

Ignis30tm

Fitting Instructions



Fully Accredited

Designed to meet ISO 9001 / ISO 14001 /
ISO 45001 / Kitemark standards



Secured by Design

Thoroughly tested to meet relevant Police
Preferred Specification



Made in Britain

Designed & manufactured in-house at
our state-of-the-art factory in Wales, UK



Q-Mark Certified

The IG Doors FD30 Fire Door is certified
by the BM TRADA Q-Mark Scheme



UKCA Certified

The Ignis30 fire door range conforms
to GB legislation



IG•DOORStm
making an entrance

Please read me first!

It is important that the documents provided with this fitting instruction are read prior to installation.

The following instructions outline the process of installing fire doors, failure to follow these guidelines could affect the fire performance of the door unit.

The door can only be fitted into a masonry construction including a concrete lintel above the door unit. Other supporting structures are not covered under the terms of our field of application / classification reports.



It is recommended that installation of fire doors should be carried out by qualified installers. Failure to do so may affect the performance of the door unit.

Door Installation Procedure:

- 1** Check the opening is square and check the size of the door in relation to the opening.
- 2** Centre the door-set in the opening, maintaining the minimum and maximum gap requirements (as outlined within these instructions and Field of Application / Classification Reports), between the frame and the supporting structure. Level the sill, use packers if necessary.
- 3** Use a long level to square up both the hinge side jamb and lock side jamb. Use packers to keep the frame square in the opening. Details regarding the type of packers permitted for use are detailed further on in this guide.
- 4** Fix the hinge side jamb 150mm from the top and bottom of the frame using 7.5x120mm (minimum length) concrete screw fixings, and check the frame is square.
 - a) It is vital that the door-set is packed to keep it square in the opening and to prevent twisting during installation.
 - b) The fixings must penetrate the supporting structure by at least 50mm.
- 5** Repeat the process for the lock side jamb again fixing at the top and bottom of the frame and check that the frame is square.
- 6** Check the gaps between the door and frame, further guidance on permitted gaps is detailed within this guide.
- 7** Finish off the fixing of both jambs, remaining fixings must be positioned at no greater than 600mm centres. Further guidance is detailed within this guide.
- 8** Fit any ironmongery that is supplied loose, only ironmongery items that are supplied by IG Doors Ltd are permitted to be fitted to the door.
- 9** All preparation work that is required to fit items will already have been carried out by IG Doors Ltd.
- 10** Check the operation of the door and ensure that the lock fully engages. Please note it is not allowed under the terms of the FoA report to trim the door or the frame during installation.
- 11** Check that the Q Mark ID Plug is present at the top rail of the door, towards the lock side edge. The plug will be a yellow outer case to denote 30min fire resistance with a silver inner tree to show that the door-set is a certified factory hung product (see page 11).
- 12** Tightly pack the gap between the supporting structure with mineral wool and cap both sides of the joint with a 10mm (minimum) deep intumescent seal.

Internal Door Fitting

IG Doors 30 minute Glass Reinforced Plastic (GRP) clad, timber/rockwool core doors with a hardwood frame can be accepted if the criteria in this guide is achieved when viewed on site. Deviation from the key areas in this guide is not permitted.

Essential Hardware:

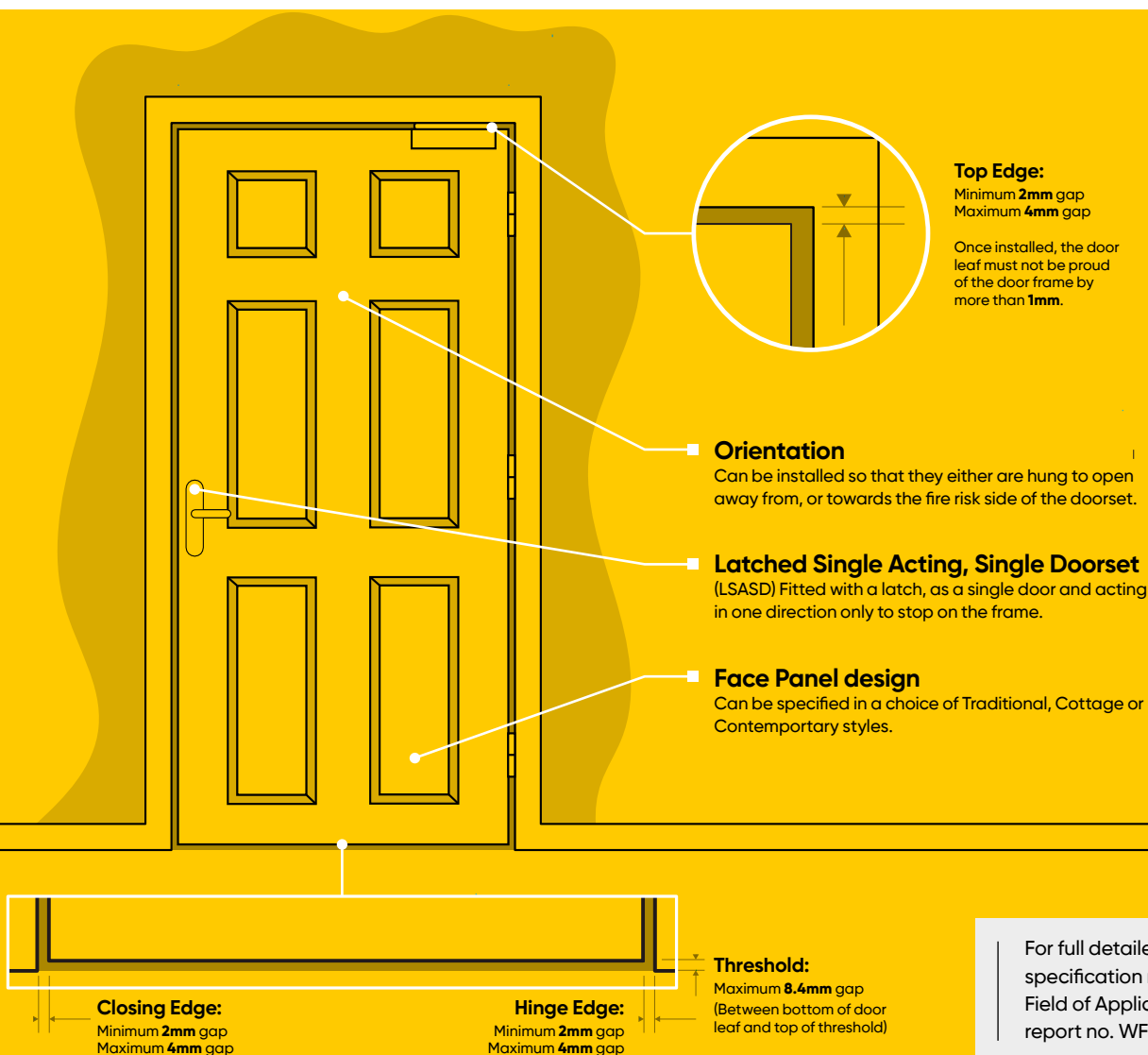
Lock, Lever, Euro Cylinder and Door Closer.

Non- Essential Hardware:

Letterplate, Eye Viewer, Door Knocker, Door Chain and Numerals.

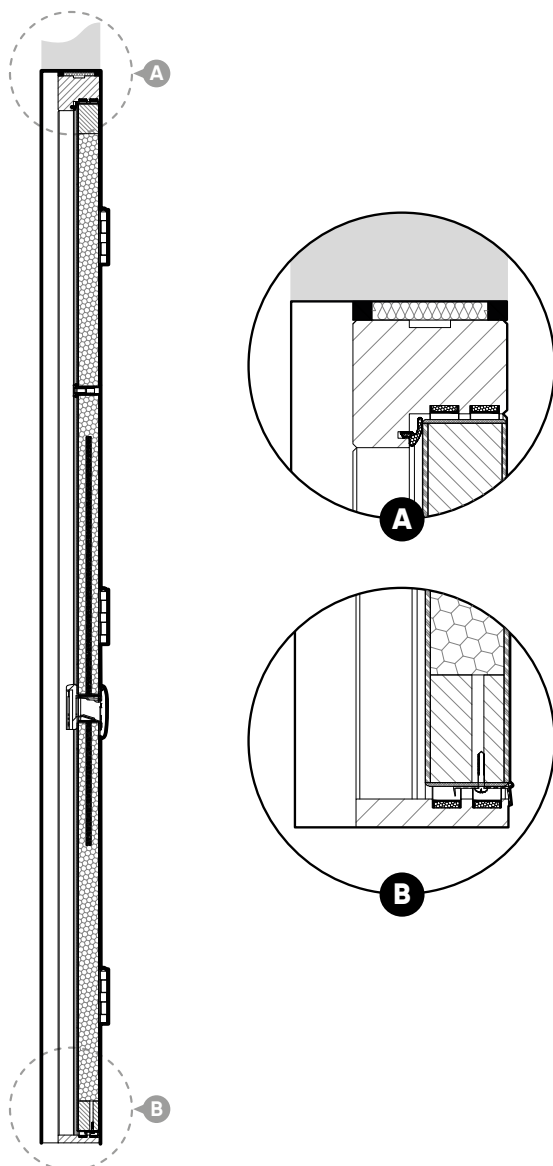
All hardware both essential and non-essential will be cut, prepared (where required) and supplied by IG Doors. Some items such as the door closer, levers, door knocker, door chain and numerals will be supplied loose and are to be fitted to the door on site. No site preparation work for hardware will be required except for the fitting of the overhead door closer, which should be fitted and positioned in accordance with the manufacturers instructions.

- No other items are permitted to be cut or added to the doorset.
- The door-set will be supplied with a **Q Mark ID Plug** in the top rail of the door. The ID plug will be Yellow Outer (30min fire resistance) with a Silver inner tree (factory hung doorset). Refer to Q Mark plug card (see page 11) for details.
- Gaps must be no greater than described. All intumescent seals, weatherseals and 2 fin rubber door bottom must be present and must not be removed. The weatherseal and 2 fin door bottom (see page 4) act as smoke seals as indicated in the FoA report and tested to BS EN 1634-3.



Frame fixing

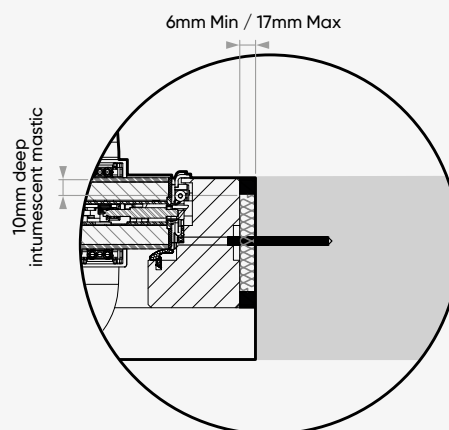
- The door frame is to be fixed to the supporting structure on both sides using steel masonry fixings.
- The head of the door does not require fixing.
- The supporting structure must provide the required level of fire resistance and be able to allow suitable fixing of the doorset.
- Frame jambs only are to be fixed to the supporting structure using steel masonry fixings.
- Fixings are to be positioned **150mm** from each corner and a maximum of **600mm** centres thereafter.
- Fixings must penetrate the supporting structure by at least **50mm**.
- A minimum of 4 fixings are to be used each side. Additional fixings can be used if required.



Door frame sealing to structure

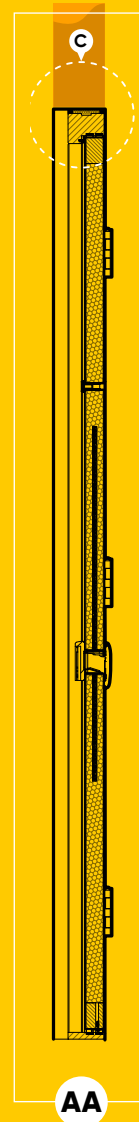
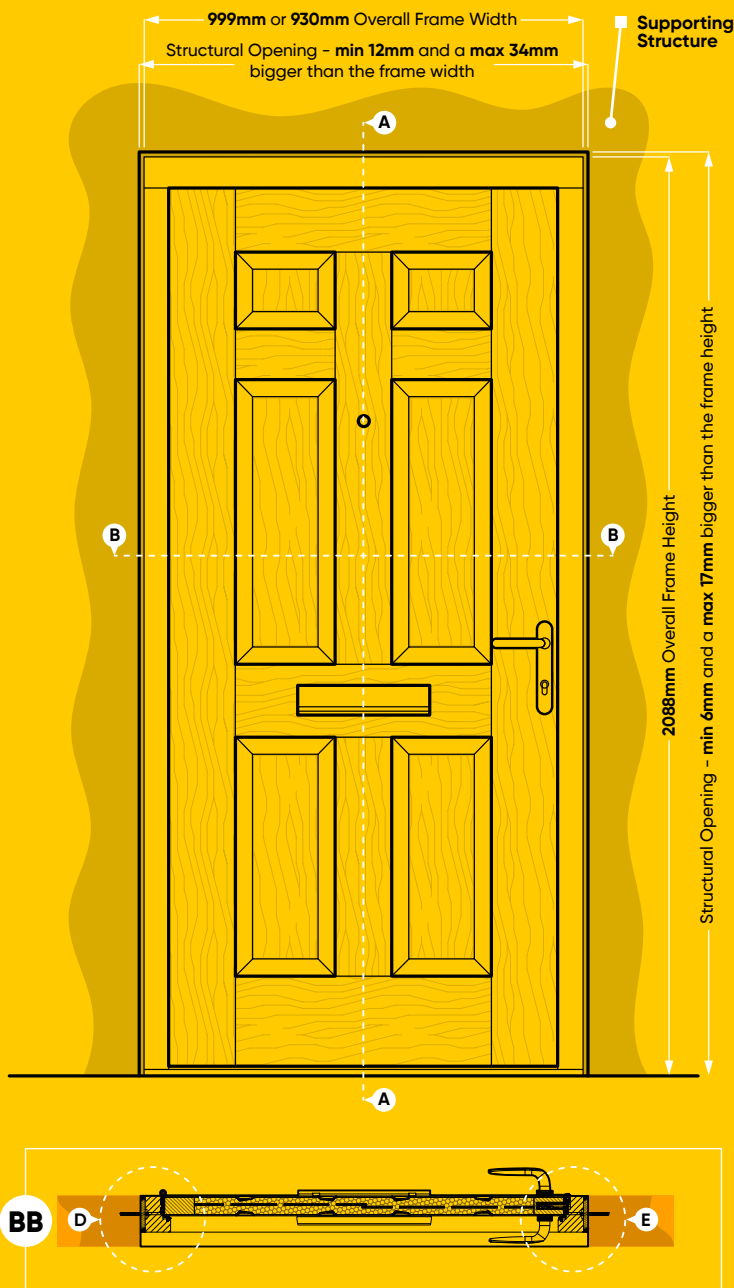
Acceptable door frame installations/sealing to the structure are given in the diagram below.

An architrave may be provided in every situation, however projecting frames without returns and 'quirks' between the frame and leaf are not permitted.

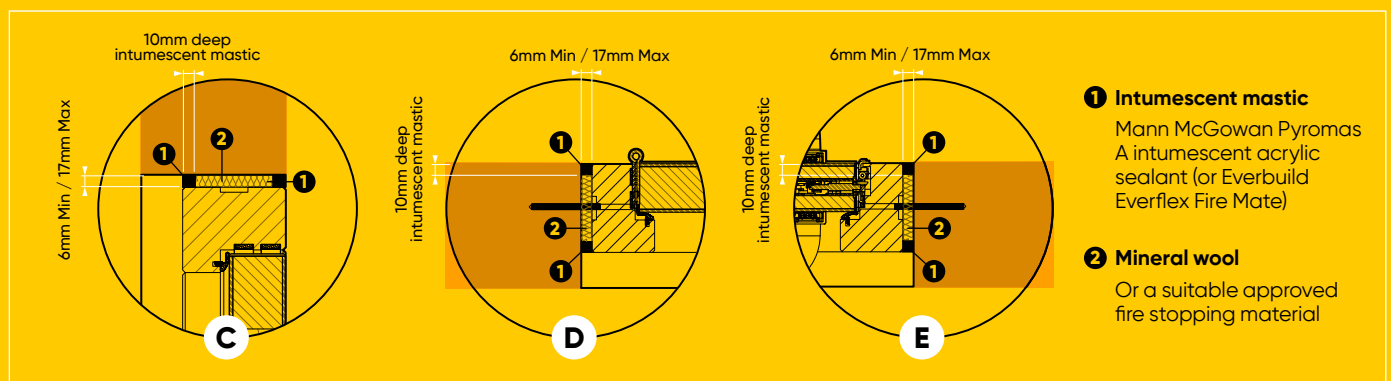


- All gaps must be sealed with intumescent acrylic sealant (Mann McGowan Pryomas A or Everbuild Everflex Fire Mate). Gaps must be sealed on both sides with a depth of 10mm of sealant.
- Gaps are to be filled with mineral wool (Rockwool Ltd, Rock based mineral wool or Rockwool Ltd, RWA45). Mineral wool must meet Euroclass A1 or A2 to EN 13501-1 and must be heat resistant to 1000°C.
- Packers between the door frame and supporting structure are permitted for use. The number of packers are dependent upon the need during installation.
- Packers should be used to help keep the door frame square and prevent twisting within the structural opening during installation.
- Packers are to be fitted to the jambs to maintain minimum gaps between the door frame and supporting structure.
- Packers can be softwood timber with a density greater than 510kg/m³ or of a timber of equal density to the frame.
- Density of timber packers must be a minimum of 510kg/m³ as indicated in the FoA report.
- No trimming of the door or frame is permitted.
- Supporting structure must be a masonry construction only (As tested).

Installation detail



- Frame must be secured by fixing through the frame. Care must be taken to avoid damage to the intumescent strip.
- Fixings should penetrate the supporting structure by at least 50mm using 7.5x120mm concrete screw fixings.
- Gap between door frame and supporting structure to be a **minimum of 6mm** and **no more than 17mm**. All gaps must be tightly packed with mineral wool (or suitable approved fire stopping material) and capped with a minimum 10mm deep seal of intumescent mastic - **all as shown in Details C, D & E**.
- Once door set has been fitted check all gaps between the door leaf and the frame. Gaps should be a minimum of 2mm (maximum 4mm) between the jambs and head and a maximum of 8.4mm at the threshold.
- Unit must be fitted in accordance with Field of Application report no: WF 522459.
- In line with the Field of Application report no modifications, additions or glazing apertures are permitted to be added to the door unit.
- All loose supplied hardware items (i.e., levers, face-fixed door closer, numerals, door knocker and door chain) must be fitted to the door unit in order to fully comply with the Field of Application report.



Fixing Positions

Door units must be fitted in accordance with the installation section of Field of Application report no: **WF 522459**, an extract of which is summarised on this page. This section considers the installation of the doorset design outlined within this report. Full copy of the Field of Application report is available upon request.

Firestopping:

Gaps between the rear of the door frame and the supporting construction are calculated based upon the test evidence and summarised below.

- Gaps are to be a minimum of 6mm wide
- Gaps are permitted to be a maximum of 17mm wide

Gaps between 6mm and 17mm wide as outlined above are to be filled with a lightly packed rock mineral fibre (rock mineral fibre to meet Euroclass A1 or A2 to EN 13501-1 and heat resistant to 1000°C) and sealed on both sides with a 10mm depth or intumescent mastic/sealant.

The following intumescent acrylic sealants have been tested by IG Doors Ltd as a frame to supporting construction fire stopping detail, and are therefore approved for use with the method detailed above:

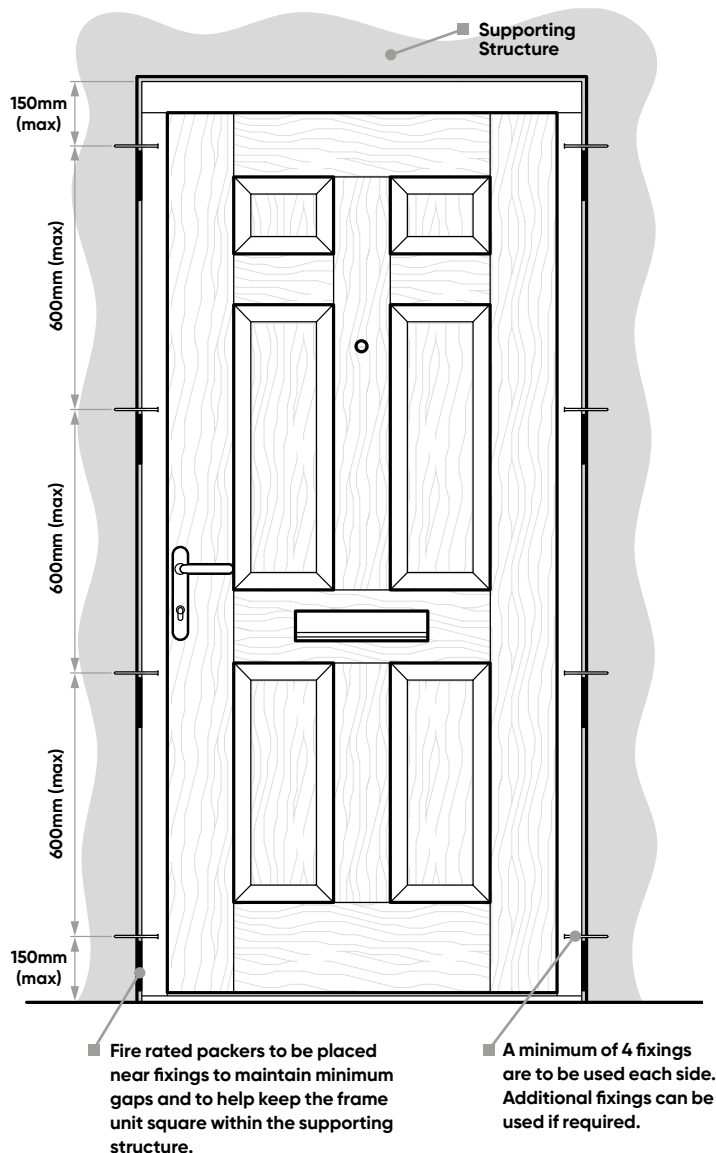
- **Mann McGowan Pyromas A Intumescent Acrylic Sealant (or Everbuild Everflex Fire Mate)**

The following rock mineral fibre has been tested by IG Doors Ltd as a frame to supporting construction fire stopping detail, and are therefore approved for use with the method detailed above:

- **Rockwool Ltd, Rock based mineral wool (Or Rockwool Ltd, RWA45)**

Packers:

Packers must be non-combustible or timber of equal density to the frame.



Wall types, structural opening & fixity:

- The supporting construction must provide at least the required level of fire resistance designated for the doorset design and be a suitable medium to permit adequate fixity.
- The test evidence summarised within section 3 of this report has all been generated within a masonry construction (around all sides of the opening). This doorset design is therefore approved for use within masonry walls which are able to maintain the required 30 minutes of fire resistance performance. In any case, the opening should be square, plumb and provide a flat surface for installation of the doorset.
- The frame jambs are only to be fixed to the supporting construction using steel masonry fixings at 600mm maximum centres and maximum of 150mm from corners. The fixings must be of the appropriate type for the supporting construction and must penetrate to a minimum depth of 50mm, as demonstrated within the test evidence.
- In all instances the fixing position must be such that it provides adequate restraint to the element of construction throughout the exposure to fire.

External Door Fitting

IG Doors 30 minute Glass Reinforced Plastic (GRP) clad, timber/rockwool core doors with a PVC frame can be accepted if the criteria in this guide is achieved when viewed on site. Deviation from the key areas in this guide is not permitted.

Essential Hardware:

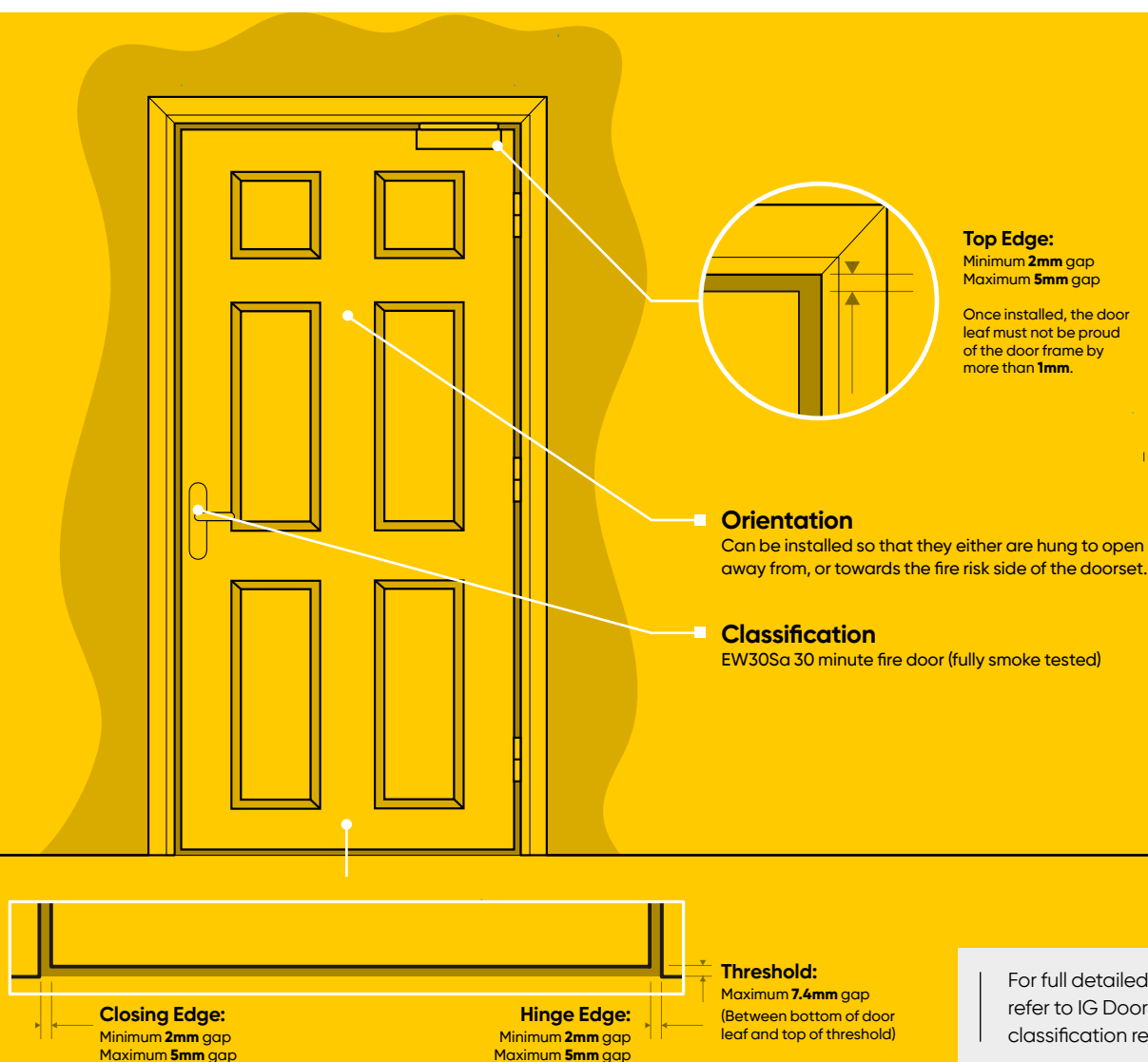
Lock, Lever, Euro Cylinder and Door Closer.

Non- Essential Hardware:

Letterplate, Eye Viewer, Door Knocker, Door Chain and Numerals.

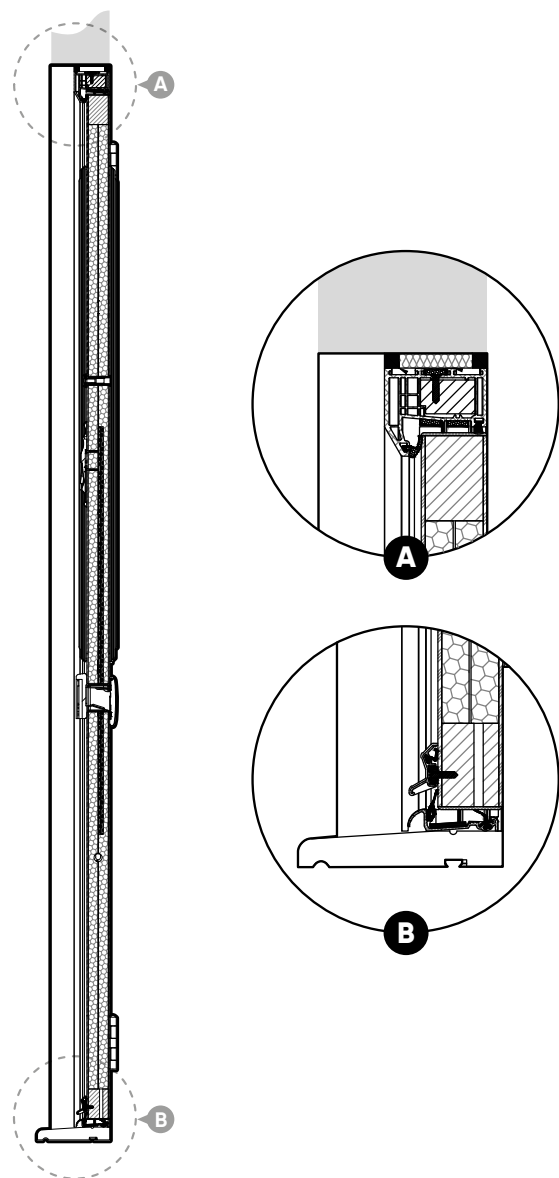
All hardware both essential and non-essential will be cut, prepared (where required) and supplied by IG Doors. Some items such as the door closer, levers, door knocker, door chain and numerals will be supplied loose and are to be fitted to the door on site. No site preparation work for hardware will be required except for the fitting of the overhead door closer, which should be fitted and positioned in accordance with the manufacturers instructions.

- No other items are permitted to be cut or added to the doorset.
- The door-set will be supplied with a **Q Mark ID Plug** in the top rail of the door. The ID plug will be Yellow Outer (30min fire resistance) with a Silver inner tree (factory hung doorset). Refer to Q Mark plug card (see page 11) for details.
- Gaps must be no greater than described. All intumescent seals and weatherseals must be present and cannot be removed. The weatherseal act as smoke seals as indicated in the classification report and tested to BS EN 1634-3.



Frame fixing

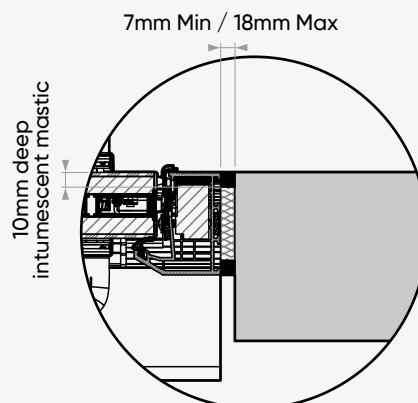
- The door frame is to be fixed to the supporting structure on both sides using steel masonry fixings.
- The head of the door does not require fixing.
- The supporting construction must provide the required level of fire resistance and allow adequate fixing of the doorset.
- Frame jambs only are to be fixed to the supporting structure using steel masonry fixings.
- Fixings are to be positioned **150mm** from each corner and a maximum of **600mm** centres thereafter.
- A minimum of 4 fixings are to be used each side. Additional fixings can be used if required.



Door frame sealing to structure

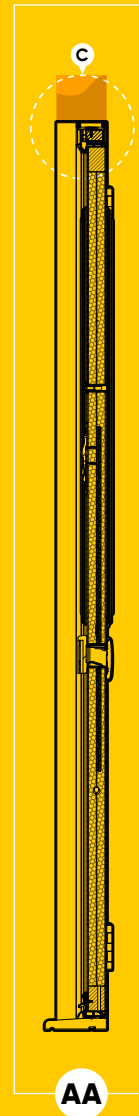
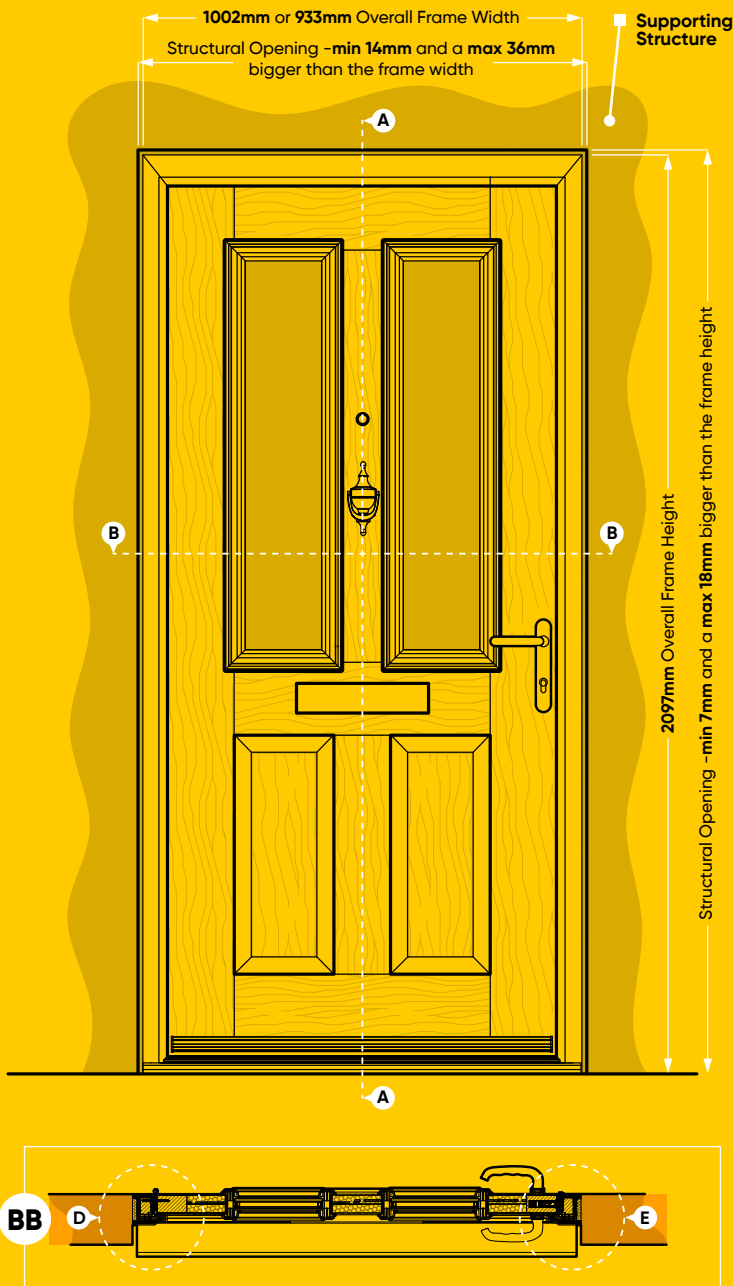
Acceptable door frame installations/sealing to the structure are given in the diagram below.

An architrave may be provided in every situation, however projecting frames without returns and 'quirks' between the frame and leaf are not permitted.

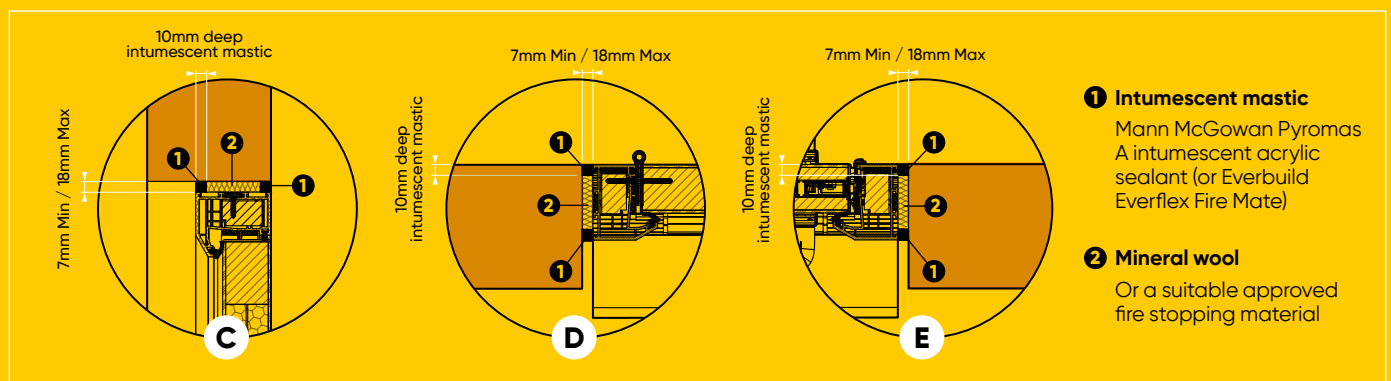


- All gaps must be sealed with intumescent acrylic sealant (Mann McGowan Pryomas A or Everbuild Everflex Fire Mate). Gaps must be sealed on both sides with a depth of 10mm of sealant.
- Gaps are to be filled with mineral wool (Rockwool Ltd, Rock based mineral fibre). Mineral wool must meet Euroclass A1 or A2 to EN 13501-1 and must be heat resistant to 1000°C.
- Packers between the door frame and supporting structure are permitted for use. The number of packers are dependent upon the need during installation.
- Packers should be used to help keep the door frame square and prevent twisting within the structural opening during installation.
- Packers are to be fitted to the jambs to maintain minimum gaps between the door frame and supporting structure.
- Packers must be non-combustible material (e.g. Blue 60 fire rated packer or similar approved fire rated product) or timber (European redwood or Sapele hardwood to match the frame materials) of equal density to the frame.
- Density of timber packers must be a minimum of 510kg/m³ as indicated in the classification report.
- No trimming of the door or frame is permitted.
- Supporting structure must be a masonry construction only (As tested).

Installation detail



- Frame must be secured by fixing through the frame. Care must be taken to avoid damage to the intumescent strip.
- Fixings should be a minimum size of 7.5x120mm using concrete screws.
- Gap between door frame and supporting structure **to be no more than 18mm**, all gaps must be tightly packed with mineral wool (or suitable approved fire stopping material) and capped with a minimum 10mm deep seal of intumescent mastic - **all as shown in Details C, D & E.**
- Once door set has been fitted check all gaps between the door leaf and the frame. Gaps should be a maximum 5mm between the jambs and head and a maximum of 7.4mm at the threshold.
- Unit must be fitted in accordance with Classification report no: WF 527563.
- All loose supplied hardware items (i.e, levers, face-fixed door closer, numerals, door knocker and door chain) must be fitted to the door unit in order to fully comply with the classification report.
- Door leaf will be supplied with a Q Mark plug (9x19mm) fitted centrally to the top rail of the door towards the lockside, approx 22mm from door edge. The plug will be a yellow outer case to denote 30min fire resistance with a silver inner tree to demonstrate the door is a complete certified factory hung dooset.



Fixing Positions

Door units must be fitted in accordance with the installation section of classification report no. WF 527563, an extract of which is summarised on this page. This section considers the installation of the doorset design outlined within this report. Full copy of the classification report is available upon request.

Firestopping:

Gaps between the rear of the door frame and the supporting construction are calculated based upon the test evidence and summarised below.

- Gaps are to be a minimum of 7mm wide
- Gaps are permitted to be a maximum of 18mm wide

Gaps between 7mm and 18mm wide as outlined above are to be filled with a lightly packed rock mineral fibre (rock mineral fibre to meet Euroclass A1 or A2 to EN 13501-1 and heat resistant to 1000°C) and sealed on both sides with a 10mm depth or intumescent mastic/sealant.

The following intumescent acrylic sealants have been tested by IG Doors Ltd as a frame to supporting construction fire stopping detail, and are therefore approved for use with the method detailed above:

- Mann McGowan Pyromas A Intumescent Acrylic Sealant (or Everbuild Everflex Fire Mate)

The following rock mineral fibre has been tested by IG Doors Ltd as a frame to supporting construction fire stopping detail, and are therefore approved for use with the method detailed above:

- Rockwool Ltd, Rock based mineral wool (Or Rockwool Ltd, RWA45)

Packers:

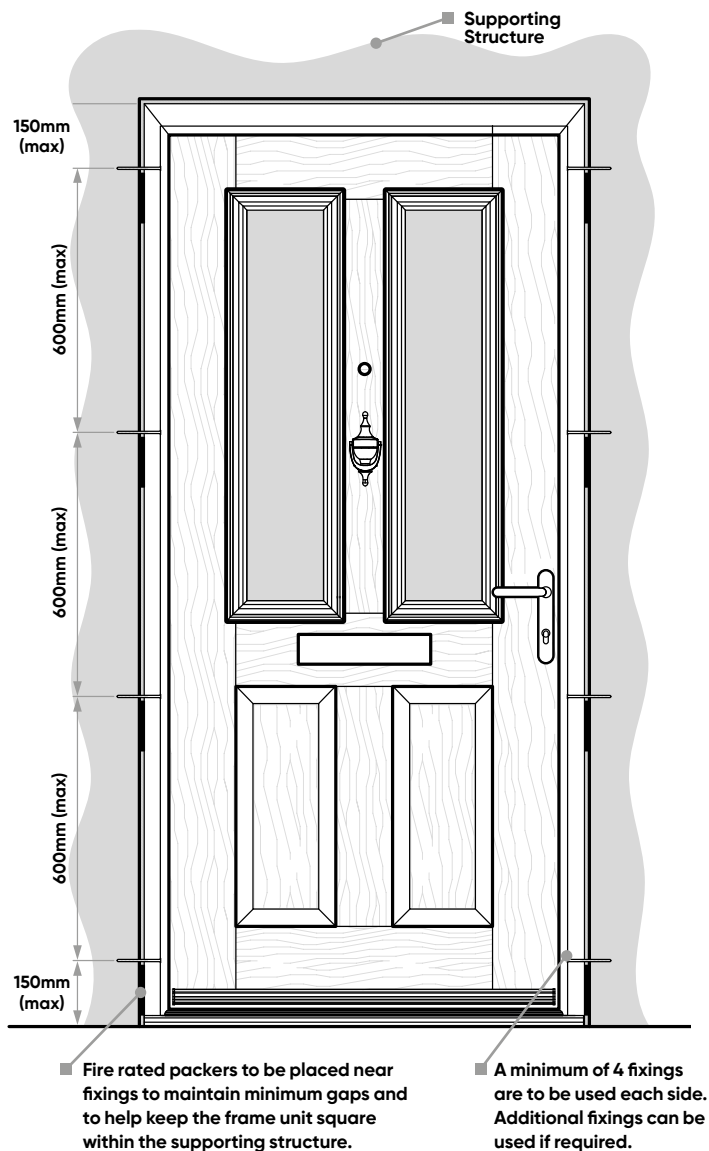
Packers must be non-combustible or timber of equal density to the frame.

Wall types, structural opening & fixity:

- The supporting construction must provide at least the required level of fire resistance designated for the doorset design and be a suitable medium to permit adequate fixity.
- The test evidence summarised within section 3 of this report has all been generated within a masonry construction (around all sides of the opening. This doorset design is therefore approved for use within masonry walls which are able to maintain the require 30 minutes of fire resistance performance. In any case, the opening should be square, plumb and provide a flat surface for installation of the doorset.
- The frame jambs are only to be fixed to the supporting

construction using steel masonry fixings at 600mm maximum centres and maximum of 150mm from corners. The fixings must be of the appropriate type for the supporting construction, as demonstrated within the test evidence.

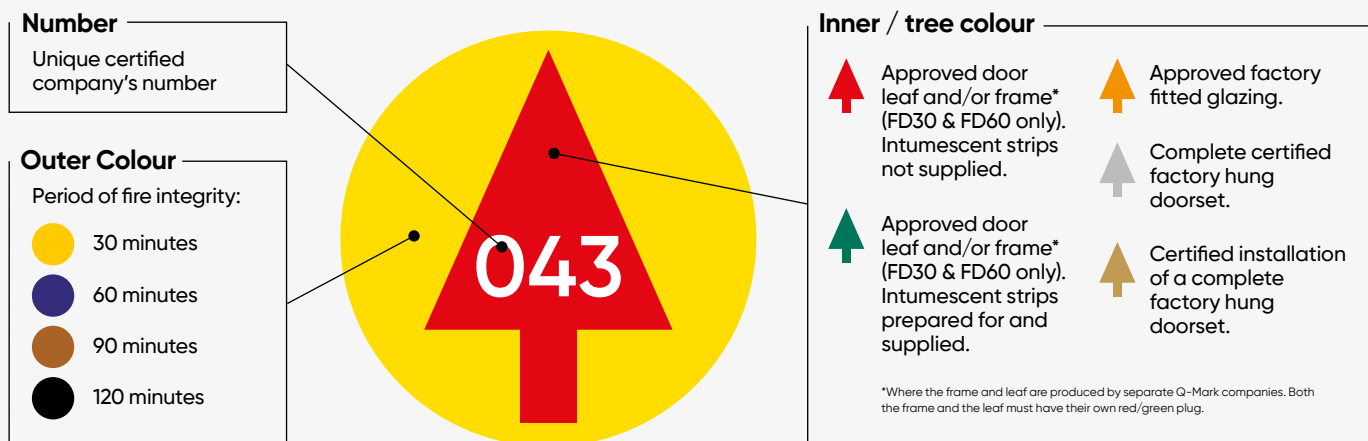
- In all instances the fixing position must be such that it provides adequate restraint to the element of construction throughout the exposure to fire.
- When fixing fire rated sidelight units, **additional fixing must be used** to fix through the frame head into the supporting structure either side of the sidelight joint.



Fire Door Certification Scheme

There is a legal requirement for manufacturers of fire doors to demonstrate the ability of their products to resist the passage and spread of fire. The IG Doors Ignis30 Fire Door is certified by BM TRADA.

BM TRADA are one of the UK's leading providers of independent, third-party certification and are a widely accepted quality standard. The scheme is designed to ensure that fire doorsets are installed correctly, in accordance with the manufacturer's instructions or appropriate guidelines.



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