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Title

Field of Application for: Strebord® & Stredor® Range of Doorsets in Timber Based Door Frames

For 30 minutes Fire Resistance

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WF407090 Revision C

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The version/revision stated on the front of this Field of Application supersedes all previous versions/revisions and must be used to manufacture doorsets from the stated validity date on this front cover. Previous revisions of the Field of Application cannot be used once an updated Field of Application has been issued under a new revision.

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10 Hardware

10.1 General

The following section details the permitted scope and constraints for fitting hardware to this door design. The following items of hardware must also bear the UKCA or CE Mark in addition to the requirements outlined in the following sections. The UKCA or CE mark must indicate that the hardware is suitable for fire doors in the classification code and declaration of performance issued by the hardware manufacturer:

- Latches & locks: Test Standard EN 12209
- Single axis hinges: Test Standard EN 1935
- Controlled door closing devices: Test Standard EN 1154
- Electrically powered hold-open devices: Test Standard EN 1155

Where an item of hardware is not covered by the scope of a relevant harmonised or designated standard, and cannot therefore be UKCA or CE Marked, inclusion of the hardware is not permitted within the doorset design, unless it is specifically identified within the appropriate section of this Field of Application. All items of hardware must be fitted in accordance with requirements of this assessment.

The following sections consider what tested and assessed alternative items of essential and non-essential hardware can be used on the doorset range.

Items of hardware have been considered and approved via the following means:

- The component has been successfully tested to BS 476: Part 22: 1987 or BS EN 1634-1 in a suitably similar type of doorset e.g., timber leaf in timber frame
- As a result of an assessment of the appropriateness of the item of hardware, based on test evidence not commissioned by Falcon Timber Limited.
- As a result of the CERTIFIRE approval of the item of hardware

Each section will consider the named item of hardware and detail if there are any limitations associated with:

- Leaf size
- Configuration
- Intumescent seals
- Intumescent protection
- Frame configuration requirements

No item of hardware should be within 200mm of another item of hardware unless there is test evidence to demonstrated they can be in closer proximity.

Hardware items should generally be fitted in accordance with the manufacturer's instructions. **However, the parameters and requirements of this assessment always take precedence, including specified protection such as hardware gaskets.** Referenced CERTIFIRE approved hardware may be incorporated subject to the design, material and dimensional limitations identified within this assessment report and identified on the relevant CERTIFIRE certificate.





10.2 Intumescent to Hardware

The intumescent materials used to protect hardware that have been tested and assessed for this doorset design are detailed below. Note that any one of the product/manufacturer options listed in the table may be used in the specific application noted. However, only 1No manufacturer should be considered per doorset application.

The door gap perimeter intumescent seal specifications are documented in conjunction with the leaf envelope size limitations in section 4.

Hardware Intumescent Specification				
ltem	Location	Product/Manufacturer		
Hinges	Under each hinge blade	Not required.		
	Under keeps			
	Under forend			
Lock/latches	Encasing centre lock body	See details for each specific item as detailed		
	Encasing top and bottom lock bodies			
	Encasing lock motor box (if applicable)			
Concealed overhead closers Encasing the entire body of the concealed closer and slide arm including the back surface of the face plate		See details for each specific item as detailed within section 10.7.1		

Gaskets must be fitted where required by supporting evidence, for example, test evidence or Certificates. If gaskets are not required by the supporting evidence but are within this Field of Application, the requirements of this Field of Application take precedence.

Where it is stated that intumescent is not required for a particular element of hardware, it is permitted to use up to 2mm thick MAP, Interdens or graphite-based gasket tested for the particular application [as appropriate for the hardware]. It is the opinion of Warringtonfire that the additional protection will not detract from the fire resistance performance under test conditions.



10.3 Essential Hardware

The following table details the essential hardware for the various doorset configurations that are referenced in this assessment.

Configuration	Hardware
LSASD	 Latch Handle Hinges Self-closing device (closer)

10.4 Latches & Locks

10.4.1 Latches & Locks – Multi Point Engagement

The table below details the tested multi point latch that is approved.

Element	Manufacturer & Product Reference	Minimum Intumescent Protection		
Locks & latches	 ERA Surefire Classic 2 Hook (Complete with electric motor box) – WF391032, WF391843 & WF416690 Issue 2 	1mm (t) Sealed Tight Solutions Ltd, Graphite. Applied encasing the centre lock case & under all keeps.		
	 Winkhaus AV2 L-A Multipoint lock – WF402305 	1mm (t) Norseal, NOR910, Graphite applied encasing top, bottom & centre lock cases within the leaf, under forend & under latch keeps.		
	 Winkhaus AV3 Autofire Multipoint lock – WF414162 	1mm (t) Interdens® encasing top, bottom and centre lock cases within the leaf & applied under keeps.		
	 Yale Lockmaster Autoengage 2LB Classic 45mm – WF432578 	1mm (t) Interdens® encasing top, bottom and centre lock cases within the leaf & applied under keeps.		

- 1. The top and bottom hook locks need to be engaged for fire performance.
- 2. Intumescent protection shall be as detailed within section above, underneath the latch body, keeps or forend as appropriate.
- 3. The centre, top and bottom keep plates must be the same as those tested, as supplied by the manufacturer.
- 4. In all instances the location of the handle must be between 950–1050mm from the threshold. The multi point latch forend must finish a minimum of 50mm away from the edge of the leaf at the top and bottom, this is likely to restrict the minimum size permitted by this assessment.
- 5. It is possible to consider the application of a lock motor where applicable for the associated lockset, providing the motor case is no greater than 200mm high x 40mm wide x 18mm thick, when applied the lock motor must be fully encased with the same intumescent as detailed for the centre lock case.



10.4.2 Cylinders

The table below details the tested cylinders that are approved.

Element	Manufacturer & Product Reference		
Cylinder	 UAP 70mm Key/thumb turn cylinder Ref. ZL30T/30CAS – WF414882 Yale Platinum 3* – WF432578 		

Alternatively, components with the following specification are also deemed acceptable.

- Where required for use with multi point latches, the cylinder must be constructed of either brass or steel with a melting point in excess of 800°C.
- The cylinder must be compatible with the lock/latch.
- Cylinder dimensions may be up to 33mm high x 17mm wide at the maximum dimension and shall be euro profile.
- Single and double cylinders, along with cylinder & turn are permitted.
- Door preparation for single cylinders shall penetrate only half the door thickness.
- Intumescent protection and tightness of fitting:
 - If the lock body is protected with an intumescent material, maximum clearance between leaf and cylinder is 3mm to each edge.
 - 1mm thick MAP or non-pressure forming graphite intumescent around the cylinder is optionally permitted.

10.4.3 Cable Ways & Cable Loops

Test WF391032 incorporated a cableway drilled through the leaf in combination with the ERA Surefire multipoint latch in a Strebord® 54 door assembly. It is therefore permitted to include cableways within leaf types 3 (Strebord® 54) and 4 (Stredor® 54) leaves, only.

The cableway must be concealed in the following way:

- 1. A hole drilled centrally through the leaf thickness of maximum 10mm diameter and lined with Sealed Tight Solutions Ltd 'Cable-Pro'.
- 2. The cable for the electronic closing/latching mechanisms must be no more than 2mm smaller in diameter than the hole through the leaf.
- 3. The cable for the electronic closing/latching mechanism must be PVC encased.
- 4. The hole must be located below 1500mm from the threshold and must be spaced a minimum of 90mm from any apertures within the leaf, e.g., glazing or letter plates, etc.
- 5. Cableways must not continue behind grooves on the leaf faces.
- 6. 2mm thick Sealed Tight Solutions Ltd raw graphite must be fitted lining each cheek of the cable loop body, protection is not required to the rear of the cable loop case.



10.5 Handles

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The table below details the tested handles that are approved.

Element	Manufacturer & Product Reference					
Handles	 Fab & Fix Balmoral Inline Lever Lever 1A000 – WF391032 Stanza ZPZ090SC – EFR-18-H-003671 Saphire Hardware ZAA030 Lever type handle and escutcheon – WF402305 ERA 1X000 – Stainless Steel Handle – WF416690 Issue 2 Serozzetta Plaza Stainless Steel Lever Handle & Smith and Lock Escutcheon ref. 4378H – WF414162 Hoppe Amsterdam Stainless Steel Inline lever type handle – WF414882 Yale – 0757-2003-CH-CH Inline Lever Handle – WF432578 					

Alternatively, components with the following specification are also deemed acceptable.

• The handle or escutcheon may be any size up to 240mm high x 35mm wide or a maximum of Ø52mm. The handle or escutcheon must be compatible with the lock/latch and cylinder (if required), such that the closing action of the doorset is not impeded.



10.6 Butt Hinges

The table below details the tested butt hinges that are approved.

Element	Manufacturer & Product Reference				
Hinges	1. Royde & Tucker Hi-Load 101 – WF386959				
	2. Royde & Tucker H207 – EFR-18-H-003671				
	3. Royde & Tucker Hi-Load 102 – WF402305				
	4. Zoo – ZHSS243RS – WF416690 Issue 2				
	5. Vier Stainless Steel Lift Off VLHL243RS & VLHR243RS – WF414882				
	6. Eurospec HIN 1433/13 – WF432578				

Alternatively, components with the following specification are also deemed acceptable.

Element	Specification		
Blade height:	90 - 102mm		
Blade width (excluding knuckle):	30 - 35mm		
Blade thickness	2.5 - 4mm		
Fixings:	Minimum of 4No. Ø5mm x 30mm long fully threaded 'twinfast' or chipboard screws per blade		
Materials:	Steel or stainless steel		

The doorset shall be hung on a minimum of 3No. hinges with no greater than 4No. hinges being applied, as required. In all instances, the hinges must have the following specification.

Element	Specification		
	Тор	140-180mm from the head to top of hinge	
Hinge Positions	2 nd (& 3 rd when applied)	Equispaced between top and bottom or 2 nd hinge 200mm from top hinge and when applied 3 rd hinge equally spaced between 2 nd and bottom hinge	
	Bottom	180 - 250mm from the foot of leaf to bottom of hinge	
Intumescent protection:	See section 10.2		

Note:

It is also permitted to use screw fixings as tested and supplied with the hinges approved for the Strebord® and Stredor® designs at 30 minutes fire resistance referenced specifically within the tables above.



10.7 Doorset Self Closing

Doorset automatic self-closing can be provided by:

- Overhead face fixed closers
- Concealed jamb mounted closers
- Concealed overhead closers

Automatic doorset self-closing devices such as transom mounted, and offset pivots used with floor springs are not considered acceptable for use with the doorset range.

10.7.1 Overhead Face Fixed Closer

The table below details the tested overhead face-fixed closers that are approved.

Element	Manufacturer & Product Reference
Overhead face- fixed closers	 Hoppe AR1500 – WF416690 Issue 2 Rutland TS.9205 – WF414882

Alternatively, components with the following specification are also deemed acceptable.

• CERTIFIRE approved overhead face-fixed closers for 30-minute fire resistance applications on 44mm thick timber door and timber frames

Note:

It must be ensured that the closer is of sufficient strength and power to ensure the door leaf/leaves fully engage into the frame reveal.

10.7.2 Frame Jamb Mounted Closer

The table below details the tested concealed jamb mounted closers that are approved.

Element	Manufacturer & Product Reference
Jamb mounted concealed closer	1. Astra 4000 – WF402305

Alternatively, components with the following specification are also deemed acceptable.

• CERTIFIRE approved jamb mounted concealed closer for 30-minute fire resistance applications on 44mm thick timber door and timber frames

- 1. It must be ensured that the jamb mounted concealed closer is of sufficient strength and power to ensure the door leaf/leaves fully engage into the frame reveal.
- 2. The closer must be mounted between 800 1200mm above the threshold.
- 3. Provided the rebates required for installation are as tight as possible to the closer hardware, no additional intumescent protection is required.
- 4. The closer reaction plate in the door frame may fully interrupt both intumescent seals within the frame.





10.7.3 Concealed Overhead Self Closing Device

The tables below detail the tested concealed overhead closers that are approved, care should be taken as each closer has restrictions on to which leaf type they apply.

10.7.3.1 Rutland ITS.11204 – Leaf type 1 (Strebord® 44)

Based on results of WF386959, the Rutland ITS11204 concealed, head mounted closer may be used with the Strebord® 44 door design. It is not permitted in all other leaf types.

Element	Manufacturer & Product Reference (Test Reference)	Intumescent Protection	Closer Body Dimensions	Closer Slide Arm Dimensions	Minimum Frame Stop Dimension
Concealed overhead closer	Rutland ITS.11204 (WF386959)	Manufacturers supplied 2mm thick graphite type intumescent kit referenced Rutland IP114. Positioned lining closer arm rebate & positioned on top of closer body within the leaf.	256mm x 32mm x 55mm	461mm x 30mm	12mm

- 1. Lipping at the head of the Strebord® 44 leaf must be 18 23mm thick, otherwise meeting the requirements in section 5.4.
- 2. It must be ensured that the concealed overhead closer is of sufficient strength and power to ensure the door leaf/leaves fully engage into the frame reveal
- 3. Intumescent protection shall be as detailed within the above table, as tested.
- 4. The dimensions of the concealed overhead door closer must not exceed the dimensions given within the table above.



10.7.3.2 Rutland ITS.11205 – Leaf Type 3 (Strebord® 54)

Based on results of WF391032, the Rutland ITS11205 concealed, head mounted closer may be used with the Strebord® 54 door design. It is not permitted in the other leaf types 1, 2 & 4.

Element	Manufacturer & Product Reference (Test Reference)	Intumescent Protection	Closer Body Dimensions	Closer Slide Arm Dimensions	Minimum Frame Stop Dimension
Concealed overhead closer	Rutland ITS.11205 (WF391032)	Manufacturers supplied 2mm thick graphite type intumescent kit supplied with Rutland ITS.11205. Positioned encasing the closer arm & positioned on top of closer body & encasing the closer body within the leaf.	42mm x 300mm (Footprint)	460mm x 30mm	20mm

- 1. Lipping at the head of the Strebord® 54 leaf must be 18 23mm thick, otherwise meeting the requirements in section 5.4.
- 2. It must be ensured that the concealed overhead closer is of sufficient strength and power to ensure the door leaf/leaves fully engage into the frame reveal
- 3. Intumescent protection shall be as detailed within the above table, as tested.
- 4. The dimensions of the concealed overhead door closer must not exceed the dimensions given within the table above.
- 5. The closer arm rebate in the door frame partially interrupts the first intumescent seal with the second seal uninterrupted.



10.8 Non-Essential Hardware

Only the following items of non-essential hardware are permitted in addition to the prescribed essential hardware as detailed within section 10.3.

10.8.1 Pull Handles

Steel, stainless steel or bronze handles may be surface-fixed or bolted through the door leaf, providing the length is limited to 1200mm between the fixing points. If through fixed, there must be no more than 1mm clearance between the hole and stud.

The above scope of application is provided as in the opinion of Warringtonfire they will not significantly affect the fire resistance performance of the doorset being considered. This is on the basis of the items being surface mounted away from the edge of the door leaf, therefore unlikely to influence the junction between door leaf and frame. Furthermore, they are generally of lightweight construction, meaning that they are unlikely to destabilise the doorset and therefore cause adverse deflection under test conditions. Lastly, the surface mounted arrangement of the features means no material is removed in terms of the overall thickness of the door leaf beyond the footprint of the item, therefore burn through of the leaf would not be expected.

10.8.2 Push Plates & Kick Plates

Components with the following specification are deemed acceptable as in the opinion of Warringtonfire they will not significantly affect the fire resistance performance of the doorset being considered. This is on the basis of the items being surface mounted away from the edge of the door leaf, therefore unlikely to influence the junction between door leaf and frame. Furthermore, they are generally of lightweight construction, meaning that they are unlikely to destabilise the doorset and therefore cause adverse deflection under test conditions. Lastly, the surface mounted arrangement of the features means no material is removed in terms of the overall thickness of the door leaf beyond the footprint of the item, therefore burn through of the leaf would not be expected.

Approved specification:

• Polymeric or metal face-fixed hardware such as push plates and kick plates up to 2mm thick may be surface fitted to the doorset. These items of hardware are permitted up to a maximum of 20% of the door leaf area if mechanically fixed and a maximum of 30% if bonded with a contact or other thermally softening adhesive. Plates must not return around the door edges or 'notch out'/interrupt the door stop.



10.8.3 Security Viewers

The table below details the tested security viewers that are approved.

Element	Manufacturer & Product Reference	
Security viewers	1. Sealed Tight Solutions Ltd, STS4008 – WF386959	
	2. Norseal DV160/C – WF402305	
	3. ERA, Fab&Fix Spyhole – WF416690 Issue 2	
	4. Jedo, JV942 – WF414162	
	5. Yale, DH000768 – WF432578	

Alternatively, components with the following specification are also deemed acceptable.

- Door security viewers with brass or steel bodies of a diameter less than or equal to 15mm may be used provided that the through-hole is bored tight to the case of the viewer (maximum tolerance +1 mm). Lenses must be glass and the item must be protected with a tested acrylic intumescent mastic.
- Must be fitted no closer than 100mm to door edge, glazing or any other hardware component

10.8.4 Environmental Seals

A number of different environmental seals have been successfully tested as part of the Falcon Timber Limited doorset design. For example, the Sealed Tight Solutions Ltd, ST1009 seal was successfully tested in report WF391032.

On this basis, silicon based flame retardant acoustic, weather and dust seals (for example those referenced above or Lorient IS1212, IS1511, IS7025, IS7060 or Sealed Tight Solutions Ltd. ST1009) may be fitted to this doorset design without compromising the performance, providing their fitting does not interfere with the activation of the intumescent seals or hinder the self-closing function of the leaves.

Where required, the seals may be fitted either rebated into the timber door stop.

10.8.5 Threshold drop Seals

A Sealed Tight Solutions Ltd drop seal was successfully tested in report WF432578 and is acceptable for use in all door designs. It is permitted for use without the requirement for any intumescent protection.

Alternatively, components with the following specification are also deemed acceptable, recessed into the bottom of leaves based on the summarized evidence contained within section 3.

Product	Manufacturer
STS 422	Sealed Tight Solutions Ltd
ST422GT	Sealed Tight Solutions Ltd
FAS45	Fire and Acoustic Seals Ltd
8105	Norseal Ltd
NOR810S	Norseal Ltd



10.8.6 Letter Plates

Based on the evidence provided in WF416690 Issue 2, WF414162 and WF414882 test reports, the Strebord® 44 and Stredor® 44, can incorporate letter plates as specified below. The Strebord® 44 can also incorporate a letter plate security shield as specified by the evidence in WF414882 test report.

Based on the evidence provided in WF391032 test report, the Strebord® 54 and Stredor® 54, can incorporate letter plates. Additionally, the evidence provided in the test reports on the Strebord® 44 and Stredor® 44 door cores can also be extended to include alternative letter plate options for the Strebord® 54 and Stredor® 54 doorsets, provided the letter plate and intumescent type is the same as that specified in the test reports for the Strebord® 44 and Stredor® 44 door cores , with a commensurate size increase of components and intumescent protection to accommodate the 54mm thick door leaves.

Products may be fitted from 400 - 1200mm from floor level and not closer than 100mm to any leaf edge or glazed aperture. The letter plate and associated intumescent protection must be fitted in accordance with the test evidence, and as per the manufacturer's instructions.

The tables in the sections below gives a summary of permitted letter plates, their manufacturers, and required intumescent specification.

Element	Manufacturer & Product Reference	Required Intumescent Protection
Letter plate	 ERA, Fab&Fix Nu Mail Door Letterplate – WF416690 Issue 2 	2No. Wraps of 2mm (t) Sealed Tight Solutions Ltd, Graphite around the letterplate tunnel within the leaf.
	2. Royde and Tucker, LP008 – WF414162	Manufacturers supplied intumescent kit supplied with Royde and Tucker LP008 letterplate.
	 Fab and Fix Letterplate (3C018) and Security Shield (3F005) – WF414882 	Fire and Acoustic Seals Ltd, Spartan Hardware Protection kit referenced FASGP1013
	 4. Yale, Postmaster professional – WF432578 	Manufacturers supplied graphite type intumescent supplied with Yale, Postmaster Professional. Applied around the tunnel within the leaf and graphite tubes at fixing posts.

10.8.6.1 Leaf Types 1 (Strebord® 44) & 2 (Stredor® 44)



10.8.6.2 Leaf Types 3 (Strebord® 54) & 4 (Stredor® 54)

The table below details the tested letter plates that are approved.

Element	Manufacturer & Product Reference	Required Intumescent Protection
Letter plate	 Sealed Tight Solutions Ltd, STS4001 – WF391032 	2mm (t) Sealed Tight Solutions Ltd, Graphite applied lining the letterplate tunnel within the leaf & 1mm (t) Sealed Tight Solutions Ltd, Graphite applied to the inside of the letterplate tunnel.
	2. ERA, Fab&Fix Nu Mail Door Letterplate – WF416690 Issue 2	2No. Wraps of 2mm (t) Sealed Tight Solutions Ltd, Graphite around the letterplate tunnel within the leaf.
	3. Royde and Tucker, LP008 – WF414162	Manufacturers supplied intumescent kit supplied with Royde and Tucker LP008 letterplate.
	 Fab and Fix Letterplate (3C018) and Security Shield (3F005) – WF414882 	Fire and Acoustic Seals Ltd, Spartan Hardware Protection kit referenced FASGP1013
	 Yale, Postmaster professional – WF432578 	Manufacturers supplied graphite type intumescent supplied with Yale, Postmaster Professional. Applied around the tunnel within the leaf and graphite tubes at fixing posts.

Alternatively, components with the following specification are also deemed acceptable.

- Letter boxes/plates must be CERTIFIRE approved for 30 minutes in doorsets with solid timber door leaves. Restriction relating to size, location and intumescent protection around the letter box/plate must be complied with.
- The area of the letter plate plus any glazing must not exceed the total permitted area for glazing in the leaf.



10.8.7 Knockers, Numerals & Decals

Components with the following specification are also deemed acceptable as in the opinion of Warringtonfire they will not significantly affect the fire resistance performance of the doorset being considered. This is on the basis of the items being surface mounted away from the edge of the door leaf, therefore unlikely to influence the junction between door leaf and frame. Furthermore, they are generally of lightweight construction, meaning that they are unlikely to destabilise the doorset and therefore cause adverse deflection under test conditions. Lastly, the surface mounted arrangement of the features means no material is removed in terms of the overall thickness of the door leaf beyond the footprint of the item, therefore burn through of the leaf would not be expected.

Approved specification:

• Steel, stainless steel, aluminium or bronze knockers, numerals or decals may be surface-fixed or bolted through the door leaf, providing they are fitted no closer than 75mm from the leaf edge or to any glazing and are no greater than 300mm high x 100mm wide. If through fixed, there must be no more than 1mm clearance between the hole and stud.

10.8.8 Security Chains

Components with the following specification are also deemed acceptable as in the opinion of Warringtonfire they will not significantly affect the fire resistance performance of the doorset being considered. This is on the basis of the items being surface mounted with fixings positioned away from the edge of the door leaf and therefore unlikely to influence the junction between door leaf and frame. Furthermore, they are generally of lightweight construction, meaning that they are unlikely to destabilise the doorset and cause adverse deflection under test conditions. Lastly, the surface mounted arrangement of the features means no material is removed in terms of the overall thickness of the door leaf beyond the footprint of the item, therefore burn through of the leaf would not be expected.

Approved specification:

• Metallic security chains may be surface fixed to the face of the door leaf and frame, providing they are fitted such that they do not interfere with the junction between the leaf edge and the frame, and no material is removed in order to facilitate the fitting of the security chain. Screws to affix the security chain shall be no greater than 25mm long.

10.8.9 Identification Plates

Plastic or metal fire safety signs may be glued or screwed to the face of the door leaves. The signage must comply with BS 5499-5: 2002 according to whether the door is:

- a) To be kept closed when not in use (Fire Door Keep Shut)
- b) To be kept locked shut when not in use (Fire Door Keep Locked Shut)
- c) Held open by an automatic release mechanism or free swing device (Automatic Fire Door Keep Clear).

It is also permitted to fit aluminium (max. thickness 2mm) or PVC (max. thickness 3mm) identification plates. The signage must not exceed 45mm diameter and can be fitted flush with the leaf face, a minimum of 50mm from any edge or glazed aperture.

