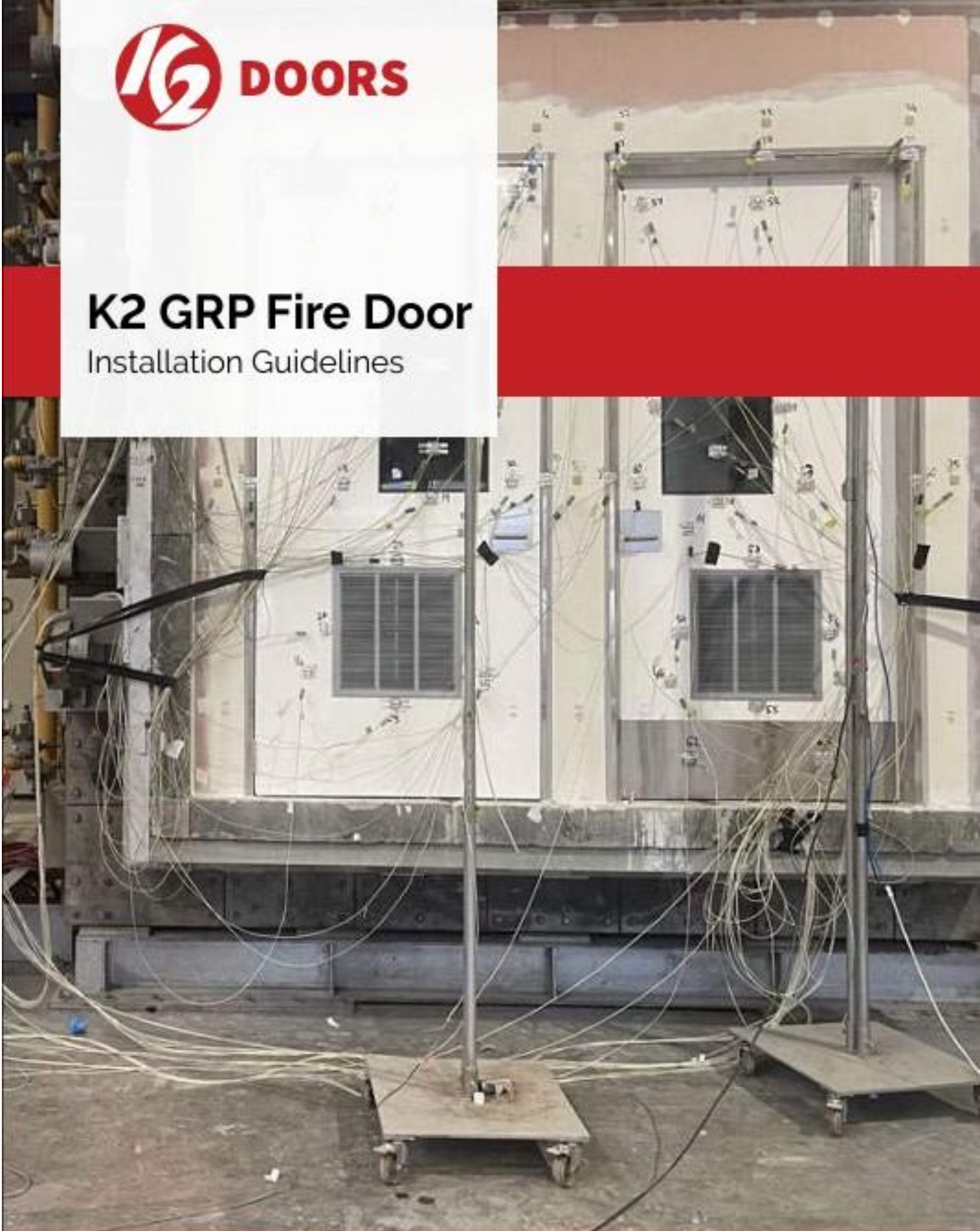




# K2 GRP Fire Door

## Installation Guidelines



K2 Doors

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# K2 GRP Fire Door

## Installation Guidelines

### K2 Fire Door Leaf

All K2 doors arrive to site protected; we advise that this protection stays on until the final clean down is happening. This protects the door from damage and keeps all sealant work clean and dust free.

It is advised to assess each door independently and use the correct amount of people to lift each item dependent on door weight.

### Do's

- When carrying the door leaf's, they must be carried on edge only.
- Lift the doors leaf's with care & place them down gently.
- Doors are to be stood upright against a wall with protection between door and wall, ensure they are well supported and have no more than a 10° lean.
- When doors are stood up extra protection must be put between the door leaf and the floor / wall
- Extra care must be taken when stacking doors against each other so no hardware clashes with another door, extra packing may be required.
- Store doors in a clean dry environment.

### Do Not's

- Carry the doors flat.
- Lie the doors down on the door either at or on edge.
- Sit the doors down on one corner.
- Store the put the doors on rough or uneven surfaces.
- Lean the doors against walls with more than 10° lean.
- Bump the door into obstacles when moving as this may damage the hardware or leaf.
- Store doors outside.
- Do any welding, cutting, machining around the doors as this may damage the leaf.

## **Hardware**

Generally all hardware for K2 doors comes fitted to the door leaf / frame. It is advised to take extra care when handling the doors and frames as to not damage the hardware.

Some extra hardware such as door closer arms, door stops, and door seals will arrive separate to the leaf / frame. This hardware must be stored somewhere dry and secure ready for installation when required.

Door seals must be stored on a clean at surface.

## **General**

Should you require any further information please don't hesitate to contact the team at K2 Doors for advise.

# **K2 Fire Door Installation**

## **Door Location**

Ensure that door to be installed is the correct door for the correct location in the building. Refer to K2 Doors door detail sheet and construction floor plans.

## **Door Installation Drawings**

Refer to the attached door installation drawings for specific wall types and fixings and requirements to suit each wall type.

## **Door Trim / Opening Size**

Check the door trim / opening size is within the below parameters for frame to trim / opening clearances. Door frame stile to door trim / opening max 10mm Door frame head to door trim / opening max 10mm

## **Installation**

Stand door set up in opening and wedge / pack frame so it is plumb and level with no wind in the frame.

Fix off the hinged side of the frame first with fixings as per door installation drawings. Then adjust head and other stile of the door jamb to suit and fix off. Ensure the below measurements are kept to.

- Leaf stiles to door frame max 5mm
- Leaf head to door frame max 4mm
- Leaf to leaf at meeting stiles max 5mm
- Floor clearance to be 10mm max above any floor finish or floor covering (To a maximum of 25mm if combustible floor coverings are still to be installed)

Fit PET backing rod around door frame to trim opening / opening.

Apply fire rated sealant around the door frame, finishing it back approx 8mm from front face of the frame and let it set. Leave a gap in the sealant at the top corners so grout can be filled into the frame cavity.

Mix grout up and back fill frame until the frame cavity is full, apply re rated sealant over grout holes Apply hygienic sealant over re rated sealant.

Set all door seals as required and as detailed on K2 door detail sheet.

Fix door stop in correct position and as close to the leading edge of the door as possible when open.

Fit any remaining door hardware and adjust to suit.

Check that opening and closing forces are in accordance with NZS 4520:2010 or Acceptable Solutions C/AS2 4.4.2.8

The forces required to open any fire door or smoke control door on an escape route shall not exceed:

- 67 N to release the latch; and
- 133 N to set the door in motion; and
- 67 N to open the door to the minimum required width.

These forces shall be applied at the latch stile.

## **POSITION OF FIRE TAG LABEL (NZS 4520:2010)**

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The position of the fire tag label shall be as follows:

- (a) For side-hung fire-resistant doorsets sufficient labelling shall be fixed to the edge of the hinge stile of the door leaf and to the door frame at approximately 1.5m above floor level.
- (b) For two-leaf fire-resistant doorsets each leaf of the door shall be labelled:
- (c) Where the installation of a label on the edge of the fire-resistant doorsets is likely to compromise the performance of the door, the label shall be relocated to the face of the door leaf at its top-hinged corner; and
- (d) Location - The location of the labels shall be as follows:
  - (i) Horizontally sliding doorsets - For horizontally-sliding doorsets, the labels shall be fixed to the trailing edge of the door leaf at approximately 1.5m above floor level and to the door frame, if any, at approximately the same height.
  - (ii) Side-hung doorsets - For side-hung doorsets the labels shall be fixed to the edge of the hinge stile of the door leaf and to the door frame at approximately 1.5m above floor level.
  - (iii) Two-leafed doorsets - Each leaf of a two-leafed Doorset shall be labelled.
  - (iv) Label installation - Where the installation of a label on the edge of the door is likely to compromise the performance of the door, the label shall be relocated to the face of the door leaf at its top hinged corner.

