



**Intelligent
Door
Solutions**

Apartment Entrance Doorsets – Technical Guide





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About Us

Intelligent Door Solutions 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

Intelligent Door Solutions is part of a progressive and innovative business which has been part of the Arnold Laver Group for almost 100 years.

A major force in the UK timber industry with a national network of fourteen 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.

It’s just a door isn’t it?

Doors not only need to look great, they should also perform well in their environment, typically within a residential apartment setting.

Our Doorset Solution brings together the best in manufacturing capabilities and design, to deliver great looks and superb performance.

Whether you need enhanced acoustic ratings coupled with a high-quality fire doorsets, our range offers exceptional sound and fire proofing properties to fit your project perfectly.

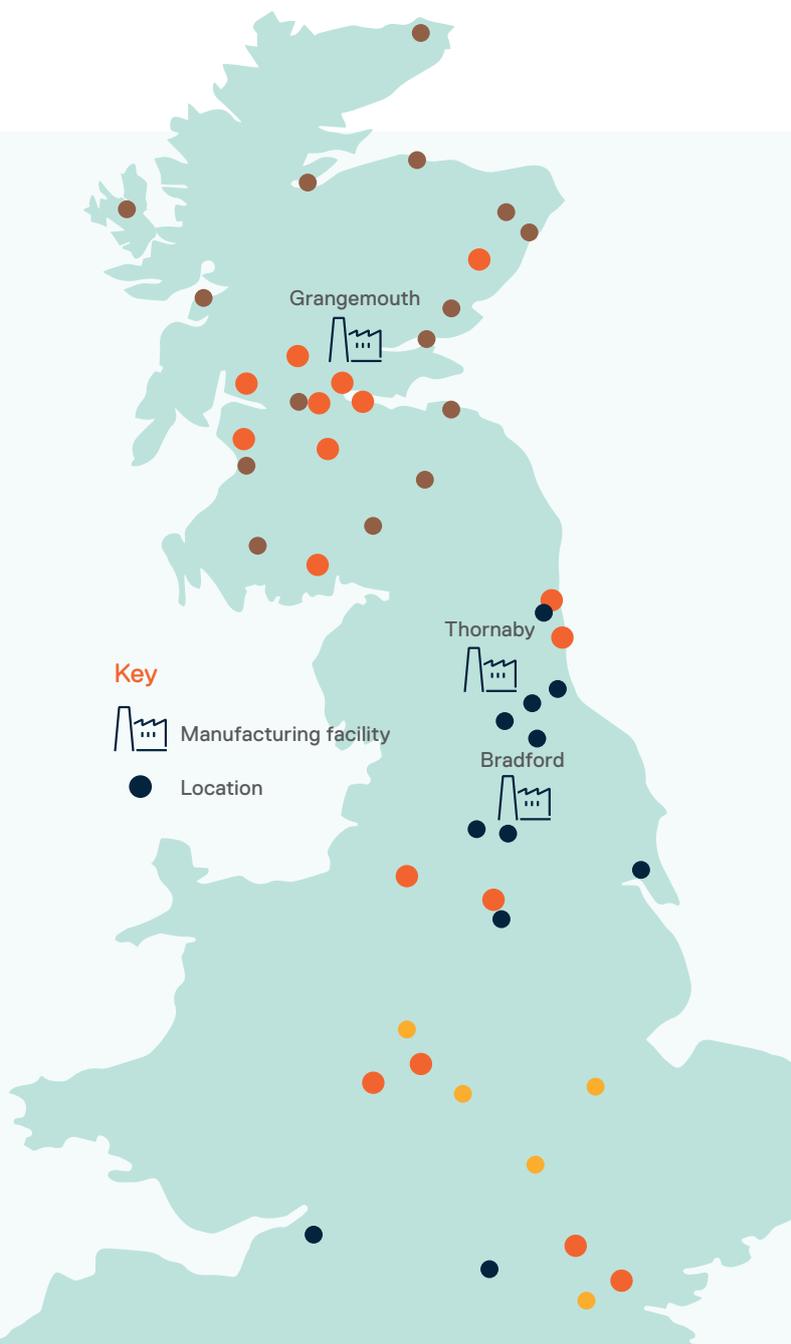
And to complement your interior design requirements, our doorsets can be customised from a wide selection of ironmongery and door finishes to add that wow factor.



Our Manufacturing Processes

We offer a bespoke doorset manufacturing service that is designed to make installation quick and easy. With locations across the UK, our manufacturing process and materials are carefully controlled and monitored to ensure every doorset produced is of the highest quality.

Locations throughout the UK



65 locations throughout the United Kingdom

45,000 doorsets supplied every year



Making the Door

The door leaf will be manufactured by using either a pre-manufactured door from a certified volume door manufacturer or in-house made from door components. The door will be finished as specified from a large range of options including painted, woodgrain veneers, laminated or bespoke pantograph designs.

The door will then be processed through the CNC machine which will router for the hinges, ironmongery and intumescent and acoustic seals as required.

Glazed fire doors will be manufactured by our specialist glazing team to ensure compliance with certification and that the appropriate fire seals and glazing systems are used.

Constructing the Frame

Components are manufactured and checked for quality and density within our own sawmill facilities.

The frame will be made to the agreed specification and finish, constructed using quality components and pre-machined for ironmongery and intumescent strips as required. It will then be assembled and checked to ensure the tolerances match the certification for the doorset.

Door stops are generally supplied in long lengths and cut to size and supplied loose for further positioning on site.

All doorsets are fitted with Intelligent Door Solutions's hinges and seals as standard with the option of fitted handles, closers and signage.

We can also pre-machine for customer specific ironmongery templates for fitting on site, these need to comply with certification.

Assembling the Doorset

The door leaf will be secured in the frame and tested to ensure it operates smoothly. All manufactured doorsets will go to site assembled, except for pairs of doors which will be supplied in kit form.

All doorsets are manufactured to industry recommendations and gaps between the door and the frame will comply with the correct specified dimensions.

Whilst every care is taken during manufacturing to set the gap tolerance, it is ultimately the responsibility of the people who fit the doorset to ensure that any gaps are adjusted to maintain compliance. Typical industry guidelines for gaps between the door and the frame are 3mm around the perimeter, whilst the threshold should be no more than 8mm for fire and 3mm for fire and smoke.

Meeting Standards

Our manufacturing practices and sourcing of raw materials follow the strict policies and guidelines of our ISO 9001:2015 quality management system.

All our doorset ranges are tested and certified to EN 1634-1 or BS1634 standards by independent accredited bodies to meet Building Regulations.

We are also proud to be members of BWF-CERTIFIRE and BM TRADA QMark who rigorously test and accredit our doorsets to ensure they comply with fire and acoustic ratings and industry standards.

Unique Door Reference

The importance of third party certification is to ensure that doors are correctly labelled to maintain traceability of the product. Not only during installation but during its entire working life.

Each of our fire doors will have a label or plug fixed to it which has a unique serial number intended for that traceability. These are placed at the top of the door and recorded within our manufacturing process. This is the only method of tracking the door back to its manufacturing origin and consequently should never be removed.

Ordering Your Doorset

Once you have placed your order our doorset support team will project manage your order with you to ensure the right products are made and delivered on time. They will monitor your order and keep you updated on progress to ensure a smooth service.

Placing Your Order

Once we have agreed what specifications you need we can order your doorsets. To get things moving quickly for you we will need a few bits of information up front:

- Your name
- Your company name
- Your email address
- The project name
- The architectural door schedule
- Product specifications
- Door elevations
- Door handings – left or right-hand hung





How We Deliver

Veneer and laminate doorsets will have protective covering placed over the door to preserve the finish. Wooden spacer batons will be fixed across the doorset which should be kept in place until installation to prevent damage. This stops the door from opening in transit and creates bearers for stacking doorsets, keeping the door faces apart. A stack of doorsets will be shrink wrapped to a heavy-duty pallet and labelled for the correct application and location.

Any door frames sent separately for pairs of doors will be wrapped, labelled, placed on bearers and delivered with the relevant doors.

Our Vehicles

We will deliver your doorsets from our fleet of vehicles ranging from 40ft trailers to Moffett trucks depending on the size of the load, if a fork lift is required and the location of the site. If there are access restrictions or a fork lift is required to offload, please make us aware of this in advance so that we can make the necessary arrangements. Our fleet of Moffett trucks come complete with a mounted fork lift saving time on site.

Handling & Storage

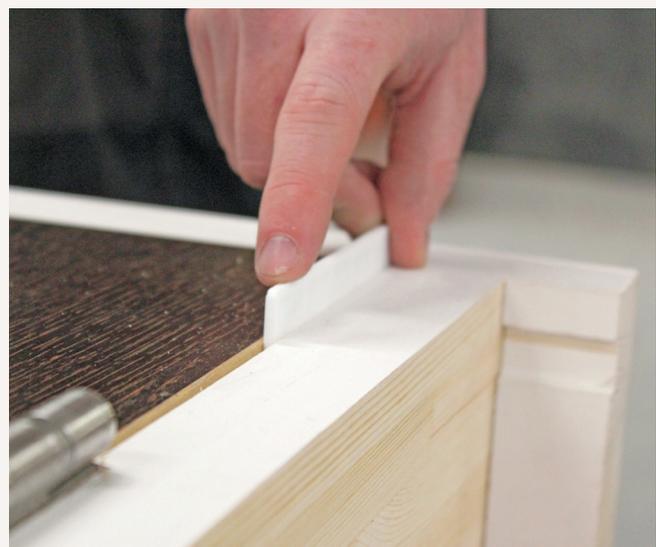
As doorsets are heavy we recommend a minimum of two people handling them. They should be lifted evenly to avoid bending and stored on a flat level surface inside a dry, well ventilated area avoiding exposure to sunlight.

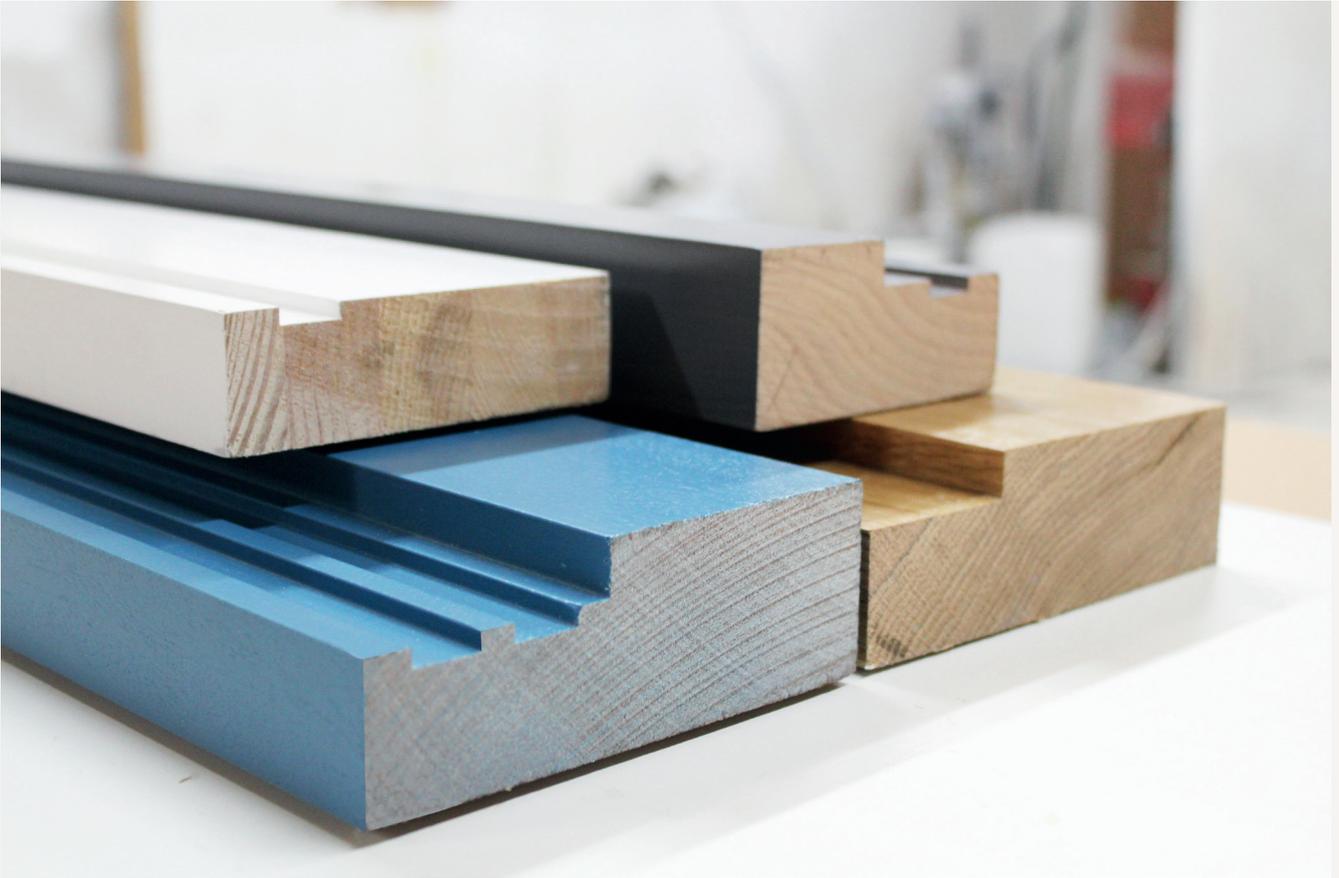
Any defects that are immediately visible should be written on the delivery note straight away.

Each doorset should be checked upon delivery within 48 hours and any further defects or damages reported within that time. Each doorset should then be repackaged to keep them protected until it is time for them to be installed.

Use load bearers equally across the doors when stacking to ensure even weight distribution and place the widest door at the bottom.

Delivery, Handling, Storage and Installation





Installation Guide

Fitting instructions will be provided with each doorset to assist with the correct installation.

These are the main points to follow when fitting an Intelligent Door Solutions doorset:

- Fit the doorset into the opening and add packers as needed

- Fix hinge side first and check for straightness

- Fix the head to the wall and then the other side of the frame

- For fire rated doors follow the gap rules, 3mm around the perimeter 3mm for fire and smoke at the threshold

- Backfill the edge of the frame with approved intumescent mastic or other suitable fire material

- Intumescent fire seals will be pre-fitted in the door or frame and once installed the fire seals may be painted over. Do not paint flexible elements of combined acoustic, smoke and fire seals.

- Supplied fixed as standard

Tried and Tested

All Intelligent Door Solutions Doorset ranges are tested and certified to ensure exacting performance and full compliance for every application that they are made for.

Our team also play a leading role in the industry, by working closely with door certification bodies to continually drive quality and safety standards for doors and other joinery products.



10 years Guarantee

All doorsets are guaranteed for 10 years against manufacturing defects providing they are stored, fitted and maintained as recommended.



British Standards

All doorsets are manufactured in accordance with the following standards, BS4787 Pt 1 (tolerances), BS EN1634 -1 & BS1634-1: pt 22 fire performance.



Acoustics

Doors will be fitted with the appropriate seals and are acoustically tested to achieve the certified passage of sound performance and to comply with BS EN ISO 10140-2: and Part E of Building Regulations.



Fire and Smoke

All doorsets are fitted with the approved intumescent fire and smoke seals and independently certified under the BWF CERTIFIRE and BM Trada QMark schemes to meet Part B of Building Regulations.



Mobility

To comply with BS8300 and Part M of Building Regulations doors should be designed and specified using 'effective clear opening widths' to provide disabled access and movement. We offer a range of widths to comply with regulations.



Security

All Intelligent Door Solutions doorsets that provide access to a dwelling are tested to British Standard PAS24:2016 as standard to meet Part Q of Building Regulations. We also offer Secured by Design (SBD) third party certification.



Seals

Intumescent fire and smoke seals are essential to the doorset performance so are durability tested to up to 10 times the industry standard to resist fire under conditions of BS1634-1: 1987, BS EN 1634 -1: 2014 and smoke conditions of BS1634-1-31:1 1983; BS EN 1634-3: 2004. Acoustic seals are fully tested as stated within BS EN 10140-2: 2010 rated in accordance with ISO 717-1: 2013. Durability



Durability

Our doorsets are tested to meet the requirements of EN1192 for strength and EN12400 for mechanical durability.



Integrated Management Systems Certified

Our manufacturing processes are strictly managed under the guidelines of our ISO9001, ISO 14001 and BSOHSHS18001 policies and procedures.



Sustainability

Our doorset materials are sourced from responsibly managed forests and carry either Forest Stewardship Council® (FSC®) or PEFC chain of custody certification.





Sustainable and Certified

We work closely with various industry door schemes including BWF-CERTIFIRE and BM TRADA, to ensure all our fire and acoustic doorsets adhere to the required specifications and regulations. We also ensure any third-party sourcing for components such as ironmongery, hinges and seals are of the highest standard and tested to meet the relevant certification.

Sustainable Sourcing

We value our green credentials and believe strongly that it is our corporate and social responsibility to preserve the world's forests and promote effective forestry management. We do this by ensuring our products are sourced from legal, sustainable and well managed forests and mills.

Our doorsets carry Forest Stewardship Council® (FSC®) or PEFC chain of custody certification that is independently evaluated, certified and available upon request.

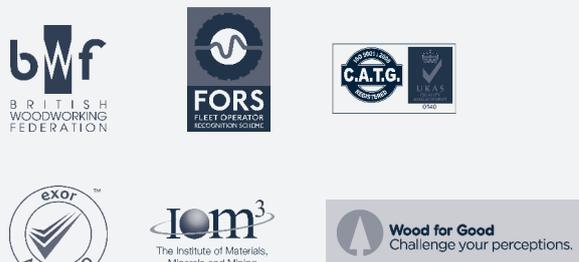
Door certifications



Industry accreditations



Environmental certifications



Seal Colour Range

Standard Colours

All our intumescent seals are available in a standard range of colours, some of which have been selected to harmonise with commonly specified timbers.

The Batwing® and DS seals are normally supplied with black brushes or fins; white fins are also available.



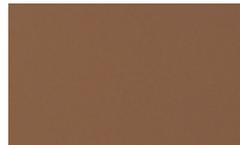
White (0303)



Cream (1047)



Maple (1740)



Gold (0502)



Bronze (0501)



Copper (0503)

Metallic Finishes

Satin Anodised Aluminium (M203)

Bright Polished Chrome (M403)

Satin Stainless Steel (M404)

Note: The limitations of the printing process mean the colours and finishes shown here may not be exactly the same as the seals supplied.

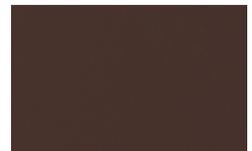
We can supply free samples to assist colour matching.



Red (3073)



Light Brown (8018)



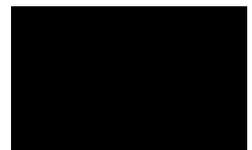
Dark Brown (8004)



Silver (0701)



Grey (D838)



Black (0001)

Woodgrain Finishes

Many seals are available with a woodgrain or metallic finish. Both finishes are achieved by laminating special polyester films directly onto the PVC casing of the seal.

Be aware that timber darkens with age and can change colour significantly when polishes and other clear finishes are applied.

Special Colours

We also offer many special finishes and a precise colour matching service.



American Sycamore (W402)



Limed Oak (W532)



Beech (W046)



Ash (W047)



American White Oak (W502)



Medium Oak (W512)



European Walnut (W018)



American Cherry (W552)



Sapele (W501)



Teak (W522)



American Black Walnut (W804)

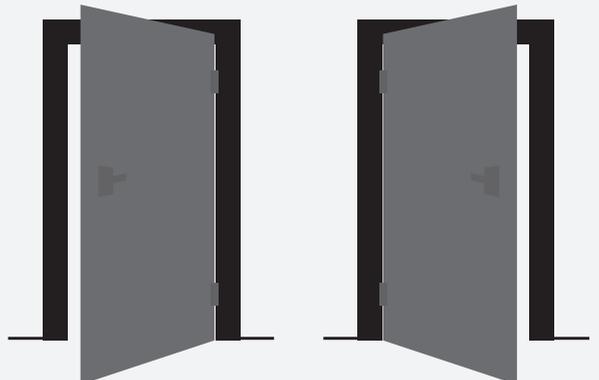


Door Handing

Door handing is determined by viewing the door from its opening face. If the hinges are on the left-hand side, you need a left-hand hung doorset. If the hinges are on the right-hand side, you need a right-handed doorset. Please take care when specifying the handing of doorsets to ensure they operate correctly when installed.

Right hand

Left hand



Timber Security Doorsets

FD30 FIRE AND SECURITY

(Single Leaf)

Door Leaf

- Intelligent Door Solutions high density three layered particleboard complete with lippings
- Thickness 44mm
- Door core construction can vary pending on project requirements

Door Frame

- Available in the following materials
 - Softwood (minimum density 510 kg/m³)
 - Hardwood (minimum density 510 kg/m³)
- Available in the following profiles:
 - Rebated frame (casing)
 - Timber threshold supplied as standard

Choice of Door Facings

- Primed only for site finish
- Veneers - crown cut as standard, specials upon request
- Laminate
- Acrovyn (PVC)

Ironmongery

- 3nr hinges (as standard)
- 3-point multi-lock (as standard)
- Palladio quick fit lever on face plate (as standard)
- TS007 Security Cylinder and armorshield (as standard)
- Drop seal (as standard)

Optional:

- Double Euro cylinder
- TS007 Security Cylinder
- Escutcheon
- Lever handles on rose
- Letter plate
- Door viewer
- Concealed or face fixed door closer

Note:

To comply with current fire regulations all fire doors must be fitted with a closer (either face fixed or concealed)

Perimeter Seal Options

- Fire only
- Separate smoke and acoustic
- All seals factory fitted as standard

All doorsets and door kits comply with 'Technical Schedule TS10 Fire Resisting Pedestrian Type Hinged or Pivoted Doorsets'.

Features



FD30

Fire tested and certified providing fire resistance of 30 minutes integrity as defined in BS1634-1: Part 22.



32dB



Smoke Seal

Appropriate integral smoke seals can be applied to restrict smoke leakage as defined in BS1634-1: Part 31.1: 1983 and Appendix B of approved Document B



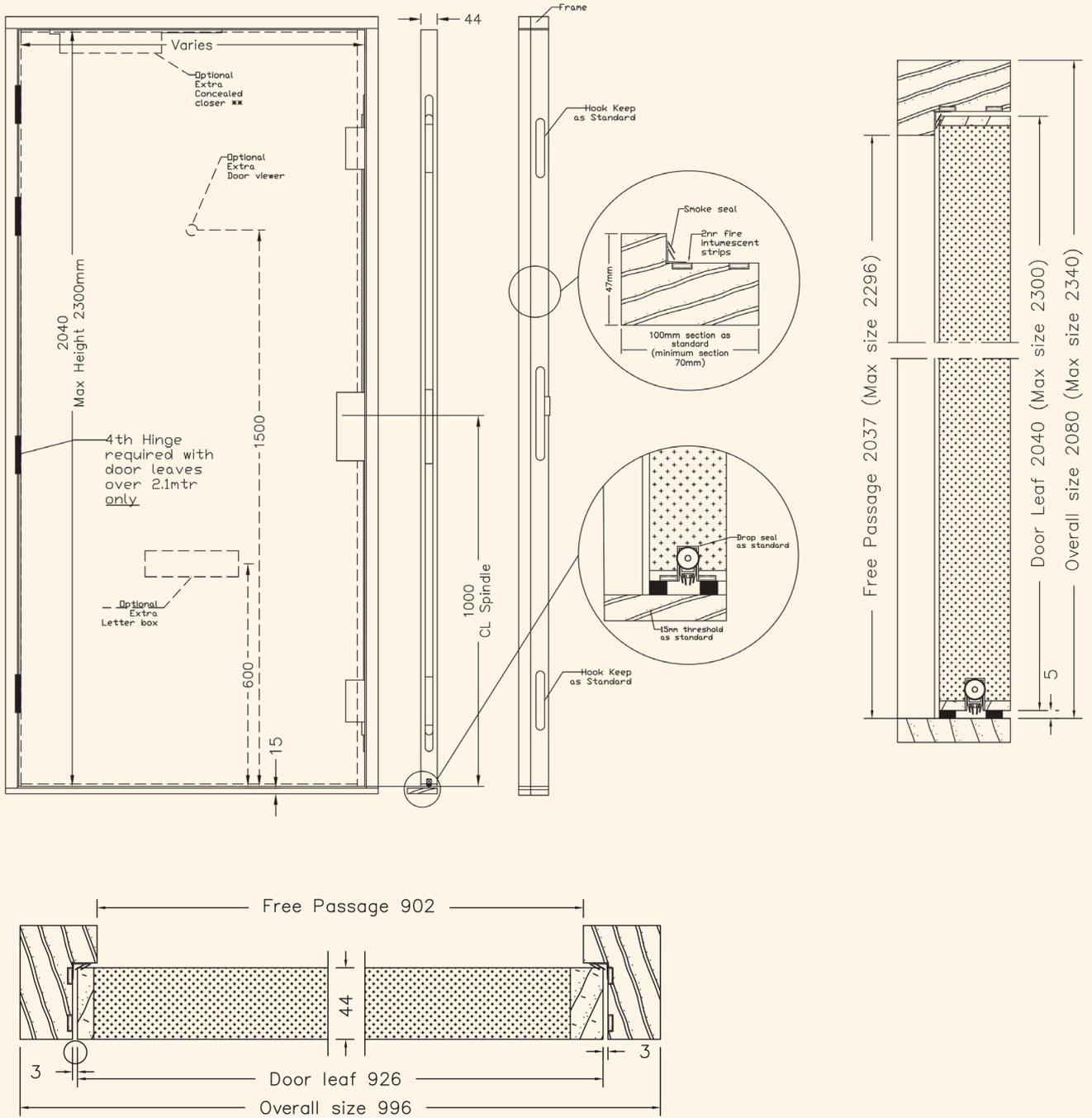
Security – PAS24 and SBD

Tested to PAS24 and Secured by Design enhanced security standards.

Glazing options available, contact office for more details.

Technical details

All sizes are in mm



Timber Security Doorsets

FD60 FIRE AND SECURITY

(Single Leaf)

Door Leaf

- Intelligent Door Solutions high density three layered particleboard complete with lippings
- Thickness 54mm
- Door core construction can vary pending on project requirements

Door Frame

- Available in the following materials
 - Hardwood (minimum density 640 kg/m³)
- Available in the following profiles:
 - Rebated frame (casing)
 - Timber threshold supplied as standard

Choice of Door Facings

- Primed only for site finish
- Veneers - crown cut as standard, specials upon request
- Laminate
- Acrovyn (PVC)

Ironmongery

- 3nr hinges (as standard)
- 3-point multi-lock (as standard)
- Palladio quick fit lever on face plate (as standard)
- TS007 Security Cylinder and armorshield (as standard)
- Drop seal (as standard)

Optional:

- Double Euro cylinder
- TS007 Security Cylinder
- Escutcheon
- Lever handles on rose
- Letter plate
- Door viewer
- Concealed or face fixed door closer

Note:

To comply with current fire regulations all fire doors must be fitted with a closer (either face fixed or concealed)

Perimeter Seal Options

- Fire only
- Separate smoke and acoustic
- All seals factory fitted as standard

All doorsets and door kits comply with 'Technical Schedule TS10 Fire Resisting Pedestrian Type Hinged or Pivoted Doorsets'.

Features



FD60

Fire tested and certified providing fire resistance of 60 minutes integrity as defined in BS1634-1: Part 22.



33dB



Smoke Seal

Appropriate integral smoke seals can be applied to restrict smoke leakage as defined in BS1634-1: Part 31.1: 1983 and Appendix B of approved Document B



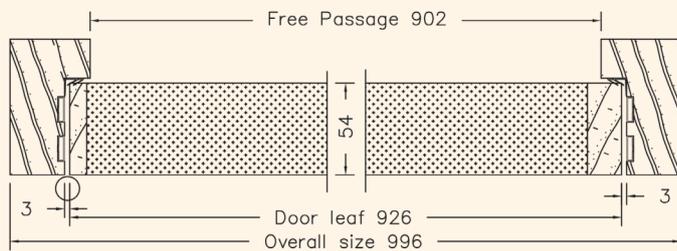
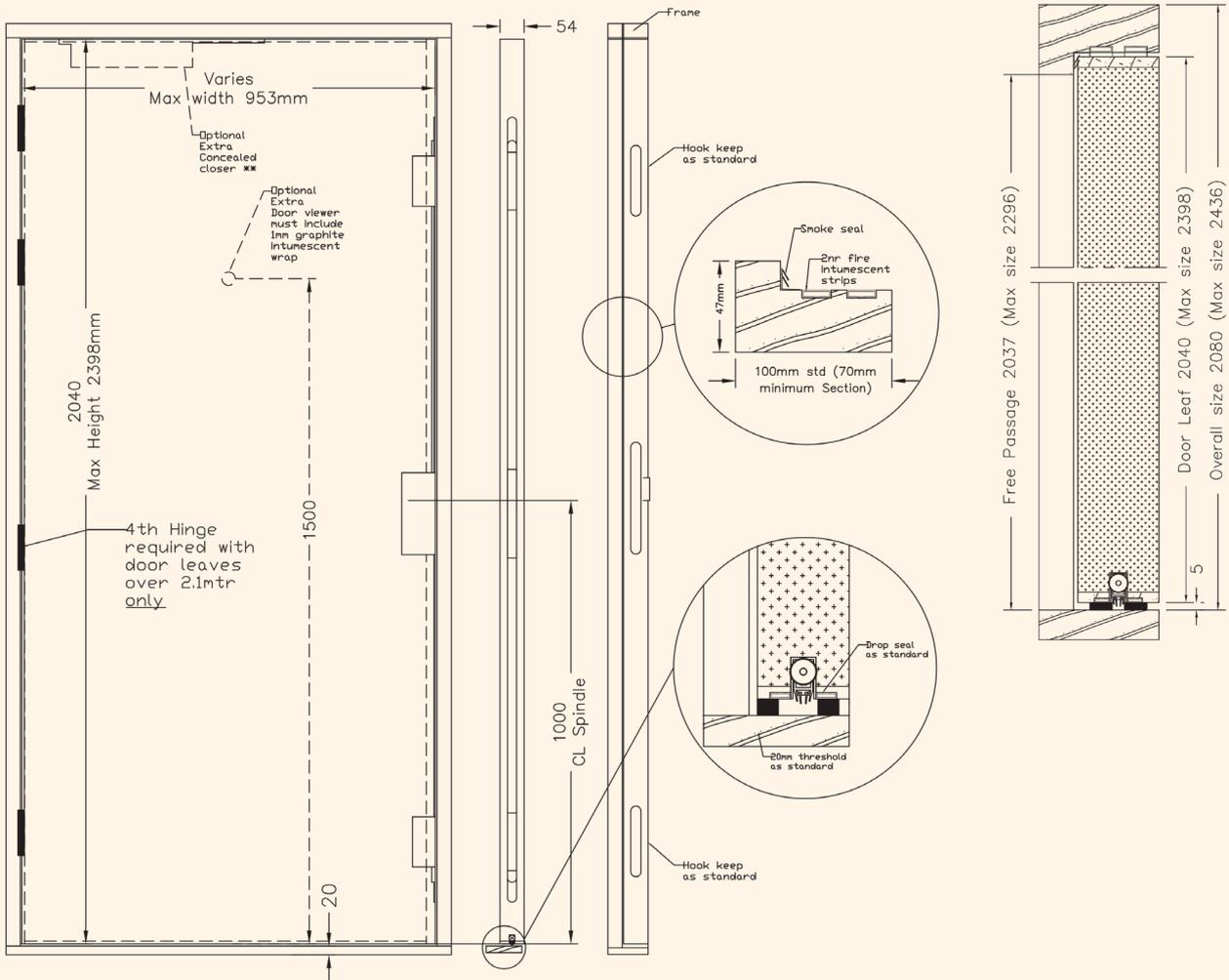
Security – PAS24 and SBD

Tested to PAS24 and Secured by Design enhanced security standards.

Glazing options available, contact office for more details.

Technical details

All sizes are in mm



Timber Security Doorsets

FD30 FIRE AND SECURITY

(Double Leaf)

Door Leaf

- Intelligent Door Solutions high density three layered particleboard complete with lippings
- Thickness 54mm
- Door core construction can vary pending on project requirements

Door Frame

- Available in the following materials:
 - Softwood (minimum density 510 kg/m³)
 - Hardwood (minimum density 510 kg/m³)
- Available in the following profiles:
 - Rebated frame (casing)
 - Timber threshold supplied as standard

Choice of Door Facings

- Primed only for site finish
- Veneers - crown cut as standard, specials upon request
- Laminate
- Acrovyn (PVC)

Ironmongery

- 3nr hinges (as standard)
- 3-point multi-lock (as standard)
- Palladio quick fit lever on face plate (as standard)
- TS007 Security Cylinder and armorshield (as standard)
- Drop seal (as standard)

Optional:

- Double Euro cylinder
- TS007 Security Cylinder
- Escutcheon
- Lever handles on rose
- Letter plate
- Door viewer
- Concealed or face fixed door closer

Note:

To comply with current fire regulations all fire doors must be fitted with a closer (either face fixed or concealed)

Perimeter Seal Options

- Fire only
- Separate smoke and acoustic seal
- All seals factory fitted as standard

All doorsets and door kits comply with 'Technical Schedule TS10 Fire Resisting Pedestrian Type Hinged or Pivoted Doorsets'.

Features



FD30

Fire tested and certified providing fire resistance of 30 minutes integrity as defined in BS1634-1: Part 22.



27dB



Smoke Seal

Appropriate integral smoke seals can be applied to restrict smoke leakage as defined in BS1634-1: Part 31.1:1983 and Appendix B of approved Document B



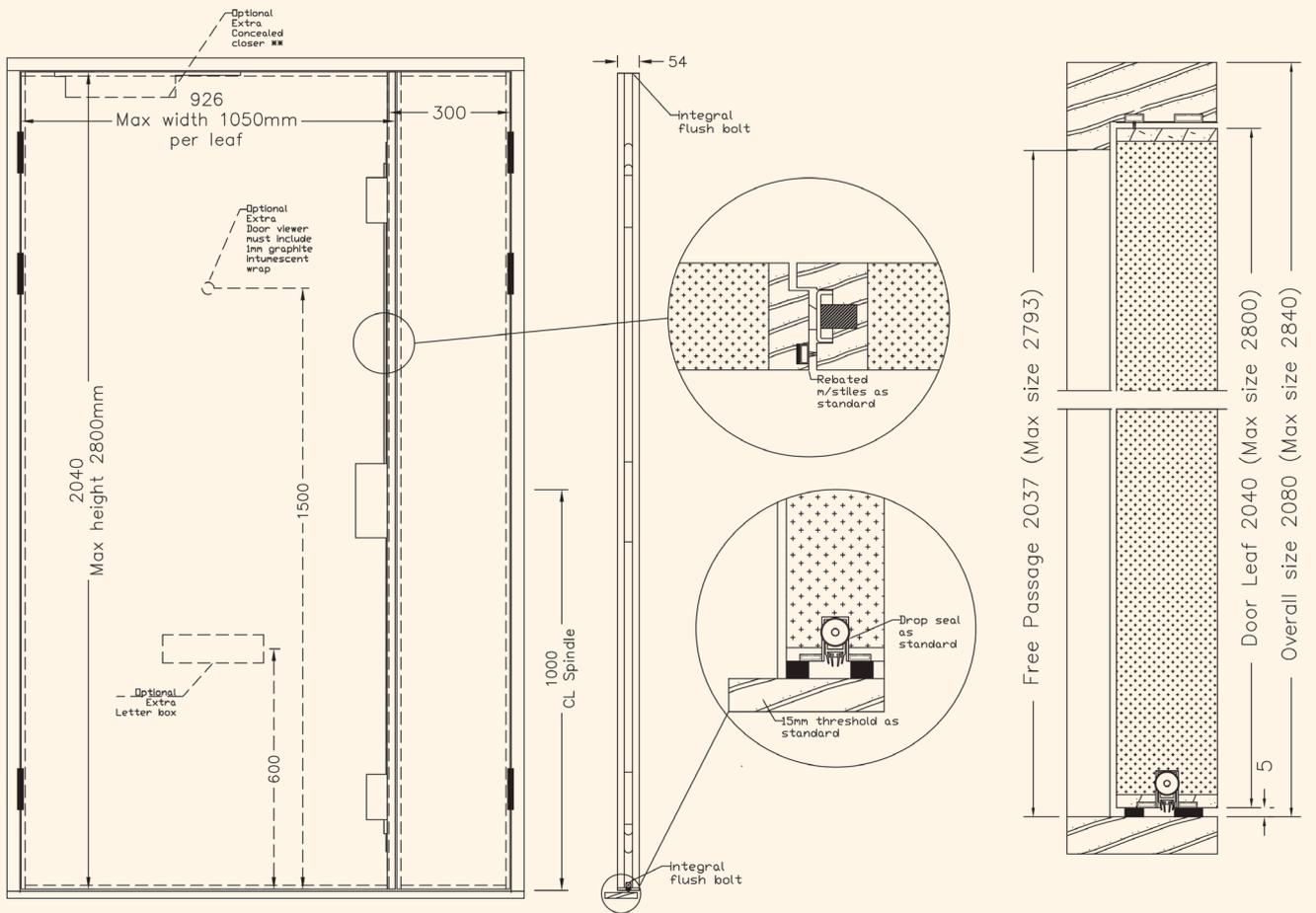
Security – PAS24 and SBD

Tested to PAS24 and Secured by Design enhanced security standards.

Glazing options available, contact office for more details.

Technical details

All sizes are in mm







Finishing Touches

We know that as well as giving exceptional performance, a doors' appearance is intrinsic to the overall interior design of a space.

These are some of the most popular colours but others are available so please get in touch if you can't find what you are looking for.

Intelligent Door Solutions Veneer Range



Ash



Cherry



Oak



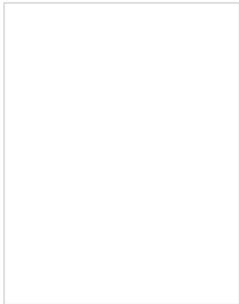
Steamed Beech



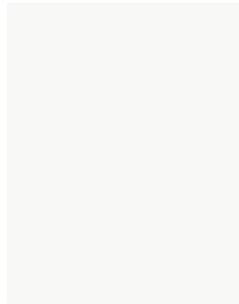
Walnut

Please note that the colours in this document are as accurate as the printing process allows. Please contact us for exact colour swatches.

Formica® Colours Range



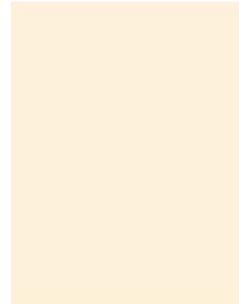
White
MAT (F0949)



Polar White
MAT (F2255)



Soft White
MAT (F7949)



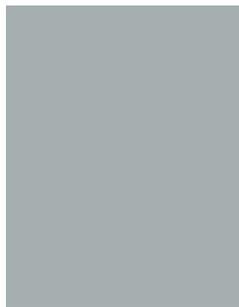
Antique White
MAT (F7932)



Surf
MAT (F7923)



Folkstone
MAT (F7927)



Steel
MAT (F1484)



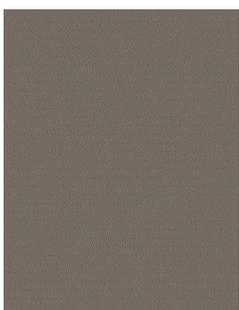
Oyster Grey
MAT (F7929)



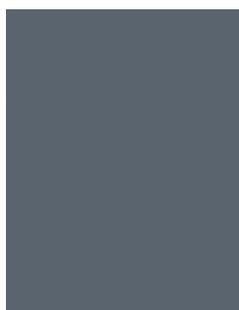
Fog
MAT (F7961)



Mouse
MAT (F7928)



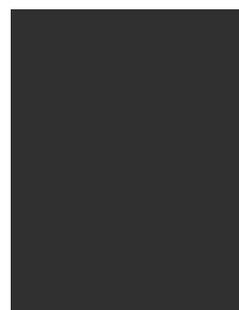
Earth
MAT (F5342)



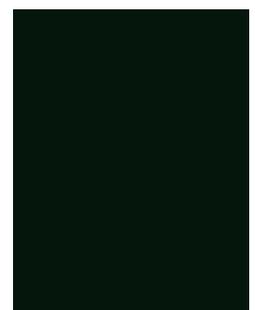
Lead
MAT (F7924)



Storm
MAT (F7912)



Graphite
MAT (F7837)



Diamond Black
MAT (F2253)



Dusty Jade
MAT (F7879)



Vibrant Green
MAT (F6901)



Chrome Yellow
MAT (F1485)



Spectrum Red
MAT (F7845)



Viola
MAT (F5345)



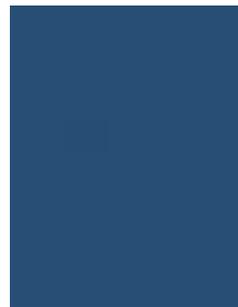
China Blue
MAT (F7884)



Tropical Blue
MAT (F2828)



Denim
MAT (F8822)



Marine Blue
MAT (F7914)



Nocturne
MAT (F5323)

Formica® High Pressure Laminate (HPL) is manufactured through fusing multiple layers of impregnated paper under high pressure and temperature to create a hard-wearing, durable and hygienic surfacing material.

Formica® Laminate Woods Range



White Ash
MAT (F8841)



Natural Ash
MAT (F8843)



Clear Maple
MAT (F3855)



Natural Beech
MAT (F2726)



Elegant Oak
MAT (F5374)



Bio-Oak
MAT (F7603)



Finn Beech
MAT (F0190)



Vintage Wood
MAT (F5372)



Macchiato Walnut
MAT (F6932)



Nocture Wood
MAT (F5373)



Classic Wenge
LNW (F8851)



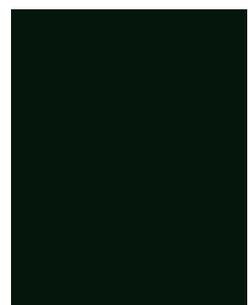
Rural Oak
Premium PGN (F8853)



Delano Oak
Premium PGN (F8966)



Rattan Cane
Premium NAT
(F3699)



Smoky Brown Pear
Premium NAT (F8966)



Enquiry

Contact Name: _____

Project Type: _____

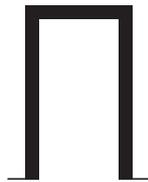
Address: _____

Project Details: _____

Step 1. Select your frame opening size (please advise)

Height: _____

Width: _____



Step 2. Select your required fire door (please tick)

- FD30 Fire Rated Single Door
- FD30 Fire Rated Double Door
- FD60 Fire Rated Single Door



Step 3. Choose your door hanging (please tick)



Left-hand hung (when viewing from the outside)



Right-hand hung (when viewing from the outside)

Step 4. Select your door closer (please tick)



Face fixed



Concealed

Note: to be compliant with Fire safety, a closer should be fitted

Step 5. Choose your optional door accessories (please select as required)

Security Letterplate



- Satin
- Chrome

Numeral



- Satin
- Chrome

Door Viewer



- Satin
- Chrome

Door Chain



- Satin
- Chrome

Step 6. Handle / Locking Mechanism



Palladio Handle on Plate as Standard



Winkhaus AV2 Lock as standard

Step 7. Quantity (please advise)

Step 8. Finishing required

(Please select a finish from pages 25-28)

Required Delivery Date _____

Special Instructions _____

inteldoors.co.uk

info@inteldoors.co.uk

Joinery Department
Oxclose Park Road North
Sheffield
South Yorkshire
S20 8GN