

Fire Door & Frame Components





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Get in touch with us today to arrange a consultation visit with one of our regional account managers to discuss how we can help you on your next fire door project.

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Why Shield?

We manufacture supply only Q-Mark® certified and non fire rated door assembly components. We offer our services to the door manufacturing industry as an outsourcing partner for specialist door projects. We aim to work alongside fellow Q-Mark® manufacturers to maintain a clear chain of custody.

Our fabrication technology and staff knowledge allow us to offer the following services:

- Sizing
- Lipping
- Laminating
- HPL & PVC Postforming
- CNC Machining
- Installed Glazing
- HPL & PVC Wrapped Frames Components.





The Benefits of Outsourcing

Shield doors can be manufactured to suit a variety of interior environments. Think of our manufacturing facility as an extension of your own capabilities

For Healthcare

Shield postformed fully encapsulated PVC doors are ideal for healthcare with it's anti bacterial, low maintenance and high impact surface.

For Education

The bright colour range available through our laminate suppliers ensures the doors are just as vibrant as the architect and designer intended.

For Leisure

The bright colour ranges, high impact resistance as well as resistance to chemicals make our fully encapsulated PVC doors the right choice for leisure facilities.

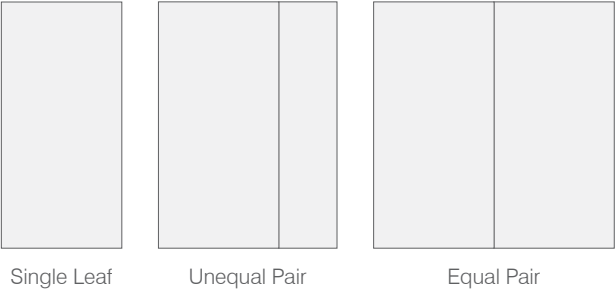
For Commercial

The array of decorative finishes and styling details ensures that Shield fire doors maintain all types of commercial requirements.

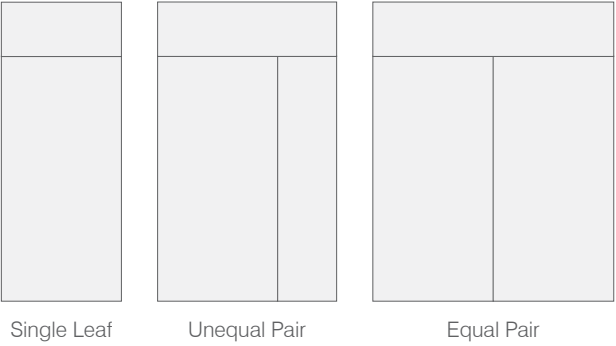
Door Configurations

The diagrams below depict typical fire door configurations that we can supply you with. We take into consideration the key elements of fire door design i.e. size, configuration, construction and performance to ensure you receive the correct fire door for your needs.

Without Over Panel



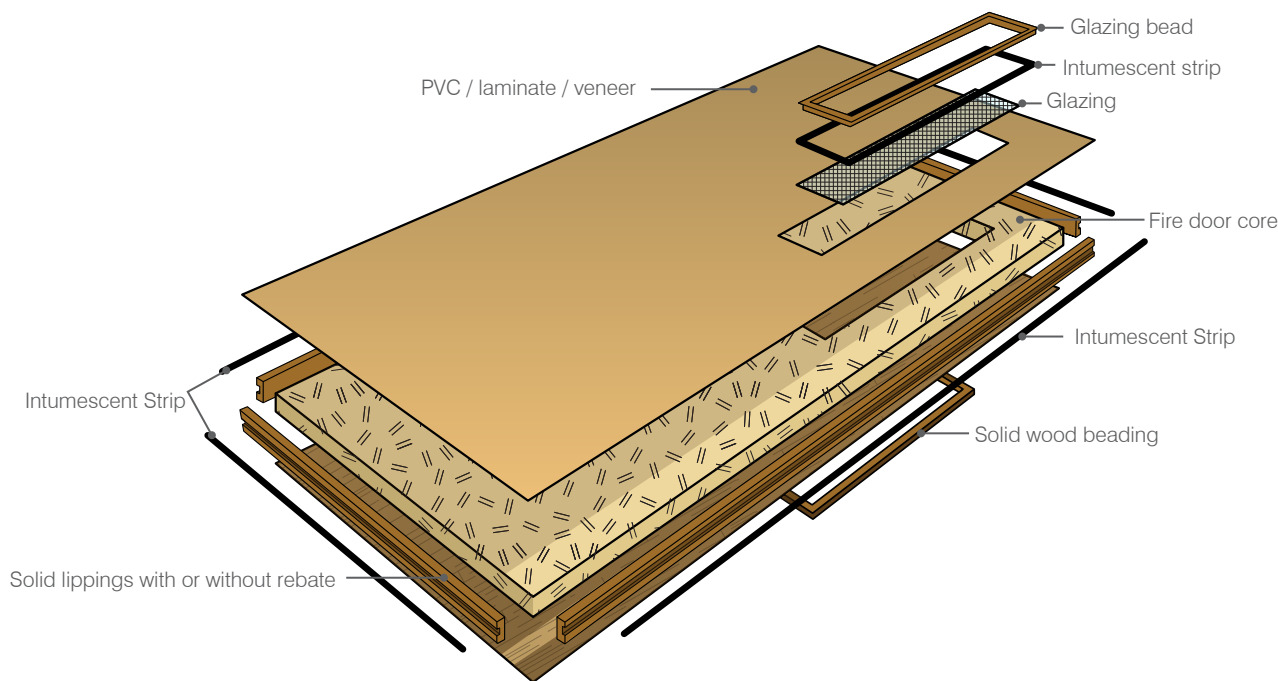
With Over Panel



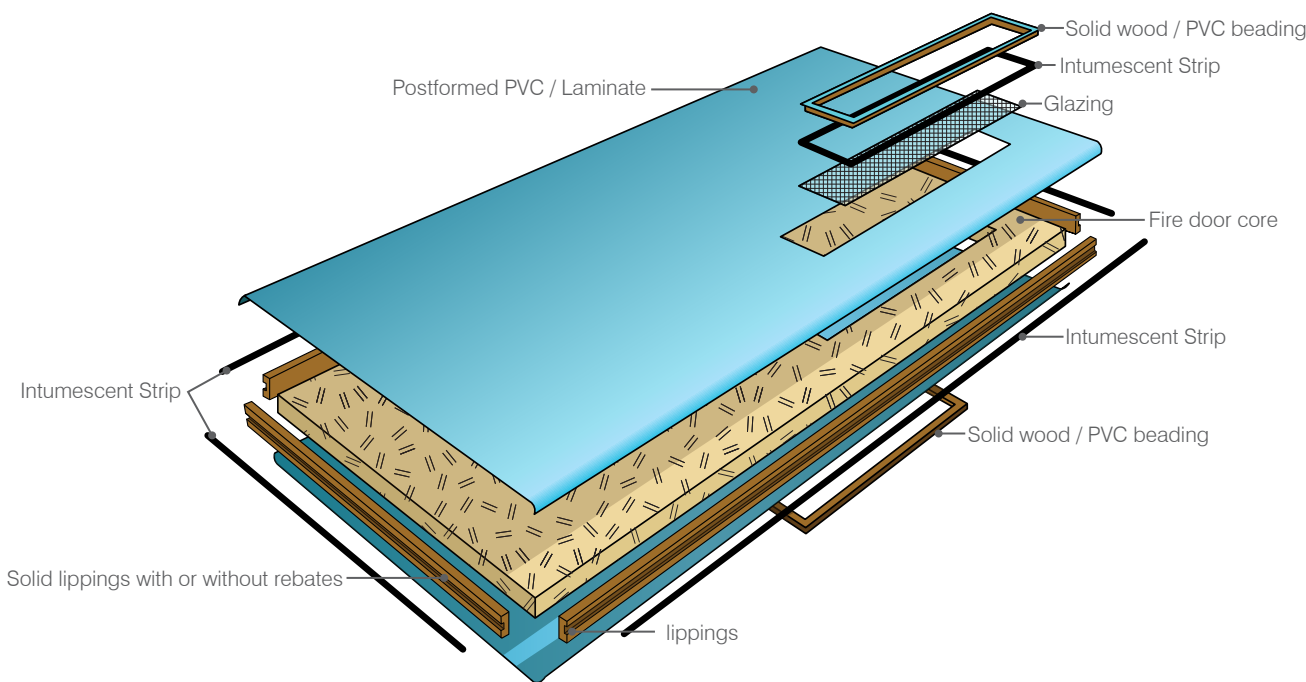
Typical Construction

Our supply only fire doors are available in a variety of configurations and material options. Below are diagrams of typical fire door constructions for both straight edge and postformed fire doors including intumescent seals where required.

Concealed Or Exposed Lippings



Postformed Edge Doors



Core Material Options

Within our current scope we can fabricate and certify the following cores door leafs. The following materials can be supplied as both FD30 and FD60 rated.

Strebord

Strebord door cores are all fabricated to GDC (Graduated Density Chipboard) standards. Strebord supply 35mm FD30, 44mm FD30 and 54mm FD60 fire-rated, as well as non fire-rated door cores. They are very robust and manufactured to close tolerances to suit modern joinery processes.

Halspan

Halspan door cores are all fabricated to GDC (Graduated Density Chipboard) standards. They consist of a core of long grain wood chip to give it its screw holding properties and two deck layers of high density fine wood chips suitable for finishing with veneer, High Pressure laminate , PVC, or paint.

Flamebreak

The Flamebreak Lightweight timber cores are available with either a plywood or MDF face. Solid laminated wood cores as a base product for the manufacture of wooden doorsets.

Blankfort

Provides a minimum FD30 or FD60 fire rating combined with high levels of resistance to impact and attack as well as very high acoustic values.



Face Material Options

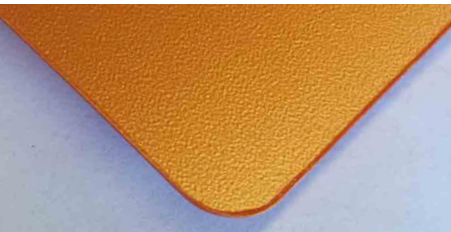
We can manufacture three types of fire door: exposed lipping, concealed lipping and postformed. We can fabricate all three styles to comply with Q-Mark certification. Door sets are only available with PVC door leaves.



High Pressure Laminate

High pressure laminates are available in the widest range of décors including solid colours, patterns and woodgrains. HPL is both moisture and impact resistant according to EN438 standards.

Full FSC® Chain of Custody is available on request.



KYDEX® T

KYDEX® T is a proprietary thermoplastic sheet that is cost competitive with fire retardant ABS/PVC (FR-ABS) formulations. It offers superior impact resistance (800J/m), more uniform forming with less wall thinning and offers significantly greater resistance to a broad range of corrosive chemicals and cleaning solutions.



Boltaron® 4065MP

Boltaron 4065MP is a proprietary, PVC/Acrylic alloy sheet designed for flat laminating applications. It combines excellent impact strength, abrasion resistance, rigidity, durability, chemical resistance and is fire retardant.



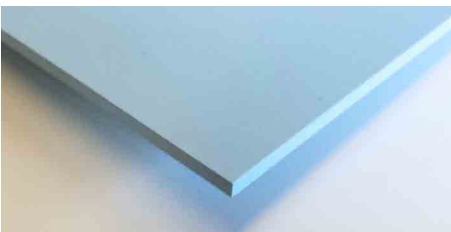
PVC: Acrovyn®

Acrovyn PVC is 2mm thick and is available in a pebblette finish. This surface is designed to minimise visibility of scrapes and scuffs in high traffic areas. The impervious surface of Acrovyn is resistant to most chemicals and staining, making it ideal for healthcare.



PVC Free: Acrovyn® 4000

Acrovyn 4000 is a PVC free recyclable material. Acrovyn 4000 is 1.5mm thick and has a lower profile texture than standard Acrovyn. This suede finish gives a more contemporary look, whilst still maintaining the ability to hide scrapes and scuffs on the surface. There is no “equal” alternative material available on the market.



PVC : Acrovyn® Hydroclad

Acrovyn Hydroclad provides an impervious hygienic and impact resistant surface for your doors. It is particularly suitable for hygienically sensitive areas, requiring a smooth, seamless surface, which is easy to clean and harbours no germs, fungi or bacteria.

Lippings

We have a variety of lippings within the Q-mark Scope that we can use. We can manufacture three types of fire door: exposed lipping, concealed lipping and postformed edges. We manufacture all three styles to Q-Mark Criteria.



Postformed



Concealed Lippings



Exposed Lippings



■ Face

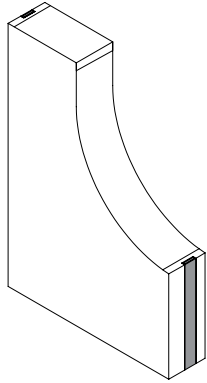
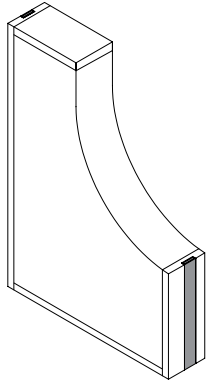
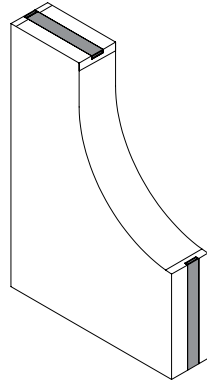
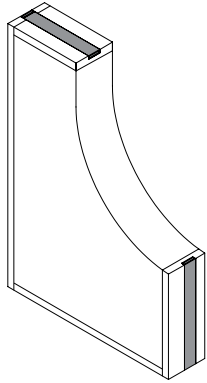
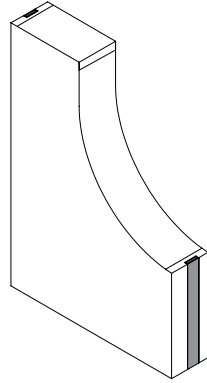
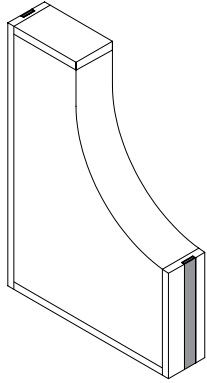
□ Door Blank

■ Lipping

	HPL	PVC
Exposed	✓	✓
Concealed	✓	-
Postformed	✓	✓
Door Set	✓	✓

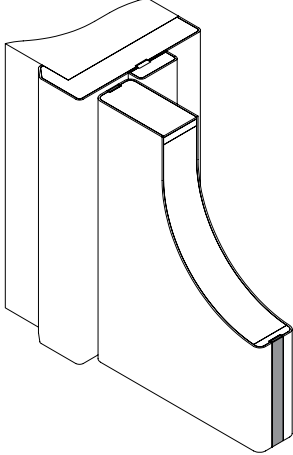
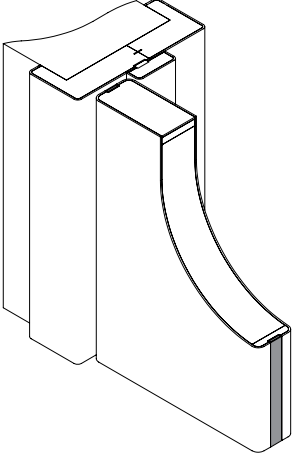
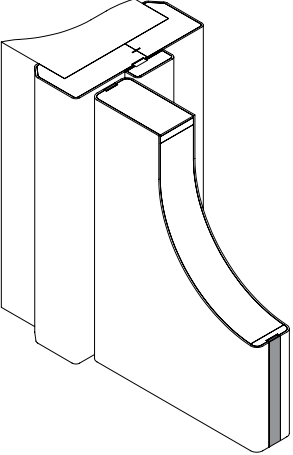
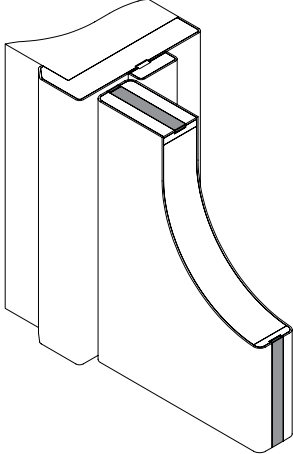
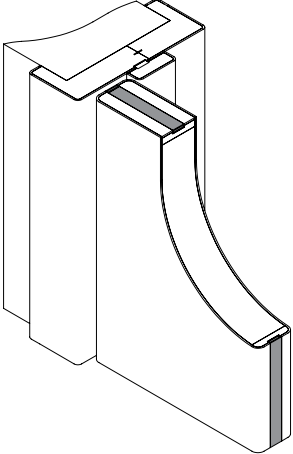
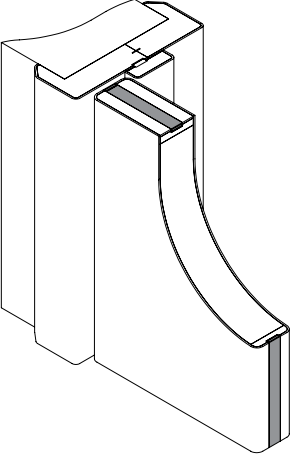
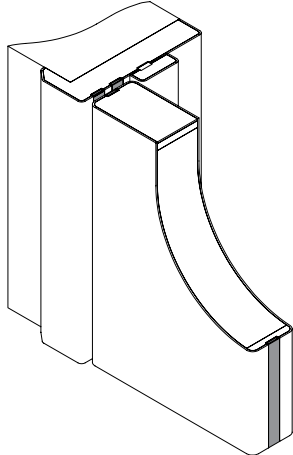
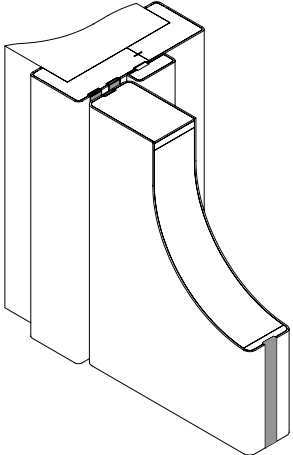
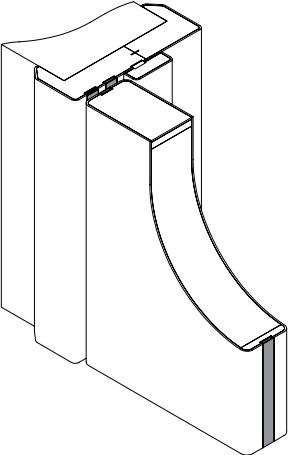
HPL & Thermoplastics

We are able to supply you with both FD30 and FD60 straight edge door leaves as well as non fire rated. Our Door leaves can be supplied either with concealed or exposed hardwood lippings as the overall finishing detail as per the diagrams below.

	Concealed	Exposed
Non Fire Rated		
FD30		
FD60	 <small>Frame detail contains intumescent in order to ensure FD60 status.</small>	 <small>Frame detail contains intumescent in order to ensure FD60 status.</small>

Post formed Frame & Door

We are able to offer you all the components for various styles of postformed PVC and HPL wrapped doors and door frames. The table below illustrates each variation.

	Single Angled Frame	Radius Frame	Angled Frame
Non Fire Rated			
FD30			
FD60			

Decor Choices

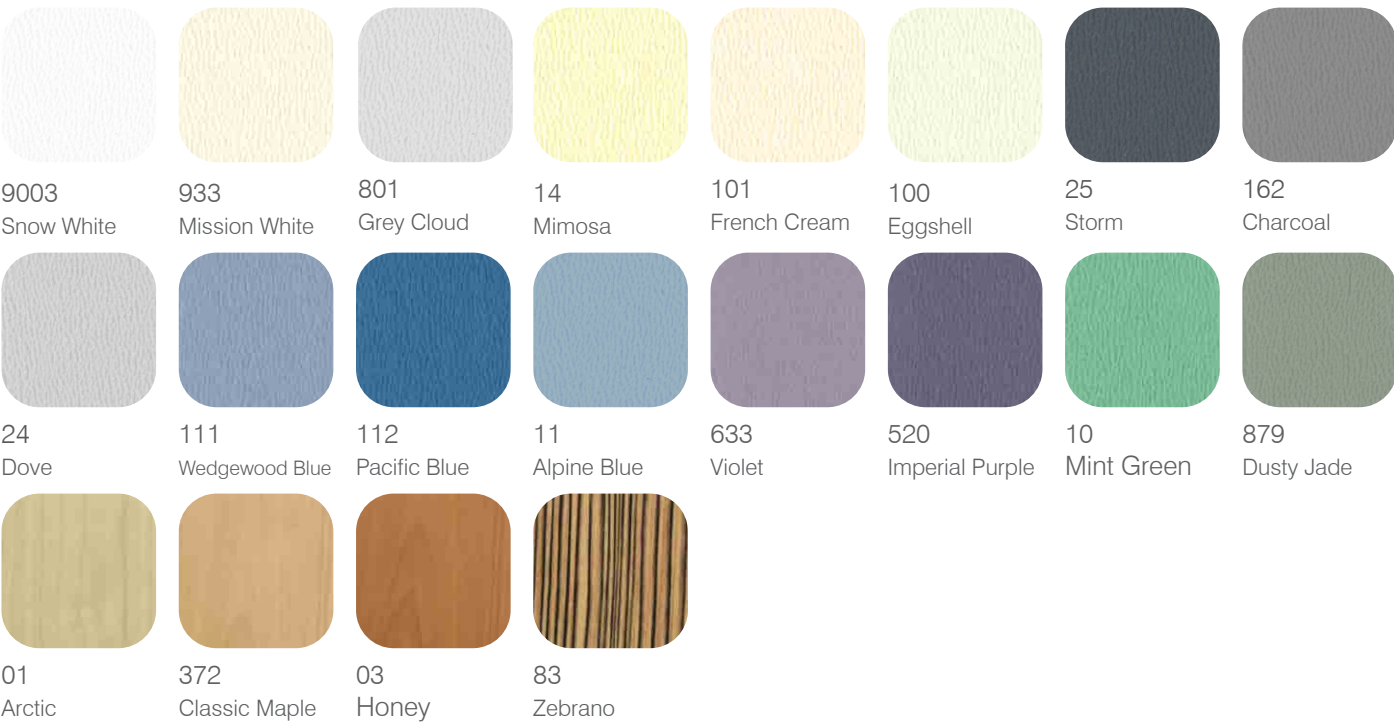
The décors below are some of the most popular colour choices used for fire door design across most UK market sectors. This is not an exhaustive list of face material options. We can work with all commercially available products.

We always recommend viewing actual samples of décors prior to ordering.

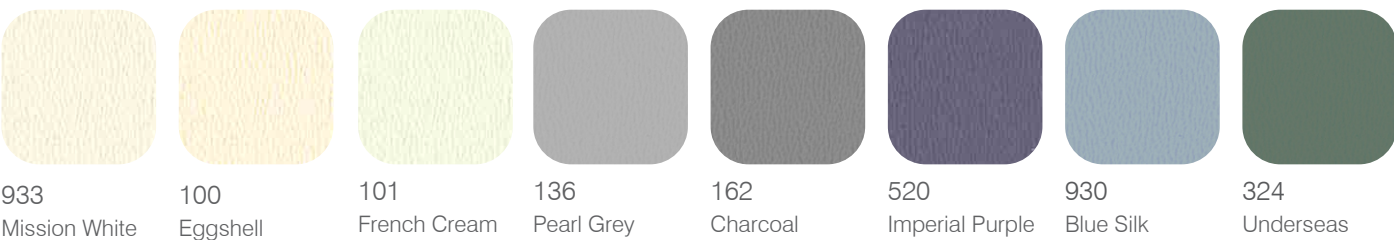
Popular HPL Door Decors



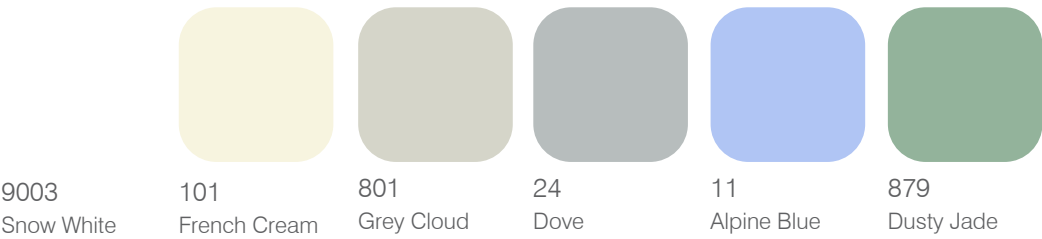
Popular Acrovyn® Decors



Popular Acrovyn® 4000 Decors



PVC: Acrovyn HydroClad

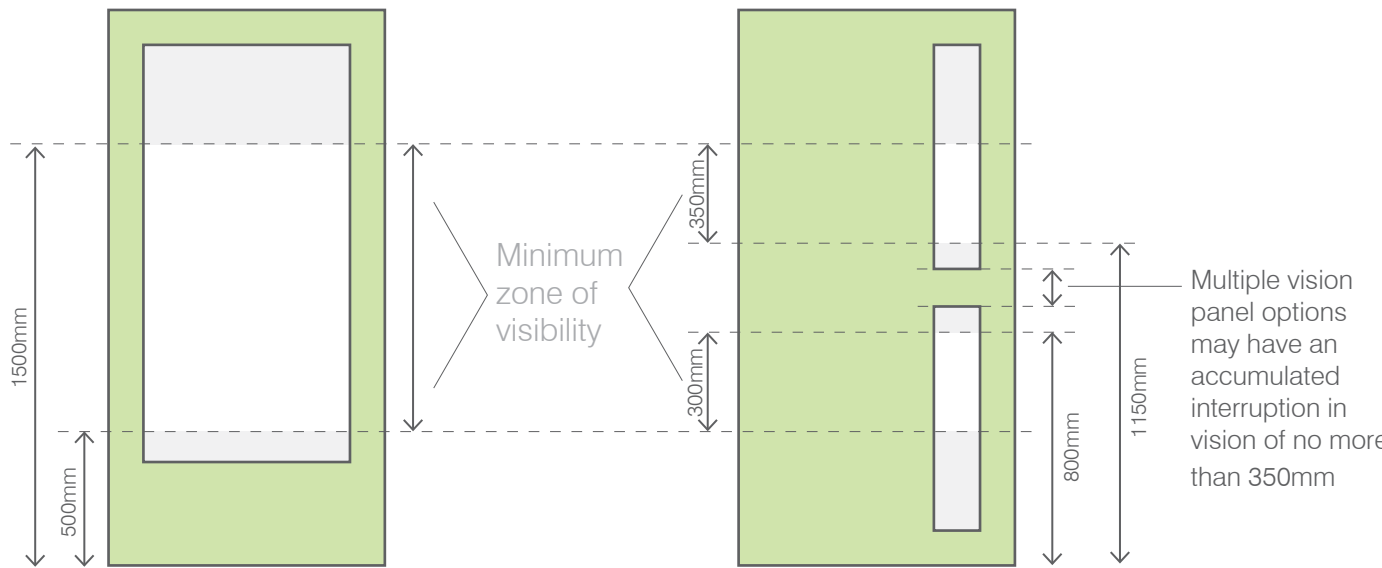


Part M: Mobility Compliant

To ensure your fire doors are compliant with Building Regulations Part M: Mobility, we have provided a few diagrams below. Please use these in conjunction with the latest building regulation codes to ensure your next job is compliant to all the relevant standards.

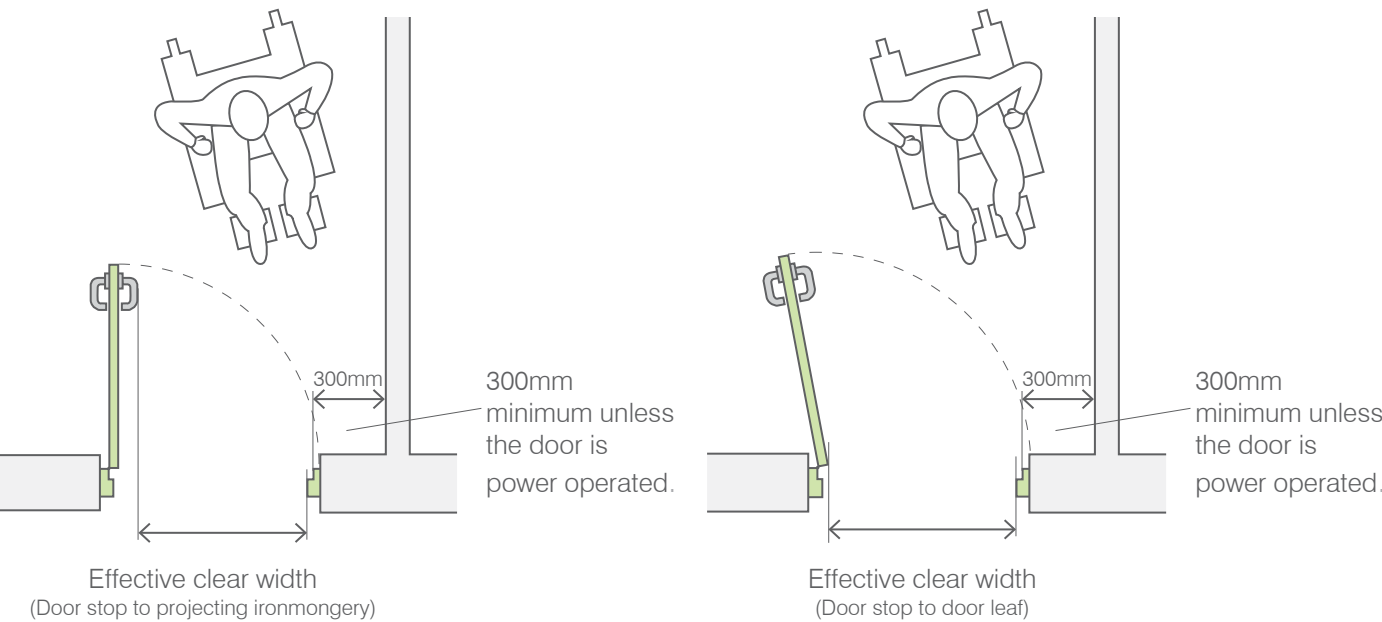
Vision Panels

Many fire doors within the commercial market will include at least one vision panel per door leaf. The position of each vision panel must fall within the guidelines expressed below to ensure all types of users can benefit from the vision panel.



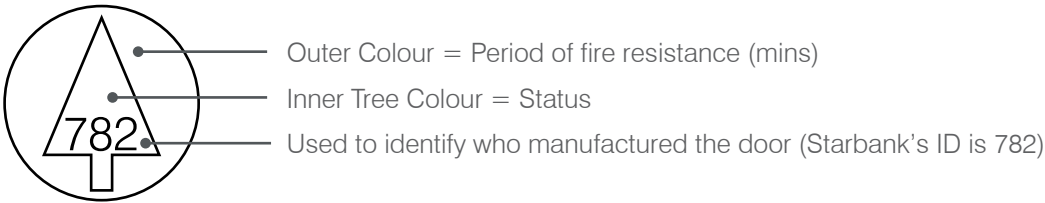
Clear Entry

The regulations allow for a minimum clear entry of at least 800mm with the design allowing users to reach grip and use the handle with one hand. Clear entry width is determined by the distance from the door stop to the ironmongery or the furthest most projecting component. (See diagrams below)



Q-Mark Plug Guide

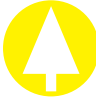



The Q-Mark plugs are inserted into our fire rated doors to indicate the fire resistant properties of the door. Each colour and code is representative of a certain feature within the door design. The plugs are located in the hinge side of the door. Below are all the combinations of plug colours that we currently offer under our Q-Mark scope.



When Fixed to the Door

 30 Min	 60 Min
 Approved Door, intumescent fitted by others	 Approved Door, intumescent fitted by others
 Approved Door, intumescent in door factory fitted.	 Approved Door, intumescent in door factory fitted
 Approved factory fitted glazing	 Approved Door factory fitted glazing

When Fixed to the Frame

 30 Min	 60 Min
 Certified, factory hung doorset.	 Certified, factory hung doorset.



There is a legal requirement for manufacturers of fire doors to provide proof of the ability of their products to resist the passage of fire through the provision of test evidence.

Whilst this demonstrates that the door meets the legally acceptable minimum standards, the BM TRADA Q-Mark fire door manufacturer scheme can provide additional reassurance that your products are fit for purpose through on-going compliance to the original product specification.

What the scheme aims to achieve:

- Raise the on-going standard of fire door manufacture
- Ensure on-going compliance with the original product specification
- Maximise the product's service life
- Provide peace of mind that the manufacturer is consistently producing a quality product through independent verification by a third party certification body.

All of our Shield® fire doors are manufactured in accordance with and certified by this scheme and therefore must be installed by certified installers to ensure the chain of custody is maintained through to completion.



ASDMA (Architectural And Specialist Door Manufacturers Association) was formed in 1990 with membership made up of companies who manufacture specialist bespoke timber doors. Many of these had been founder members of the TRADA QA Scheme for fire doors.

ASDMA's objectives are:

- To further the interests of specialist bespoke timber door and doorset manufacturers and their component suppliers
- To support and inform members
- To promote and increase best practice in the manufacture and supply of bespoke timber doors and doorsets

Our membership with ASDMA ensures we are constantly in the loop with all the relevant organisations to provide you with high quality fire doors, compliant with our governing body BM TRADA® Q-Mark System.



Lorient® design and manufacture market-leading, high-performance door sealing systems. Their intumescent seals are a vital part of a fire door assembly, helping to defend buildings against the spread of fire. The smoke seals restrict smoke movement around a building - giving people time to escape, and reducing property damage.

Lorient intumescent seals are incorporated into all our FD30 and FD60 fire doors and/or frames to their respective detailing under the Q-Mark system. This provides you with the knowledge that in the event of a fire, the door will perform as specified as all the properties of the door come into effect.



CNC Services

Our extensive CNC capabilities allows us to offer you the options to add extra details to your doors, ensuring they meet any proposed specification criteria. These options include routing for:

- Intumescents
- Vision Panel Detail
- Hinge recesses
- Lock Plate Rebates
- Safe Hinges



Door Leaves in excess of 450mm wide must contain a vision panel to meet Doc M and BS8300 standards. Vision panels may be reduced / omitted on internal doors where privacy, light control or security are required. Our extensive CNC service can offer small or large volume runs of bespoke vision panels.

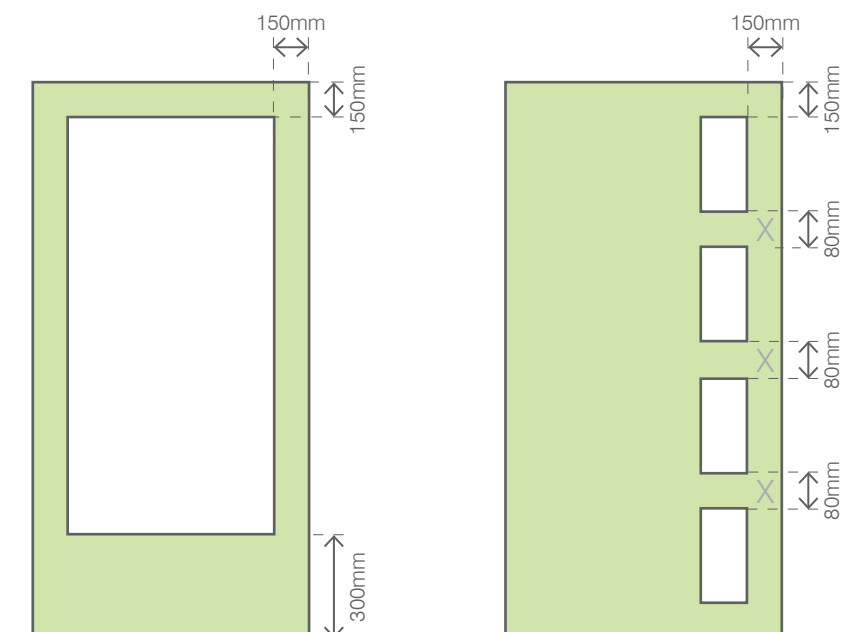
Typical Parameters

The minimum distance from the sides and top of the door leaf to the cut edge of the vision panel is 150mm.

The minimum distance from the bottom of the door leaf to the cut edge of the vision panel is 300mm.

The minimum distance between multiple vision panels of any shape is 80mm.

Multiple vision panel options may have an accumulated interruption in vision of no more than 350mm
 $X + X + X = \leq 350\text{mm}$





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