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JP Corry Door set installation instructions For Strebord Superpan FD30 Doors

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Strebord Superpan FD30 Door and frame installation instructions

The following information will ensure that your door or door set will meet the desired performance. If there is any doubt in process or material to be used please ring JP Corry doors on 02890 243661 where advice will be on hand.

Firestopping

The firestopping requirements between the back of frame and wall are dependent on the gap size between the substrates. Below provides the requirements based on the gap size.

1. Timber stud/masonary construction

- Architrave – 15mm thickness overlapping 15mm each side.
- Gap joint seal – Mineral rock fibre the full depth of the door frame
- **Maximum gap size – 20mm.**

2. Steel and timer stud construction.

- Architrave – 15mm thickness overlapping 15mm each side
- Gap joint seal – Mineral rock fibre capped to a depth of 10mm with intumescent mastic.
- **Maximum gap size – 20mm**

3. Steel and timber stud construction

- Architrave – NONE
- Gap joint seal – Mineral rock fibre capped to a depth of 10mm with intumescent mastic.
- **Maximum gap size – 15mm**

4. Timber stud and masonary construction

- Architrave – 15mm thickness overlapping 15mm each side
- Gap joint seal – Minimum 10mm depth intumescent paste both sides
- **Maximum gap size – 10mm**

5. ST99 expanding foam with architrave

- Architrave – 18mm thickness overlapping 15mm with a minimum of 45mm width
- Gap joint seal – Full depth foam
- **Maximum gap size -20mm**

6. Large gaps with timber/non combustible subframe

- Architrave – 18mm thickness overlapping 15mm with a minimum of 45mm width
- Gap joint seal – Timber or non combustible subframe beaded with ST88 and gap between subframe and frame filled with ST99
- **Maximum gap size – Gap between frame and subframe 25mm, overall gap 60mm maximum.**

Packers

Packers can be timber of equal density to the frame, or plywood. Plastic packers can be used, they need to be cut short of the door frame and capped with 10mm of intumescent mastic.

Wall types,Structural opening and Fixity

For walls that remain rigid during fire exposure (brickwork or blockwork for example) the opening should be square, plumb and provide a flat surface for installation of the door set.

For flexible wall types such as steel and timber stud partitions, the structural opening must be prepared in line with the test evidence provided by the wall manufacturer, it is permitted to use a timber infill to the steel stud a minimum of 38mm thick to aid fixity unless the evidence for the partition system states otherwise. If fitted, the infill is to run the full length of the door set.

The supporting construction must provide at least the required level of fire resistance designated for the door set design and be a suitable medium to permit adequate fixity.

It must therefore be capable of staying in place and intact for a minimum of 30 minutes. For single leaf door set without side panels, the frame jambs only are to be fixed to the supporting construction using steel fixings at 600mm maximum centres and maximum of 150mm from corner. The fixings must be of the appropriate type for the supporting construction and must penetrate to a minimum depth of 50mm. It is not necessary to fix the frame head, although packers must be inserted.

For all other configurations of door set, the upper horizontal framing section abutting the structural opening must also be secured to the wall using steel fixings at 600mm maximum centres and maximum of 150mm from corner. The fixings must be of the appropriate type for the supporting construction and must penetrate to a minimum depth of 50mm.

In all instances the fixing position must be such that it provides adequate restraint to the element of construction throughout the exposure to fire. This may therefore sometimes necessitate a twin line of fixings.

Post production (on site) Leaf size adjustments

The Strebord range of door sets may be altered as follows:

Lipping – The post production lipping thickness (hardwood only) may be reduced by 1mm for fitting purposes, providing that the door gaps and intumescent conditions remain as required by this assessment and the minimum limitation in terms of lipping thickness is still maintained

Door Gaps

Door gaps and alignment tolerance must fall within the following range:

Door Gap & Alignment Tolerance Specification

1. **Door edge gaps** – A minimum of 2mm and a maximum of 4mm
2. **Alignment tolerances** – Leaves must not be proud of each other or from the door frame by more than 1mm
3. **Threshold** – 8mm between bottom of leaf and top of floor covering. This is the maximum tolerance for fire resistance only.

Insulation performance

Insulation performance may be claimed for a door set to this design meeting the following:

Partially insulating – Door sets incorporating up to 20% of non -insulating glazing.

Fully insulating/timber frames – Unglazed door sets or door sets including 30 minute insulating glazing

Conclusion

If a Srebord based door sets (covering leaf types 1)constructed in accordance with the specification documented in this field of application were to be tested in accordance with BS 476 Part 22:1987, It is our opinion that they would provide a minimum of 30 minutes integrity and insulation (subject to the section on Insulation performance above)

Doorstops

In the case of the door set requiring a concealed overhead door closer please consult the field of application provided to you and detailed on the cover of this document. This will give details of manufacturer allowed within the field of application. There will be a requirement, because of machining for the concealed door closer, for a heavier door stop. This could be a thickness of 15-18mm which will depend on the type of concealed closer being fitted please consult.

Vision panels - on site fitting or adjustment

Vision panels **must not be fitted on site**. If a requirement is found for vision panels on site please contact us (JP Corry Doors , 028 90 243661 or doors@jpcorry.co.uk) for advice on size and position. We can then price and fit, in our factory, a vision panel which will give the integrity only or integrity and insulation value required for the glass in the door.

Vision panels must **NOT** be adjusted in any way.

Ironmongery details for Strebord Superpan FD30 door set

For additional information on ironmongery fitting positions please see page 9 of this document. Or to get a stand alone copy of document QMJPC054 RevA "Ironmongery and Vision panel positions taking into account Part M regulations". Contact our office on phone 028 90 2 60212 or email doors@jpcorry.co.uk

The following section details the permitted scope and constraints for fitting hardware to a Strebord FD30 door set. All items of hardware must also bear the UKCA or CE mark in addition to the requirements outlined in the following sections.

The standards that ironmongery needs to be tested to:

Single axis hinge: **Test standard EN1935**

Latch and lock: **Test standard EN12209**

Controlled door closing devices: **Test standard EN1154**

Electrically powered hold open device: **Test standard EN1155**

Door co-ordinators: **Test standard EN1158**

Emergency exit hardware: **Test standard EN179**

Panic exit hardware: **Test standard EN1125**

(A) Essential hardware for each door configuration

Configuration	Hardware required when using this configuration
LSASD	Latches,hinges,overhead door closer
ULSASD	Hinges, overhead door closer
DASD	Top pivot,bottom strap, floor spring
LSADD	Latch,hinges,overhead door closer,flush bolt,selecter if rebated stile.
ULSADD	Hinges,overhead door closer,flush bolt,selecter if rebated stile.
DADD	Top pivot/bottom strap, floor spring

(B) Latches and locks

The single point latches below are approved.

1. R&T H105
2. R&T H101
3. Hoppe AR8182
4. ZOO VLH243
5. ZOO ZHSS243
6. Eurospec Enduro
7. Vier VLH243RS
8. Eclipse Frisco 14854

Alternative latch and lock specifications

1. **Maximum forend and strike plate dimensions**

(a) 235x25mmx4mm thickness

2. **Maximum body dimensions**

(a) 165mm highx100mm widex18mm thickness

3. **Materials** – All parts essential in the locking or latching action must be made from brass.steel or stainless steel with a melting point of 800deg centigrade or above.
4. **Location** – Primary latch location must be between 750mm to 1200mm from the threshold.

Handles are permitted if they meet the specification below:

(a) Steel, stainless steel, brass, aluminium or Bronze are permitted
(b) Surface or through fixings are permitted with a maximum clearance of 0.5mm between hole and fixing
(c) The hole to accommodate the spindle must have a diameter less than 20mm

The handle can be a lever on rose or back plate with maximum dimensions:

(a) Handle on rose will have a rose diameter of up to 54mm
(b) Handle on back plate will have a maximum backplate size of up to 243x56mm wide
(c) Lever handle length 250mm

Escutcheons are permitted providing they meet the specification below :

(a) Steel, stainless steel, brass, aluminium or bronze are permitted
(b) Surface or through fixings are permitted with a maximum clearance of 0.5mm between hole and fixing
(c) The escutcheon may be up to 52mm diameter and 8mm thickness

Cylinders

The cylinders below have been tested:

1. ERA Fortress
2. Glutz GC9991
3. Winkhaus 30/30
4. Hoppe AR780
5. Frelan JL70-OPDPB

Cylinders with the following specification are deemed acceptable:

(a) Where cylinders are used in single or multipoint latches the cylinder must have a melting point in access of 800 deg centigrade.
(b) The cylinder must be compatible with the lock or latch.
(c) Cylinder maximum dimension may be 33mm highx17mm wide and have an oval or euro profile.
(d) Single and double cylinders and cylinder with thumbturn are permitted.
(e) Preparation for single cylinders should not be more than two thirds the thickness of the door.
(f) If the lock does not have intumescent protection the maximum distance between leaf and cylinder is 1mm to each edge.
(g) If the lock body is protected with intumescent material a maximum distance of 3mm between leaf and cylinder is permitted.
(h) A 1mm thick map or non-pressure foaming graphite intumescent around the cylinder is optionally permitted.

Hinges

1. Eclipse Frisco 14854
2. Royde & Tucker H101
3. Royde & Tucker H105
4. Hoppe Arrone AR8182
5. Vier VLHL243RS &VLHR243RS
6. Eclipse Frisco 14854
7. Nico Load Pro Lift off 4715
8. Zoo VLH243
9. Zoo ZHSS243

Top hinge – 120 to 200mm from leaf head to the top of the hinge

Middle hinge – Equal distance between the bottom of the top hinge and the top of the bottom hinge.

Bottom hinge – 150 to 300mm from leaf bottom to bottom of hinge.

Hinge positions for 4no hinges:

Top hinge – 120 to 200mm from leaf head to top of hinge

Second hinge – 200mm below bottom of top hinge to equal distance between top and third hinge

Third hinge – Equal distance between second and bottom hinges

Bottom hinge – 150 to 300mm from leaf bottom to bottom of hinge.

Additionally, a certifire approved hinge for 30mins in a door set with a timber leaf and frame and incorporating appropriate intumescent material that will meet or exceed that required in the field of application.

NB: Other types of hinges are allowed. If the hinge being proposed is not listed please contact theJP Corry office on 028 90 260212 and we will check it out for you.

Automatic closing

Self closing can be achieved by:

- Overhead face fixed closer
- Concealed overhead closer
- Concealed jamb mounted closer
- Floor springs

Configurations for door closers – **LSASD,ULSASD,ULSADD**

The face fixed door closers that have been successfully tested:

1. Briton 1120B
2. Dorma TS71
3. Hoppe AR8200
4. Rutland TS3204
5. Rutland ITS 11204
6. Astra 4000
7. Arrone 6383,7383

Additionally, a certifire approved overhead face fixed closer approved for 30 minutes in a timber leaf with timber frame door set meeting the specifications above is acceptable.

Note: Door closers must be of sufficient strength and power to ensure the door leaf/leaves fully close into the frame reveal.

If a door closer has been specified and is not on the list above please contact JP Corry on 028 90 260212

Flush bolts for LSADD door sets

Flush bolts may be fitted into the top and bottom of one meeting edge providing the maximum dimensions do not exceed 210mmx20mmx20mm wide and are fitted opposite the edge fitted with intumescent strips.

Flush bolts must be steel and the mortice must be as tight to the mechanism as possible allowing full operation. All edges of the mortice of the keep and body must be protected with intumescent gaskets 2mm in thickness. Alternatively the hardware manufacturers tested gaskets may be used.

Push plates and 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.
- In all cases plates meeting the above specification shall not be applied under glazing beads or door stops.

Threshold drop seals

It is not permitted to use drop seals in conjunction with a flush bolt that is centrally fitted to one

of the meeting edges of a double door set.

The following threshold seals have successfully been tested.

1. Lorient Polyproducts Ltd LAS8001s (No intumescent required)
2. Mann McGowan Ltd DD-1703ACU (1mm MAP intumescent to all edges)
3. Norseal NOR810s (No intumescent required)
4. Norseal NOR810 (No intumescent required)
5. Sealed Tight Solutions ST422GT (No intumescent required)
6. Sealed Tight Solutions ST422 (No intumescent required)

Note: In all instances, if a rebated drop seal is fitted to the doorset then flush bolts, if approved, may not be fitted to the bottom of the door set.

Intumescent seal arrangements for door and door frames

Intumescent seal arrangements for Strebord Superpan door sets with the following door designs:

LSASD (Latched single action single doors):

Maximum door size 905x2302mm to 1002x2100mm uses Mann McGowan Pyrostrip 10x4mm fitted in frame reveal or leaf edges.

ULSASD (Unlatched single action single doors):

Maximum door size 905x2252mm to 1002x2100mm uses Mann McGowan Pyrostrip 10x4mm fitted in frame reveal or leaf edges.

DASD (Double action single doors):

Maximum door size 905x2252mm to 1002x2100mm uses Mann McGowan Pyrostrip 10x4mm fitted in frame reveal or leaf edges.

LSADD (Latched single action double doors):

Maximum door size 905x2252mm to 1002x2100mm uses Mann McGowan Pyrostrip 10x4mm fitted in frame reveal or leaf edges, 2no 10x4mm fitted to primary leaf edge 10mm apart.

ULSADD (Unlatched single action double doors):

Maximum door size 905x2252mm to 1002x2100mm uses Mann McGowan Pyrostrip 10x4mm fitted in frame reveal or leaf edges, 2no 10x4mm fitted to primary leaf edge 10mm apart.

DADD (Double action double doors):

Maximum door size 905x2252mm to 1002x2100mm uses Mann McGowan Pyrostrip 10x4mm fitted in frame reveal or leaf edges, 2no 10x4mm fitted to primary leaf edge 10mm apart.

Intumescent required on hardware

When the following intumescent is fitted to the Strebord FD30 doorset it will achieve the necessary fir resistance.

Intumescent material required on hardware	
Hardware	Intumescent material required
Hinges	1mm Interdens - Dufaylite Developments Ltd
	1mm Map paper - Lorient Polyproducts Ltd
	1mm Pyrostrip 300 - Mann McGowan Fabrications
	1mm Thermastrip - Intumescent Seals Ltd
	1mm STS Graphite - Sealed tight solutions
Locks and latches	1mm Interdens - Dufaylite Developments Ltd
(Double door set)	1mm Map paper - Lorient Polyproducts Ltd
	1mm Thermaflex - Intumescent Seals Ltd
	1mm STS Graphite - Sealed tight solutions
	1mm Thermastrip - Intumescent Seals Ltd
Locks and latches	1mm Interdens - Dufaylite Developments Ltd
(Single door set)	1mm Map paper - Lorient Polyproducts Ltd
	1mm Thermaflex - Intumescent Seals Ltd
	1mm STS Graphite - Sealed tight solutions
	1mm Thermastrip - Intumescent Seals Ltd
Top pivot and bottom straps	2mm Thermaflex - Intumescent Seals Ltd
Flush bolts	2mm Interdens - Dufaylite Developments Ltd
(encasing whole body)	2mm Map paper - Lorient Polyproducts Ltd
	2mm Thermastrip - Intumescent Seals Ltd
	2mm Thermaflex - Intumescent Seals Ltd

If an item of ironmongery has been specified and is not on the list above please contact JP Corry on

028 90 260212 as there will be a solution available.

JP Corry Ironmongery and Vision panel positions taking into account Part M Regulations.

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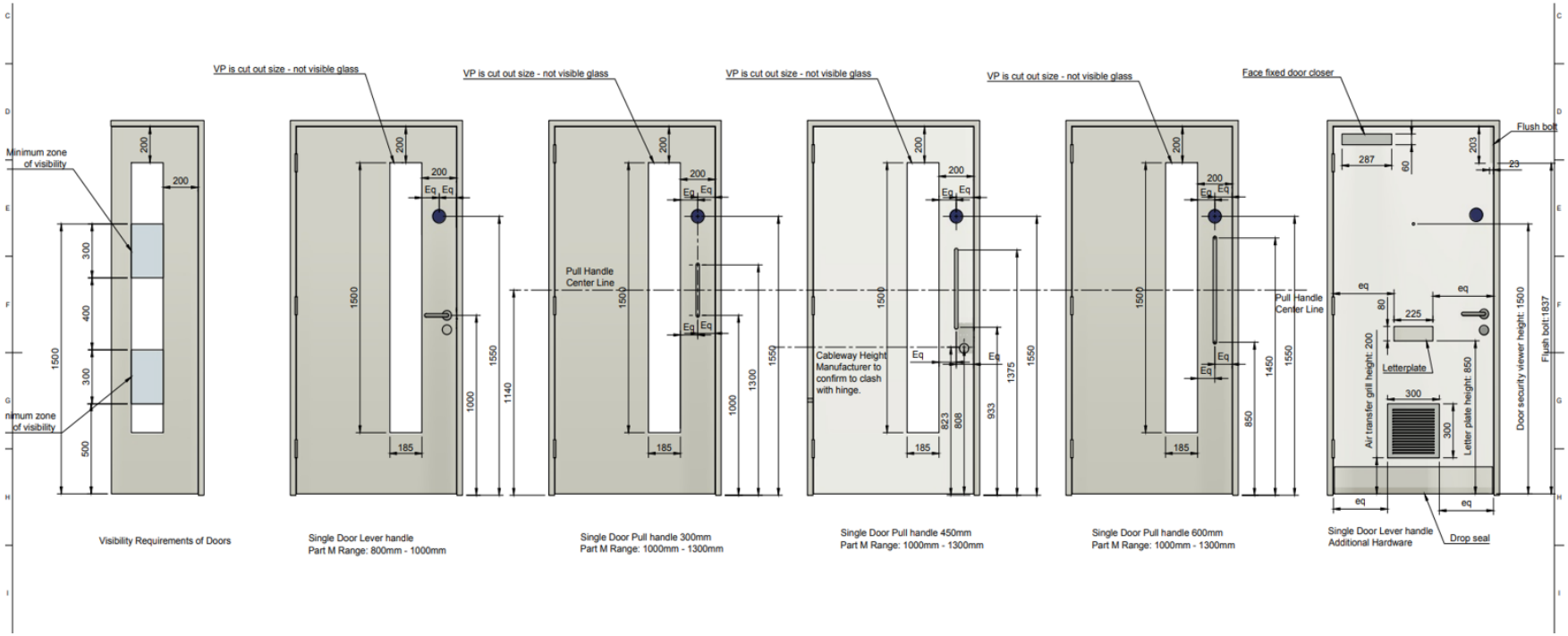

What plugs should be on my door set, a guide to colours of plugs and what they mean.

Below is a guide to plug colours and what they mean. The door sets fire rating can be checked from these plugs so the correct door set with correct fire rating and specification is installed in the correct opening.

Description of the door	Plugs that should be fitted to the door
Non fire rated door with no work	NO PLUG!
Non fire rated door glass added	NO PLUG!
Non fire rated Re-sized leaf	NO PLUG!
Std door only with glass added FD30	Yellow outer and orange inner.
Re-sized FD30 leaf – no glass	Yellow outer and red inner.
Re-sized FD30 leaf no glass, but seals routered to edges	Yellow outer and green inner.
Re-sized FD30 Leaf with glass fitted	Yellow outer and red inner, Yellow outer and orange inner.
As above with seals routered to edges of door.	Yellow outer and green inner, Yellow outer and orange inner.
FD30 full door set with ironmongery and intumescent supplied and fitted including all intumescent seals for ironmongery	Yellow outer and Silver inner.
FD60 Std leaf with glass fitted	Blue outer and orange inner
FD60 leaf re-sized	Blue outer and red inner
FD60 re-sized with glass fitted	Blue outer and red inner, Blue outer and orange inner
FD60 leaf re-sized and seals routered	Blue outer and green inner
FD60 re-sized, with glass fitted and seals routered to edges of door.	Blue outer and green inner, Blue outer and orange inner
FD60 full door set with ironmongery and intumescent supplied and fitted including all intumescent seals for ironmongery	Blue outer and silver inner

Intumescent seals tested for use with Strebord Superpan door sets and size parameter

1. LSASD (Latched single action single door) 916x2501 to 1082x2138mm Mann McGowan 100p 1no 10x4mm in frame reveal or leaf edges.
2. ULSASD & DASD (Unlatched single acting single door & double action single door) 916x2451 to 1057x2138mm Mann McGowan 100p 1no 10x4mm in frame reveal or leaf edges.
3. LSADD (Latched single action double doors) 916x2401 to 1032x2138mm Mann McGowan 100p 1no 10x4mm fitted centrally in frame reveal or leaf edges. Meeting stiles: 2no 10x4mm fitted centrally in the primary leaf edges 10mm apart.
4. ULSADD (Unlatched single action double door) 916x2351 to 1007x2138mm Mann McGowan 100p 1no 10x4mm fitted centrally in frame reveal or leaf edges. Meeting stiles: 2no 10x4mm fitted centrally in the primary leaf edges 10mm apart.
5. DADD (Double action double doors) 916x2351 to 1007x2138mm Mann McGowan 100p 1no 10x4mm fitted centrally in frame reveal or leaf edges. Meeting stiles: 2no 10x4mm fitted centrally in the primary leaf edges 10mm apart.

NB: If there is any doubt as to how to install a door or door set please consult the Field of Application document or consult JP Corry Doors on 028 90 243661. Never adjust a door set in size or replace any element without consulting JP Corry Doors.