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INTERNATIONAL FIRE  
CONSULTANTS LIMITED

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## **IFC SUMMARY DOCUMENT**

# **SecureSound Timber Door Assemblies for FD30 Fire Resistance and PAS24 Security**

**Fire Resistance Standard: BS476: Part 22: 1987  
Security Standard: PAS24: 2016**

**IFC Summary Document SFS/17180/01**

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| ASSESSED LEAF SIZE ENVELOPES FOR SECURESOUND TIMBER DOOR ASSEMBLIES FOR FD30 FIRE RESISTANCE AND PAS24 ENHANCED SECURITY |           |

## 1. INTRODUCTION

This summary document has been prepared by International Fire Consultants Ltd (IFC), on the instruction of UK Doorsets Ltd, to define the scope of SecureSound timber door assemblies which are required to provide both of the following performance characteristics:

- 30 minutes fire resistance performance when adjudged against BS476: Part 22: 1987
- Enhanced security performance when adjudged against PAS 24: 2016

This summary document is based upon test evidence supplied to IFC for both enhanced security and fire resistance (detailed in Section 2). A full analysis of the fire resistance performance of the SecureSound door assemblies is detailed within IFC Field of Application Report PAR/17180/01 Revision C.

This summary document should be read in conjunction with IFC Field of Application Report PAR/17180/01 Revision C which provides full details regarding installation requirements, supporting construction, intumescent protection to ironmongery etc.


Only variations in hardware specifically mentioned within this summary document are permitted.

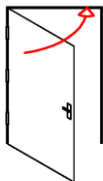
## 2. TEST EVIDENCE

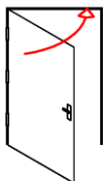
| <b>BS476: Part 22: 1987,<br/>BS EN 1634-1:2008 and<br/>BS EN 1634-1:2014</b>  | <b>PAS24</b>   | <b>PAS23</b>   |
|---|--|--|
| <ul style="list-style-type: none"><li>• CFR1610051</li><li>• CFR1609301</li><li>• WF312693</li><li>• WF196756B</li><li>• WF198436</li><li>• CFR1406061</li><li>• WF346351</li><li>• CFR1803082</li><li>• CFR1703061</li><li>• WF386959 Revision A</li><li>• WF389552</li><li>• WF392262</li><li>• WF354581</li><li>• CFR1901031</li></ul> | <ul style="list-style-type: none"><li>• Winkhaus TR1326A</li><li>• Winkhaus TR1327A</li><li>• Winkhaus TR1349A</li><li>• Exova WIL379024</li><li>• Exova WIL393442</li></ul> | <ul style="list-style-type: none"><li>• Winkhaus TR1327B</li><li>• Winkhaus TR814A</li><li>• Winkhaus TR815A1</li><li>• Winkhaus TR1326B</li></ul> |

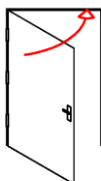
### 3. LEAF SIZE AND CONFIGURATION

The approved leaf sizes and configurations of door assemblies comprising SoundSecure door leaves are outlined below:

| Configuration   | Envelope of Approved Leaf Size                           |
|---|--|
|  <ul style="list-style-type: none"> <li>• Latched</li> <li>• Single acting</li> <li>• Single door</li> <li>• Without overpanel</li> <li>• Flush doors only</li> <li>• Hardwood frames only</li> <li>• Gretscht Unitas multipoint locks only</li> </ul> | <p><b>Figure SFS/17180/01: A01<br/>in Appendix A</b></p> |

| Configuration  | Envelope of Approved Leaf Size                           |
|--|--|
|  <ul style="list-style-type: none"> <li>• Latched</li> <li>• Single acting</li> <li>• Single door</li> <li>• Without overpanel</li> <li>• Panelled doors only</li> <li>• Hardwood frames only</li> <li>• Gretscht Unitas multipoint locks only</li> </ul> | <p><b>Figure SFS/17180/01: A02<br/>in Appendix A</b></p> |

| Configuration  | Envelope of Approved Leaf Size                           |
|--|--|
|  <ul style="list-style-type: none"> <li>• Latched</li> <li>• Single acting</li> <li>• Single door</li> <li>• Without overpanel</li> <li>• Flush doors only</li> <li>• Hardwood frames only</li> <li>• Winkhaus multipoint locks only</li> </ul> | <p><b>Figure SFS/17180/01: A03<br/>in Appendix A</b></p> |

| Configuration   | Envelope of Approved Leaf Size                       |
|---|--|
|  <ul style="list-style-type: none"> <li>• Latched</li> <li>• Single acting</li> <li>• Single door</li> <li>• Without overpanel</li> <li>• Panelled doors only</li> <li>• Hardwood frames only</li> <li>• Winkhaus multipoint locks only</li> </ul> | <p><b>Figure SFS/17180/01: A04 in Appendix A</b></p> |

## 4. LEAF CONSTRUCTIONS

### 4.1 Option A – SecureSound Flush Door Construction

| Component                               |              | Material  | Density              | Dimensions   |
|---|--------------|---|----------------------|--|
| Core                                    |              | Homogenous solid sheet of particleboard   | 540kg/m <sup>3</sup> | 44mm thick   |
| Lippings                                | Square edges | Hardwood  | 640kg/m <sup>3</sup> | 20mm thick (stiles)<br>10mm thick (top and bottom edges) |
| Lipping adhesive                        |              | PU Adhesive   | –                    | –  |
| Optional additional decorative finishes |              | Leaf faces only<br>Timber veneer, decorative plastic based laminate, paint or varnish | –                    | Maximum 2mm thick  |
|   |              | Leaf faces and edges<br>Paint or varnish  |                      |  |

### 4.2 Option B - SecureSound Moulded Panelled Door Construction

| Component              | Material                                | Density              | Dimensions  |
|------------------------|---|----------------------|---|
| Minimum leaf thickness | -                                       | -                    | 49mm thick  |
| Core                   | Homogenous solid sheet of particleboard | 540kg/m <sup>3</sup> | 43mm thick reduced to min 22mm in the moulded areas |
| Facings                | MDF skin                                | 795kg/m <sup>3</sup> | Minimum 3mm thick                                   |
| Facing adhesive        | Polyurethane adhesive                   | –                    | –   |

| Component                               |              | Material  |               | Density              | Dimensions   |
|---|--------------|---|---------------|----------------------|--|
| Lippings                                | Square edges | Hardwood  |               | 640kg/m <sup>3</sup> | 20mm thick (stiles)<br>10mm thick (top and bottom edges) |
| Lipping adhesive                        |              | PU adhesive   |               | –                    | –  |
| Optional additional decorative finishes |              | Leaf faces only   | Timber veneer | –                    | 0.5mm thick  |
| Moulding profile                        |              | -   |               | -                    | 47mm wide x 11mm deep                                    |
| Panel configurations                    |              | For permitted panel configurations refer to IFC Field of Application Report PAR/17180/01 Revision C |               |                      |  |

### 4.3 Option C – SecureSound Shallow Moulded Door Construction

| Component                               |              | Material  |  | Density              | Dimensions   |
|---|--------------|---|--|----------------------|--|
| Minimum leaf thickness                  |              | -   |  | -                    | 49mm thick   |
| Core                                    |              | Homogenous solid sheet of particleboard   |  | 540kg/m <sup>3</sup> | 43mm thick   |
| Facings                                 |              | MDF Skin  |  | 795kg/m <sup>3</sup> | Minimum 3mm thick  |
| Facing adhesive                         |              | Polyurethane adhesive   |  | –                    | –  |
| Lippings                                | Square edges | Hardwood  |  | 640kg/m <sup>3</sup> | 20mm thick (stiles)<br>10mm thick (top and bottom edges) |
| Lipping adhesive                        |              | Polyurethane adhesive   |  | –                    | –  |
| Optional additional decorative finishes |              | Leaf faces only   | Timber veneer, decorative plastic based laminate, paint or varnish | –                    | Maximum 2mm thick  |
|   |              | Leaf faces and edges  | Paint or varnish   |                      |  |
| Shallow moulding profile                |              | -   |  | -                    | 10mm wide reducing to 2mm wide x 4.8mm deep              |
| Panel configurations                    |              | For permitted panel configurations refer to IFC Field of Application Report PAR/17180/01 Revision C |  |                      |  |

## 5. DOOR FRAME CONSTRUCTION

| Component           | Material/Type  | Density              | Dimensions                                   |
|---------------------|--|----------------------|--|
| Frame material      | Hardwood   | 640kg/m <sup>3</sup> | 78mm x 47mm with 15mm rebate                 |
| Frame joint         | Horizontal butt joint                                  | -                    | -  |
| Frame joint fixings | 3no. 80mm x 5mm CSK screws through head into each jamb | -                    | -  |
| Threshold material  | Hardwood   | 640kg/m <sup>3</sup> | 78mm wide x 15mm thick x full width of frame |
| Threshold fixings   | Threshold to be twice screwed to each frame jamb       | -                    | -  |

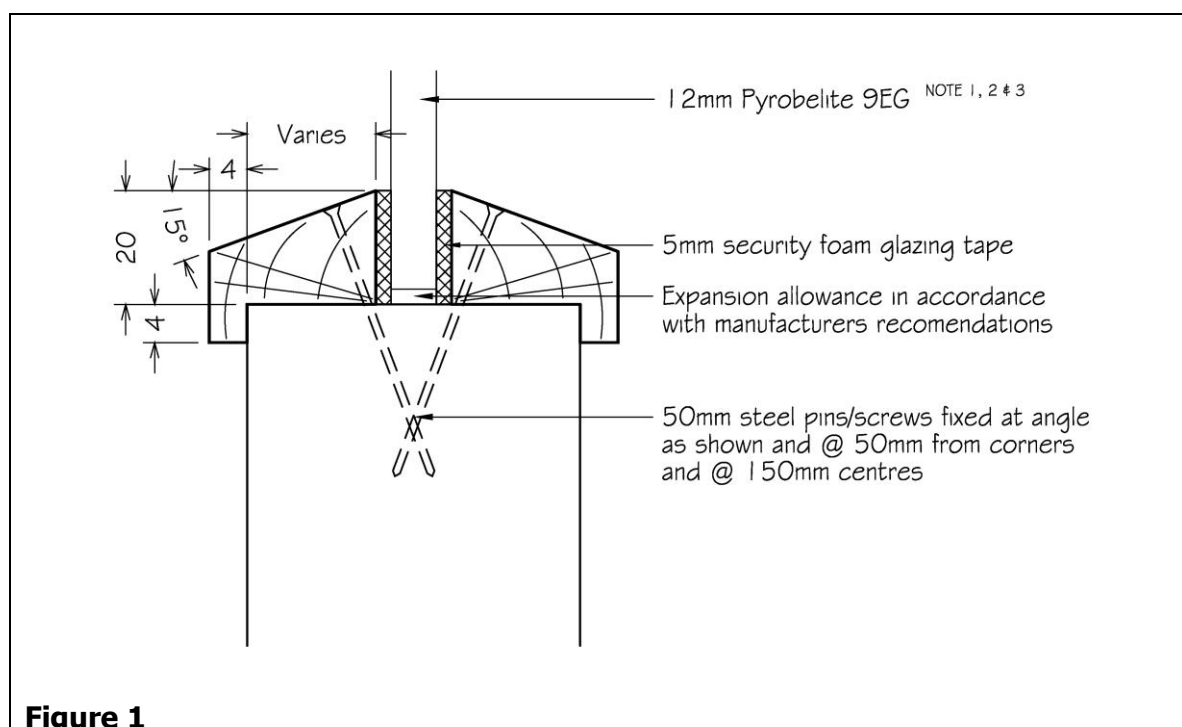
| Component           | Material/Type  | Density              | Dimensions                                   |
|---------------------|--|----------------------|--|
| Frame material      | Engineered Softwood (4-Ply finger jointed & laminated) | 510kg/m <sup>3</sup> | 78mm x 55mm with 15mm rebate                 |
| Frame joint         | Horizontal butt joint                                  | -                    | -  |
| Frame joint fixings | 3no. 80mm x 5mm CSK screws through head into each jamb | -                    | -  |
| Threshold material  | Hardwood   | 640kg/m <sup>3</sup> | 78mm wide x 15mm thick x full width of frame |
| Threshold fixings   | Threshold to be twice screwed to each frame jamb       | -                    | -  |

## 6. GLAZING IN DOOR LEAF

| Component                                 | Material/Type   | Density              | Dimensions   |
|---|---|----------------------|--|
| Glass                                     | 12mm Pyrobelite 9EG<br>Note 1, 2 and 3                    | -                    | -  |
| Glazing system                            | Security foam glazing tape (various manufacturers) Note 1 | -                    | 18mm wide x 5mm thick  |
| Glazing bead                              | Hardwood<br>Refer to Figure 1, below.                     | 640kg/m <sup>3</sup> | 20mm high x width to suit (not including a 4mm bolection return) |
| Glazing bead fixings (Security risk side) | Screws<br>Fixed at 50mm from corners and at maximum 150mm | -                    | 4 x 50mm   |



| Component  | Material/Type   | Density | Dimensions            |
|--|---|---------|-----------------------|
|  | centres   |         |                       |
| Glazing bead fixings<br>(Non-security risk side) | Pins<br>Fixed at 50mm from corners<br>and at maximum 150mm<br>centres | -       | 50mm long x 1.6mm dia |



**Figure 1**

*Note 1 An alternative glass and glazing system may be selected from IFC Field of Application Report PAR/17180/01 Revision C, provided test evidence is available to demonstrate that the glass type is capable of achieving a minimum P1A rating when tested in accordance with BS EN356:2000, as outlined in Approved Document Q of the Building Regulations. Aperture dimensions/areas, glazing bead sizes/profiles and glazing bead fixings must remain as outlined within this document.*

*Note 2 Security film may be applied to the selected glass type provided the combination of glass and security film is capable of achieving a minimum P1A rating when tested in accordance with BS EN356: 2000, as outlined in Approved Document Q of the Building Regulations.*

*Note 3 A security film must only be applied to the selected glass once the fire risk side of the door assembly is established. Security films must always be located on the fire risk side of the door assembly.*

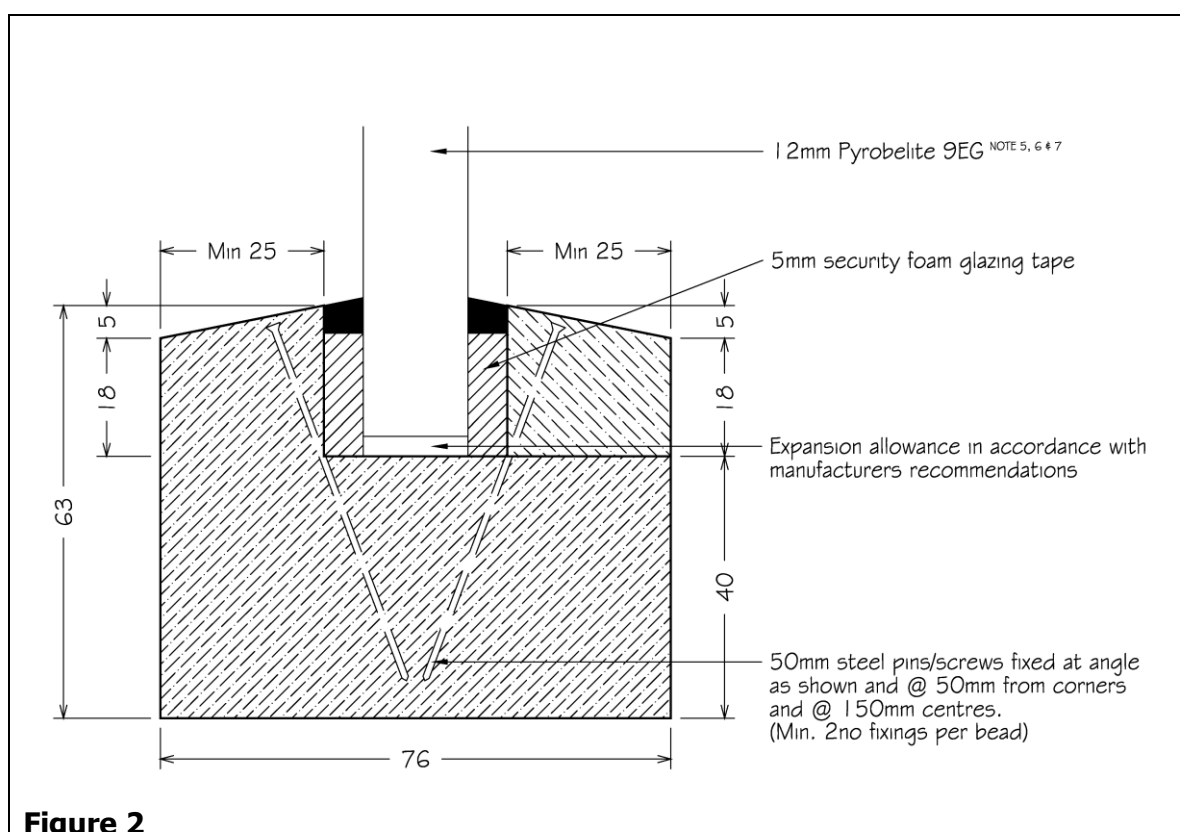
| Component                              | Dimension/Area                                |
|--|---|
| Maximum combined area of apertures     | 1.5m <sup>2</sup> Note 4                      |
| Maximum area of single aperture        | 0.57m <sup>2</sup>                            |
| Maximum height of aperture             | 1481mm<br>(with corresponding width of 385mm) |
| Maximum width of aperture              | 626mm<br>(with corresponding height of 904mm) |
| Minimum distance from top of leaf      | 150mm   |
| Minimum distance from leaf edges       | 150mm   |
| Minimum distance from bottom leaf edge | 200mm   |
| Minimum distance between apertures     | 150mm   |

*Note 4 Multiple glazed apertures may be included within a single door leaf provided the total combined area of all glazed apertures does not exceed 1.5m<sup>2</sup>.*

## 7. SIDELIGHT

| Component                         | Material/Type   | Density              | Dimensions                                |
|-----------------------------------|---|----------------------|---|
| Maximum sidelight size            | -   | -                    | 600mm wide x full height of adjacent door |
| Maximum fanlight size             | -   | -                    | 600mm high x full width of door below     |
| Frame material                    | Hardwood  | 640kg/m <sup>3</sup> | 78mm x 65mm O/A with 25mm deep rebate     |
| Frame joint                       | Horizontal butt joint                                     | -                    | -   |
| Frame joint fixings               | 3no. 90mm x 5mm CSK screws through head into each jamb    | -                    | -   |
| Glass                             | 12mm Pyrobelite 9EG<br>Note 5, 6 and 7                    | -                    | -   |
| Glazing system                    | Security foam glazing tape (various manufacturers) Note 5 | -                    | 12mm wide x 5mm thick                     |
| Glazing bead (Security risk side) | Hardwood – integral to frame section                      | 640kg/m <sup>3</sup> | 25mm high x width to suit                 |

| Component                                | Material/Type   | Density              | Dimensions                |
|--|---|----------------------|---------------------------|
| Glazing bead<br>(Non-security risk side) | Hardwood – loose bead   | 640kg/m <sup>3</sup> | 25mm high x width to suit |
| Glazing bead fixings<br>Option 1         | Steel pins<br>Fixed at 50mm from corners<br>and at maximum 150mm<br>centres <sup>Note 8</sup>   | -                    | 50mm long x 1.8mm dia     |
| Glazing bead fixings<br>Option 2         | Steel screws<br>Fixed at 50mm from corners<br>and at maximum 150mm<br>centres <sup>Note 8</sup> | -                    | 4mm x 50mm long           |



*Note 5* An alternative glass and glazing system may be used subject to the following:

- The glass and glazing system must have suitable supporting test evidence when tested as a glazed screen (with or without a door assembly included) at the pane dimensions to be installed. The test evidence must be full scale and the following test standards are acceptable: BS 476: Part 22: 1987, BS EN 1634-1 or BS EN 1364-1.

- Test evidence must be available to demonstrate that the glass type is capable of achieving a minimum P1A rating when tested in accordance with BS EN356:2000, as outlined in Approved Document Q of the Building Regulations.
- All elements of the fanlights and sidelights must be in accordance with supporting test evidence for the relevant glass type. Glazing bead size, and the frequency/type/size of glazing bead fixings must meet the minimum requirements outlined in the table above or replicate that proven by fire testing, whichever specification is greater.

*Note 6* Security film may be applied to the selected glass type provided the combination of glass and security film is capable of achieving a minimum P1A rating when tested in accordance with BS EN356:2000, as outlined in Approved Document Q of the Building Regulations.

*Note 7* A security film must only be applied to the selected glass once the fire risk side of the door/sidelight assembly is established. Security films must always be located on the fire risk side of the door/sidelight assembly.

*Note 8* Pins or screws must be fixed through both the loose and integral glazing beads.

## 8. HARDWARE

### 8.1 Hinges

| Component        | Reference/Specification  |
|------------------|--|
| Hinge model      | 3no. Nico 4715 Grade 11 Offset Lift-Off Hinge                            |
| Hinge dimensions | 98mm high x 84mm wide overall (open)                                     |
| Hinge fixings    | 5mm x 32mm CSK screws into frame<br>5mm x 50mm CSK screws into door leaf |

| Component        | Reference/Specification  |
|------------------|--|
| Hinge model      | 3no. Nico 4717 Grade 12 Symmetrical Lift-Off Hinge                       |
| Hinge dimensions | 98mm high x 84mm wide overall (open)                                     |
| Hinge fixings    | 5mm x 32mm CSK screws into frame<br>5mm x 50mm CSK screws into door leaf |
| Component        | Reference/Specification  |
| Hinge model      | 3no. Nico 4718 Grade 12 Security Lift-Off Hinge                          |
| Hinge dimensions | 98mm high x 84mm wide overall (open)                                     |

| Component     | Reference/Specification  |
|---------------|--|
| Hinge fixings | 5mm x 32mm CSK screws into frame<br>5mm x 50mm CSK screws into door leaf |

## 8.2 Multipoint Locks

| Component                  | Reference/Specification  |
|----------------------------|--|
| Multipoint lock model      | Winkhaus AV2   |
| Multipoint lock dimensions | Forend Plate: 1770mm long x 20mm wide x 2.5mm thick<br>Lock Body: 186mm long x 70mm wide x 17mm thick<br>Hook Boxes: 113mm high x 45mm wide x 17mm thick |
| Multipoint lock fixings    | 50mm x 5mm CSK screws  |

| Component                  | Reference/Specification  |
|----------------------------|--|
| Multipoint lock model      | Winkhaus blueMatic AV2-E   |
| Multipoint lock dimensions | Forend Plate: 1770mm long x 20mm wide x 2.5mm thick<br>Lock Body: 186mm long x 70mm wide x 17mm thick<br>Hook Boxes: 113mm high x 45mm wide x 17mm thick |
| Multipoint lock fixings    | 50mm x 5mm CSK screws  |

| Component                  | Reference/Specification  |
|----------------------------|--|
| Multipoint lock model      | Winkhaus Cobra M2  |
| Multipoint lock dimensions | Forend Plate: 1770mm long x 20mm wide x 3mm thick<br>Lock Body: 186mm long x 70mm wide x 17mm thick<br>Hook Boxes: 113mm high x 45mm wide x 17mm thick |
| Multipoint lock fixings    | 50mm x 5mm CSK screws  |

| Component                  | Reference/Specification  |
|----------------------------|--|
| Multipoint lock model      | Gretsch Unitas Secury Automatic  |
| Multipoint lock dimensions | Forend Plate: 1770mm long x 20mm wide x 3mm thick<br>Lock Body: 195mm long x 63mm wide x 17mm thick<br>Hook Boxes: 115mm high x 40mm wide x 17mm thick |
| Multipoint lock fixings    | 5mm x 80mm CSK screws (Top and Bottom)<br>4mm x 50mm CSK screws (Intermediate)   |

| Component                  | Reference/Specification  |
|----------------------------|--|
| Multipoint lock model      | Gretsch Unitas Secury Europa MR2   |
| Multipoint lock dimensions | Forend Plate: 2280mm long x 20mm wide x 3mm thick<br>Lock Body: 195mm long x 63mm wide x 17mm thick<br>Hook Boxes: 110mm high x 40mm wide x 17mm thick |
| Multipoint lock fixings    | 5mm x 80mm CSK screws (Top and Bottom)<br>4mm x 50mm CSK screws (Intermediate)   |

### 8.3 Lock Keeps/Strike Plates

| Component       | Reference/Specification      |
|-----------------|------------------------------|
| Keep model      | Winkhaus F24-908 Centre Keep |
| Keep dimensions | 235mm x 24mm                 |
| Keep fixings    | 3.5 x 25mm CSK screws        |

| Component       | Reference/Specification      |
|-----------------|------------------------------|
| Keep model      | Winkhaus F24-908 Outer Keeps |
| Keep dimensions | 175mm x 24mm                 |
| Keep fixings    | 3.5mm x 25mm CSK screws      |

| Component       | Reference/Specification                  |
|-----------------|--|
| Keep model      | Gretsch Unitas 6-3559002-0-1 Centre Keep |
| Keep dimensions | 195mm x 24mm                             |
| Keep fixings    | 3.5mm x 25mm CSK screws                  |

| Component       | Reference/Specification                   |
|-----------------|---|
| Keep model      | Gretsch Unitas 6-35591-02-0-1 Outer Keeps |
| Keep dimensions | 125mm x 24mm                              |
| Keep fixings    | 3.5mm x 25mm CSK screws                   |

#### 8.4 Handles/Cylinders

| Component        | Reference/Specification  |
|------------------|--|
| Handle model     | Lever on rose handle <sup>Note 9</sup>                               |
| Handle fixings   | 3.5mm x 25mm screws supplied with handle                             |
| Cylinder model   | YALE Kite-Marked Anti-Bump 30/30 Key/Turn cylinder <sup>Note 9</sup> |
| Cylinder fixings | M5 x 65mm screw supplied with cylinder                               |

| Component        | Reference/Specification  |
|------------------|--|
| Handle model     | Hoppe Tokyo Lever/Lever handle <sup>Note 9</sup>                     |
| Handle fixings   | M5 x 60mm screws as supplied with handle                             |
| Cylinder model   | YALE Kite-Marked Anti-Bump 30/30 Key/Turn cylinder <sup>Note 9</sup> |
| Cylinder fixings | M5 x 65mm screw supplied with cylinder                               |

| Component        | Reference/Specification  |
|------------------|--|
| Handle model     | Lever on rose handle <sup>Note 9</sup>                               |
| Handle fixings   | 3.5mm x 25mm screws supplied with handle                             |
| Cylinder model   | YALE Kite-Marked Anti-Bump 30/30 Key/Turn cylinder <sup>Note 9</sup> |
| Cylinder fixings | M5 x 65mm screw as supplied with cylinder                            |

| Component        | Reference/Specification                            |
|------------------|--|
| Handle model     | Fab and Fix Windsor lever handle <sup>Note 9</sup> |
| Handle fixings   | M5 x 70mm screws supplied with handle              |
| Cylinder model   | UAP KIN30T/30NAS <sup>Note 9</sup>                 |
| Cylinder fixings | M5 x 70mm screw as supplied with cylinder          |

| Component        | Reference/Specification                       |
|------------------|---|
| Handle model     | Salto XS4 One <sup>Note 9</sup>               |
| Handle fixings   | 3no. M5 x 60mm screws as supplied with handle |
| Cylinder model   | Tested without a cylinder                     |
| Cylinder fixings | Tested without a cylinder                     |

*Note 9 An alternative cylinder and handle combination can be used provided it meets the requirements of Technical Specification TS 007:2014 + A1:2015, produced by the Door and Hardware Federation.*



## 8.5 Letterplates

| Component               | Reference/Specification   |
|-------------------------|---|
| Letterplate model       | Soterian TS008 (UAP Ltd)  |
| Letterplate dimensions  | Letterplate external frame: 305mm long x 75mm high<br>Letterplate internal frame: 300mm long x 115mm high x 35mm projection<br>Letterplate cavity: 260mm long x 53mm high |
| Multipoint lock fixings | All fixings supplied with the letterplate   |

## 8.6 Concealed Door Closers

| Component                   | Reference/Specification   |
|-----------------------------|---|
| Concealed closer model      | Dorma ITS96 (2-4 Model)   |
| Concealed closer dimensions | Closer Body: 277mm long x 32mm wide x 42mm deep<br>Closer Slide Arm: 440mm long x 20mm wide x 12mm deep |
| Concealed closer fixings    | All fixings supplied with closer  |

| Component                   | Reference/Specification   |
|-----------------------------|---|
| Concealed closer model      | Gretsch Unitas Secury L-10002-06 (2-4 Model)  |
| Concealed closer dimensions | Closer Body: 277mm long x 32mm wide x 42mm deep<br>Closer Slide Arm: 440mm long x 20mm wide x 12mm deep |
| Concealed closer fixings    | All fixings supplied with closer  |

| Component                   | Reference/Specification   |
|-----------------------------|---|
| Concealed closer model      | Geze Boxer (2-4 model)  |
| Concealed closer dimensions | Closer Body: 240mm long x 32mm wide x 42mm deep<br>Closer Slide Arm: 440mm long x 20mm wide x 12mm deep |

| Component                | Reference/Specification          |
|--------------------------|----------------------------------|
| Concealed closer fixings | All fixings supplied with closer |

| Component                   | Reference/Specification   |
|-----------------------------|---|
| Concealed closer model      | Rutland ITS 11204   |
| Concealed closer dimensions | Closer Body: 243mm long x 32mm wide x 52mm deep<br>Closer Slide Arm: 464mm long x 33.5mm wide x 19mm deep |
| Concealed closer fixings    | All fixings supplied with closer  |

| Component                   | Reference/Specification  |
|-----------------------------|--|
| Concealed closer model      | Astra Door Control 4000 Series Jamb Closer   |
| Concealed closer dimensions | Closer Body: 213mm long x 28mm dia<br>Closer Forend Plates: 106/110mm high x 32mm wide x 3mm thick |
| Concealed closer fixings    | All fixings supplied with closer   |

## 9. PERIMETER SEALS

### 9.1 Intumescent Seals

| Component                    | Material/Type  | Location     | Dimensions  |
|------------------------------|----------------|--------------|---|
| Intumescent Seals<br>Note 10 | See note below | Frame Reveal | 1no. 15 x 4mm intumescent seal fitted adjacent to the door stop in the frame reveal |

*Note 10 Graphite based, Palusol or Lorient 617, pvc encased, seals manufactured by Mann McGowan Fabrications Ltd, Lorient Polyproducts Ltd, Intumescent Seals Ltd, Pyroplex or Sealed Tight Solutions may be employed across the complete range of door sizes and configurations approved herein. It is recommended that the intumescent seals are manufactured or supplied by members of the Intumescent Fire Seals Association (IFSA) or that the product is included in a Third Party Certification scheme, such as that provided by IFC Certification, to ensure product quality and consistency.*

## 9.2 Weather/Acoustic/Smoke Seals

| Component                           | Material/Type                          | Location         | Dimensions                                  |
|-------------------------------------|--|------------------|---|
| Weather Seal<br>Note 11             | Schlegel Aquamac<br>21 Note 13         | Frame reveal     | 11mm wide x 9mm high                        |
| Acoustic/Smoke Seal<br>Note 11 & 12 | FAS35 (Fire and<br>Acoustic Seals Ltd) | Frame reveal     | 12mm wide x 5mm thick                       |
| Dropseal                            | FAS45 (Fire and<br>Acoustic Seals Ltd) | Bottom door edge | 20mm high x 13mm thick x full<br>door width |

*Note 11 Alternative weather/acoustic/smoke seals may be used provided fire test evidence to BS476: Part 22: 1987 is available to demonstrate that the specified seals will not adversely affect the overall fire resistance of the timber door assemblies, when fitted in the proposed arrangements.*

*Note 12 Smoke seals, or combined intumescent/smoke seals (using the specification approved in Section 1.8.1), that have been tested in accordance with BS EN 1634-3: 2004 (ambient temperature) or BS476: Part 31: Section 31.1: 1983 and shown not to leak by more than 3m<sup>3</sup>/m/hr at 25Pa may be used in conjunction with the proposed door assemblies to provide smoke control.*

*The orientation of the seals, door edge gaps, degree of hardware interruption, and leaf configuration, will need to be as tested in accordance with BS EN 1634-3: 2004 (ambient temperature) or BS476: Part 31: Section 31.1: 1983 to achieve the desired level of smoke control, unless these conflict with the intumescent seal widths and positions as described in Section 9.1, in which case, the latter shall take precedence.*

*Note 13 The Schlegel Aquamac 21 seal may be included provided it does not flame for in excess of 10 seconds under fire test conditions.*

## 10. INSTALLATION

Installation of door assemblies to be in accordance with Section 3.10 in IFC Field of Application Report PAR/17180/01 Revision C and any additional requirements outlined in the PAS 24 reports referenced in Section 2.

## 11. CONCLUSION

It is the opinion of International Fire Consultants Ltd that if the proposed SecureSound Timber Door Assemblies were to utilise the configurations detailed within this summary document, they would satisfy the integrity criteria of BS476: Part 22: 1987 for 30 minutes and the Enhanced Security criteria of PAS24: 2016.

## 12. LIMITATIONS

This summary document addresses itself solely to the ability of the proposed SecureSound assemblies described to satisfy the criteria of the BS476 fire resistance test and PAS24: 2016 enhanced security test. It does not imply any suitability for use with respect to other unspecified criteria.

This document only considers the door assemblies described, herein, and assumes that the surrounding construction will provide no less restraint than the tested assemblies and that it will remain in place and be substantially intact for the full test period.

This report is issued on the basis of test data and information to hand at the time of issue. If contradictory evidence becomes available, IFC reserves the right to withdraw the report unconditionally but not retrospectively.

Where the constructional information in this report is taken from details provided to International Fire Consultants Ltd (IFC) and/or from test reports referenced herein, it is, therefore, limited to the information given in those documents. It is necessarily dependent upon the accuracy and completeness of that information. Where constructional or manufacturing details are not specified, or discussed, herein, it should not, therefore, be taken to infer approval of variation in such details from those tested or otherwise approved.

## 13. VALIDITY

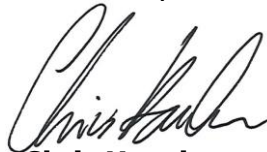
This summary document has been prepared based on International Fire Consultants Ltd's present knowledge of the products described, the stated testing regime and the submitted test evidence. For this reason, anyone using this document after June 2024 should confirm its ongoing validity.

Prepared by:



**Stephen Childs**  
Fire Safety Engineer  
International Fire Consultants Ltd. (IFC)

Checked by:



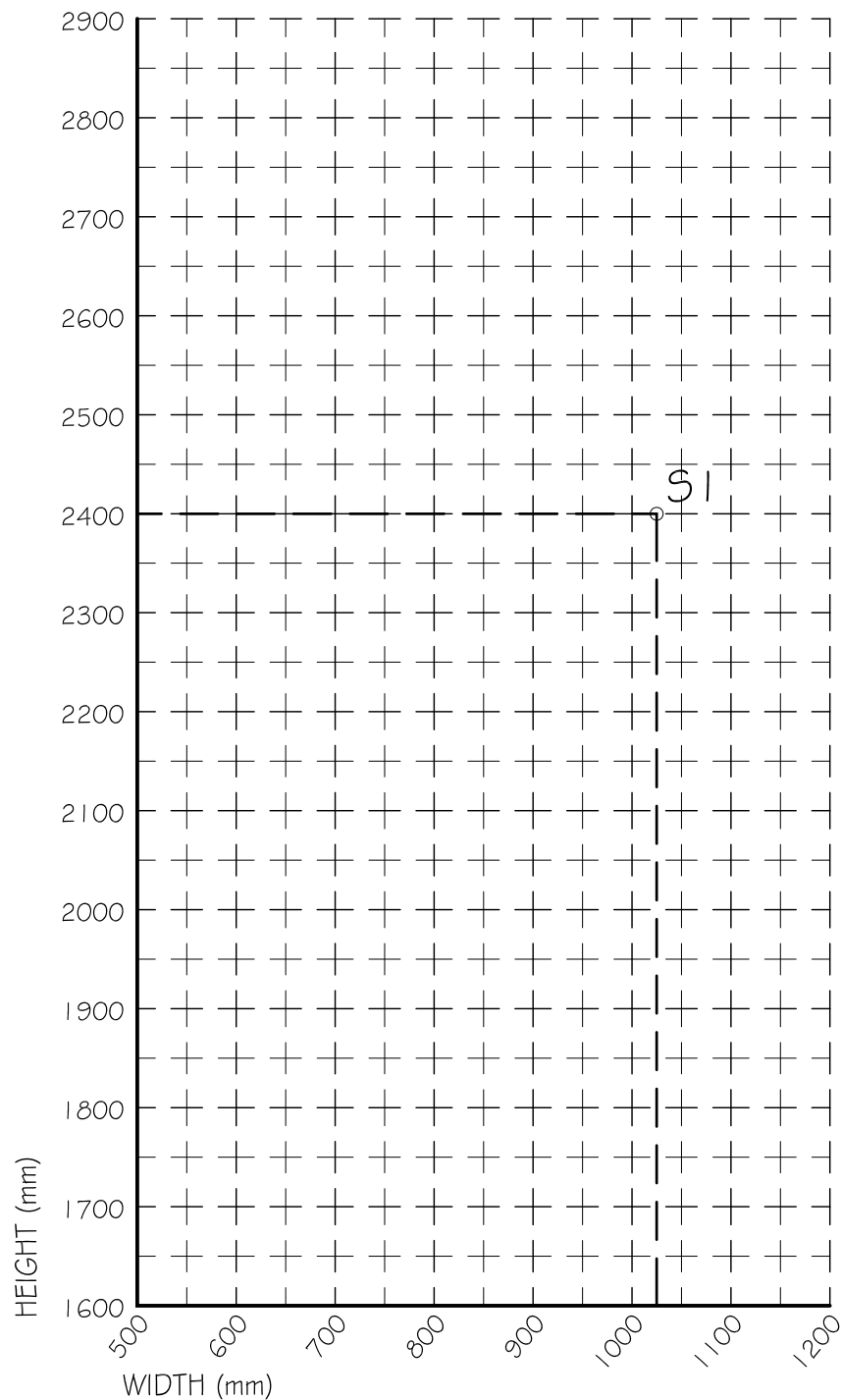
**Chris Houchen** BSc. AIFireE  
Associate Director  
International Fire Consultants Ltd. (IFC)

## **APPENDIX A**

**Figures SFS/17180/01:A01 to A04**

**Assessed Leaf Size Envelopes for  
SecureSound Timber Door  
Assemblies for FD30 Fire  
Resistance and PAS24 Enhanced  
Security**

***The figures in this Appendix are not included  
in the sequential page numbering of this report***



|                                    |      |
|------------------------------------|------|
| Flush Doors                        |      |
| -----                              |      |
|                                    | S1   |
| Width                              | 1025 |
| Height                             | 2400 |
| GRETSCH UNITAS<br>MULTIPOINT LOCKS |      |

## ENVELOPE OF APPROVED FLUSH DOOR LEAF SIZES

The above graph represents the envelope of approved leaf sizes for the proposed door leaf configuration.

Any combination of leaf width and height that falls within the graph axes and the connecting line on the graph are approved.

POINT S1 represents the maximum height and width of a flush door leaf in a timber frame. Gretsch Unitas Multipoint locks only. (As detailed in Section 8.2)

This figure forms part of International Fire Consultants Ltd's Summary Document SFS/17180/01, which contains full details of the assessed door construction.

|   |
|---|
| Configuration                           |
| Timber Frames Only - Flush Doors        |
| LATCHED<br>SINGLE ACTING<br>SINGLE LEAF |
| WITHOUT OVERPANEL                       |
| REQUIRED INTEGRITY : 30 Minutes         |

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Only work to dimensions stated on drawing.

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UK Doorsets Ltd  
SecureSound Timber Door Assemblies  
for FD30 Fire Resistance and  
PAS24 Enhanced Security

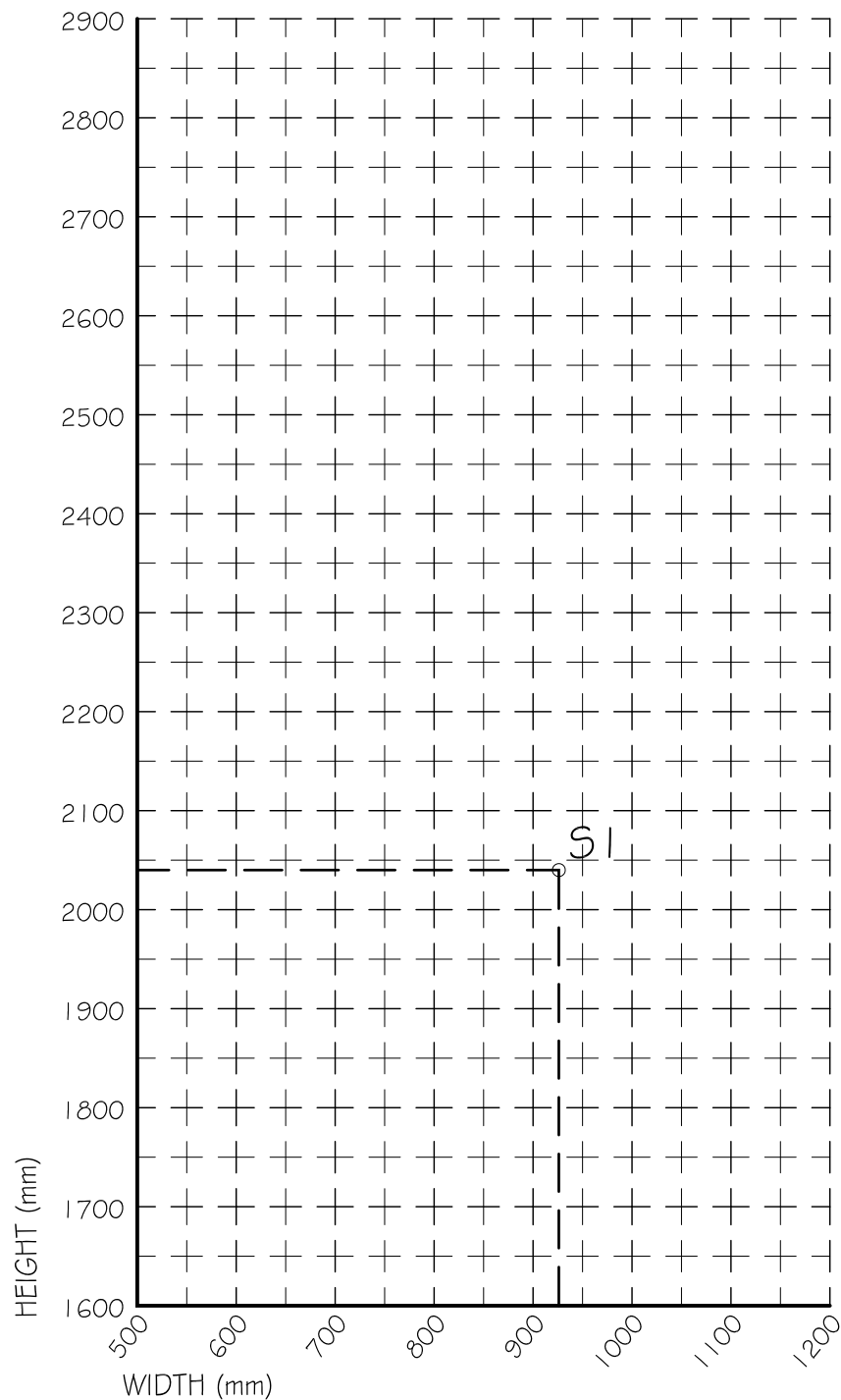
Envelope of Approved Flush  
Door Leaf Sizes In Timber  
Frames With Gretsch Unitas  
Multipoint locks only

Job number: 17180

Drawn by: CSP Checked by: SDC

Not To Scale Drawn: Jun 2019

SFS/17180/01:A01



|                                    |      |
|------------------------------------|------|
| Panelled Doors                     |      |
| -----                              |      |
|                                    | S1   |
| Width                              | 926  |
| Height                             | 2040 |
| GRETSCH UNITAS<br>MULTIPOINT LOCKS |      |

## ENVELOPE OF APPROVED PANELLED DOOR LEAF SIZES

The above graph represents the envelope of approved leaf sizes for the proposed door leaf configuration.

Any combination of leaf width and height that falls within the graph axes and the connecting line on the graph are approved.

POINT S1 represents the maximum height and width of a panelled door leaf in a timber frame. Gretsches Unitas Multipoint locks only. (As detailed in Section 8.2)

This figure forms part of International Fire Consultants Ltd's Summary Document SFS/17180/01, which contains full details of the assessed door construction.

|   |
|---|
| Configuration                           |
| Timber Frames Only - Panelled Doors     |
| LATCHED<br>SINGLE ACTING<br>SINGLE LEAF |
| WITHOUT OVERPANEL                       |
| REQUIRED INTEGRITY : 30 Minutes         |

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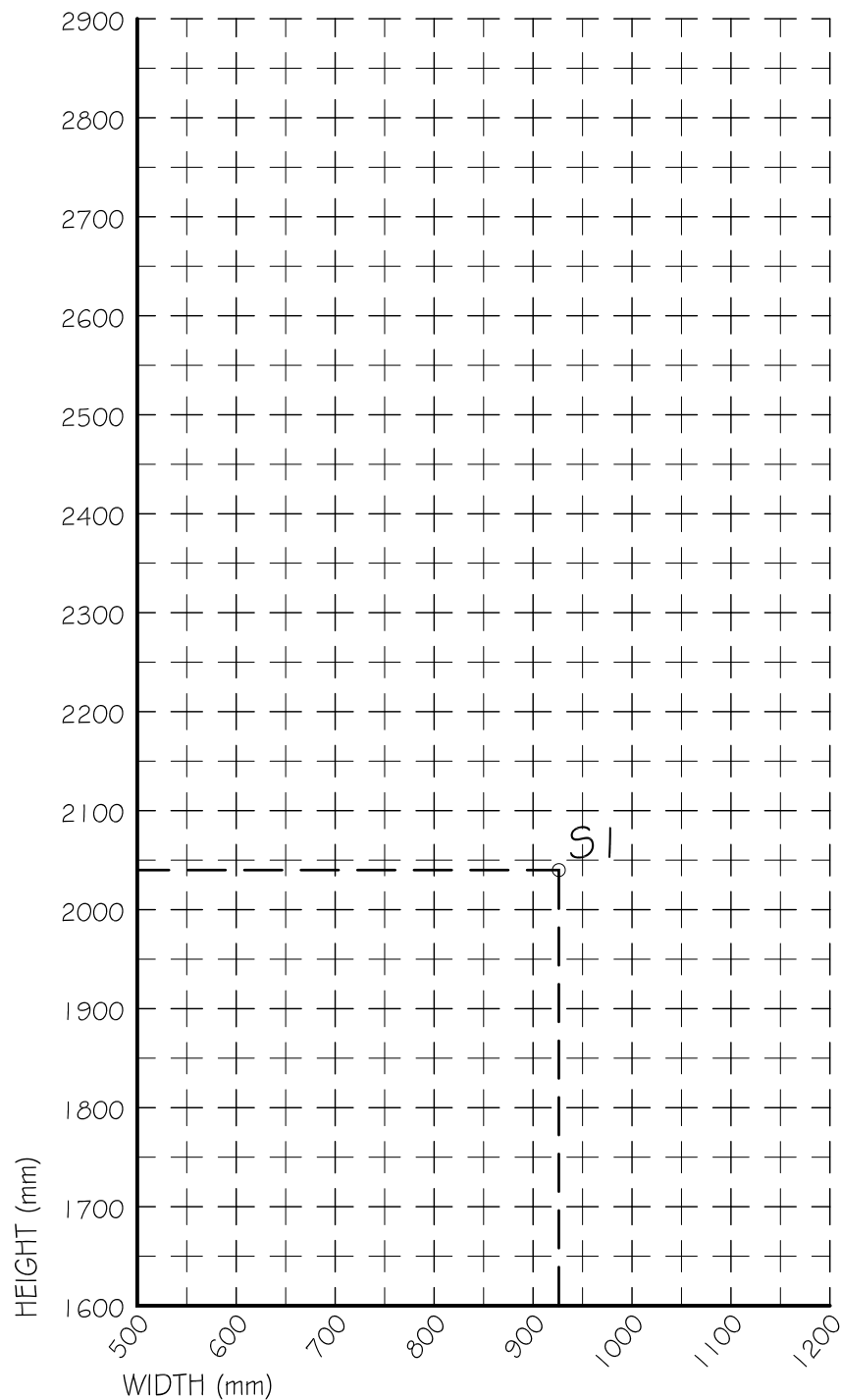
Envelope of Approved Panelled  
Door Leaf Sizes In Timber  
Frames With Gretsches Unitas  
Multipoint locks only

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SFS/17180/01:A02



|                             |             |
|-----------------------------|-------------|
|                             | Flush Doors |
|                             | -----       |
|                             | S1          |
| Width                       | 926         |
| Height                      | 2040        |
| WINKHAUS<br>MULTIPOINT LOCK |             |

## ENVELOPE OF APPROVED FLUSH DOOR LEAF SIZES

The above graph represents the envelope of approved leaf sizes for the proposed door leaf configuration.

Any combination of leaf width and height that falls within the graph axes and the connecting line on the graph are approved.

POINT S1 represents the maximum height and width of a flush door leaf in a timber frame. Winkhaus Multipoint locks only. (As detailed in Section 8.2)

This figure forms part of International Fire Consultants Ltd's Summary Document SFS/17180/01, which contains full details of the assessed door construction.

|   |
|---|
| Configuration                           |
| Timber Frames Only - Flush Doors        |
| LATCHED<br>SINGLE ACTING<br>SINGLE LEAF |
| WITHOUT OVERPANEL                       |
| REQUIRED INTEGRITY : 30 Minutes         |

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Multipoint locks only

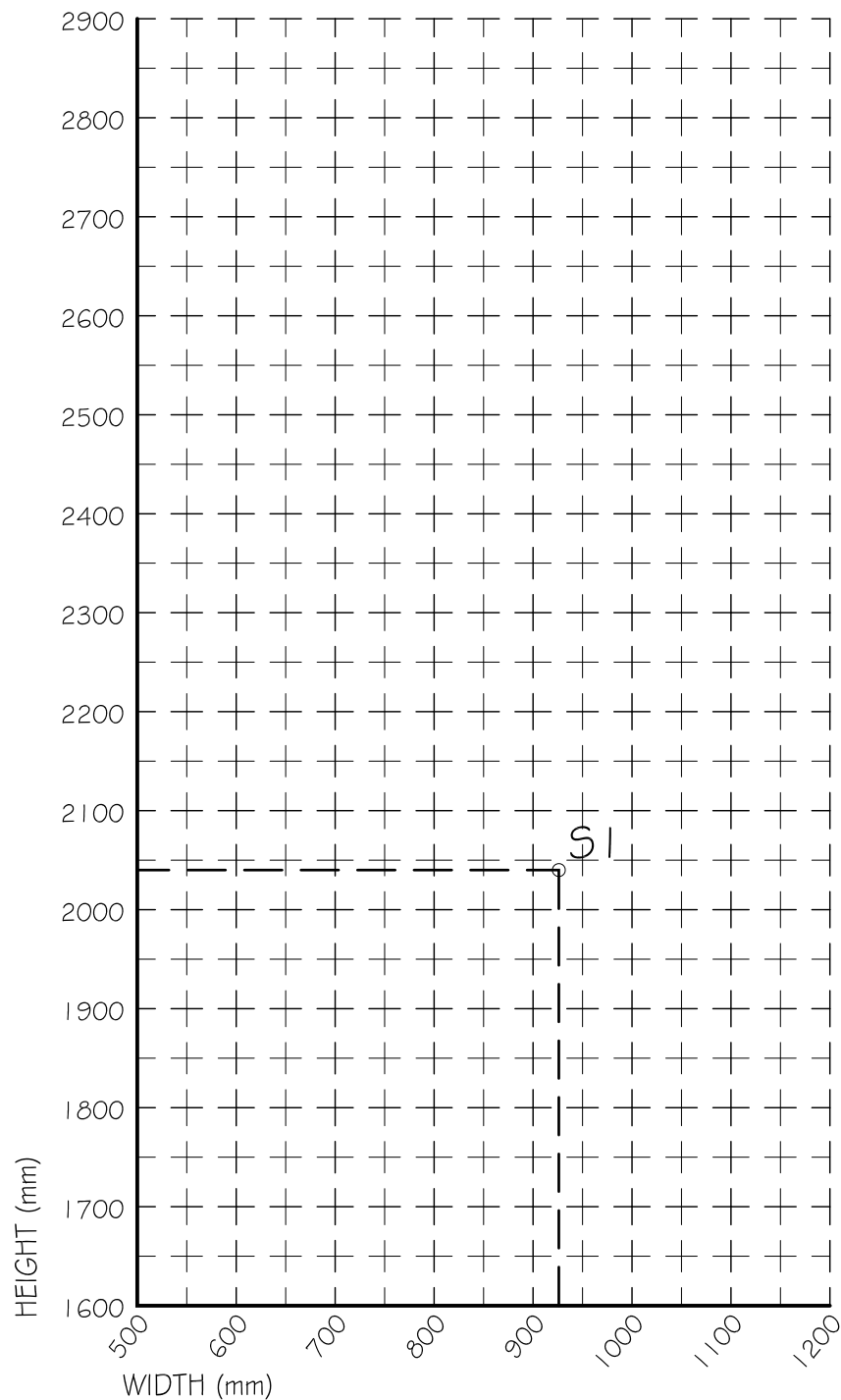
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SFS/17180/01:A03





|                             |                |
|-----------------------------|----------------|
|                             | Panelled Doors |
|                             | — — — — —      |
|                             | S1             |
| Width                       | 926            |
| Height                      | 2040           |
| WINKHAUS<br>MULTIPOINT LOCK |                |

## ENVELOPE OF APPROVED PANELLED DOOR LEAF SIZES

The above graph represents the envelope of approved leaf sizes for the proposed door leaf configuration.

Any combination of leaf width and height that falls within the graph axes and the connecting line on the graph are approved.

POINT S1 represents the maximum height and width of a panelled door leaf in a timber frame. Winkhaus Multipoint locks only. (As detailed in Section 8.2)

This figure forms part of International Fire Consultants Ltd's Summary Document SFS/17180/01, which contains full details of the assessed door construction.

|   |
|---|
| Configuration                           |
| Timber Frames Only - Panelled Doors     |
| LATCHED<br>SINGLE ACTING<br>SINGLE LEAF |
| WITHOUT OVERPANEL                       |
| REQUIRED INTEGRITY : 30 Minutes         |

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Job number: 17180

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SFS/17180/01:A04