



Fire Door Experts are a family run business and a BM Trada Q-Mark accredited fire door contractor who has been operating in the fire door sector for nearly 30 years.

We are very proud to say we were one of the first contractors in the UK to obtain the Q-Mark status!



Client Base

As well as Local Authority, County Councils, Main Contractors and Global Facilities Management clients, we are also the incumbent fire door maintenance contractor for several NHS Trusts.

We also work in high-security government buildings and numerous airports where we hold various levels of security clearance.

Point of Difference

Working in the healthcare sector, specifically in and around live hospitals is where we excel and have built a great reputation.

Being preferred installers for some specific fire door manufacturers working across the healthcare, education, commercial and local property sectors, allows us to be able to replace a vast range of fire doors to exacting specifications.

Our Offer To You

Our geographical coverage area is London and the M25 Corridor; below is a summary of our passive fire protection service offering:

- Fire door surveying, maintaining existing fire doors and replacing of fire doorsets.
- Fire stopping surveying and associated fire stopping remedial works.
- Fire Risk Assessments including guidance on fire compartmentation.
- Heritage fire door surveying, maintenance and replacements.
- Fire Door CPD's, including guidance on fire door and ironmongery designs and specifications.
- Interior fit out including fire rated partitioning, suspended ceilings and raised access flooring.
- Carpentry and joinery including bespoke works.



Fire Doors - what we can offer, and how we can help

BW Consultants Ltd have been installing fire doors for over 30 years, so there's not a lot we don't know about the intricacies of specifying well designed doorsets and ensuring they are installed correctly and to the very latest guidelines.

One of our proudest possessions as a company is our very first BM Trada Q-Mark Survey & Installation certificate - it's not only our first certificate, it's BM Trada's first as Certificate Number 001!

That's how seriously we take fire doors! You are most definitely in safe hands!!

Over the last few decades, it's become clear to us how specifying fire doors can be a complex task as there are so many factors to consider;

- What fire rating is needed for each door?
- Is the door internally or externally facing?
- Will the door experience high levels of footfall?
- Will plant and machinery need to pass through?
- Or patients in beds or wheelchairs?
- Do you fit just a door leaf? Or a new doorset with frame as well?
- What finish are you looking for?
- What makes up a fire doorset?
- What material is best suited to the project?
- Should you..?
- Do you..?



While we can't actually dictate what fire rating each doorset is required to achieve, BWC and the Fire Door Experts team can certainly guide you through the procurement and installation process and ensure the end result is a correctly functioning, fully certified fire rated doorset.





What doors, and where to install them

The position and required fire rating for each fire door is determined by the design of the building and the Fire Compartmentation within, alongside the Fire Strategy. The Responsible Person should have access to all the required information, so an effective passive fire protection plan can be provided.

A consideration: while a Fire Compartment may be 60-minute rated, that doesn't always mean 60-minute doors are required. As an example: the use of two 30-minute rated fire doors in acceptable proximity could provide the required fire rating for a 60-minute Fire Compartment - think of exiting a stairwell into an office setting... How many times would you pass through a door directly off the stairs and then through another into the office area?

Please note: such considerations should only be made by suitably qualified fire officers able to provide a professional opinion.

Fire Ratings

Fire doors are available in a number of fire ratings to allow the architect the flexibility to provide the required passive fire protection in the relevant position within the building according to the design of the property. For simplicity, they are named according to their intended fire rating, so FD30 for 30-minute fire rated etc. Add the suffix 's' and you're denoting a smoke controlled door providing both passive fire protection and protection against the passage of cold smoke.

Designs available are based on the configurations that have been successfully furnace tested by each door manufacturer. The higher the fire rating, the less furnace testing is carried out due to the expense of the tests and the reduced likelihood of sales. The knock-on effect here is less design options available in timber doors at higher fire ratings.

FD30 is the most commonly used fire rating, with many front entrance doors and communal / service doors specified as such and usually made of timber.
A huge range of styles, vision panel layouts and finishes are available.

FD90 doors are available in metal and timber, but this is where metal really starts to take over as a primary manufacturing material. Timber doors of this fire rating will be very expensive and incredibly heavy, with design options limited due to the lack of furnace testing carried out by manufacturers.

FD60 are widely used as communal and service doors where extra protection is often required. The range of styles, vision panels and finishes should still be wide and metal doors start to feature as well as timber options.

FD120 & beyond and you're almost exclusively looking at metal doors as they really start to come into their own with options and usability.



COMPONENTS OF A FIRE DOOR

FIRE DOOR INSTALLATION

Fire doors must be fitted by a suitably trained person, with manufacturer's fitting instructions followed. Any gaps between the wall and door frame filled with compatible fire rated materials.



DOOR FRAME

- * Correct construction and materials ensuring compatibility with the required fire door rating.
- * Approved fire door frame design.
- * Free from damage.
- * Correctly installed to ensure correct gaps around door leaf when the door is closed.

DOOR CLOSER

- * Can be surface mounted or concealed.
- * Adjusted to ensure ease of use and correct self-closure onto door stops.
- * Suitable for use on the specific fire door and documented on the fire door certificate.

DOOR LEAF

- * Certificated factory tested door leaf with manufacturer's identification mark / label.
- * Suitable fire rating within building's fire compartmentation.
- * Correctly installed with correct gaps between door leaf and frame when the door is closed.

GLAZED VISION PANELS

- * Compatible with the specific fire rating of the door leaf.
- * Correctly installed using fire rated glass, intumescent wrap, glazing beads and relevant fixings.
- * Not exceeding any size limitations as specified in the door leaf fire test evidence.

FIRE DOOR SIGNAGE

- * Correct signage relevant to use and location should be fitted to the door leaf (not limited to);
 - » Fire Door Keep Shut
 - » Fire Door Keep Locked
 - » Fire Door Keep Clear

HINGES

- * Hinges of suitable grade and CE marked should be used.
- * Fitted in correct positions according to the fire test evidence of the door leaf.
- * A minimum of three hinges should be used on standard height doors to prevent warping under fire conditions.
- * Correct intumescent pads used when required.

LOCKS & LATCHES

- * Locks & latches must be suitable for use with the fire door and documented on the fire test evidence.
- * Fitted correctly with intumescent protection and fixings.

LETTERBOX

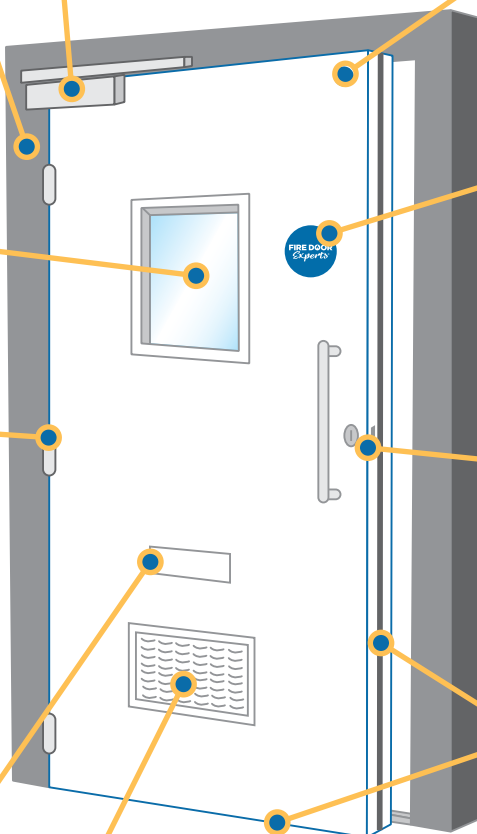
- * Make and model suitable for the specific fire door leaf and detailed as compatible on the fire test evidence for the door leaf.
- * Aperture prepared correctly and letterbox fitted in correct location specific to the door leaf.

AIR TRANSFER GRILL

- * Model and dimensions compatible with specific door leaf and with fire test evidence.
- * Aperture prepared correctly and Air Transfer Grill fitted in correct position specific to the door leaf.

FIRE AND SMOKE SEALS

- * Provides full perimeter seal (top, sides, bottom of leaf).
- * Seals of correct size, specification and materials as per the fire test evidence of the door leaf.
- * Correct rating to match the fire rating of the door leaf.
- * Smoke seals reduce the passage of smoke around door leaf.
- * Threshold seal should be suitable for use with the specific door leaf and fitted correctly.
- * Gaps will be completely filled when the door is closed.

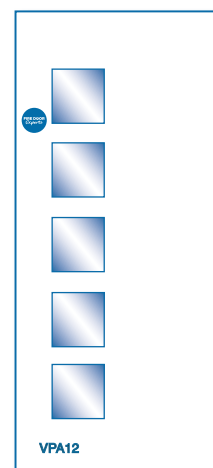
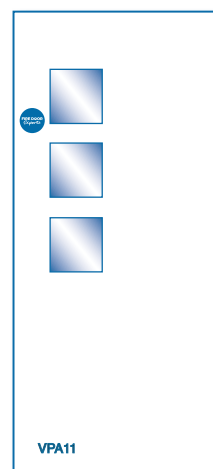
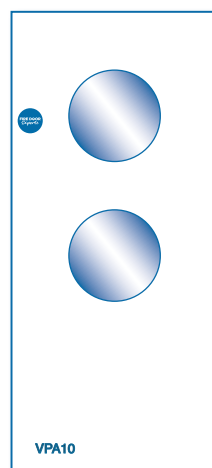
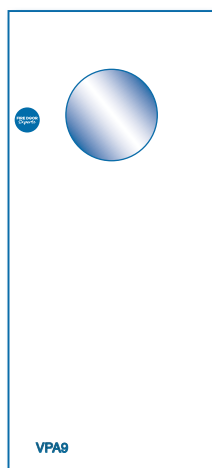
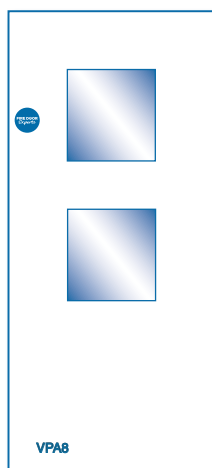
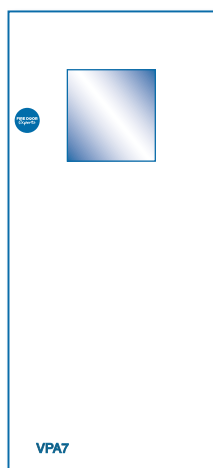
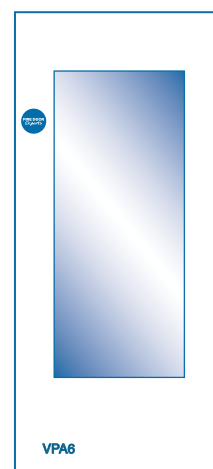
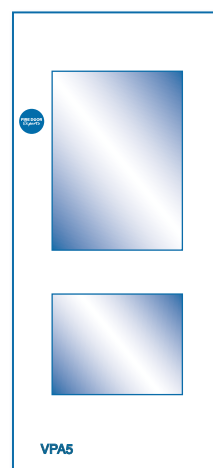
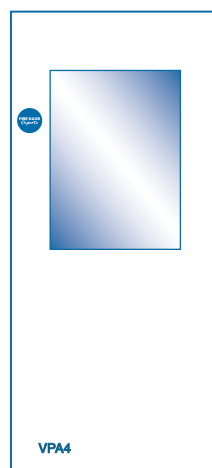
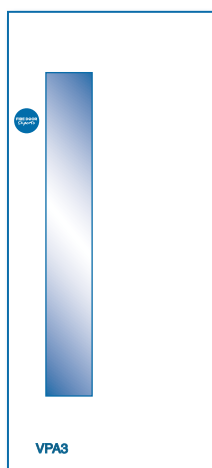
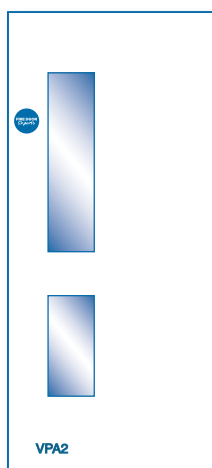
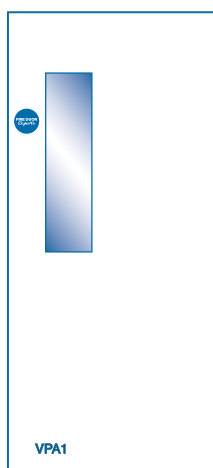


Glazed Vision Panels

Fire Doors can be installed with or without vision panels, as required, with a wide range of shapes and sizes available to suit the design brief for new builds or refurbishment projects, or to match existing doors as part of a fire door maintenance programme.

The only limitations on vision panels relates to the overall percentage of door that is desired to be glazed and the compatibility with the required fire rating and Fire Test Evidence for the door in question (less glazing layout options are available as you increase the fire rating).

Door manufacturers carry out furnace tests in order to gain Fire Test Evidence for each design, so we can usually match any brief from the numerous fire door manufacturers we work with.



Design Considerations

Doors in certain locations can come with vision panel requirements. For example;

- Local authorities may require vision panels on kitchen doors in HMO settings.
- Doors opening onto stairwells will often require vision panels for safer access in an emergency.
- Doors in schools may require vision panels lower in the door leaf for child visibility and safety.



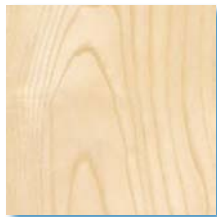
Fire Door Finishes

It is possible to supply and install fire doors in a variety of finishes and colours. We can start with paint grade in primed timber and then offer laminate, veneer, fully finished... Each finish has its own benefits, and which finish is used comes down to what fits best with the intended design and use of the doors once installed.

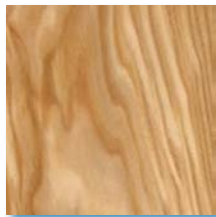
Veneer Examples As a natural product, veneers can vary slightly in pattern and colour which can be part of the appeal. This is just a small selection of the possible veneers available.



Ash, Burr



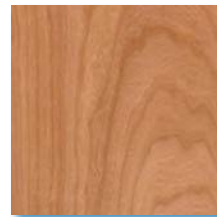
Ash,
Crown Quarter



Ash Olive,
Crown Quarter



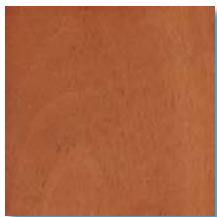
Beech, Steam,
Crown Quarter



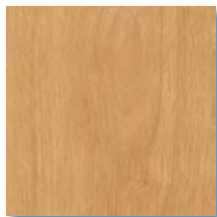
Cherry, America
Crown



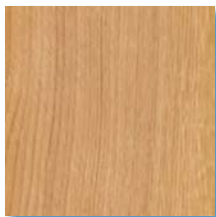
Chestnut,
Crown



Mahogany,
Brazilian
Crown Quarter



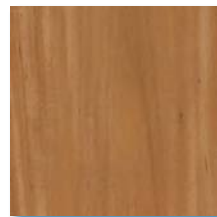
Oak,
American White,
Crown



Oak,
American White,
Quarter



Sycamore,
Weathered,
Crown



Teak,
Quarter



Walnut,
American,
Crown Quarter

Laminate Examples Laminate faced doors are hard-wearing and can provide a consistent timber grain finish or, a durable finish in a range of colours. There are many more colours and timber finishes available.



Natural Oak



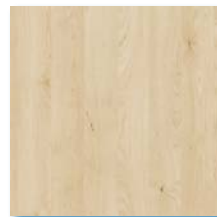
Caribbean



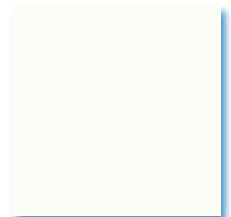
Lemon



Night Sea



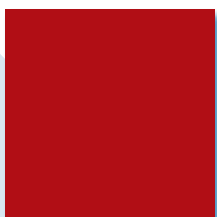
Tromso Maple



Alpino



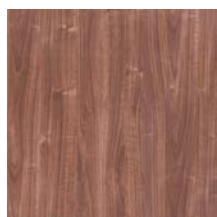
Vibrant Green



Carnaval



Spectrum Blue



Macchiato
Walnut



Sun



Storm

Example veneer images courtesy Humphrey & Stretton PLC and Select Veneers.
Example laminate images courtesy Formica®



Case Studies

Examples of fire door installations carried out by the Fire Door Experts team.

Great Ormond Street Hospital



The installation of 70 veneer doorsets, veneer side and over panels and ironmongery to a high end International Private Patients ward. The doors and panels were produced with inlays set into the veneer, requiring precise installation to all inlays lined up perfectly along each corridor.



American Express Centurion Lounge

An 18-month project, through the Covid pandemic, was one of our most logistically challenging projects to date.



Tasked with the supply and fit of numerous doors, supplied spray finished with some painted different colours on each leaf face, we worked closely with our client and the full design team to bring the project to life and help deliver this stunning, award winning airside Executive Airport lounge.



One Stop Doctors



6-month project involving the installation of IPS panelling as well.

The installation of numerous FD30s and FD60s doorsets and glazed screens as well as various non-fire rated doors and frames. A





Don't just take our word for it...

"BWC have recently completed the installation of high-end fire doors to a project at Great Ormond Street Hospital. The project was a demanding project not only from a quality perspective, but from a demanding client and a high-end product was needed to be installed. BWC completed this project to a very high standard and our site team and the client were extremely happy with the final end product. I have no hesitation in recommending Simon and the team at BWC for all fire door installation and maintenance projects. The biggest compliment I can make is that they are the only dedicated sub-contractor in our supply chain that I would use for these types of high-end fire door projects".

David Holby MCIOB
Senior Project Manager, Balfour Beatty Construction

"The stand out strengths of your team is their adaptability. They are all multi-skilled operatives hence why we count on them for our projects as we know whatever we throw at them they execute it to a high standard".

Martin O'Reilly
Project Manager, Balfour Beatty Construction

"Good afternoon all the team at Fire Door Experts.

Yesterday we had a walk around with the school and we are all extremely happy with the workmanship and the quality of the finish on the fire doors and their installations.

I would also like to thank you all for causing minimal disruption to the schools term time schedule and liaising with us and all throughout the project".

David B
School in Enfield

"I got five companies to quote for getting seven fire doors and frames installed to my house for an HMO license. As it's my home, it was very important to me that the fire doors don't make the place feel like a hospital. So I had lots of questions about how to make the doors look more or less like normal doors.

Fire Door Experts answered my questions promptly and in detail, and gave me a quote that was both competitive and gave me confidence about what I was signing up for.

After agreeing to the work, work started within the agreed timescale and I was kept up to date with progress.

I'm happy with the end result!".

Duncan
NW5

