1/21/2026

JP Corry Door set installation instructions For Vicaima FD30 Doors

Document: QMJPC001 REV D

FoA reference: FEA/F99112 REV L

FOA valid to: 13th Feb 2028

Vicaima 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.

Permitted installations

1. Where the door frame and wall are of the same depth

This is where when the architrave is fitted it is flush with both wall and door frame. Architrave section is detailed in the fire stopping section.

2. Where the wall thickness is greater than the width of the door frame

In this scenario timber architraves of a minimum of 15mm thickness must be used on both sides. The architrave must overlap the door gap by at least 15mm other than when the architrave abuts the wall.

3. Split frames to cover large wall thicknesses

Split frames are permitted as long as **both frames** are fitted as per the fitting instruction that follow. The main door frame, onto which the door is hung, must have a minimum section allowed in the door frame section of the report. The extension piece must be manufactured from the same material as the frame onto which the doors is hung.

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. Gap measuring 0-2mm

This gap must be sealed with a bead of acrylic intumescent mastic fire tested for this application to BS476:PART 22:1987 or BS EN 1634-1. Timber architraves of minimum 15mm thickness must overlap the door gap and be fitted to both surfaces.

2. Gap measuring 3-10mm

This gap must be sealed to a depth of 10mm with acrylic intumescent mastic fire tested for this application to BS476:PART 22:1987 or BS EN 1634-1. Timber architraves of minimum 15mm thickness must overlap the door gap and be fitted to both surfaces.

3. Gap measuring 10-20mm

This gap must be tightly packed with mineral fibre and capped to a depth of 10mm with acrylic intumescent mastic fire tested for this application to BS476:PART 22:1987 or BS EN 1634-1 or full depth PU foam fire tested for this application to BS476:PART 22:1987 or BS EN 1634-1. Timber architraves are optional for mineral fibre application but for PU a minimum 15mm thickness architrave must be fitted to both sides and must overlap the door gap by a minimum of 15mm.

4. Gap measuring over 20mm

This would be considered a poor preparation of the structural opening. A timber based or non-combustable subframe up to 50mm thickness can be inserted, bedded on intumescent mastic, fixed to the wall and the gap between the subframe and the wall filled as follows:

Gaps 5 to 10mm filled on both sides with 10mm depth of acrylic intumescent mastic or full depth of expanding PU foam, fire tested for this application to BS 476 Part 22:1987 Or BS EN 1634-1.

Timber architraves of a minimum 15mm thickness must be fitted to both faces and fitted with a 15mm minimum overlap to the door gap.

Note: Guidance for methods of sealing the frame to structural opening gap is also given in BS 8214:2016, "Timber -based fire door assemblies code of practice" which may be referred to and implemented where appropriate.

Packers

Packers can be timber of equal density to the frame, or plywood. Plastic packers can be used if fire tested for this application to BS 476 Part 22 or BS EN 1634-1

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 Vicaima 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 doorset 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 (eg 15mm Pyrostop or 16mm Pyrobel)

Conclusion

If Vicaima door sets (covering leaf types 1-8 and frame types 1-7) 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)

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.

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.

Ironmongery details for Vicaima SDC FD30 door set

For additional information on ironmongery fitting positions please see page 10 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 Vicaima FD30 SDC 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

Note on automatic closing:

For single action door sets, in addition to face fixed overhead door closers, the methods below are suitable:

(a) Concealed overhead closers.
(b) Jamb mounted closers
(c) Single action floor springs (Offset pivots are **NOT** allowed)

For double action door sets, door leaves must be fitted with approved double action floor springs, (Offset pivots are **NOT** allowed)

(B) Latches and locks

The single point latches below are approved for the SDC designs that JP Corry stock and use in door set manufacturing. Any other door type please consult with the office

1. Vicaima heavy duty tubular mortice latch with rebated edge conversion kit
2. Eurospec TLS tubular steel
3. Rhodes brass mortice latch Ref: 338BLPO
4. Standard tubular mortice latch

5. Tesa 4039t mortice lock
6. Ezcurra-esko (424-pand 430p) with anti bump turn euro cylinder
7. Salto ANSI and Eurospec lock
8. Aluminium rebated edge conversion set

Notes:

Door sets using roller catches or without catches with self closing devices are considered to be unlatched.

Based on the maximum size of lock/latch tested in single and double leaf configurations alternative locks can be used providing they have been tested to BS476-22:1987 or BS EN 1634-1. These fitted in a door set with a Vicaima 44mm SDC door will give the required 30min integrity.

Alternative latch and lock specifications

1. Maximum forend and strike plate dimensions
(a) 235x28mmx4mm thickness
(b) 330x24mmx3mm 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 800mm to 1200mm from the threshold.

Notes:

A certifire approved lock/latch approved for 30mm integrity in a timber leaf/timber frame using intumescent material it has been tested with can be used.

Door furniture – Lever handles

The following are approved for all Vicaima leaf designs:

1. Aluminium lever handles
2. Brass twist handles
3. Hoppe Valetta AR366 handle with Mila hardware euro cylinder
4. Rhodes Tupe
5. Frelan Atlanta stainless steel handles.
6. Frelan JSS/PSS412 satin and polished levers
7. Steel lever type handles

Other 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

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

Door leaves up to 2300mm high must have a minimum of 3no hinges, over this height four hinges are required. Hinges must comply with the specification below.

(a) Blade height – 90 to120mm
(b) Blade width excluding knuckle – 30 to 35mm
(c) Blade thickness – 2.5 to 4.0mm
(d) Fixings – 4no 30mmx no8/no10 steel wood screws or screws supplied with the hinges. Screws supplied with the hinges need to be tested to 30minute integrity.
(e) Materials – Steel, stainless steel or brass with a melting point of over 800 deg centigrade.
(f) Hinge positions for 3no hinges:

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.

The following tested hinges are approved for Vicaima leaf to give 30min integrity.

1. Eurospec steel bearing butt hinges ref DOB SEG EUR 1433 SEXC
2. Eurospec enduro stainless steel grade 13
3. IGLE R363 steel hinges
4. Metsa male and female steel hinges 1121 CPD AC5032
5. Jedo Frelan spring hinge Ref:J9800
6. JNF steel bearing butt hinges IN.05.020.100

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 Vicaima 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. Arrone AR2000
2. CISA face fixed ref: 60440-0387 & 60440-03
3. Dorma TS763U
4. Rutland TS3204
5. Rutland TS11204
6. Dorma TS71

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.

Panic hardware

Panic hardware is suitable for use on LSASD or LSADD door sets. Certifire approved panic hardware can be fitted as long as there is no removal from the leaf, door frame or door stop and the hardware does not interfere with the closing of the door.

Air transfer grills

All Air transfer grilles must be Certifire approved for 30 minutes in a timber leaf and timber framed doorset incorporating intumescent. Restriction relating to size, location, aperture lining and intumescent protection around the air transfer grille given in the Certifire certificate must be complied with. The area occupied by the air transfer grille must not exceed 0.2m2 and must be deducted from the area of glazing, if both elements are fitted.

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 doorset.

The following threshold seals have successfully been tested on the Vicaima design:

1. Domatic A6003 threshold drop down seal

2. Domatic A6004 threshold drop down seal

3. Planet HS threshold drop down seal

Based on this testing the following threshold seals are also deemed acceptable, recessed into

the bottom of leaves.

Product Manufacturer

LAS8001 Lorient Polyproducts Ltd.

IS8010si Lorient Polyproducts Ltd.

RP8Si Raven Products Ltd.

NOR810, NOR810S, NOR810dB+ Norsound Ltd.

STS 422 (recessed), STS 422 (face fixed),

STS 422GT Sealed Tight Solutions (see note 2 below)

Note 1:

Based on the testing conducted where a drop seal was tested without intumescent protection the recess for the drop seal in the bottom of the leaf does not need to be lined with intumescent but can be if required. If protection is required one of the products below must be used.

1. 1mm Interdens – Dufaylite Developments Ltd.
2. 1mm MAP paper – Lorient Polyproducts Ltd.
3. 1mm Pyrostrip 300 – Mann McGowan Ltd.
4. 1mm Therm-A-Strip – Intumescent Seals Ltd.

Note 2:

For 30 minute performance doorsets only, the ST422 recessed design (not the

ST422GT) may be offset in the leaf threshold, providing the rebate for the seal is no closer

than 10mm from the face of the door leaf and Sealed Tight Solutions Ltd – STS 1mm Graphite

gasket material is fitted lining all sides of the rebate

Intumescent material required for Hardware

To achieve the tested fire rating the intumescent material below would need to be fitted to all hardware.

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
	Lorient acrylic mastic sealant
Locks and latches	1mm Interdens - Dufaylite Developments Ltd
(Double door set)	1mm Map paper - Lorient Polyproducts Ltd
	1mm Pyrostrip 300 - Mann McGowan Fabrications
	1mm Thermastrip - Intumescent Seals Ltd
	Lorient acrylic mastic sealant
Locks and latches	1mm Interdens - Dufaylite Developments Ltd
(Single door set)	1mm Map paper - Lorient Polyproducts Ltd
	1mm Pyrostrip 300 - Mann McGowan Fabrications
	1mm Thermastrip - Intumescent Seals Ltd
	Lorient acrylic mastic sealant
Top pivot and bottom straps	2mm Interdens - Dufaylite Developments Ltd
	2mm Map paper - Lorient Polyproducts Ltd
	2mm Thermastrip - Intumescent Seals Ltd
	2mm Thermaflex - Intumescent Seals Ltd
Flush bolts	1mm Interdens - Dufaylite Developments Ltd
(encasing whole body)	1mm Map paper - Lorient Polyproducts Ltd
	1mm Thermastrip - Intumescent Seals Ltd
	1mm 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.

Intumescent seals tested for use with Vicaima FD30 door sets and size parameter.

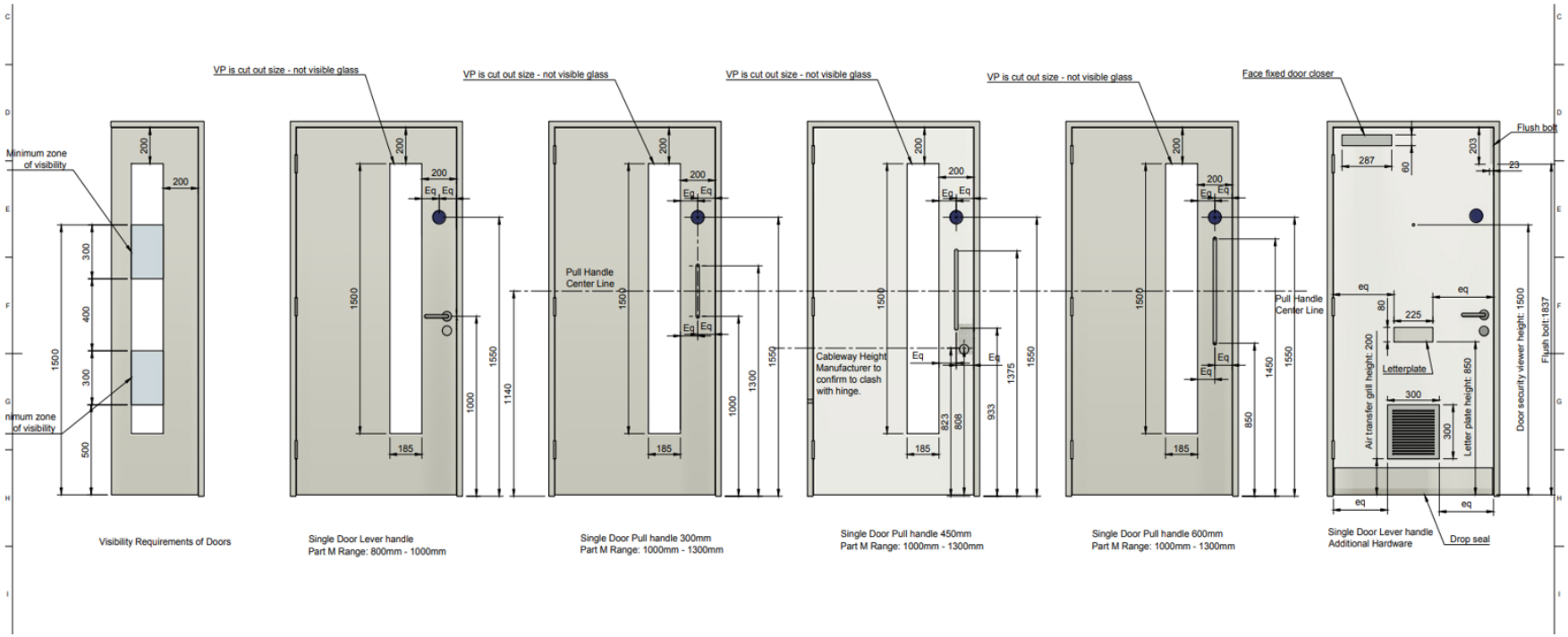
1. LSASD (Latched single action single door) – Door size 926x2532mm to 1151x2050mm will require 1no 15x4mm STS ST1504FO seal in the frame or leaf edge
2. ULSASD or DASD (Unlatched single action single door or double action single door) – Door size 926x2344mm to 1126x2040mm will require 1no 15x4mm STS ST1504FO seal in the frame or leaf edge.
3. LSADD (Latched single action double doors) – Door size 926x2294mm to 1043x2040mm will require 1no 15x4mm STS ST1504FO in the door frame or leaf edge and 2no 10x4mm STS ST1004FO in the meeting stiles.
4. ULSADD or DADD (Unlatched single acting double door or double acting double door) – Door size 926x2244 to 1018x2040mm will require 1no 15x4mm STS ST1504FO in the door frame or leaf edge and 2no 10x4mm STS ST1004FO in the meeting stiles.

How to identify the fire rating of a door from the colour of the plug insert.

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

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

Document: QMJPC054 Rev A Date : 12/11/2024



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.