INTERNATIONAL FIRE CONSULTANTS LIMITED

PRIVATE & CONFIDENTIAL

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

Prepared on behalf of:

UK Doorsets Ltd
Unit 21 Spartan Industrial Estate
Brickhouse Lane
Great Bridge
West Midlands
B70 0DH

IFC Ref: #17180
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International Fire Consultants Ltd
Head & Registered Office: 20 Park Street, Princes Risborough, Buckinghamshire, England HP27 9AH
Tel: +44(0)1844 275500, Fax: +44(0)1844 274002, E-mail: info@ifcgroup.com
Registered No: 2194010 England
An International Fire Consultants Group Company

ISSUE AND AMENDMENT RECORD

Rev	Date	Author	Review	Section	Amendments
Drafts	March-June 2019	SDC	DC	-	-
-	June 2019	SDC	CPH	-	-

CONTENTS

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

BS476: Part 22: 1987, BS EN 1634-1:2008 and BS EN 1634-1:2014	**PAS24**	**PAS23**
• CFR1610051 • CFR1609301 • WF312693 • WF196756B • WF198436 • CFR1406061 • WF346351 • CFR1803082 • CFR1703061 • WF386959 Revision A • WF389552 • WF392262 • WF354581 • CFR1901031	• Winkhaus TR1326A • Winkhaus TR1327A • Winkhaus TR1349A • Exova WIL379024 • Exova WIL393442	• Winkhaus TR1327B • Winkhaus TR814A • Winkhaus TR815A1 • Winkhaus TR1326B

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
 • **Latched** • **Single acting** • **Single door** • **Without overpanel** • **Flush doors only** • **Hardwood frames only** • **Gretsch Unitas multipoint locks only**	**Figure SFS/17180/01: A01 in Appendix A**

Configuration	Envelope of Approved Leaf Size
 • **Latched** • **Single acting** • **Single door** • **Without overpanel** • **Panelled doors only** • **Hardwood frames only** • **Gretsch Unitas multipoint locks only**	**Figure SFS/17180/01: A02 in Appendix A**

Configuration	Envelope of Approved Leaf Size
 • **Latched** • **Single acting** • **Single door** • **Without overpanel** • **Flush doors only** • **Hardwood frames only** • **Winkhaus multipoint locks only**	**Figure SFS/17180/01: A03 in Appendix A**

Configuration	Envelope of Approved Leaf Size
 • **Latched** • **Single acting** • **Single door** • **Without overpanel** • **Panelled doors only** • **Hardwood frames only** • **Winkhaus multipoint locks only**	**Figure SFS/17180/01: A04 in Appendix A**

4. LEAF CONSTRUCTIONS

4.1 Option A – SecureSound Flush Door Construction

Component		Material		Density	Dimensions
Core		Homogenous solid sheet of particleboard		540kg/m³	44mm thick
Lippings	Square edges	Hardwood		640kg/m³	20mm thick (stiles) 10mm thick (top and bottom edges)
Lipping adhesive		PU 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		

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/m³	43mm thick reduced to min 22mm in the moulded areas
Facings	MDF skin	795kg/m³	Minimum 3mm thick
Facing adhesive	Polyurethane adhesive	–	–

Component		Material		Density	Dimensions
Lippings	Square edges	Hardwood		640kg/m³	20mm thick (stiles) 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/m³	43mm thick
Facings		MDF Skin		795kg/m³	Minimum 3mm thick
Facing adhesive		Polyurethane adhesive		–	–
Lippings	Square edges	Hardwood		640kg/m³	20mm thick (stiles) 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/m³	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/m³	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/m³	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/m³	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 Note 1, 2 and 3	-	-
Glazing system	Security foam glazing tape (various manufacturers) Note 1	-	18mm wide x 5mm thick
Glazing bead	Hardwood Refer to Figure 1, below.	640kg/m³	20mm high x width to suit (not including a 4mm bolection return)
Glazing bead fixings (Security risk side)	Screws Fixed at 50mm from corners and at maximum 150mm	-	4 x 50mm

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

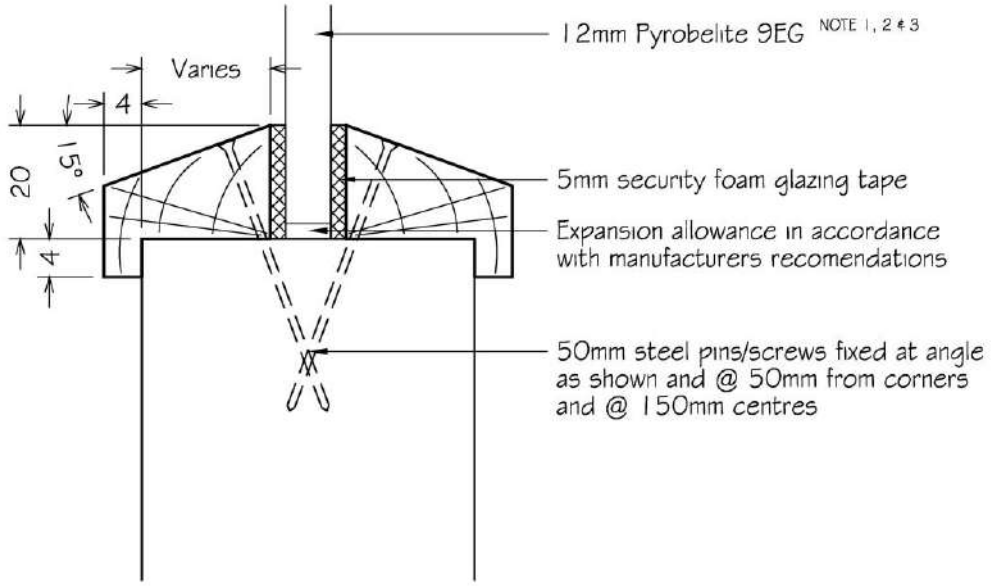


Figure 1

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^2 Note 4
Maximum area of single aperture	0.57m^2
Maximum height of aperture	1481mm (with corresponding width of 385mm)
Maximum width of aperture	626mm (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^2.*

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^3	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 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^3	25mm high x width to suit

Component	Material/Type	Density	Dimensions
Glazing bead (Non-security risk side)	Hardwood – loose bead	640kg/m³	25mm high x width to suit
Glazing bead fixings Option 1	Steel pins Fixed at 50mm from corners and at maximum 150mm centres Note 8	-	50mm long x 1.8mm dia
Glazing bead fixings Option 2	Steel screws Fixed at 50mm from corners and at maximum 150mm centres Note 8	-	4mm x 50mm long

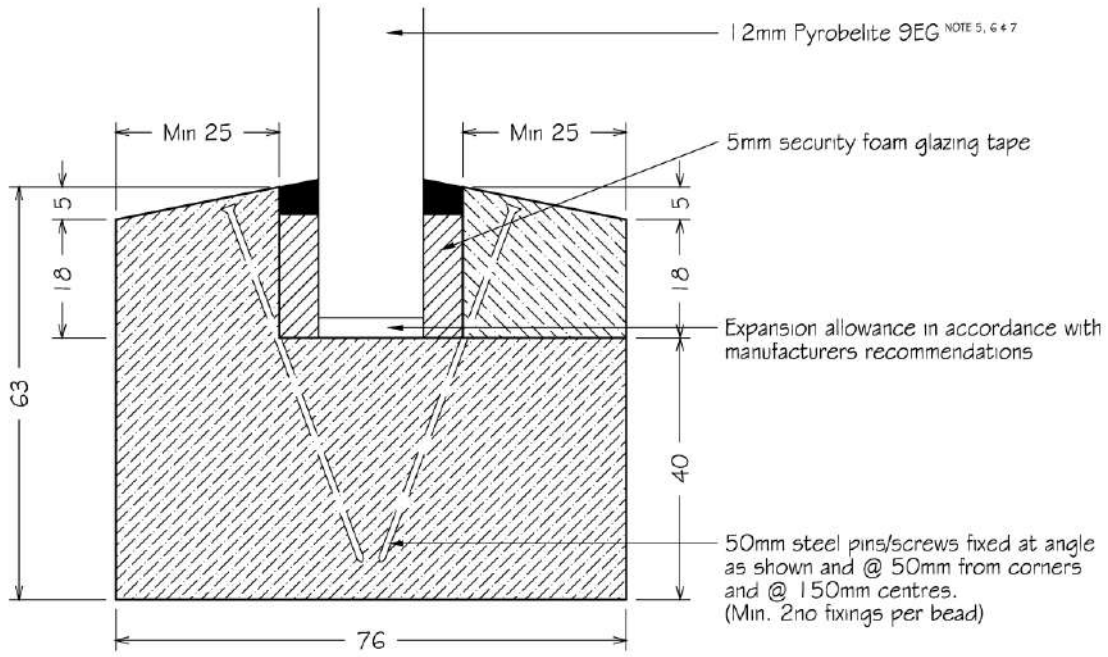


Figure 2

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 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 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 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 Lock Body: 186mm long x 70mm wide x 17mm thick 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 Lock Body: 186mm long x 70mm wide x 17mm thick 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 Lock Body: 186mm long x 70mm wide x 17mm thick 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 Lock Body: 195mm long x 63mm wide x 17mm thick Hook Boxes: 115mm high x 40mm wide x 17mm thick
Multipoint lock fixings	5mm x 80mm CSK screws (Top and Bottom) 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 Lock Body: 195mm long x 63mm wide x 17mm thick Hook Boxes: 110mm high x 40mm wide x 17mm thick
Multipoint lock fixings	5mm x 80mm CSK screws (Top and Bottom) 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 Note 9
Handle fixings	3.5mm x 25mm screws supplied with handle
Cylinder model	YALE Kite-Marked Anti-Bump 30/30 Key/Turn cylinder Note 9
Cylinder fixings	M5 x 65mm screw supplied with cylinder

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

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

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

Component	Reference/Specification
Handle model	Salto XS4 One Note 9
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 Letterplate internal frame: 300mm long x 115mm high x 35mm projection 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 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 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 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 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 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 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 Note 11	Schlegel Aquamac 21 Note 13	Frame reveal	11mm wide x 9mm high
Acoustic/Smoke Seal Note 11 & 12	FAS35 (Fire and Acoustic Seals Ltd)	Frame reveal	12mm wide x 5mm thick
Dropseal	FAS45 (Fire and Acoustic Seals Ltd)	Bottom door edge	20mm high x 13mm thick x full 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 $3m^3/m/hr$ 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:

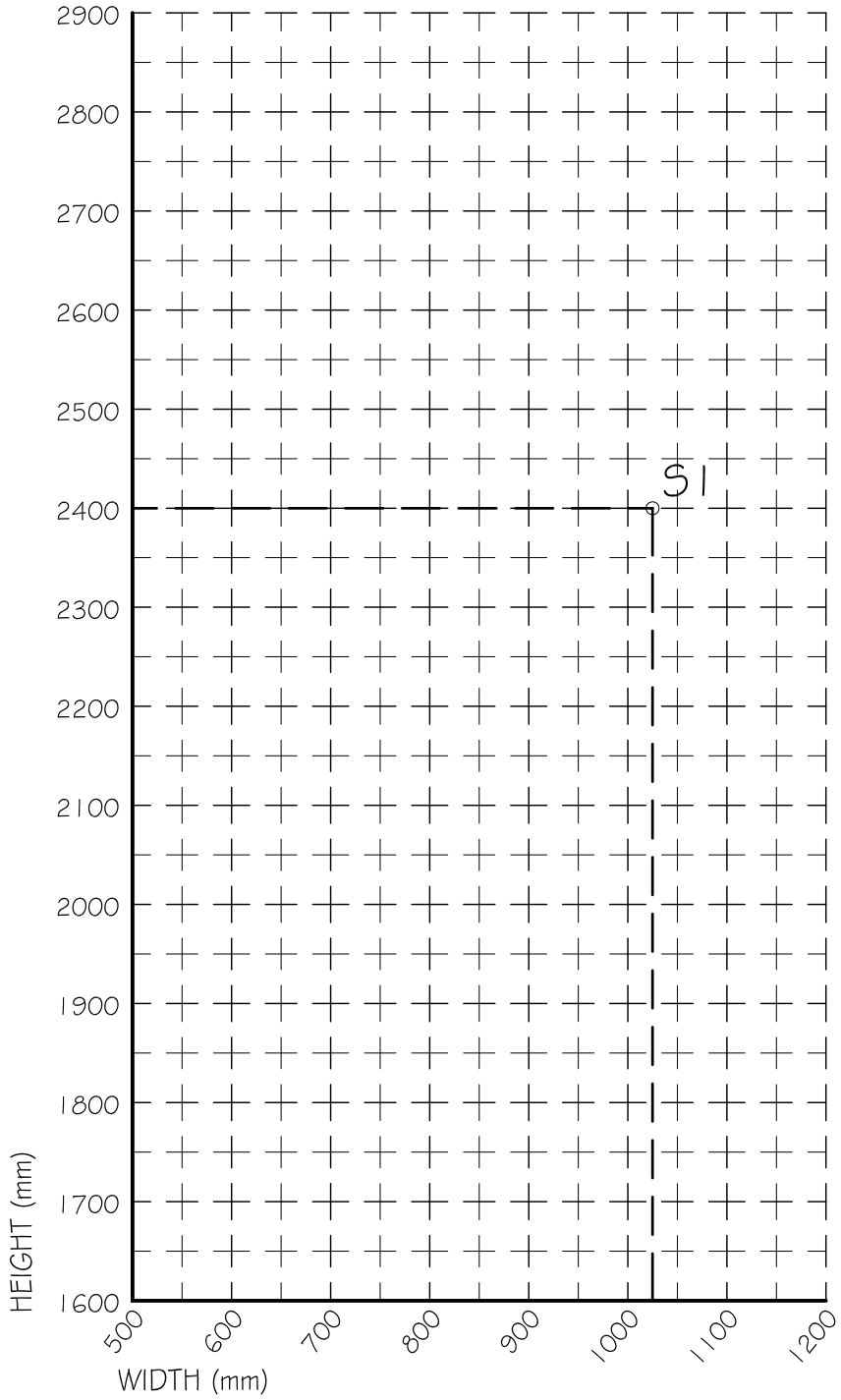
Chris Houchen BSc. AIFireE
Associate Director
International Fire Consultants Ltd. (IFC)

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 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
SINGLE ACTING
SINGLE LEAF

WITHOUT OVERPANEL

REQUIRED INTEGRITY : 30 Minutes

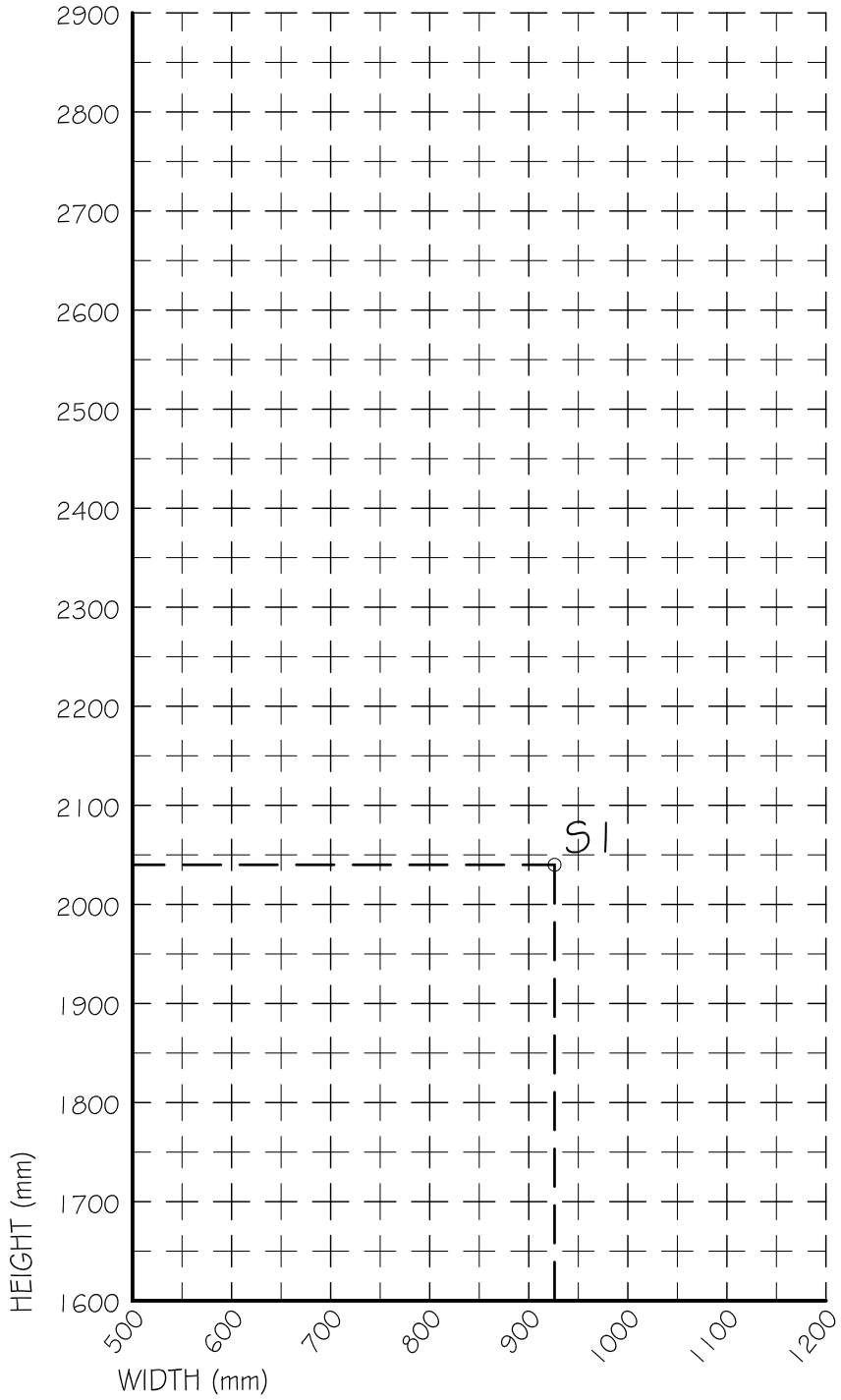
INTERNATIONAL FIRE CONSULTANTS LTD
20 Park Street
PRINCES RISBOROUGH
Buckinghamshire
HP27 9AH
United Kingdom
Tel: +44 (0) 1844 275500
Fax: +44 (0) 1844 274002
Email: ifc@intfire.com
Website: http://www.intfire.com

IFC Summary Document
SFS/17180/01
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 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. 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 - Panelled Doors

LATCHED
SINGLE ACTING
SINGLE LEAF

WITHOUT OVERPANEL

REQUIRED INTEGRITY : 30 Minutes

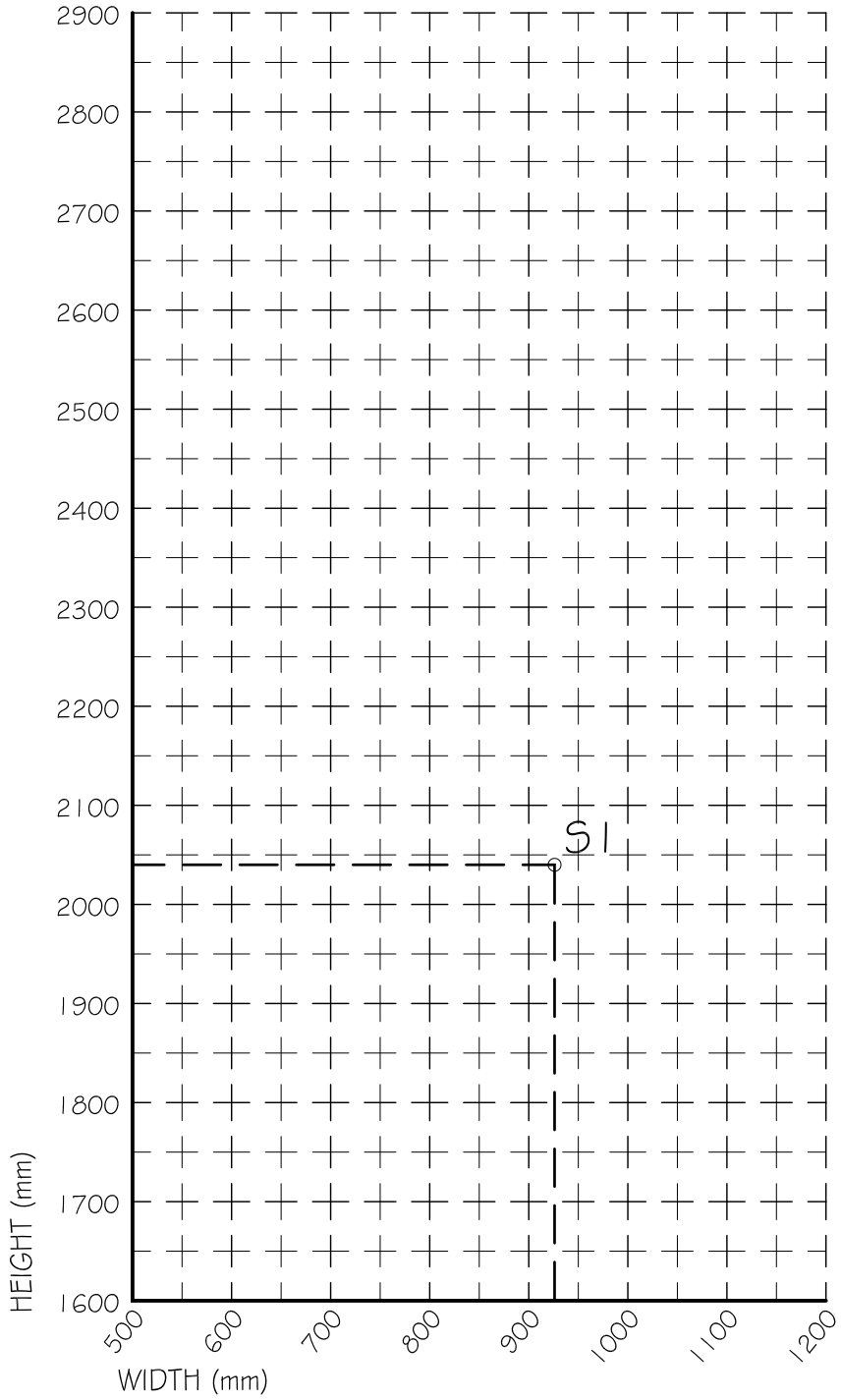
INTERNATIONAL FIRE CONSULTANTS LTD
20 Park Street
PRINCES RISBOROUGH
Buckinghamshire
HP27 9AH
United Kingdom
Tel: +44 (0) 1844 275500
Fax: +44 (0) 1844 274002
Email: ifc@intfire.com
Website: http://www.intfire.com

IFC Summary Document
SFS/17180/01
UK Doorsets Ltd
SecureSound Timber Door Assemblies for FD30 Fire Resistance and PAS24 Enhanced Security

Envelope of Approved Panelled 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:A02



Flush Doors	
	S1
Width	926
Height	2040
WINKHAUS 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
SINGLE ACTING
SINGLE LEAF

WITHOUT OVERPANEL

REQUIRED INTEGRITY : 30 Minutes

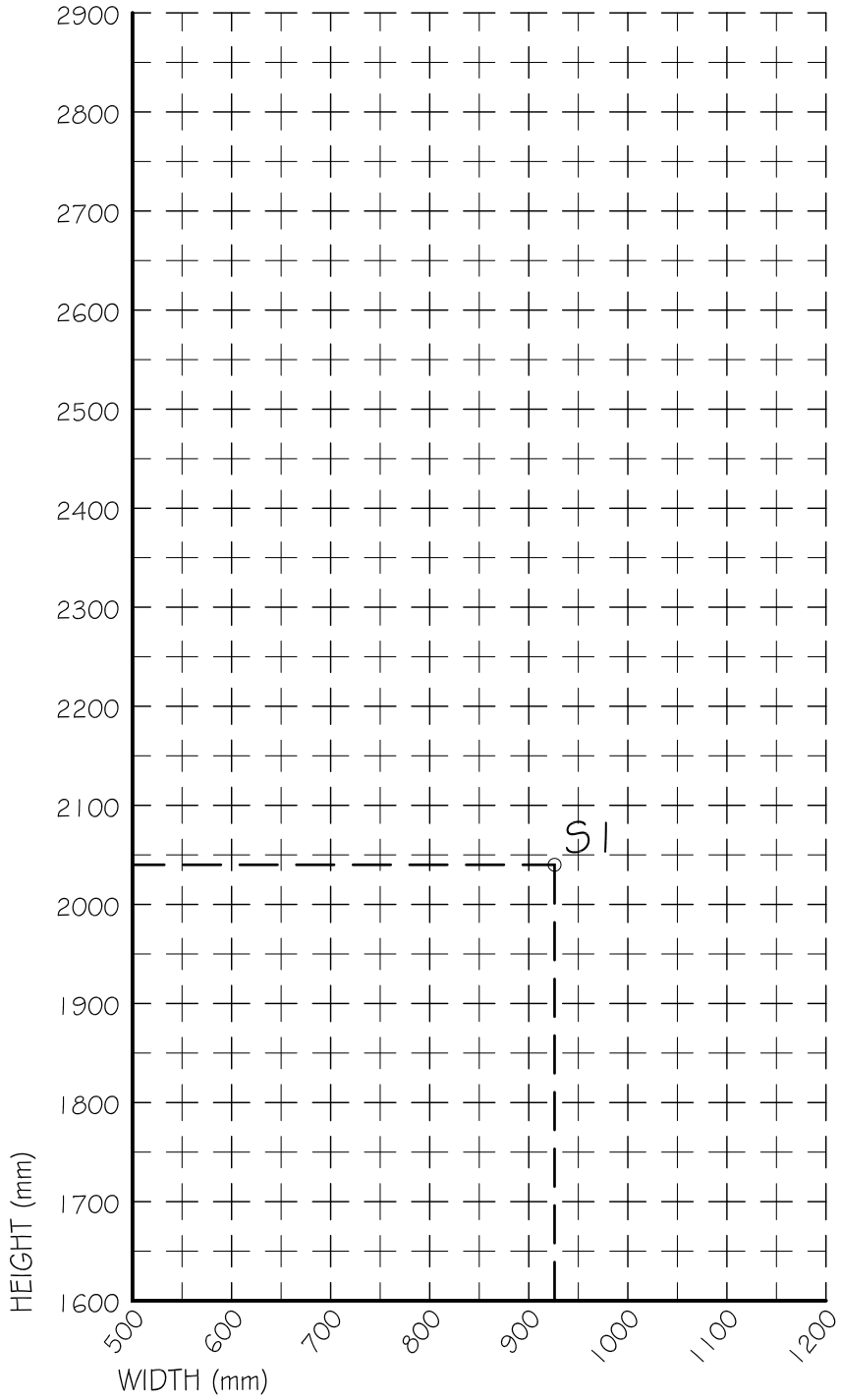
INTERNATIONAL FIRE CONSULTANTS LTD
20 Park Street
PRINCES RISBOROUGH
Buckinghamshire
HP27 9AH
United Kingdom
Tel: +44 (0) 1844 275500
Fax: +44 (0) 1844 274002
Email: ifc@intfire.com
Website: http://www.intfire.com

IFC Summary Document
SFS/17180/01
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 Winkhaus Multipoint locks only

Job number: 17180	
Drawn by: CSP	Checked by: SDC
Not To Scale	Drawn: Jun 2019

SFS/17180/01:A03



Panelled Doors	
	S1
Width	926
Height	2040
WINKHAUS 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
SINGLE ACTING
SINGLE LEAF

WITHOUT OVERPANEL

REQUIRED INTEGRITY : 30 Minutes

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Job number: 17180	
Drawn by: CSP	Checked by: SDC
Not To Scale	Drawn: Jun 2019

SFS/17180/01:A04