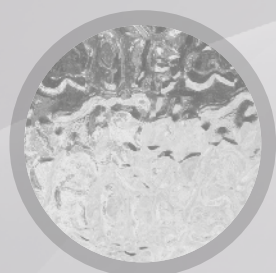
Cotswold  
with or without white integral bars



Etched



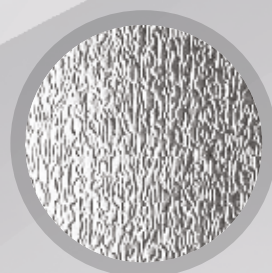
Autumn Leaf



Flemish



Stippolyte



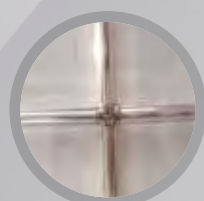
Minster



Taffeta

Clear glass, with or without white integral bars are also available in all door and frame designs.

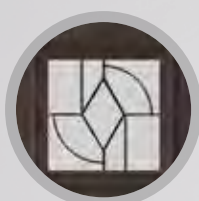
## Available in selected door designs



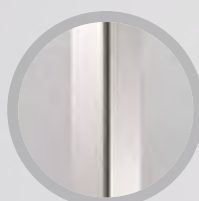
Imperial  
Chrome Bar



Simplicity



Twist



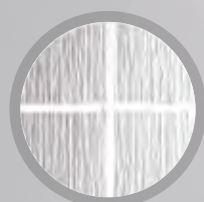
Manhattan Lead



Monarch Diamond



Decco



Cotswold  
White Bar



Viola Black



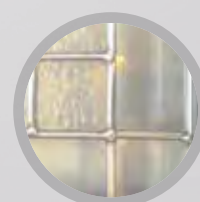
Viola Clear



Viola Red



Viola Blue



Juliette

All double glazed units are CE marked to EN1279, include toughened glass to EN12150 and laminated glass to EN14449. Door glass is supplied 4mm toughened, 16mm spacer with air filled cavity, with 6.8mm laminated backing as standard. Low E glass options as well as Argon filled cavities can be supplied to improve U-Value of doorset.



# Locks, Cylinders & Hinges

**WINK  
HAUS**



## Winkhaus ThunderBolt 5

- ✓ 5-Point Locking System
- ✓ 20mm throw deadbolts
- ✓ Lever operated bolts
- ✓ Takes Euro Cylinder
- ✓ PAS24 security tested
- ✓ Secured by Design
- ✓ 100,000 cycles durability
- ✓ Corrosion resistant
- ✓ Adjustable keeps
- ✓ Split follower function available
- ✓ Handed LH/RH

**WINK  
HAUS**



## Winkhaus AV2 Automatic Lock

- ✓ 3-Point Locking System
- ✓ Hook bolts top & bottom
- ✓ Automatically locks on closing door
- ✓ Takes Euro Cylinder
- ✓ PAS24 security tested
- ✓ Secured by Design
- ✓ 100,000 cycles durability
- ✓ Corrosion resistant
- ✓ Adjustable keeps
- ✓ Easy to use by elderly
- ✓ Handed LH/RH

## 5 Lever Mortice Sashlock

IFM54.21 65mm  
IFM54.21 75mm

BS3621 Kitemarked



## 5 Lever Mortice Deadlock

IFM54.20 65mm  
IFM54.20 75mm

Satin Stainless Steel  
Electro Satin

BS3621 Kitemarked



## Winkhaus electric locking concept

The AV2-E is an automatic multi-point locking system with integrated motorised opening function. It locks automatically by way of two massive hooks and the latch. The door is opened using a key or a convenient access control system. (Fob, keypad, card readers, etc)



## Deadlocking Cylinder Rim Nightlatch,

IFM18.06

Electro Brassed 40mm 60mm  
Satin Grey 40mm 60mm



Rim cylinders can be keyed common to Euro-profile cylinders

## Roller Bolt Nightlatch Case

IFM18.07

Polished Chrome



Rim cylinders can be keyed common to Euro-profile cylinders

## Adjustable 3-D Composite Door Hinges

IFL73.20

- ✓ 3-way adjustable
- ✓ Designed for composite doors
- ✓ Available in White, Chrome, and Brass
- ✓ PAS24 tested 50,000 cycle durability tested
- ✓ Corrosion resistant



## Pro-Secure 3D Door Hinge

IFL73.25

- ✓ Successfully tested to PAS24 without the need for additional hinge protectors
- ✓ Stainless steel hinge pin
- ✓ Screw fixings secure through the over-rebate and fix into bosses
- ✓ 3D Adjustable to ensure optimal weather tightness and installation



# Lever Furniture & Letterplates

Whether you need to meet PAS24 Security criteria or not, we have a range of options to suit all budgets.

**Venice**  
IFH12.89



- ✓ Stainless Steel, Polished or Satin
- ✓ Corrosion resistant
- ✓ Euro profile 92mm centers
- ✓ 50,000 cycles durability

**Sparta**  
IFH12.96



- ✓ Grade 304 stainless steel externally
- ✓ 25 year guarantee on finish
- ✓ 10 year mechanical warranty
- ✓ Cycle tested 50,000 cycles
- ✓ 1000 hours salt spray test
- ✓ Available in Polished, Satin, Black and Gold.

**Athena**  
IFH12.56



- ✓ Grade 304 stainless steel externally
- ✓ 25 year guarantee on finish
- ✓ 10 year mechanical warranty
- ✓ Cycle tested 50,000 cycles
- ✓ 1000 hours salt spray test
- ✓ Conforms to EN1906
- ✓ TS007 2\* rated

## Euro Profile Cylinders




**IFM4.96/97**

- ✓ EN1303 5 pin
- ✓ 100,000 differs
- ✓ 96 hours salt spray
- ✓ 3 keys supplied



**IFM4.56/57**

- ✓ EN1303 TS007 1\* rated
- ✓ Kitemarked
- ✓ Anti bump
- ✓ Drill resistant



**IFM4.46/47**


- ✓ EN1303 TS007 3\* rated
- ✓ Kitemarked
- ✓ Anti bump
- ✓ Anti snap

Cylinders for 44mm external doors supplied 35/35, other sizes available on request. All grades of cylinders available key / key or key / turn, Satin or Brass finish.

To achieve PAS24 3\* combination of cylinder lever and / or protection is acceptable.

## Accessories to upgrade security

**Winkhaus Armourguard**



- ✓ TS007 2 star

**Cowl**  
IFH4.31



- ✓ PAS24:2012 security tested
- ✓ Stainless steel, polished or satin
- ✓ Inner security cowl
- ✓ Protects cylinder and prevents 'fishing'


**Cylinder Shield**  
IFH12.50



- ✓ Polished chrome finish
- ✓ Protects cylinder thumb turn from unwanted manipulation when fitted within reach of a letterplate

## Letterplates

**Standard Letterplate**  
IFH4.44



- ✓ Flap available in PSS and PVD Brass finishes
- ✓ Either Silver or Gold Plastic Frame
- ✓ Brush draught excluders
- ✓ Weather tested to BS6375
- ✓ Corrosion resistant

**Unicorn Letterplate**  
IFH4.45



- ✓ Polished Stainless Steel
- ✓ Also available in satin stainless steel
- ✓ All metal frame & flap
- ✓ Brush draught excluders
- ✓ PAS24: 2012
- ✓ Weather tested to BS6375
- ✓ If with cowl, meets Part Q

**Pegasus Letterplate**  
IFH4.46



- ✓ PAS24 security tested
- ✓ Stainless steel, polished or satin
- ✓ Inner security cowl in white
- ✓ Protects cylinder and prevents 'fishing'
- ✓ TS008 letterplate
- ✓ PAS24: 2016
- ✓ Secured by Design



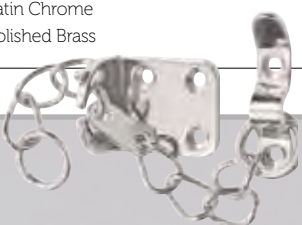
# Accessories

## Door Chains

**Door Chain**

Polished Chrome  
Satin Chrome  
Polished Brass


**IFS6.12**



**Door Chain**

Brass Plated  
Chrome Plated

**IFS6.08**



**180deg Door Viewer**

**IFS6.30**

Polished Chrome  
Satin Chrome  
Polished Brass

To suit 44mm thick doors  
Intrumeccent versions suitable  
for fire doors available  
on request




## Numerals

**50mm SAA Numerals**

**IFH5.56**


Satin Anodised  
Aluminium



**75mm Numerals**

**IFH5.50**

Polished  
Stainless Steel  
Satin  
Stainless Steel



**75mm Numerals**

**IFH5.14**


Polished Chrome  
Satin Chrome  
Polished Brass



**Self Adhesive Plastic Numerals**

**IFH5.24 (50mm)**  
**IFH5.44 (100mm)**

Polished  
Brass Effect  
Polished  
Chrome Effect



## Door Knockers

**Ring Style Knocker**

**IFH4.28**

Polished Chrome  
Polished Brass



**150mm Urn Style Face Fixed Knocker**

**IFH5.20**

Polished Chrome  
Satin Chrome  
Polished Brass


**IFH5.21 version**  
includes hole for  
door viewer



**Upright, Narrow Style Knocker**

**IFH4.36**

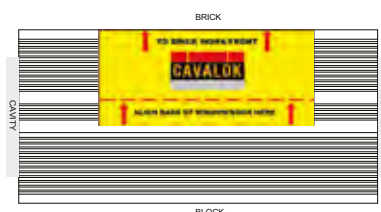
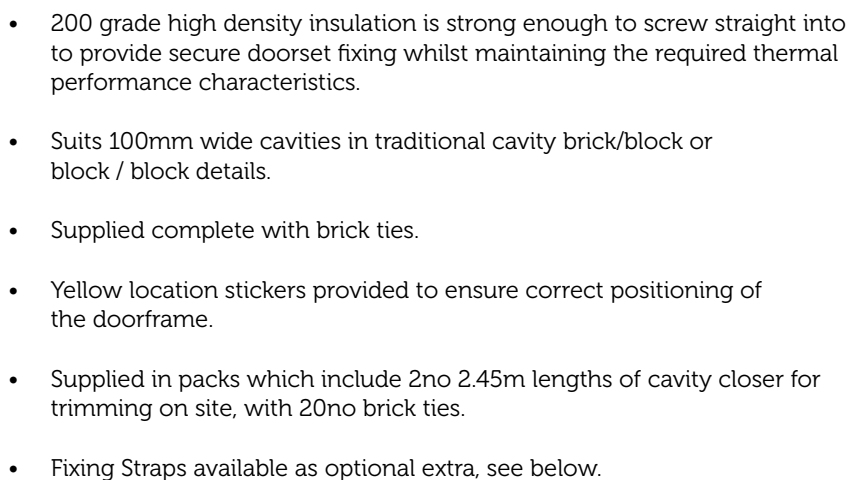
Polished Chrome  
Satin Chrome  
Polished Brass



For Internal Door Hardware and other information: [www.ianfirth.co.uk/brochures](http://www.ianfirth.co.uk/brochures)



## Structural Cavity Closer System



The image shows a roll of STIXALLO extruded aluminum mesh, which is a black material with a woven texture. The roll is labeled with the brand name 'STIXALLO' in large, bold, red letters, and 'EXTRUDED ALUMINUM MESH' in smaller text below it. To the right of the roll is a white card titled 'Extruded Mesh Fasteners Installation Guide'.



CAVALOK

CBPSTF70U2E  
(BOX 250)

32 To order - Call us on 01924 438 112, visit [www.ianfirth.co.uk](http://www.ianfirth.co.uk), email [enquiries@ianfirth.co.uk](mailto:enquiries@ianfirth.co.uk)



# Installation, Care & Maintenance Information

All our doorsets are supplied with an installation leaflet giving guidance on how the doorset should be fitted to ensure correct operation.

- ✓ Always lift the lever handle to throw the bolts when the door is closed, even if not locked.
- ✓ Regularly lubricate the moving parts of the lock, handle and hinges with a lubricant such as 'WD40', 'Tri-flo' or 'Duckoil'.
- ✓ Regularly wash the doorface and hardware with warm soapy water and a soft cloth to keep the door looking good for longer. In coastal locations, near airports or heavy industry, this will need to be more frequent. Never use household cleaning products, metal polish, or abrasive cloths on the doorface or hardware.

## Useful Information:

1. All newly hung doors will settle in position and will probably need adjusting after a few months.

The gaps between the door and the frame looking from the inside should be between 2 to 4mm, the door should be pressed tight up to the seals on all four sides so no draughts can be felt, and the lock bolts should throw into the strike plates without resistance.

2. All composite doors will react to temperature and sunlight. They will appear to move and can sometimes make creaking noises when subject to direct sun. This is more prevalent with south facing doors and dark coloured doors. This is normal and the door will move back again when the sun moves away. Doors can look as if they have bowed inwards when there are extremes of temperatures from inside and out. As long as the door still locks and is not leaking around the seals, this is nothing to worry about. The door is likely to move back when temperatures change.
3. The threshold is designed for wheelchair access to meet Building Regulations, so it has a low upstand. It is therefore important any rainwater can drain to the outside quickly to prevent leaks internally. It will drain better if the trough is free from debris and the drainage holes are clear. Please ensure this is regularly checked.
4. Small, shallow scratches to the doorface should be repaired with specialist touch-up pens, not standard household paints.

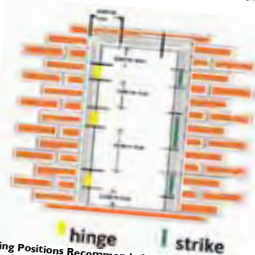
To download Guides and for further information:

[www.ianfirth.co.uk/guides](http://www.ianfirth.co.uk/guides)



## External Doorset – Installation Guidance

**Please Note:**  
The code of practice for installation as issued by the British Plastics Federation should be complied with at all times. Failure to install your doorset and all associated items in strict accordance with these instructions may invalidate any future warranty claim systems refer to system provider's detail for recommended fixings.



**Fixing Positions Recommended:**  
Generally, all three sides of the frame shall be secured, however it is not always possible. There should be minimum of two fixing points to each jamb, each fixing point being above or below a hinge or keep position. Corner fixings should be maximum 150mm away from the external corner. Intermediate fixings should be at centres no greater than 450mm. The structural opening. If fixings are supplied pre-glazed it is expected the fixings chosen should be appropriate for the frame material and reinforcement used in frame as well as the material screws will be driven into therefore we recommend the fixing method as below. Some cover caps may be required, not supplied.

**Before Any Work Commences:**  
Ensure doorset is correct in size and specification to your order.  
Ensure aperture size to doorset is correct. It is recommended 5mm minimum to 10mm maximum tolerance to enable correct installation. Opening should be square and plumb.

Door and frame should be installed as complete unit. There should be no need to knock out the hinge pins and retain, or for adjustable hinges knock the centre knuckle assembly.

Fixings should be appropriate to the structural opening formed, the density of masonry, and cavity closure method.

**Step 1:** Offer doorset to opening and place two packers under sill 150mm apart centrally (but on top of DPC membrane) ensuring it is level and straight.

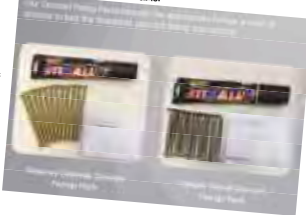
**Step 2:** Select fixings that are appropriate for the substrate the frame is to be fitted to and the cavity closure method.

**Step 3:** Using frame anchor screw type fixings (not hammer fixings) or fixing straps, 400 per leg positioned as overhead. Fix hinge leg first, starting at top corner and work down leg, ensuring frame is in line, square and plumb. Use packers above and below each fixing point to ensure frame leg is straight.

**Step 4:** Close the door into the frame and square the locking leg into the structural opening, pack leg to ensure it is straight, open doorleaf and fix locking leg as step 3.

**Step 5:** Insert packers to head to ensure... ensure smooth...

We can also supply Fixing Packs suitable for some building methods. See our brochure for details.



**Step 7:** Ensure diagonal measurements of fitted frame are equal. Adjust hinges or frame fixings to correct if necessary.

**Step 8:** When foam filling gap between frame and brickwork insert 3mm packers temporarily between door leaf and frame rebate. After frame has set remove packers and re-check gaps as step 6. Doorsets should be music tested as soon as possible.

**Step 9:** Aluminium threshold sill and rain deflector should be bedded in an appropriate weather resistant silicone/sealant (such as Sikaflex). Ensure drainage channels are free from debris and sealant.

**Step 10:** Fit the cylinder, lever handles, cylinder guard or letterplate and lubricate to ensure smooth operation. All moving parts, hinges, latch, lock bolts, handle should be lubricated with 'Tri-flo' or 'WD40' or similar.

**Step 11:** Weatherproof compression can be adjusted by using the adjustment screws on face of the keep plate and/or by adjusting the adjustable hinges. See below. Inter-plates, handles and cylinders.

Doorset should now be...

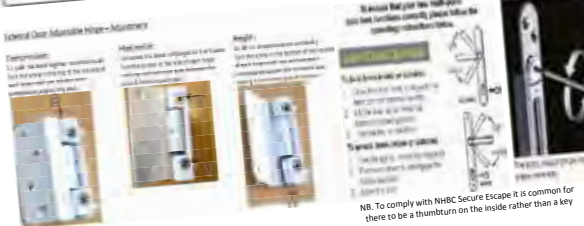
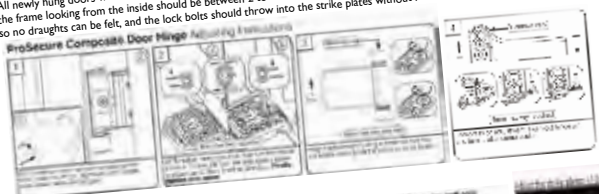
Post...

## External Doorset – Care & Maintenance Guide

Doorsets will arrive on site wrapped. Do not open wrapping until ready to install. Keep doorsets flat on pallet for as long as possible. Do not lean doorsets back for extended periods of time. Do not store outside unless protected from weather. Complete fitting of all hardware as soon after installation as possible.

**WARNING:** Do not use any form of chemical cleaners or abrasive cleaning equipment on or near the door leaf, frame, glass or hardware as this will cause damage and will invalidate any warranty. Only clean using warm soapy water with a soft cloth. Hardware fitted to doorsets in coastal regions or near heavy industry will need more regular cleaning to maintain finish.

All newly hung doors will settle in position and will probably need adjusting after a few months. The gaps between the door and the frame looking from the inside should be between 2 to 4mm, the door should be pressed tight up to the seals on all four sides so no draughts can be felt, and the lock bolts should throw into the strike plates without resistance.



NB. To comply with NHBC Secure Escape it is common for there to be a thumbturn on the inside rather than a key

## Final Inspection Checklist

AREA TO BE CHECKED	OK	FEED
Visual Inspection		
1. Doorset is correctly installed		
2. Doorset is square and plumb		
3. Doorset is level and straight		
4. Doorset is free from debris		
5. Doorset is free from damage		
6. Doorset is free from scratches		
7. Doorset is free from dents		
8. Doorset is free from paint marks		
9. Doorset is free from other marks		
10. Doorset is free from other damage		
11. Doorset is free from other issues		
12. Doorset is free from other problems		
13. Doorset is free from other faults		
14. Doorset is free from other defects		
15. Doorset is free from other errors		
16. Doorset is free from other mistakes		
17. Doorset is free from other blunders		
18. Doorset is free from other lapses		
19. Doorset is free from other omissions		
20. Doorset is free from other commissions		

# What Ian Firth can do for you...



## Hardware

Our door furniture cannot be beaten for quality and style.

To request a catalogue please call **01924 438 112**

Scan with your smartphone to view the range.



## Internal Doors

For the best choice of quality internal doors and doorkits.

To request a catalogue please call **01924 438 112**

Scan with your smartphone to view the range.

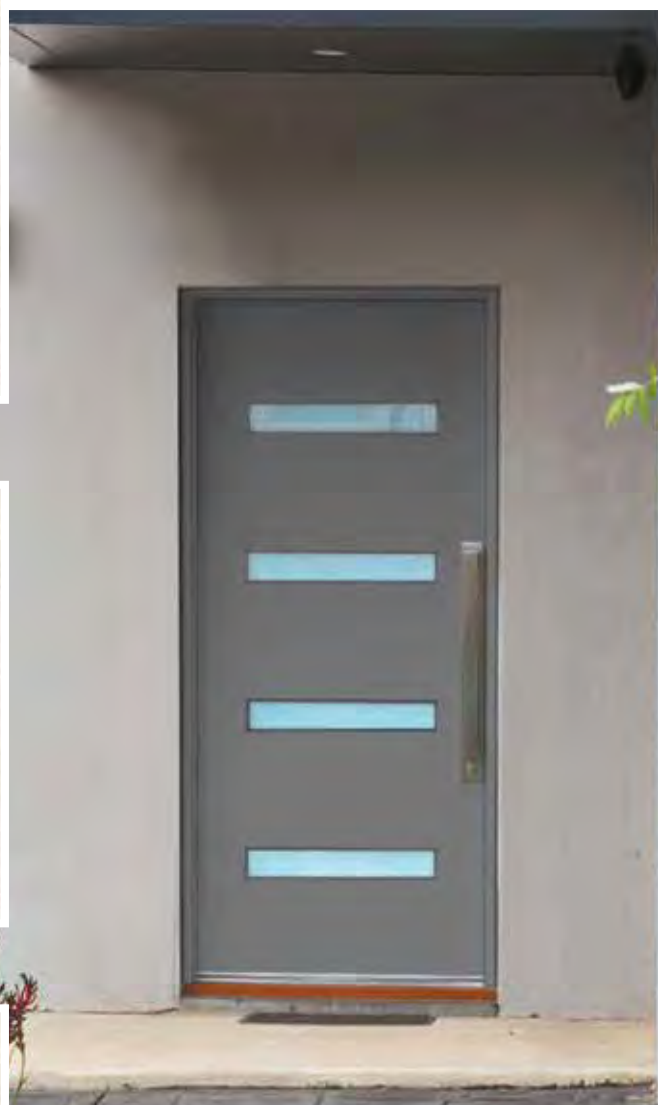


## External Doors

Composite external doorsets from traditional to contemporary.

To request a catalogue please call **01924 438 112**

Scan with your smartphone to view the range.



Let Ian Firth be your number one choice for all your door and hardware needs to remove the stress of completing your build.

# Can't see what you are looking for?





## Environmental

Raise the Eco profile of your build with this range.

To request a catalogue please call **01924 438 112**

Scan with your smartphone to view the range.



## Building Products

Associated building products to finish your project with ease.

To request a catalogue please call **01924 438 112**

Scan with your smartphone to view the range.



## Range Guide

Your one stop shop for the full range.

To request a catalogue please call **01924 438 112**

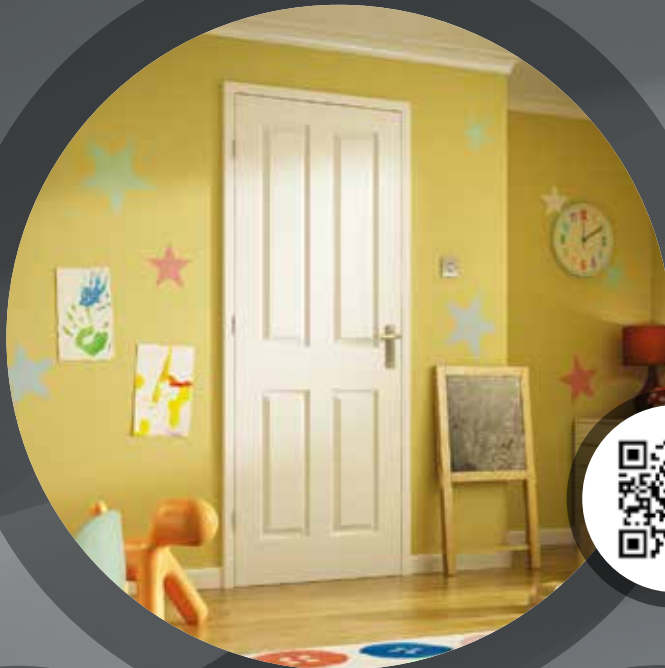
Scan with your smartphone to view the range.



To ensure you don't miss any of our vast range, contact us using any of the details on the footer of each page. Alternatively, scan any of the QR codes to access our online versions of the featured documents.

**Our range is huge so please send details of what you need and we shall try to fulfill your requirements!**





**IAN FIRTH HARDWARE LIMITED:**  
Lady Ann House, Shaw Cross Business Park, Dewsbury,  
West Yorkshire, WF12 7RD.

Phone: +44 (0)1924 438112  
Fax: +44 (0)1924 438033

Company Registration No: 1590577.

12859 01/18 Designed by FCD 0845 6892015



Look for FSC certified products.

