



*Great British Doors*



## *Welcome home*

Fortis Aluminium - a complete home door range that is the perfect mix of security, durability, energy efficiency & style perfection.

The Fortis factory is British based and is well equipped with the latest machinery & technology. Designers have put together a range of door designs that will suit every type of property from contemporary to traditional. All doors are handcrafted & bespoke and with state of the art CNC machinery, any motif can be carved into the aluminium face externally & internally. If you are looking for something oversized - the hinged doors can go up to 1.4m wide & 3m tall.

The D72 range offers fantastic levels of security, impressive thermal efficiency, one piece frame and benefits from the latest electronic access technology. The UD range of doors have been developed to offer similar levels of security and insulation whilst being hardware suited with our range of D72 entrance doors. UD is perfect for back doors, side doors and garage/utility personnel entrances.

We take immense pride in the production of every Fortis door. Each stage of the production is carefully carried out, checked & signed off ready for packaging before the door leaves the factory.

We look forward to supplying your new door.



# Fortis Doors

## Great British doors:

Fortify and protect your home with style. **Fortis Aluminium** are proud to manufacture our range of energy efficient, high security door systems in **Great Britain**. We source and manufacture the majority of our components in the UK resulting in less transport and a lower carbon footprint compared to European built aluminium door systems. Function and form are key in our design and manufacturing process to ensure that each door we produce in our Leicester factory will last for years to come.

## Engineering excellence:

Only the highest grade materials are good enough for a Fortis door. Our doors are **engineered** to last and withstand the toughest of environments. Every small detail of every single door we produce is considered and perfected. Our doors are all hand made in our purpose built factory from marine grade, corrosion resistant alloys, 304 and 316 grade stainless steel and argon filled, high security triple glazing as standard on the **D72** range.

## Cutting edge technology:

Technological advancements don't just feature in our door control systems, biometrics and smart home integration. **Fortis** are always pushing boundaries and using the best alloys, finishes to the highest coating standards, Low-E sealed units with high security ratings, thermally efficient profiles and super insulated cores. As a factory solely building our doors by hand, we have the ability to integrate, learn and change our processes to ensure our doors are always **cutting edge**.

# D72: Aluminium door



Each door is made to order to your exact specification to suit your design requirements. With Fortis, you get more as standard from our flush fitting profiles to our marine grade stainless steel hardware.

A D72 Aluminium door is designed to give outstanding levels of security with **PAS24 Enhanced security for doorsets** accreditation. Furnished with multi-point locking, BSI 3 Star Kitemark & Sold Secure Diamond Standard Euro Cylinder with 5 keys and laminated, argon filled triple glazed glass units with warm edge spacer bars.

There's no room for compromise, all doors are built with the following components:

**PAS24**  
Enhanced security performance for doorsets



## 304/316 Fittings

**Marine grade** handles and hardware. Internal and external handles are built to the highest standard and intensively salt spray

tested.



## High security locks

Multi-point **7 point lock** system as standard. FUHR lock systems are world renowned as a market leader in lock technology.



## High grade hinges

3-way adjustable Rollband **hinges** for heavy doors and intensive usage. Reduces the need for frame extensions.



## Thermal insulation

3mm 5000 series coastal grade aluminium plates sandwich 66mm of ultra dense insulating core material.

**Triple glazed.**

# The ultimate lock cylinder:



ANTI-BUMP



ANTI-PICK



ANTI-DRILL



ANTI-SAW



PLUG EXTRACTION PROTECTION



ANTI-SNAP



The 3\* star cylinder provides the maximum level of lock security, offering un-paralleled protection against the most common methods of lock attack. It safeguards from all forced methods of attack ranging from snapping, drilling, plug-extraction, picking and bumping. The cylinder is specifically engineered with a unique sacrificial point, which when tampered with externally sets an interlocking cam mechanism into action, preventing any further damage to the internal parts of the cylinder, whilst still keeping the lock operable from the inside. Thumb turn as standard with the option of key / key.



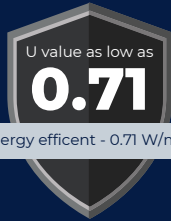
**Ratings:** BSI 3 Star Kitemark & Sold Secure Diamond Standard Euro Cylinder.

# D72 aluminium door



Enhanced security for doorsets

RC2 rated as standard. RC3 upgrade with dog bolts



Energy efficient - 0.71 W/m<sup>2</sup>K

On an oversized door 1230 x 2180 - U value of 0.87 W/m<sup>2</sup>K



Air permeability class 4

Multiple sealing gaskets give a Fortis D72 great results. Our air permeability and driving rain resistance performance speaks for itself



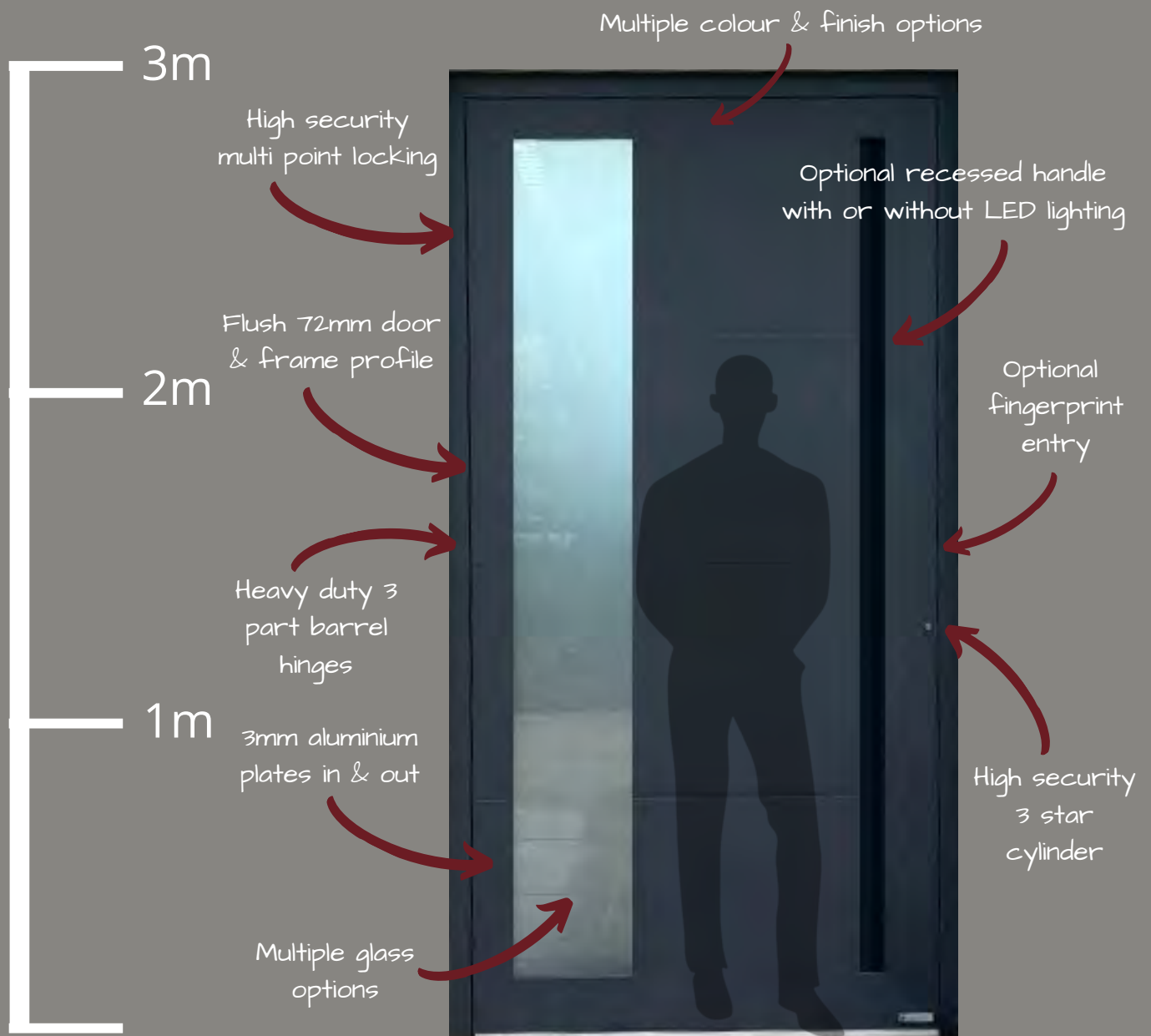
Class 9A against driving rain



Warp resistant profiles

Split door profiles and incorporated slide in springs

## Made to measure doors up to 1.4m wide x 3m high



Smart home ready when specified with electronic locking.  
Works with:



# Range: Reflection



**Reflection:** Utilising highly secure glazed elements, thermally broken insulated frames and chassis to ensure maximum light admittance whilst retaining high security levels.



Pictured: Reflection F700 doorset in RAL 7011, matt with clear triple glazing.



# Range: Reflection



F100



F101



F102



F103



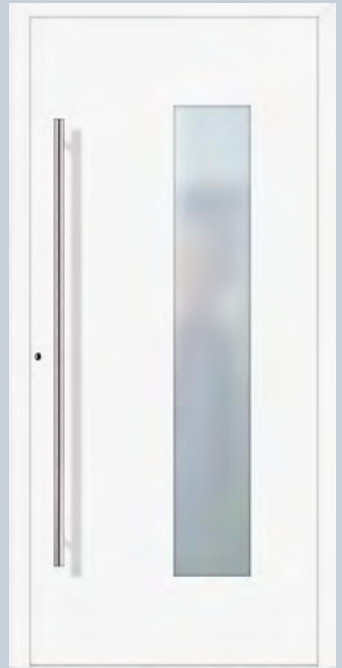
F104



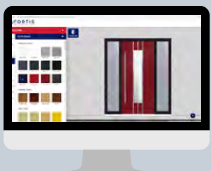
F105



F106



F107



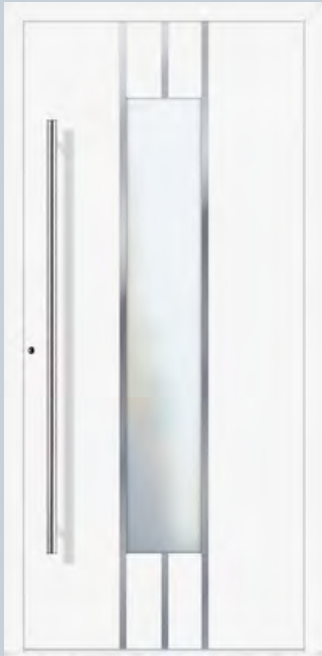
Design your dream door at [fortisal.co.uk](https://www.fortisal.co.uk)



# Range: Reflection



F108



F109



F112



F110



F111

Fortis D72 doors are PAS24 tested and certified





# Range: Reflection



F302



F200



F201



F300



F301



Flush D72 door / frame detail

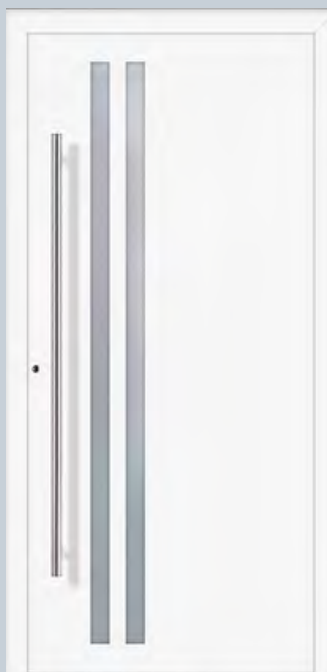
# Range: Reflection



F400



F401



F402



F500



F501



F600

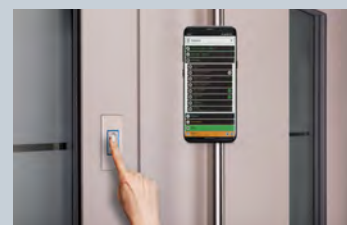


F601



F602

Add fingerprint entry to your door incorporating app control, virtual keys and smartphone monitoring.



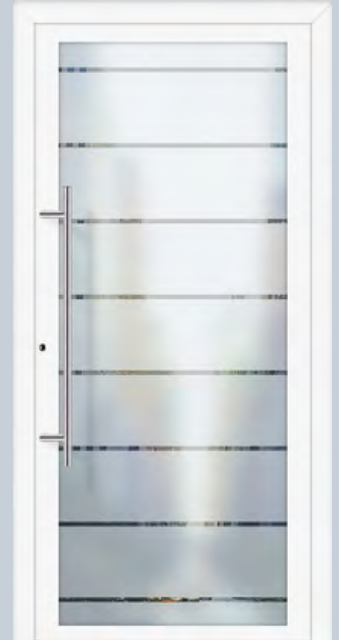
# Range: Reflection



F603



F700



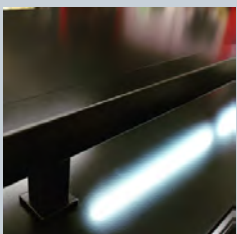
F701



F702



F703



LED handle options

# Range: Pure

**Pure:** Design underlines simplicity and creativity. Following modern architectural trends & representing many unique style accents to complement clean contemporary finish.



Pictured: F801 in Black Grey, RAL 7021. Overlaid & glazed sidelight, recessed handle, built in LEDS & black finger scanner



# Range: Pure



F800



F801



F802



F803



F804



F805



F806

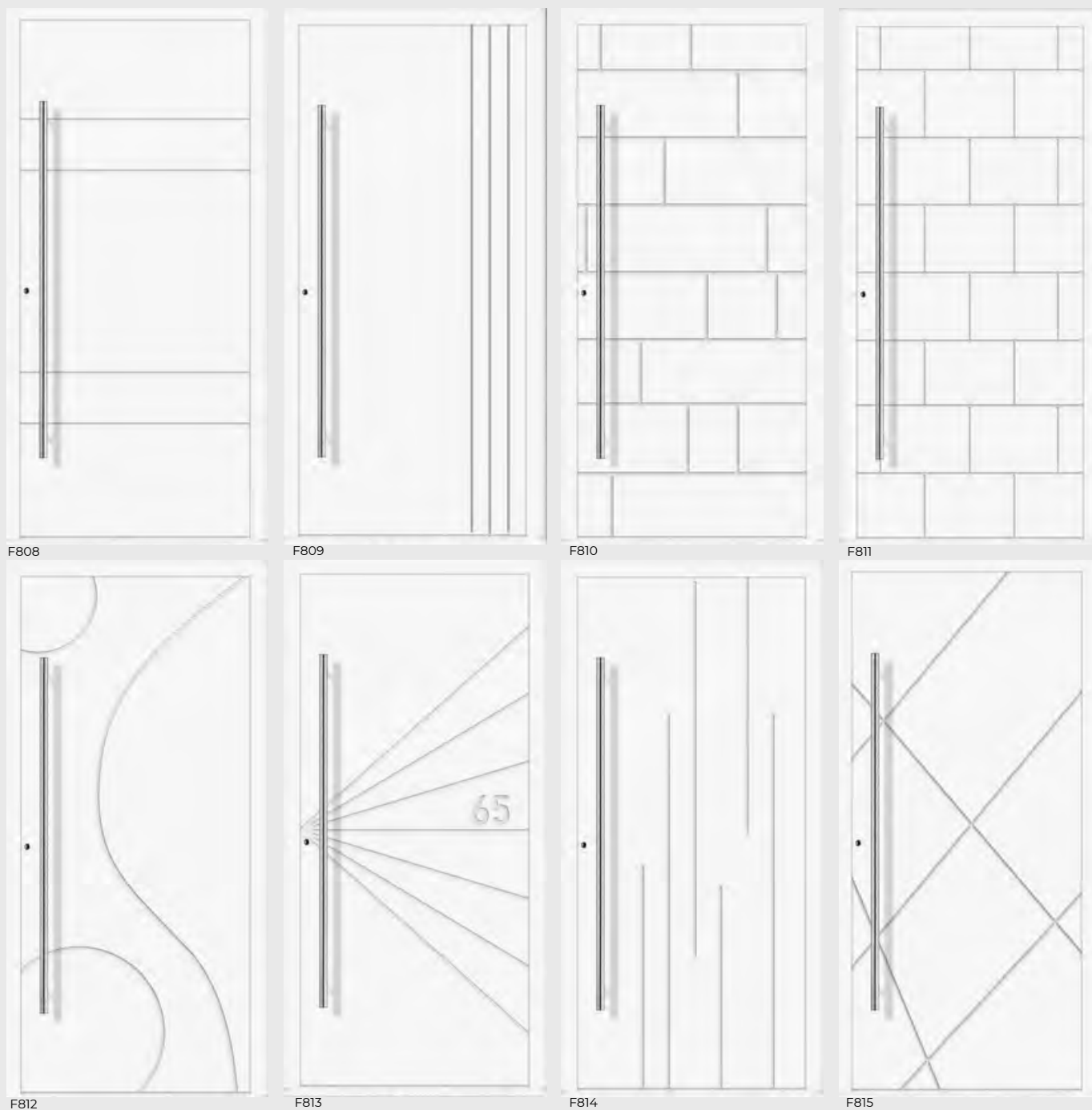


F807



4-in-1 UniLock: Finger print, keypad, app control & RFID

# Range: Pure



Cylinder - BSI 3 \* Kitemark & Sold Secure Diamond  
Standard Euro Cylinders with 5 keys



# Range: Pure



F816



F817



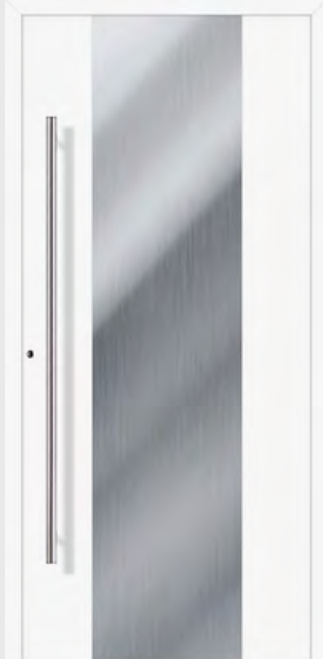
F818



F819



F821



F822



F823



F824



Concealed and RAL finished hinge options







## School Farm Barn

Maxstoke, West Midlands, UK

Entrance Door: Fortis Aluminium  
Door specification  
System: D72  
Design: F801  
Internal: F801 Internal design  
Finish: RAL 7021 Fine structure  
Handle: HR10 recessed  
Internal handle: HL10R, RAL 7021  
Hinges: HG30 concealed  
Lock: 9 point inc extension  
Sidelights: Clear

Screen width: 3634mm  
Screen height: 2510mm  
Door width: 1500mm  
Sidelight width: 1067mm (x2)  
Fixed Glazed fanlight  
Walk through width: 1406mm  
Threshold: Low level  
Door rating: PAS24

Contractor: Hohm Developments

# Range: Pure



F825

F826

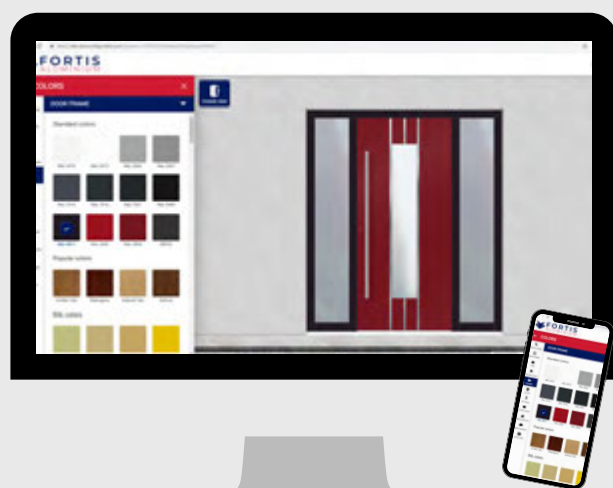
F827

Got your own style?  
You design it - Fortis will build it

## Fortis Configurator



Pictured: Pure F800 in Elements: Peat Fire with Anthracite grey frame + RAL 1003 handle

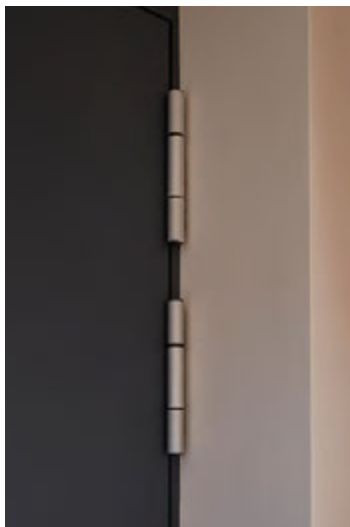


You can visualise your door on  
your own property at  
**fortisal.co.uk**

# The finer details, as standard...



Solid stainless steel handle



Anodised rollband hinges



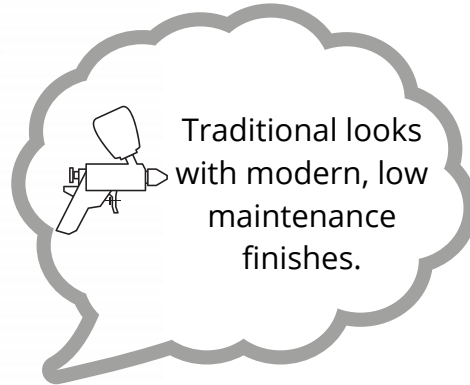
7 point lock with stainless band



Stainless steel security escutcheon

Fortis hardware can be colour finished to any RAL colour. Stainless steel screws are used on our locks, hinges and handles.

# Range: Residence



**Residence Hardware set**  
Satin | Chrome | Brass

**Residence:** Classic British design with bespoke hardware and fittings. A classic look with the energy efficiency and security. Clean recesses and modern lines.

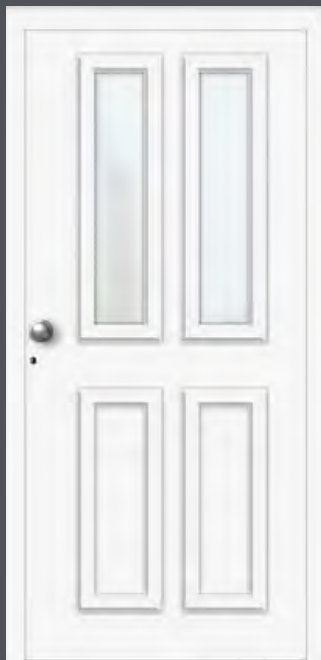
Pictured: Residence Bespoke design with chrome hardware, finished in Jet Black, RAL 9005 fine structure



# Range: Residence



F900



F901



F903



F904



F902

Tailored hardware sets for Residence and traditional door designs



# Range: Residence



F905



F906



F907



F908



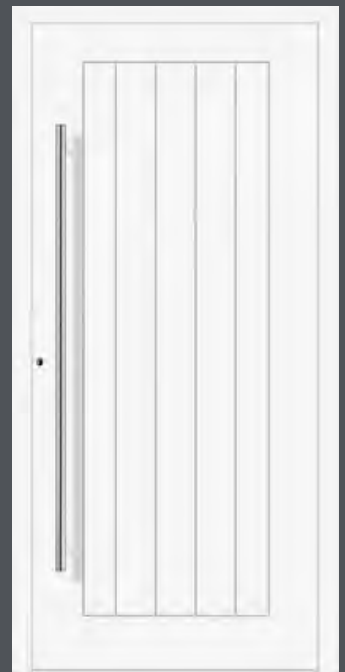
F909



F910



F911



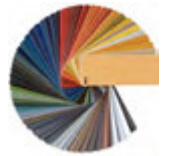
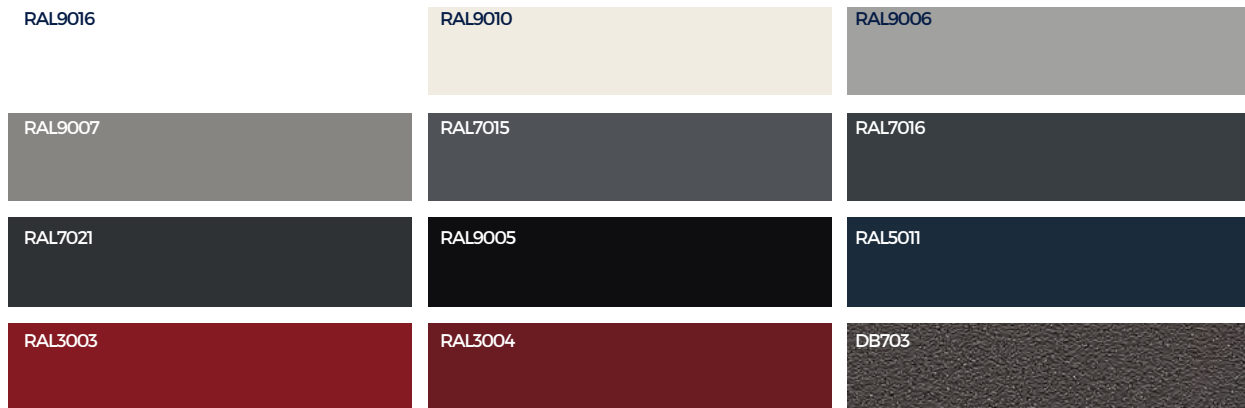
F912



Bar handles incorporating finger scan entry

# Standard Colours:

12 standard colour options + limitless additional RAL, NCS & Le Corbusier paint finishes.



RAL to choose. We can colour match to any RAL.

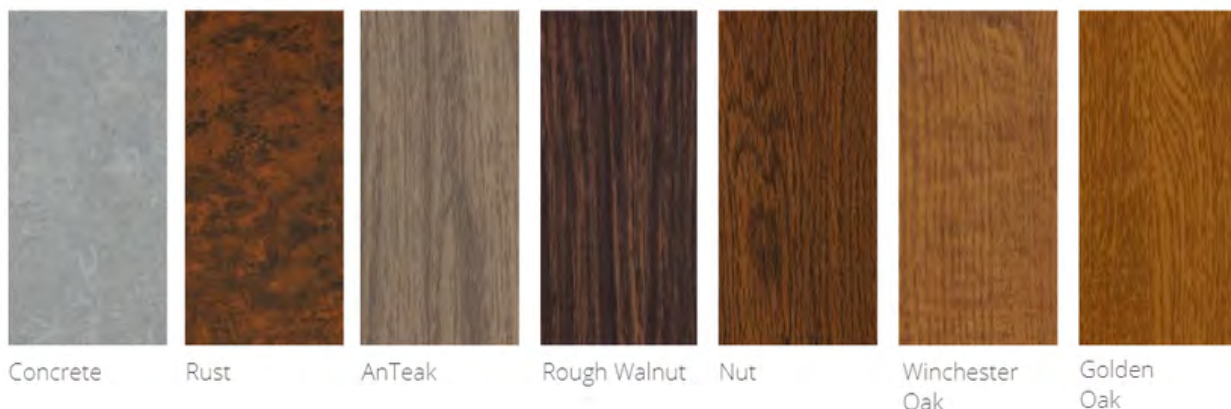
# Element finishes:

Elements finishes reflect the patinas caused naturally by metallic oxidation, ageing, patina, natural stone and changes in composition. Elements is an exciting development in powder coating technology, creating beautiful and striking effects with additional low maintenance free benefits. Elements are hand applied for a natural varying finish. 6 individual, bespoke options to choose from:



# SD finishes:

If you love natural timber but don't want the associated problems and maintenance, then Fortis SD wood sublimation finishes are the answer. Applied to our aluminium doors in the same method as the powder coat finishes, with the addition of the realistic wood colour and grain effect for a lasting, maintenance free wood or feature finish with low pattern repetition. Additional option of SD Concrete & Rust.



*Signature doors have been designed with unique handles.*



# *Signature Doors*



# Signature Doors



SG2

SG2 incorporating full height, angled face plate and hidden handle & a glazed section.



SG5

SG5 incorporating full height, angled, grooved face plate and hidden, handle.

SGC

SGC incorporates the twin angled face plate with glazing concealed by an oversized, industrial square bar handle. Glazing option: Clear, satin or tinted.

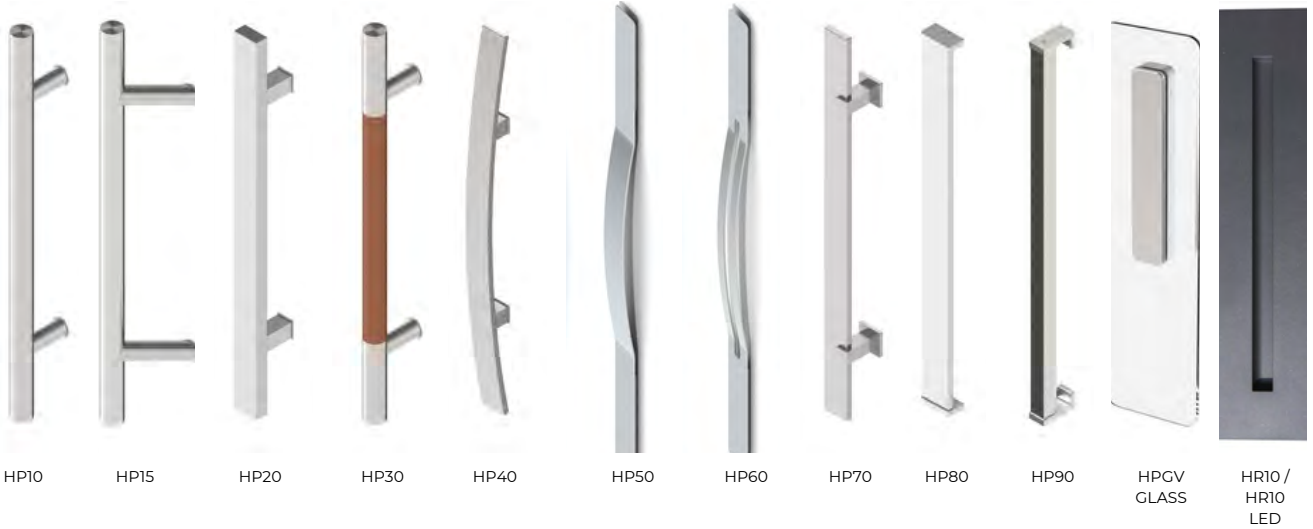


*The finest aluminium doors.*

# Hardware:

Pull Handles - Stainless steel and option of RAL colour:

Recessed handles  
from 400mm - 3000mm



HP10 HP15 HP20 HP30 HP40 HP50 HP60 HP70 HP80 HP90 HPGV GLASS HR10/HR10 LED



HPGH GLASS

HR20

**LED:**  
Cool white,  
Warm white  
or Blue  
indirect  
lighting.

## Traditional Hardware:



HK10

KN10

KN20

KN30

LBOX: Stainless or Black  
LBOXC: Classic letterplate  
- stainless

Traditional  
Hardware also  
available in  
Satin Brass  
PVD finish

## Internal handles:

316 Stainless steel



HL10

HL20

HL30

HL10, 20, 30  
RAL to choose

## Hinges:



HG10

HG20

HG30

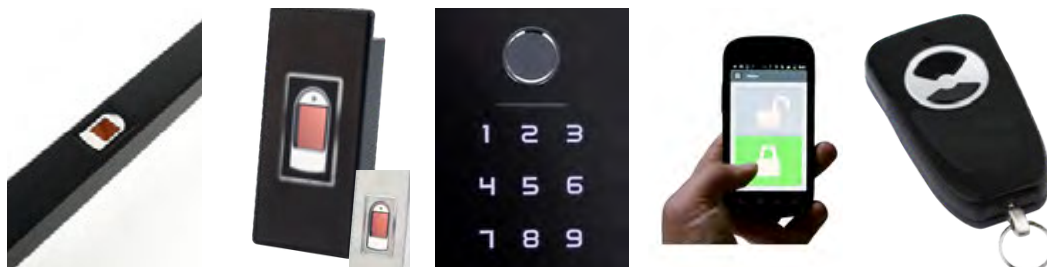
## Escutcheons:



LE10

LE20

## Access control - Smart solutions built into your door:



AC10H  
Finger scan entry  
integrated bar handle  
option

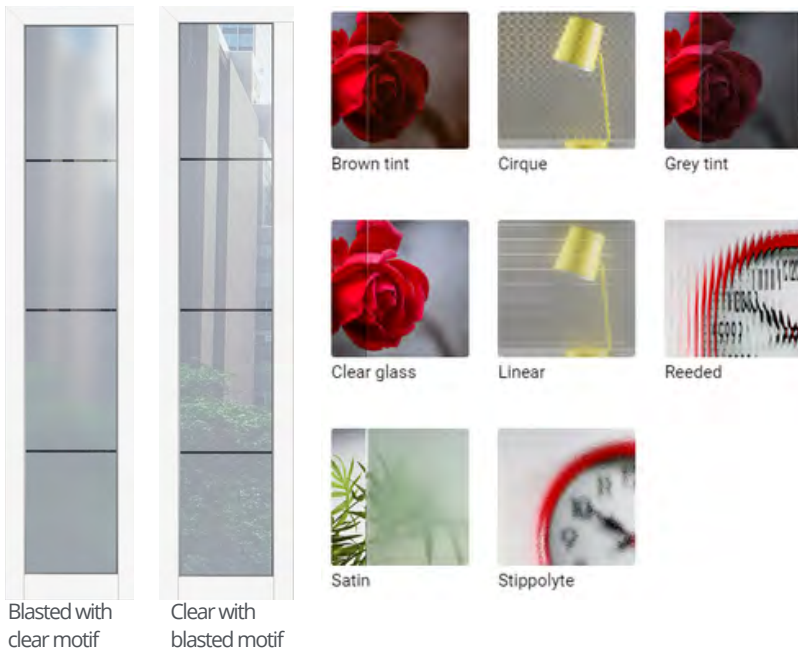
AC15 Black or Brushed  
stainless steel  
Finger scan entry with  
app control

AC20 Touch coded  
entry pad with finger  
scanner, app control &  
RFID

AC30 App control

AC40  
Remote  
entry

## Glass and sidelights:



All glass units are UK manufactured to GGF standards and can be blasted with bespoke designs.

They are constructed using high security laminated glass both internally and externally. D72 doors are built with triple glazed units and the central pane of glass is toughened. Units are Softcoat Low emissivity coated for ultimate thermal performance and filled with argon gas for insulation improvement.

## Matching aluminium house signs:



Manufactured using the same marine grade aluminium on our doors: 3mm thick. Any shape, size & RAL colour

## Locks:



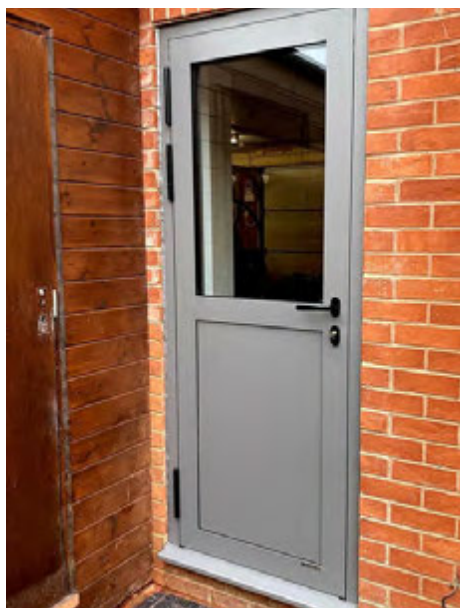




## Utility doors - UD:



UD1



UD2



UD3

Fortis Utility doors perfectly compliment the D72 entrance doors. With suited hardware, furniture & high security laminated glass; back doors have never looked so good. Opening options: Inward or Outward

UD doors can also be specified as main entrance doors with double or triple security glazing.

## Finger Scanner - Complete access control

Smart home solutions, built in to your door for total control and security.

Turn your front door into a smart experience. The option of a finger scanner revolutionises home access with fingerprint entry and full App control from any location. You will experience a new feeling of comfort and enjoy more flexibility in everyday life.

The finger scanner offers you an intelligent access system that meets tomorrow's needs today:

- Keyless entry - stores 500 prints
- Door leaf or handle mounted fingerprint entry
- App controlled administration and unlocking
- Entrance schedules for users
- Convenient remote opening from anywhere with WIFI or data connection
- Automatic push notifications to monitor usage
- Device back up & transfer
- Operating temperature: -30°C to + 80°C

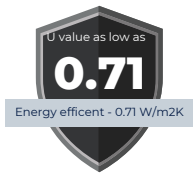


# Technical:



## Proven security:

Fortis D72 doors - Successfully tested as a complete doorset to **PAS24 Enhanced security** for doorsets. Our doors are fully compliant with UK building regulations. Further European testing has been carried out at IFT Rosenheim to RC2 and RC3 levels.



## Proven thermal efficiency:

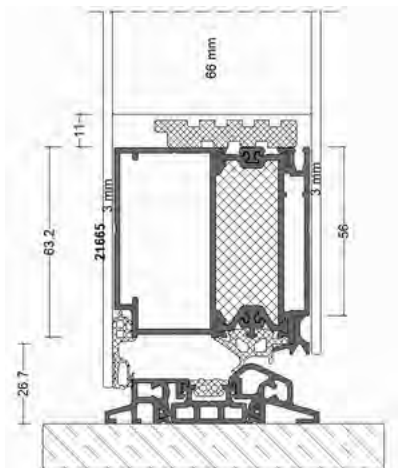
U value's from 0.71. Thermally broken and PU insulated frames and profiles ensure maximum thermal efficiency from each and every Fortis D72 door. D65 Doors - not currently tested

## Locks and security components:

FUHR 859 Multipoint hook lock - Successfully tested as critical components within: **PAS24** Enhanced security performance requirements for doorsets and windows in the UK. Doorsets and windows intended to offer a level of security suitable for dwellings and other buildings exposed to comparable risk BSI Kitemark KM597995 refers.

FUHR 833 Automatic motorised lock - Successfully tested as critical components within: **PAS24** Enhanced security performance requirements for doorsets and windows in the UK. Doorsets and windows intended to offer a level of security suitable for dwellings and other buildings exposed to comparable risk BSI Kitemark KM593756 refers.

Low level threshold detail



### Size parameters

#### Overall frame dimension

**D72** = 800mm - 1400mm x 1990mm - 2500mm

#### Oversized doors

**D72** = 1400mm x 3000mm

**D72 Sidelight size parameters** triple glazed laminated with thermally broken, insulated frame - supplied as 1 piece frame with door.

#### Overall frame dimension

(ordering size)

200mm - 1200mm x 1990mm - 2500mm

#### Oversized sidelights

**Over** 1200mm x 2500mm+ Seek technical advice

#### D72 - Bonded door size parameters

**Maximum width:** 1400mm

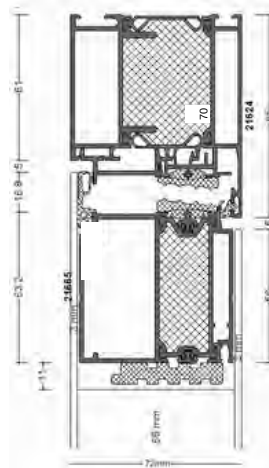
**Maximum height:** 3000mm

#### UD - Utility door size parameters

**Maximum width:** 1250mm

**Maximum height:** 2350mm

Frame/Sash section detail



### Frame (\*denotes 85mm frame option)

Profile depth

Profile width (inner)

Profile width (outer)

Mullion width (inner)

Mullion width (outer)

Frame wall thickness

Frame insulation

Frame thermal break

**D72** 72mm **UD** 72mm

Std 46mm or \*Wide 61mm

Std 70mm or \*Wide 85mm

46mm

94mm

2.2mm

**D72** 22mm **PU**

Yes

### Panel

Chassis profile

**D72** Flush detail 65x64.5mm

**UD** Profile / beaded back

Yes - Sprung

**D72** 3mm

**D72** 3mm

SupaTherm 150 EPS

**D72** 66mm **UD** 31mm

**D72** 66mm Soft coat Low E

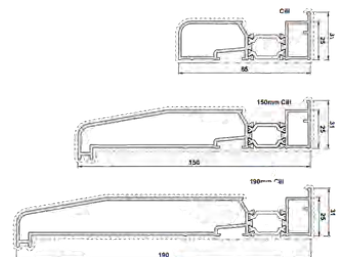
Laminated argon filled triple

glazed, Thermally improved

**UD** 32mm Laminated double

glazed, thermally improved

Optional cill detail 85 / 150 / 190mm



### Aluminium specification

5251 - H22 Sheet and Plate

Aluminium alloy 5251 is a high strength alloy possessing good ductility and therefore good formability. Alloy 5251 is known for work hardening rapidly and is readily weldable. It also possesses high corrosion resistance particularly in marine environments.

### Glass Specification - D72 Triple glazed glass build up:

6.8mm Softcoat Low E security glass / Thermally improved spacer bar / 4mm Toughened glass / Thermally improved spacer bar / 6.8mm Softcoat Low E security glass - Argon gas fill in internal and external unit cavities.

### Glass Specification - UD doors Double glazed glass build up:

6.8mm Softcoat Low E security glass / Thermally improved spacer bar / 6.8mm Laminate

# Performance Guarantee:



Subject to the following terms and conditions below; door sets supplied by Fortis Aluminium Ltd are warranted for the following periods set from the date of delivery / installation (UK & Channel Islands Only) subject to the following limitations & exclusions.

Hinges, Locks and hardware - 5 Years

Powder Coat failure - 5 years ( If Coastal location - Anodised components must have been ordered)

Glass unit failure (misting between panes only) - 5 years

Access control: Finger scan & Key pad systems - 2 years

Lock cylinders - 1 year

LED Lighting - 1 year

Excludes all third party components supplied & fitted by the client after purchase or client-supplied items fitted on the clients behalf in the factory

Damage or failure caused by poor maintenance not in accordance with instructions

Damage or failure due to improper or incorrect installation

Damage caused by others beyond our control caused but by limited to accident, abuse, misuse, mishandling, storm, fire, flood or other acts of nature

If a door or glazing has been altered or modified in any way

Delivery damage claims once a door has been installed

Colour or shade variations arising from RAL colours viewed online or in a printed format outside of a genuine RAL Classic colour chart

Full warranty document available from your Fortis Dealer on request

Pictured: F801 with glazed & overlaid sidelight. Finished in Black grey, RAL 7021.

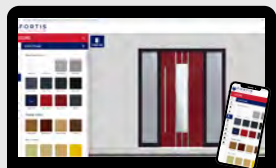
Recessed handle with LED lighting, integrated black finger scanner & bespoke house number.





Bespoke porch with a double door set, finished in RAL 9005, Jet Black with RAL 7016 Anthracite grey frame & rose gold handles.

See the full range on the  
Door configurator



**Design your dream door**  
You can visualise your door  
on your own property  
at **fortisal.co.uk**

SCAN ME



Scan the **QR** code to link  
straight into the door  
designer online



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