



St Ives  
**David Smith**



# doors



**FIREDOORS**

# Welcome

**David Smith St Ives was founded in 1960**

We are one of the UK's leading manufacturers of high performance architectural fire doors & fire doorsets for commercial and high class residential applications. We have an excellent reputation for working in partnership with our customers, providing cost-effective solutions for the budget of each project. Our products are designed and manufactured in-house, combining the latest technology with the skills of craftsmen to produce doorsets that deliver outstanding levels of performance. Our continuous programme of product development keeps us ahead of our competitors and ensures that we meet today's rigorous legislative requirements. Our attention to detail during design, our flexibility in manufacturing, and our dedication to delivering to programme, ensure a smooth installation.

We offer a range of door constructions that are evaluated to suit performance requirements, budget, and customer preference. All are of a solid core construction and can be used in a variety of configurations and sizes. Look for our FSC® certified products.

They are proven under full-scale test to perform as fire-resistant doorsets, PAS24 security doorsets and have achieved the maximum category of severe duty for durability.

Combining these cores with a comprehensive range of coloured finishes, timber veneer, high pressure laminate, PVC or metallic facings provides a wide range of options that can be tailored to suit each project.

# Our doors team

**Here to help**

At David Smith St Ives, we think small details make a big difference. We also think a personal touch goes a long way. That's why from the start of your project right to the very end, you'll always deal directly with our expert doors team.



**Stephen Hunt**  
Department Manager



**Marc Buckingham**  
Estimating Manager



**Robert Booth**  
Design Manager



**Phil Hulme**  
Key Account Manager



**Benn Warren**  
Senior Estimator



**Sam Peacham**  
Estimator



**Ben Woodbridge**  
Estimator



**Scott Neighbour**  
Senior Contract  
Co-ordinator



**Charles Butler**  
Contract Co-ordinator



**Oliver Yardley**  
Contract Co-ordinator

# Doorset styles

## Bespoke combinations to suit your project needs

### Door Faces

#### Timber Veneer

Our wide range of veneer species provide natural beauty and character of timber from around the world. Finished with our performance lacquer or anti-bacterial coating to provide good resistance to scratches and general abrasions.

#### Colourcote

In addition to our high quality paint primer, we can factory finish our Premium PG door leaves with a solid colour coating that has the hard wearing characteristics of a lacquer finish. This is available in the full range of RAL colours with a smooth sheen appearance.

#### Laminate

High pressure laminates from Greenlam, Polyrey and Formica are available in plain colours, woodgrains or patterns for situations where there is a need for high resistance to surface scratching and impact damage. The face of the door leaf is complemented with hardwood lippings, exposed, concealed or finished with our very popular S-rad detail.



#### PVC

PVC is ideal for doors that require very high resistance to impact damage. The two millimetre thick material absorbs general knocks and the through colour masks surface scratches. We offer the material as a facing with exposed, concealed or S-rad hardwood lipped edges, or as a material that fully encapsulates the door leaf, faces and edges.

#### Metal

Steel, stainless steel or aluminium is used to face or line door leaves for reasons of security in or around a building, with protection against impact damage, or even as a barrier to prevent moisture ingress. As a facing material, it can also be made decorative with applied patterns, or coloured with a polyester powder coating.

### Door Frames

We have developed an extensive range of frames that provide our customers with a choice that is unique and exclusive to David Smith St Ives Doorsets. Frames alter the appearance of the doorset and are used in different guises to achieve practical and pleasing features. The sectional profiles, the construction and the materials used to manufacture frames contribute to the performance levels of all doorsets. We are able to combine these requirements with our doors to give the optimum doorset performance and looks.

#### One Piece Rebated

A frame section that is machined from a single piece of timber, rebated to accommodate the door thickness. Using minimal components, this is a straightforward fixing option.

#### Frames with Stops

This frame section is in two parts, a lining section that is fixed to the supporting structure, and a separate door stop that is fitted to the lining. The advantage is that the stop can be used to conceal fixings and also provides a degree of adjustment to compensate for fixing tolerances.

#### Split Frame

A frame made up of two sections that slide together to provide tolerances for irregular wall thicknesses.

#### Projecting

A system engineered for the onerous situation where the frame and face of the door leaf are required to project proud of the plane of the wall structure. This could be for reasons of practicality or as a design feature.

### Frame Material

For paintgrade applications we offer a choice of durable hardwood, Scandinavian redwood or MDF, the material can be tailored to suit the budget and use.

For a natural or luxurious look and to complement or match door leaves, there is the opportunity is to use a unique or exotic hardwood from one of the certified well-managed forests around the world.

For added performance, steel can be used to produce the frame itself or to clad a timber frame for added durability and low maintenance. PVC is ideal for encapsulating or cladding frame sections to provide protection, cleanliness and hygiene.

#### Shadow Gap

A frame without architrave developed to give a flush to wall appearance. The main feature of this design allows a shadow gap around the perimeter of the frame created by using a timber packer or a plaster bead.

#### Flushframe

Similar to a shadow gap frame but with the added benefit that the frame and door leaves can finish flush with the plane of the wall on the pull or push face of a single action set.

#### Multilam

The frame components are produced from laminated layers of timber, plywood or MDF. The multiple layers can be used to form a decorative effect with the outer layer creating a projecting periphery feature.

#### Integral Architrave

A frame made up of two sections that slide together to provide tolerances for irregular wall thicknesses. Each section incorporates an integrated architrave profile that laps on the wall.

#### Profiled Steel

For the ultimate in durability, our profiled steel frames can be combined with our timber doors to achieve up to FD60 fire resistance. The frame sections are manufactured from folded steel with welded or bolted corner joints, and finished with a high quality polyester powder coating.





# Firedoors

Firedoor sets up to FD120S, with flexibility for unusual requirements and designs.



We offer a range of fire-resistant and smoke control doorsets to suit your performance requirements, budget, and preference. All are of a solid core construction and being a bespoke manufacturer can be used in a variety of configurations and sizes. Our doors are proven under full-scale test to perform as fire-resistant doorsets and are covered by the IFC third party certification scheme.

## DSP Range

Produced from a core of specifically engineered multi-layer particleboard, a material that provides exceptional properties for stable, high performance door leaves. FD30 and FD60 fire resistance, acoustic insulation up to Rw34dB as an unglazed door.

## DSP24 Range

Produced from a core of specifically engineered multi-layer particleboard and combined with our rebated frame and specially selected ironmongery this doorset range successfully passed the rigorous tests needed to achieve the PAS24 security standard. FD30 and FD60 fire resistance, acoustic insulation up to Rw34dB as an unglazed door.

## DSPM Range

This high performance core features specifically engineered multi-layer particleboard with additional mineral layer enhancement to achieve exceptional levels of fire resistance. FD90 and FD120 fire resistance, acoustic insulation up to Rw38dB as an unglazed door.

## DSTm Range

A highly engineered door core using thin strips of timber laminated together and faced with a high density substrate. Extremely durable and with the scope to provide larger and more onerous configurations. FD30 and FD60 fire resistance, acoustic insulation up to Rw35dB as an unglazed door.

## DSJ Range

Doors manufactured from solid timber components to produce traditionally crafted stile and rail, panelled and glazed doors. An extensive range of door designs, patterns and mouldings provide the customer with bespoke products that meet FD30 and FD60 fire resistance.



# Acoustic Doors

Doorsets designed to achieve acoustic insulation up to Rw44dB.

Engineered from a range of materials, we offer a broad selection of high-performing acoustic doors. Designed for maximum acoustic performance up to Rw44dB while maintaining FD30 or FD60 fire resistance, our acoustic doors provide excellent sound insulation for a variety of environments.



## DSA Range

Our high performing acoustic range is engineered from a combination of different materials for the door leaves and frames. Used with specific frame and seal arrangements, these doorsets are designed for maximum acoustic performance whilst maintaining FD30 or FD60 fire resistance and achieving acoustic insulation up to Rw44dB.





# Security Doors

Strengthened timber doorsets where enhanced protection is required



From luxury apartment blocks to commercial applications, our successfully tested PAS24 security doors are designed to give peace of mind to a building's occupants.

Every door is custom made to your specification, with a full range of finishes, glazing options and PAS 24-certified ironmongery available. FD30 and FD60 fire resistance, acoustic insulation up to Rw34dB as an unglazed door.



# Finger Safe Doors

Doorsets with additional safety features to prevent injury.

Perfect for new builds and major refurbishments, we install the Alumax integral finger guard from Safehinge on all our finger safe doors.



Around 30,000 children trap and seriously injure their fingers in doors across the UK every year. The Alumax finger guard designs out the problem of trapped fingers by using pivots and a rounded door edge to minimise the gap between door and frame, achieving FD30 or FD60 fire resistance.





# Joinery Doors

Bespoke timber doorsets for commercial and luxury residential applications.



Our solid timber doors bring a touch of luxury to residential projects. Choose from a range of beautiful hardwoods and softwoods, from minimalist flush doors to traditionally crafted panelled designs, with optional features such as inlays, engraving or laser-cut veneers. FD30 and FD60 fire resistance.





# Encapsulated Doors

Hard-wearing doorsets with anti-bacterial properties.

Our range of encapsulated doors are made from hygienic, easy-to-clean PVC, designed to minimise the spread of disease.

They are hard-wearing and impact-resistant, ensuring a long life in public buildings and healthcare settings when trolleys and wheelchairs are frequently pushed against them. We are able to offer PVC edge protectors that can be combined with half height PVC face protection or alternatively the full door can be encapsulated for total protection, achieving FD30 and FD60 fire resistance.



# X-Ray Doors

Lead-lined doorsets to provide protection from x-ray radiation.



We offer a full range of lead-lined doorsets that provide protection from harmful radiation in areas where x-rays are used.

## DSX Range

From our long experience in the health sector we have developed a full range of lead-lined doorsets that provide protection from harmful radiation in areas where X-rays are used. The doorsets are lined with lead of a specified thickness from Code 3 to Code 7, as designated by the National Radiological Protection Board or the appointed advisor, achieving FD30 and FD60 fire resistance.





# Screens

Integrate your doorsets into a variety of screen configurations.

Screens tend to be a common feature within doorset packages. Working with the major glass producers, we have developed a system of fire-rated and acoustic screens for our doorsets.



These are very adaptable in size, appearance and construction and can be combined with our door and frame ranges and are produced from matching materials to provide uniformity throughout the design.

As with our doorset range, our screens are fully covered by the IFC third party certification scheme achieving FR30 and FR60 fire resistance.





# Architectural Ironmongery

Fully compliant essential ironmongery for  
our entire doorset range.

Legislation requires that fire door assemblies must fully represent a full-size, tested construction; this includes frame, door, seal, glazing and essential ironmongery.



The definition of essential ironmongery is 'items vital to achieve the desired level of performance of a fire door assembly'. These items include hinges, locks, latches, bolts, pivots, and self closing devices.

To provide full certification from one source and remove the burden from our customers, we offer a full range of fully compliant essential ironmongery that can also be fitted with the necessary fire protection. Alternatively, for the complete ironmongery package, the design and scheduling could be carried out by experienced and fully qualified GAI staff who work alongside our doorset designers. We are able to offer a comprehensive range of quality products from recognised suppliers as a complete solution for each project.





# Bespoke

Our 60 years of experience within the construction industry have highlighted the importance of versatility and creativity. Working closely with our customers and their specific needs, we have been able to develop a wide range of special products and some bespoke features.



## Face Design

The facing material provides the main decorative finish to a door leaf but, with the addition of engraving or inserts, the aesthetics can be changed to something quite unique. With the use of CAD linked to sophisticated computer numeric controlled machinery, we can engrave pre-set or bespoke designs into the faces of door leaves. Using similar techniques we are also able to insert strips of coloured veneer or decorative metals to produce simple lines or geometric shapes.

## Vision Panels

The choice of glazing in door leaves is primarily based on the safety of all individuals negotiating access, including the requirements of Approved Document M and the DDA.

Although vision panels serve a genuine purpose, they become a prominent feature that can be used to enhance the appearance of door leaves. Our exclusive range of bead profiles, aperture configurations and materials provide customers with the means to create their own unique designs.



## Material Selection

For all of our products, we use high quality timbers and veneers from environmentally certified forests around the world. This huge range of natural materials combined with coloured laminates, PVC and metal, are available to mix and match for the most unusual and individual concepts.

## Associated Joinery

With our expertise in joinery, we can supply products and ancillary items that complement our doorsets. Our machining facilities also produce special trim, architrave, skirting, and window boards in softwood, hardwood, MDF or veneered MDF.

## Product Certification

A combination of any of our products as doorsets, door kits or combination screens will give the assurance of compatible units which have been tested and assessed for fire resistance, smoke control, security, durability and acoustic performance. Our aim is to supply our customers with a complete and compliant package.

## Environmental

Our doorset ranges are manufactured using timber based materials that are purchased from sustainable sources and are certified under our chain of custody accreditation as standard.



# Working with us

## Turning your ideas into reality

We work closely with our customers on every project. Whether you have fully-formed designs from your architect or just a few rough sketches, we'll tailor our services to your needs. Speak to our team today – we'll be happy to discuss your project.

## The process



### 1. Email your schedules and drawings

Or give us a call to discuss your project needs and we'll produce a quote for your doorsets.



### 2. Confirm your order

Let us know if you'd like to go ahead and we'll get started.



### 3. Issue our designs for approval

We will issue our project specific design schedule and drawings for your approval along with any RFI's.



### 4. Start manufacture

Once we have your final approval our specialist team will commence manufacture of your bespoke doorsets.



### 5. Deliver to site

We'll deliver your doorsets to site, carefully packaged and ready for installation.

# Good to know

## Some things you might find useful

Our team is always on-hand to answer your questions. But in the meantime, here is some doorset terminology definitions you may find helpful.

### Doorset

Complete unit consisting of a frame and a pre-hung door/s supplied with all essential parts from a single source (note: pairs supplied loose for transportation)

### Doorkit

Consists of a separate frame and door/s that are to be hung on site.

### Exposed Lipping

Hardwood timber (typically 8mm thick) that is applied to the door edge after the facing has been applied so will remain visible on face.

### Concealed Lipping

Hardwood timber (typically 8mm thick) that is applied to the door before the facing is applied so will not be visible on face.

### Semi-Concealed lipping

Hardwood timber (typically 8mm thick) that is applied to the door before the facing is applied, the edge is then S-Rad profiled so the facing partially covers the lipping but is set back from the edge of the door.

### Flush Bead

Timber glazing bead that sits flush with the face of the door.

### Projecting Bead

Timber glazing bead that projects from the face of the door, also known as a 'hockey stick' beading.

### Vision Panel

Glazed aperture within the door.

### Astragal

Timber section that covers the gap between double doors or a door and overpanel whilst also acting as a door stop.

### Extension lining

Additional timber section to cover a greater span across thicker walls and allow an element of adjustment.

### Architrave

Timber section that covers the gap between the frame and wall structure.

### Undercut

The tolerance from the bottom of the door to the end of frame jamb.

### Intumescent

This is a substance that swells as a result of heat exposure and is commonly used to produce the fire seals that are needed around a doorset. Intumescent sheet/kits are also used around ironmongery as protection. Please be aware that not all intumescent material is the same and the type used will depend on the application/test evidence.

### Double Action

A pivoted door that can be opened in either direction.

### Clear opening

The usable opening created when the door leaf/leaves are in the fully open position.

### LRV

Light reflectance value is a scale used to measure the amount of visible and usable light that reflects from a surface, for example, this is used to determine the amount of visual contrast between the door facing and ironmongery.

### BS 476 part 22

The British standard for Door fire resistance testing.

### BS 476 part 31.1

The British standard for Door smoke control testing.

### BS EN 1634-1

The European standard for Door fire resistance testing.

### BS EN 1634-3

The European standard for Door smoke control testing.

### BS 8214

The British standard for timber based fire door assemblies, code of practice.



## Also from David Smith St Ives



I-joists



Metal web joists



Roof trusses



Spandrel panels



Porches



Dormers



Staircases



Glulam



Timber frame



T: 01480 309900

E: [info@davidsmith.co.uk](mailto:info@davidsmith.co.uk)

W: [www.davidsmith.co.uk](http://www.davidsmith.co.uk)

David Smith St Ives Ltd.

Marley Road | St Ives, Huntingdon | Cambridgeshire | PE27 3EX

