



Arnold Laver

DOOR SOLUTIONS

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IT'S JUST A DOOR, ISN'T IT?

Doors are a blank canvas in a wall desperate to be used as a piece of artwork... the boundaries are endless.

Doors are the natural transition from one room to another, whether situated in a home, hotel, nursing home, shopping centre, hospital or school ... doors serve many purposes.

Doors are used to keep people safe and control sound. Sometimes you know what is behind the door and sometimes.... you are opening the door to new possibilities, opportunities or an adventure!

Every day we touch a door of some kind, on average 50-60 times! Make your door count!



ABOUT US

Arnold Laver is focused around the following aims:

Our Vision

'To help our customers to build well, using sustainable materials.'

Our Mission

'To be the first-choice supplier for certified timber and timber-based products in the UK by making it easy for our customers to trade with us.'

The Company

Arnold Laver is a progressive and innovative family-run business which has been in operation for almost 100 years.

A major force in the UK timber industry with a national network of thirteen Depots, we aim to provide the best timber and timber-based products available.

Customers

Our customers are the heart of our business - they are the driving force behind everything we do.

Staff

Our employees are the source of our strength and the foundation of our knowledge, determination and success.

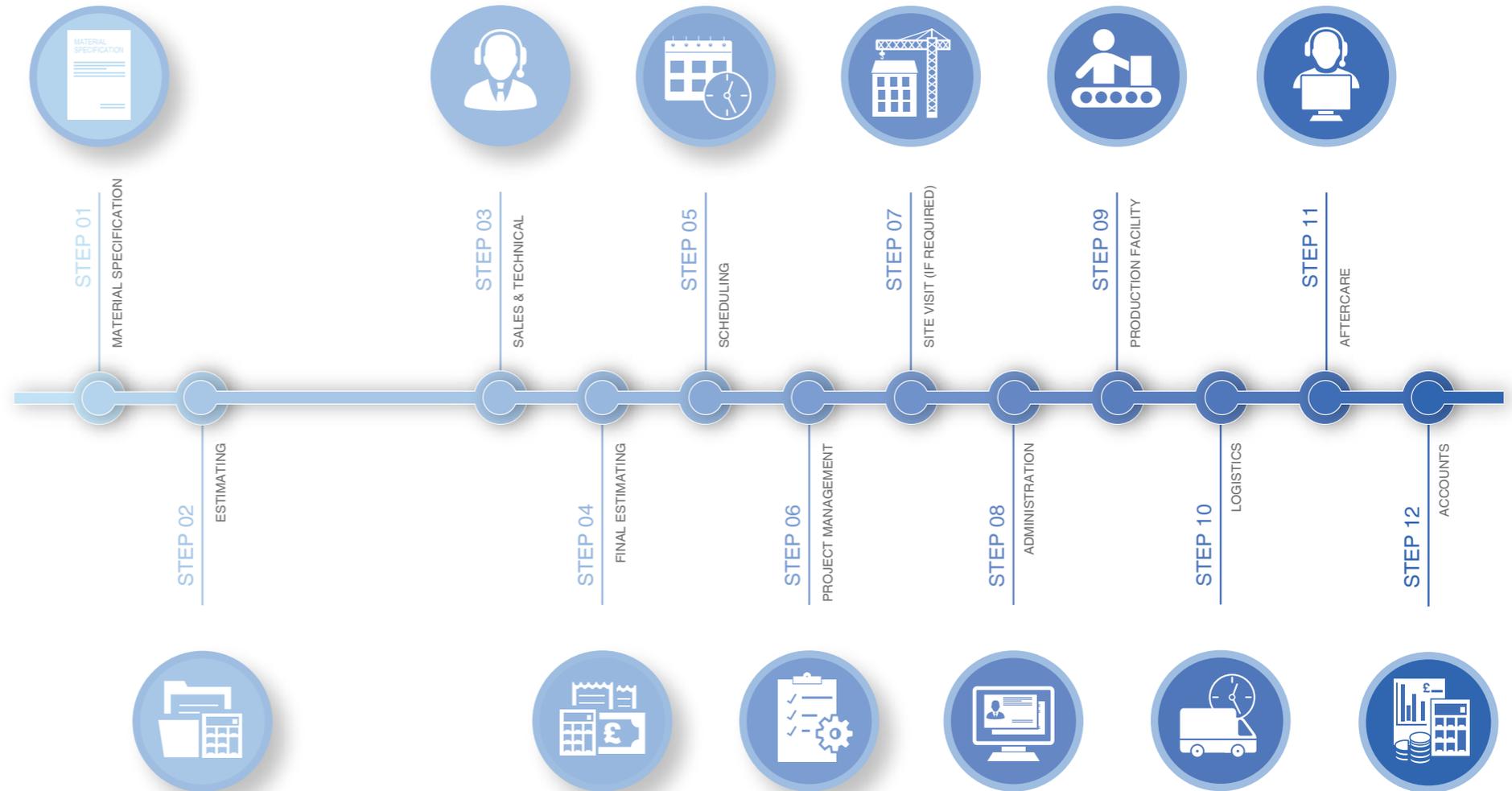
Products

We aim to stay at the forefront of our industry, by delivering both quality and innovation through our products. Our stock range cannot be beaten and we endeavour to support this by constantly reviewing our product offer, through research and development and the evaluation of new materials.

Service

Our customers can be assured of a fast turnaround, excellent quality and a service that's unrivalled anywhere in the UK. This is made possible by our large, well-stocked and strategically located depots and our own fleet of delivery vehicles.

OUR PROCESS



FIRE DOORS

Fire doors are one of the most vital elements of a building, they are part of a buildings passive fire protection system and their correct specification, installation and regular maintenance are integral to them working effectively.

Fire doors help to slow the spread of fire and smoke throughout a building, keeping it contained within a compartment for longer. This gives people extra time to escape from the building and will help to limit the damage to a building. Fire doors protect the means of the escape route for users of the building, and the protected route for fire-fighters to access.

All our fire doors meet the exacting standards of the BM Trada or BWF-CERTIFIRE Fire Door and Doorset Scheme. We provide FD30, FD60, FD90 and FD120 approved doorsets.

Important factors to consider about fire doors:

- The gaps around fire doors are critical and this should be taken into account when creating the structural openings in the wall, ensuring allowance has been made for additional floor covering thickness to achieve the correct threshold gap.

- Regular maintenance and inspection of fire doors and all of their components parts is critical to ensure ongoing

performance of the product.

- Ironmongery & intumescent seals play a big part in fire door performance so they ensure the correct ironmongery, appropriate intumescent and smoke seals have been specified.

- Never alter or modify the top of a fire door in any way - the fire door is identified by the BM Trada or BWF-CERTIFIRE labels which can be found on top of the door.

- In buildings where you are considering upgrading existing doors you should take into account the following:

1. Can you prove that the existing doors are fire doors and are they suitable to be considered for upgrade work?

2. Is the proposed upgrade 'compatible' with the fire door certification?

3. Is the installation of the existing fire door correct?

4. Are gaps around the door leaf perimeter correct to ensure fire, smoke and acoustic performance?

Note; some older fire-rated doors will potentially not carry acoustic ratings and would therefore allow for noise leakage.



FIRE DOORS

Fire doors are an essential safety device in any home, office or public building and yet, are often overlooked. The list below identifies where the installation of fire doors can often go wrong.

- Gap between the wall and frame
- Hinges – use of the wrong hinges or fixings
- The correct intumescent and smoke seals are not used
- Additional hardware fitted that is not fire-tested. (e.g. letterplates)
- Threshold gap – allowing for floor thickness or threshold seal
- Not accurately distinguishing between fire rated doors and fire and smoke doors
- The wrong door being fitted to an aperture
- Poor training – installers who do not understand the intricacies of fire door installation
- Dilution and substitution of specification and compatible components

- Using non-compatible components and installation methods invalidates certification resulting in no guarantee of performance in a fire.

- The incorrect specification of glazing and ironmongery for doors can lead to product failure

What happens if we get it wrong?

The incorrect specification, manufacture, supply, installation or maintenance of fire doors can pose five main risks after the door has been installed:

- Danger to people using the door and / or building and possibly leading to serious injury and loss of life
- Danger to the emergency services personnel responding to the fire
- Those held liable for the incorrect manufacture, specification, installation, inspection or maintenance of the door could face prosecution and at worse, imprisonment
- Property and possessions will not be protected
- Risk of damaging your reputation



FIRE RATINGS

Integrity of a Fire Door

We are proud to be members of the BM Trada and BWF-CERTIFIRE Fire Door and Doorset Scheme. We can provide FD30 and FD60 BM Trada and BWF-CERTIFIRE approved doorsets.

The integrity of a fire door refers to its resistance to fire over time; if rated FD30, for example, it has been tested to prove that it will give 30 minutes of protection whilst FD60 provides up to 60 minutes of protection.

Each doorset supplied to scheme specifications carries a permanent and tamper evident label or plug.

Third party certification provides the client with confidence that the products are tested and the manufacturing of them is audited by an independent accredited body.

Intumescent Protection

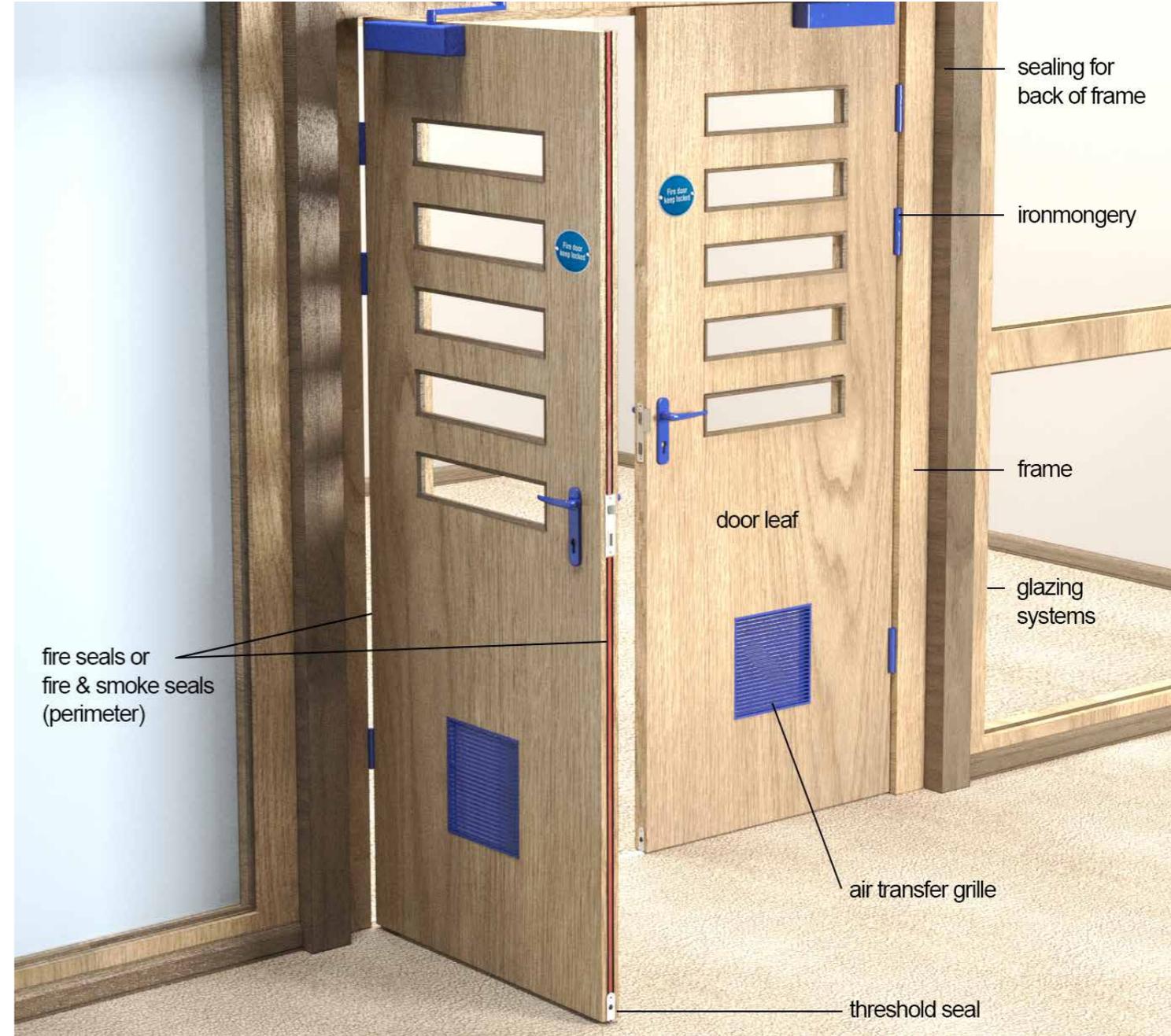
Gaps around the four sides of a fire door leaf are essential - it's the only way the door can open and close but these gaps can create a point of weakness, where fire can take hold and destroy the door, and lethal smoke can pass through.

In everyday use, sound can also pass through unprotected gaps; and the building's heat can be lost, wasting energy.

Our range of Lorient's intumescent seals protect those gaps. Most of the door seals are multi-functional, which means just one product offers efficient and cost-effective protection against fire, smoke, acoustics and heat loss.

These seals are used in the top and vertical sides of door leaves, or in the frame. The bottom of the door should be sealed with a threshold seal if the gap is over 3mm or the acoustic performance is required. We can offer this service as part of our door-set solutions.

Our range of Lorient Intumescent seals are durability tested to 10 times the industry standard - giving you real peace of mind.




CAF 194 E021063
Arnold Laver Timberworld
Tel: 01274 732861

Fire Door Certification invalid unless installed and maintained exactly in accordance with Manufacturer's instructions and this label is retained unmarked and not removed.

CERTIFIED FIRE DOORSET
DO NOT REMOVE LABEL

FD 30

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DOOR CASINGS & LININGS



Casings & Linings

We have in-house Door Centres dedicated to manufacturing made-to-measure BM Trada and BWF-CERTIFIRE approved door linings and casings (when used in conjunction with a BM Trada and BWF-CERTIFIRE fire door leaf and compatible components). These must be installed in accordance with installation instructions provided by Arnold Laver.

We offer a fast and efficient service for both the housing and commercial sectors and can provide products which meet bespoke specifications in the timescales required.

Our door linings offer:

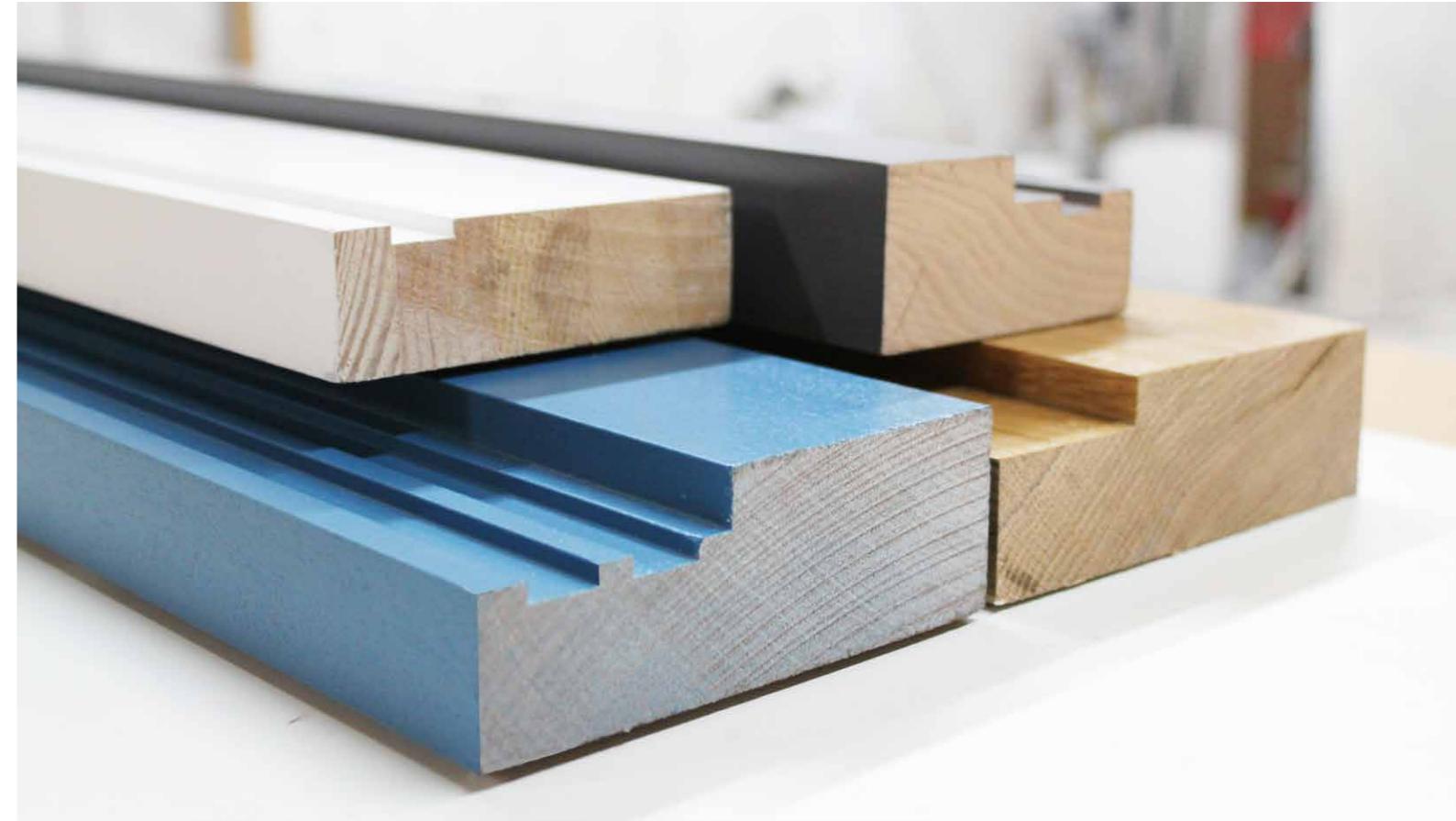
- Our range of internal door linings are BM Trada and BWF-CERTIFIRE approved for 30-minute or 60-minute fire protection
- We offer a range of sizes to suit your requirements and which are all designed to comply with relevant fire certification
- Our standard door lining profile is 32mm with a 12 x 36mm stop-lath
- The linings come flat packed ready

to be built up on site or pre assembled with a loose stop-lath

- If you are using a concealed overhead door closer, you may need a larger rebate, or stop-lath, so please take this into consideration

Our door casing offer:

- Our range of internal door casings are BM Trada or BWF-CERTIFIRE approved for 30-minute or 60-minute fire protection
- Our standard profile is a 44mm thick casing with a 12mm rebate
- The frames are grooved to accept a self-adhesive intumescent strip
- We offer various wall widths in both linings and casings
- We offer a 25mm undercut as standard, please take this into account when specifying door gaps at the threshold. The industry standard of 2100mm is not always the best option if smoke control is required
- Our casings and linings are available unfinished or primed as standard. However, we can provide these in a lacquered, stained or painted finish if required



INSULATION & INTEGRITY OF GLASS



Fire resistance is defined as: the ability of an element of construction to perform its design function during exposure to fire.

A fire-resistant glazed system comprises of glazing, frame, intumescent seals, and fixing method. All of these are relevant; if any component does not match the certification this could result in the elements not performing correctly in the event of a fire.

There are three main fire related threats to consider when choosing glass for an application.

Smoke: this will obscure visibility and make breathing difficult. There is also the danger that other toxic gases will explode.

Flames: this will cause the fire to spread destroying property and can cause serious or even fatal injuries.

Radiated Heat: this causes the spread



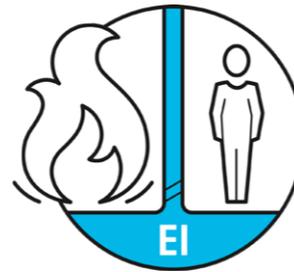
of fire as combustible materials in close proximity of the non-fire side can ignite due to the radiated heat generated by the fire. There are many glazing options which will provide a solution for each threat and these are separated in to three types of classification - E, EW & EI.

E Class Criteria - Integrity Only

Glass that meets this criteria will stop the spread of flames and toxic gases but it will not stop the spread of radiated heat transferring through the glass. The heat can spontaneously combust flammable materials on the non-fire side as radiated heat can get to a very high temperature after a certain amount of time.

EW Class Criteria - Integrity & Radiated Heat Control

Glass which achieves the integrity and radiation criteria not only stops flames and smoke but also reduces the level of radiated heat to no more than 15KW from a metre distance for a time period of around 15 minutes.



EI Class Criteria - Integrity & Insulation

Glass which reaches the integrity and insulation criteria stops flames, smoke and radiated heat. A special interlayer between the glass panes foams up in reaction to the heat from a fire. The foam protects and cools the unexposed glass, depending on the number of layers, their thicknesses and fire resistance classification

Each interlayer between the glass is designed to offer 30 minutes of performance and therefore up to two hours fire resistance can be achieved.

When specifying materials for fire risk areas, how to combat these things should a fire occur, must be considered.

Glazing systems are available that will overcome these threats and they also apply to the above classifications.



ACOUSTIC DOORSETS

Acoustic Doors serve the purpose of restricting the transfer of noise from one room to another.

Our range of acoustic rated doorsets are specified to the highest quality finish in whichever style you prefer – traditional, modern, luxurious or minimalist.

Our acoustic rated fire doors, offer you exceptional acoustic and fire attenuation properties built in to a huge

range of door sets that perform as well as they look. The doorsets can be specified with single door or double door and can be tailored to room height designs with finishes and security options to complement your developments.

Typical performance attributes of acoustic doors in different application areas

Performance	dBs	Impact of acoustic doorsets	Application area
Medium	29-42	Loud speech = audible but unclear	Hotels, apartments, office buildings
High	45-47	Loud sound/noise = detectable	Music rooms, sports halls, hospitals
Supreme	50-55	Loud speech = barely audible	Recording studios, cinemas, theatres



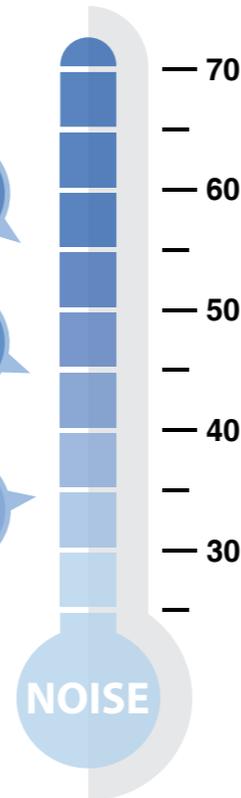
Cinema



Hospital



Hotel



HUET ACOUSTIC DOORSETS

Our range of Huet doorsets enjoy one of the highest levels of acoustic ratings for timber doorsets on the market today, with 51 Rw dB rated doorsets performing to the levels required in music rooms, recording studios, television studios and sports auditoria.

Over 65 years of expertise in acoustics allows Huet to supply us with a high-performance range of doorsets with some of the thinnest door leafs available. There is a choice of acoustic doorsets, rated from 29 Rw dB to 55 Rw dB, meaning that there is a product to match any requirement.

As well as providing a standard timber frame we are also able to provide a number of acoustic timber doors within a metal frame to suit both plasterboard and solid wall partitions.

For the education sector, there is a variety of doors and finishes to choose from, including laminates, veneers and vision panels.

All Huet doors have substantial hardwood stiles on all four edges.



HIGH SECURITY DOORSETS

PAS24

We offer a wide range of PAS24 high security doorsets which are designed to offer a higher level of security for dwellings and other buildings exposed to comparable risk. They meet the enhanced security performance requirements for doorsets and windows in the UK.

PAS 24: 2012 provides a method for testing and assessing the enhanced security performance requirements of external doorsets and windows providing an easier specification requirement for developments. PAS24 covers doorsets and windows of all material types.

Products are still obligated to meet the material specific requirements as detailed by the product standards for doorsets and windows.

Secured by Design

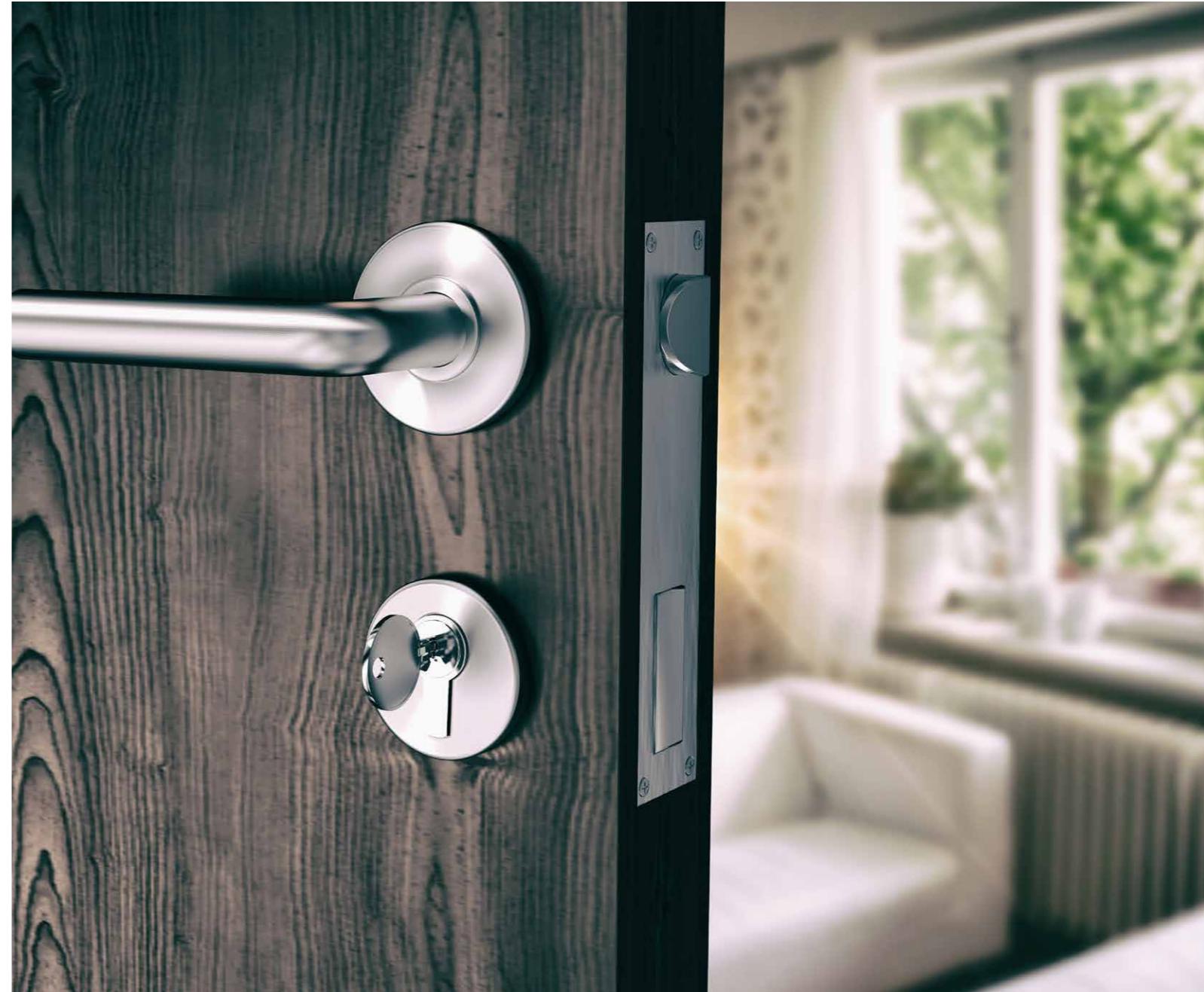
Secured by Design is the official UK Police flagship initiative supporting the principles of 'designing out crime'. Secured by Design focuses on crime prevention of homes and commercial premises and promotes the use of security standards for a wide range of applications and products.

The principles have been proven to achieve a reduction of crime risk by up to 75%, by combining minimum standards of physical security and well-tested principles of natural surveillance and defensible space.

The objective is to reduce burglary and crime in the UK by designing out crime through physical security and processes.

We offer a range of Secured by Design multifunction front entrance door systems which comply with PAS 23/24, part 'E' and part 'M' of the building regulations.

Secured by Design Doors incorporate a shielded door and frame, hinges and anti-intrusion bolts and a 3-point locking system. Ideal for use in apartments or multi-occupancy dwellings, these door sets are designed to accommodate a wide range of structural openings.



HUET ANTI FINGER-TRAP DOORSETS

The Euroflam Nursery doorsets from Huet employ an integrated anti finger-trap system, developed especially for schools, nurseries, playgroups, hotels and paediatric wards - in fact any building used by young children.

The range is available as a complete doorset with an FD30 / EI30 fire rating. It boasts a host of innovative features, working together as an integrated system, to keep children safe.

Door-Leaf:

The Euroflam Nursery door-leaf features a specially sculpted profile to match the Sathys Technical door hinge. With a 40mm thickness and weight of 22 kg/m², dimensions can be specified up to 2180mm x 1070mm.

Sathys® Technical Hinges:

These quality hinges are manufactured in titanium-anodised aluminium. This smart system uses an axial motion to eliminate the risk of trapping small fingers.

Frame:

A hardwood frame with integrated intumescent seals, specially profiled to work with the door leaf and Sathys® Technical hinges. This eliminates gaps between the frame and door.

Deadbolt and Doorstop:

The integrated deadbolt system prevents complete closure of the door by children. The simple but clever mechanical stop prevents the door from crushing hands or fingers between door-leaf and wall.

Vision Panels:

There is a full range of vision panels available, allowing these doors to be specified in many of the areas where children may be present.

Finishes:

There is a wide choice of finishes including several that are suitable for environments used by young children. These include laminates, real wood veneers, Technidécors® engraving, and the Prothys® hygiene protection system - all with the aim of delivering a fun and attractive doorset.



DOORSET MANUFACTURING SERVICE

At Arnold Laver we offer a bespoke doorset manufacturing service which is designed to make installation as quick and easy as possible. It also provides the freedom of versatility whilst remaining compliant to regulations

The entire manufacturing process is carefully controlled and monitored. From the selection of raw materials, through to design, precision machining, manufacture and technical support on every aspect of door provision for both domestic and commercial properties.

Our doorset offer is diverse and consists of:

Variety of finishes - a choice of laminated and paint-grade finishes

Sizes - flexibility to meet your build requirements, in standard and bespoke options

Ironmongery - doorsets are complete with recessing for locks and ironmongery

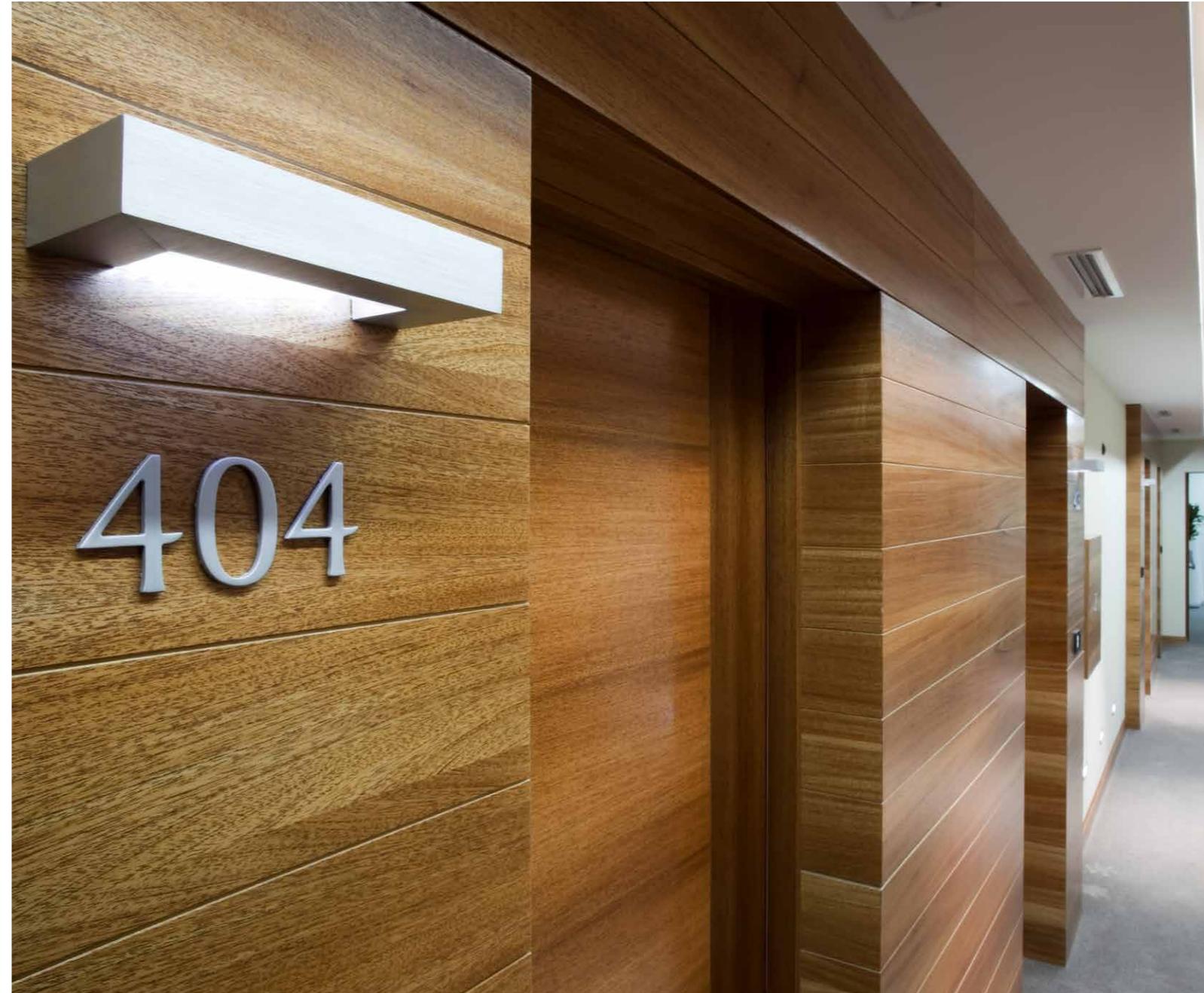
Frames - mdf, foil-wrapped mdf, veneered and solid timber

Sustainable materials - products can be supplied as certified, where required

- Doors are tested at a UKAS accredited testing facility

- We ensure safety of our fire doors through third party accreditation via the BWF-CERTIFIRE scheme (label) or BM TRADA Q-Mark (Plug)

- If in doubt look for the label or plug on our doorsets



VICAIMA MATCH

Vicaima Match is a new type of decorative panel which inspires innovation and enables professionals from the world of interior design to set their imagination free.

Match concept gives creative freedom to the interior design world, by bringing spaces to life. Through using high-precision H2P printing technology to print graphics and pictorial imagery directly onto veneer or a board layer.

Match extends the scope for applications into interior decoration for hotels, commercial spaces, offices, furniture industry and displays. It always delivers a truly unique and imaginative design.

Product Specification:

- Board type - MDF, MDF Moisture Resistant, MDF Fire Retardant, chipboard or plywood, with others upon request

- Backing suitable to the base board, to guarantee stability (as an alternative it is possible to have the same design and finish double sided)

- Layered suitably for the board panel and effect required (real wood veneer, foil or primed)

- H2P printing with standard design or customized design, on either a white layer or a real-wood veneer layer

- Final finish with standard or high-gloss varnish

Features & Benefits:

- Extensive selection of designs in six core collections

- Offers customised and unique solutions

- Flexibility of dimensions

- A straightforward process to provide small production series and prototypes

- Cost effective

- Ability to combine multiple elements: wall panelling, furniture, doors and ceilings

- Modulation for continuous designs

- Specific board types for different applications

- Standard or high-gloss varnish finish

- Environmentally friendly technologies and raw materials

Typical Applications:

- Door systems

- Wall panels and ceilings

- Kitchen modules

- Headboards

- Panels for commercial buildings

- Furniture applications

- Window displays

- Exhibitions and events

- Custom made images

- Shopfitting

- Displays



LAMINATED DOORS

Nevamar® Scuff Resistant Laminate for Doors

Arnold Laver has joined forces with Nevamar® Surface Systems, one of the most prestigious brands in high pressure laminates (HPL) to offer a combination of aesthetic style and increased product performance when selecting high pressure laminate doors.

Nevamar® offers an exceptional design palette to create spaces that inspire individuals and the environments they create. In the newest Modern Odyssey Collection, the rich colour tones, realistic finishes, warm woodgrains, and eclectic abstracts combine contemporary aesthetics with an inviting sense of nature.

With proprietary Armored Protection® (ARP®) technology, Nevamar® is recognised as the performance standard among high pressure laminates and leads the way for manufacturing doors with tougher, more durable surface material than other competitive brands. It has more than twice the wear protection of standard laminate based on ANSI/NEMA LD3 test method and exceeds competitors' test results as well.

Nevamar® HPL doors offer:

- More than 200 trend-forward colours and designs
- Longer lasting print quality
- Superior wear resistance
- Reduced gloss change (dulling and buffing) than standard laminate
- Unsurpassed protection at an affordable price

Nevamar® laminates with ARP® surface have proven their ability to withstand the day-to-day abuse that occurs in schools, hospitals, hotels, restaurants, airports, retail shops and other commercial environments. This means your doors will look newer for longer.

They are a prime example of our pledge to bring you the highest quality products possible. It's our commitment to beauty that lasts.

*Nevamar®, Armored Protection® and ARP® are registered trademarks of Panolam Industries International, Inc.



IRONMONGERY

When selecting ironmongery for fire doors - safety, security and aesthetics all play a key role in the decision-making process.

Ironmongery includes all the items that are used on a fire door, such as the hinges, overhead door closers, latches, locks and handles. These components are crucial when making up a fire doorset - the fire door will not work in the event of a fire unless all the correct ironmongery has been fitted and maintained.

We offer a range of ironmongery intended for use with fire doors which are of high quality, deliver aesthetic appeal and perform the vital task of acting as a fire protection system in the event of a fire, when fitted as part of a fire door. After all, a fire door is not just a door leaf - it consists of the frame, any glazing units, intumescent and smoke seals plus all the ironmongery.

All ironmongery used with our fire doors is BWF-CERTIFIRE approved and compatible with the fire door.

As part of our Ironmongery range we offer:



Door Controls



Locks and Latches



Accessories and Signs



Cylinders



Door Handles



Pull Handles



GLAZING & SCREENS

Why not shed a little light into your room by utilising the space with beautiful vision panels or glazed sidescreens.

We offer a wide range of FD30 or FD60 vision panels for doors, screens and walls which include clear glazed corridor panels, privacy panels and door vision panels for doors.

Our vision panels have been designed

and manufactured using solid hardwood timber for long-life performance and can be installed in a wide range of projects from homes, hotels, schools, commercial buildings, hospitals and office blocks .

Our range of visions panels can be used in corridors, act as walls, partitions and doors. We can match to your bespoke requirements and specifications.



SIZE STANDARDISATION

The building and development of properties whether for residential, commercial, retail, leisure or other use, are required to adhere to standardised regulations.

Despite the varying applications of doors and dependent on the environment in which they are used, it is important that doors are standardised, for the following reasons:

Discipline - to help building and construction companies to work with consistency and regularity

Cost - when non-standard sizes are specified - this can incur a greater cost in the long-term e.g. if a door needs replacing and isn't a standard sized door, sourcing the door would come at a much greater cost

Lead time - ordering non-standard sized doors can extend the delivery lead-times and push the build programmes out significantly

Replacement / Refurbishments - if you have several properties on your portfolio, standardising your door sizes makes the replacement of doors in the future

a much more realistic opportunity. The doors could be off the shelf, cheaper and with faster delivery lead-times

Mobility - extra wide doors may be required to comply with mobility legislation which in turn, provides wheelchair access.

Standard Metric Sizes	Standard Imperial Sizes
426 x 2040 x 40/44/54mm	457 x 1981 x 35/44/54mm
526 x 2040 x 40/44/54mm	533 x 1981 x 35/44/54mm
626 x 2040 x 40/44/54mm	610 x 1981 x 35/44/54mm
726 x 2040 x 40/44/54mm	686 x 1981 x 35/44/54mm
826 x 2040 x 40/44/54mm	762 x 1981 x 35/44/54mm
926 x 2040 x 40/44/54mm	838 x 1981 x 35/44/54mm
1026 x 2040 x 40/44/54mm	864 x 1981 x 35/44/54mm
	813 x 2032 x 35/44/54mm

ACCREDITATIONS/ENVIRONMENTAL POLICY

At Arnold Laver, we are committed to protecting the environment. We strongly believe it is our corporate and social responsibility to preserve the world's forests and promote effective forestry management through sourcing materials from legal, sustainable and well managed forests and mills.

All our Depots have a chain of custody implemented, which is independently evaluated and certified, providing our customers with any environmental assurances they may need.

Our certified timber products adhere to Government standards on timber procurement. We hold accreditations for the following leading industry bodies.

Environmental certifications



Industry Accreditations



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