Fitting and Fixing Instructions

Outward Opening Aluminium Bi Folding Doors

IMPORTANT PLEASE READ AND UNDERSTAND THESE INSTRUCTIONS PRIOR TO COMMENCING INSTALLATION

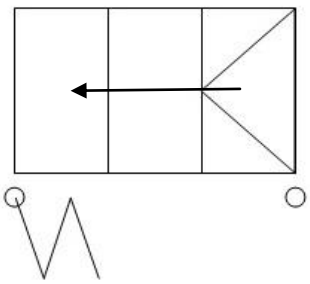
SAFETY: This product needs to be installed by a competent tradesman with assistance.

Two people are required to carry out the installation, as some components are heavy.

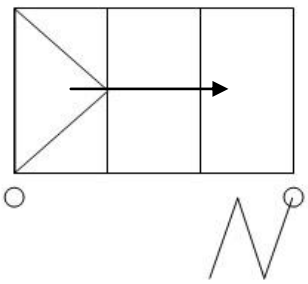
The outer frame requires fixing to the supporting structure above the opening.

3 Section (Outside View)

Opening to Left

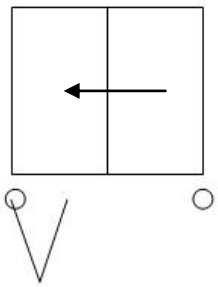


Opening to Right

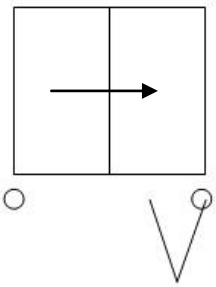


2 Section (Outside View)

Opening to Left



Opening to Right



Introduction

Thank you for purchasing our ALUVU Aluminium Bi Folding Doors.
Enclosed you will find all relevant fitting instructions to ensure a trouble-free installation process.

Your ALUVU Bi folding Doors come with our Comprehensive Manufacturers guarantee, however we will not be held responsible for problems that occur due to incorrect fitting.

It is **crucial** that installers follow these instructions to ensure no problems occur.

Please note: Two people are required to install this product as some components are heavy.

If you have any questions which you feel is not covered by the instructions please don't hesitate to contact us.

Tools and Equipment Required:

1. Steel and masonry drill, cordless drill, cordless drill, screwdriver, SDS drill bits will be required with suitable fixings.
2. External Grade Silicon Sealant
3. Spirit level, Packers, Silicon Gun / Foam Gun

Index:

Contents:

2 door leafs if 1790mm size

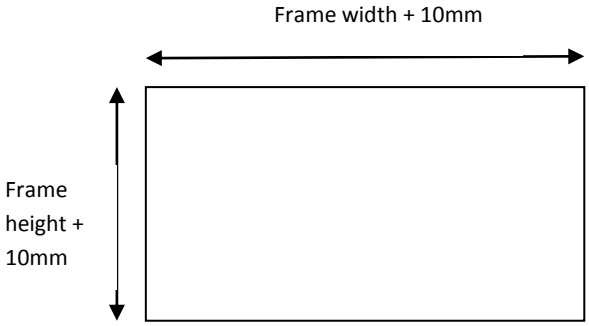
3 door leafs if 2390mm and 2990mm size

Box will contain the following:

- Cill
- 4 lengths outerframe
- Bag-cleats x 8 / screw / end caps x2
- Handles and keys
- Hex key
- 1 x tube of silicone
- Installation Instructions

1. Structural Opening

The structural opening should be frame height +10mm and frame width +10mm (see example below):



2. Preparing the outer frame for assembly/handling

Refer to Reference Images at the back of the instructions (where necessary).

A. Open bubble wrap packets and layout the frame top, bottom and sides on a dust sheeted floor.

B. Insert corner cleats into top of the frame and bottom of the frame. Note the wider cleats need to be inserted so it lines up with the hole. ***(image 2B)***

C. Apply a constant silicone bead along all mitres. ***(image 2C)***

D. Push sides into top of frame, once in, insert corner cleat grub screws with the allen key head facing the hole. ***(image 2D)***

E. Tighten up Allen keys on both sides so mitres line up . ***(image 2E)***

F. Repeat 4 + 5 when all corners are done.

G. Check diagonals to see if frame is square, if not release grub screws and tighten back up until they are.

H. Apply a constant silicone bead along the back of the cill. ***(image 2H)***

i. Push cill into place making sure the back of the frame is tight up against the cill upstand, tighten with supplied screws in the pre-drilled holes up through the bottom of the cill into the frame. ***(image 2i)***

J. Next apply silicone into each end of the cill. It's important to fully block up each side as the cill is used as drainage. ***(image 2J)***

K. Take the cill end caps and push them into place. ***(image 2K)***

L. The framework is now complete, lift the frame into the opening.

3. Fixing the frame into structural opening

M. Fit outer frame into prepared opening. Pack the cill so that it is exactly level (this is very important). Pack the frame and cill ensuring that diagonals of the frame remain 2mm of each other (this is deemed an acceptable tolerance).

N. *Fixing Jambs* - While the frame is temporarily secured by the packers, ensure that the frame is not knocked out of position. Drill through the jambs and into the brickwork. Insert the fixings bolts through the jambs and into structure and tighten, ensuring the jambs are not distorted. If jambs are distorted this

will affect the operation of the doors. We would suggest 5 fixings per jamb depending on installation setup, approximately 400 centres.

O. *Cill* – **Do Not** direct fix the cill. Pack and foam the cill. **Direct fix of the cill could affect drainage.**

P. *Fixing the head* - Head to be fixed using appropriate fixings, we would suggest fixing 350mm – 400mm centres (first fixing 150mm – 200mm away from corner of the frame) this may vary depending on the structure the doors are being installed into.

4. Fitting doors into outer frame

Q. Take door one and connect it to the hinge side of the frame, to do this line the hinges up with the backing plates and put grub screws in top and bottom holes of all hinges.

R. Next take door two and fit it into the frame by fitting the door to line up the rollers into the head and bottom of the frame. Once in slide door over to hinge side and connect hinges of both doors together.

S. Repeat process for the main traffic door. (3 section only).

T. Once all doors are on, fit the fixing screws through the middle of all hinges. ***(image 2T)***

U. The bi folding doors are ready to use.

Please Note – Corner gaskets to all door leaves to be beaded in with clear silicon. Please allow appropriate drying time.

5. Fitting handles

Fit the handles as per image (below) ensuring the screw is on the inside of the door.

6. Finishing and maintenance

Maintenance - These products must be installed in accordance with accepted good trade practice (and in accordance with supplied instructions where applicable), and maintained in accordance with these procedures or else the warranty shall be void.

Hardware - If building is subject to deterioration from everyday use, and also from environmental attack due to atmospheric and other conditions. Maintenance of hardware is even more important in severe environments such as coastal marine areas, an some industrial areas. Even stainless steel products require maintenance to prevent deterioration in some environments.

LPD Ltd requires the following minimum maintenance to be followed otherwise the warranty shall be void.

Stainless-steel bearings are manufactured from hardening-grade stainless steel and although this material performs considerably better than plated steels, it is susceptible to corrosion unless maintained as described above.

Tracks and Bearings - Using a spatula or similar item (not your finger), apply a small amount (typically a ¼ teaspoon) of white petroleum jelly (vasoline) or similar lubricant to the inner lip of each side of the track. Ensure that the wheels pass through the lubricant and it is distributed evenly along the track. Put additional lubricant around bearings. Remove all surface contaminants by wiping all visible track surfaces with a damp soft cloth and a mild detergent, then wipe with a clean cloth. In severe environments, apply a thin film of a corrosive preventative by wiping with a soft cloth moistened with one of corrosion preventative products.

Stainless-steel bearings are manufactured from hardening-grade stainless steel and although this material performs considerably better than plated steels, it is still susceptible to corrosion unless maintained as described above.

Hinges and rollers - Wipe down the visible surface with warm soapy water on a soft rag and then rinse off by wiping with a clean damp rag. Application of a thin film of a light of a light machine oil or one of the corrosion preventative sprays will help to maintain the original lustre of the metal finish. Be careful not to get these compounds on the timberwork itself as they may cause staining.

Handles - Refer to leaflet in box.

Frequency - The procedures mentioned in the above need to be carried out as often as is necessary to prevent deterioration in the installed environment, however we recommend the following minimum frequency of application:

- General environments 6 monthly
- Marine and industrial environments 3 monthly

Regular maintenance is required to all hardware, even stainless steel; otherwise the manufacturer's warranty may be voided.

7. Guarantees

In keeping with our quality policy, LPD offers the following guarantees on its products. These guarantees are subject to LPD Terms and Condition of Sale. Defects that are caused in whole or in part by failure to adhere to LPD recommendations relating to storage, handling, installation, decoration, glazing and maintenance, are not covered by the guarantees overleaf:

- 10 year on powder coat finish.
- 10 year guarantee against manufacturing defects.
- 5 year guarantee on insulating glass units.
- 2 years guarantee on moving parts.

Exceptional wear and tear of hardware through extreme use is not covered. LPD will accept no responsibility for products cut down in size after receipt, or when utility or structural

strength is impaired in fitting or application of hardware.

Hinges and hardware fitted must never be painted, and must be kept clean and lightly lubricated at all times. Use Vasoline or neutral oil. Keep moving parts lightly lubricated. Lubricate at least once a year, in coastal areas and/or places with high pollution, clean and lubricate more often.

The fitting instructions (where supplied) must be followed and the assembly, fitting procedures described must be strictly adhered to. All doors shall be installed correctly in accordance with the normal trade practices and adequately maintained in service.

Lastly, make regular checks to ensure that any drainage holes, channels and spaces are kept clear. Use a soft flexible brush or pipe cleaner with care to remove obstructions.

Reference Images

Image 2B:

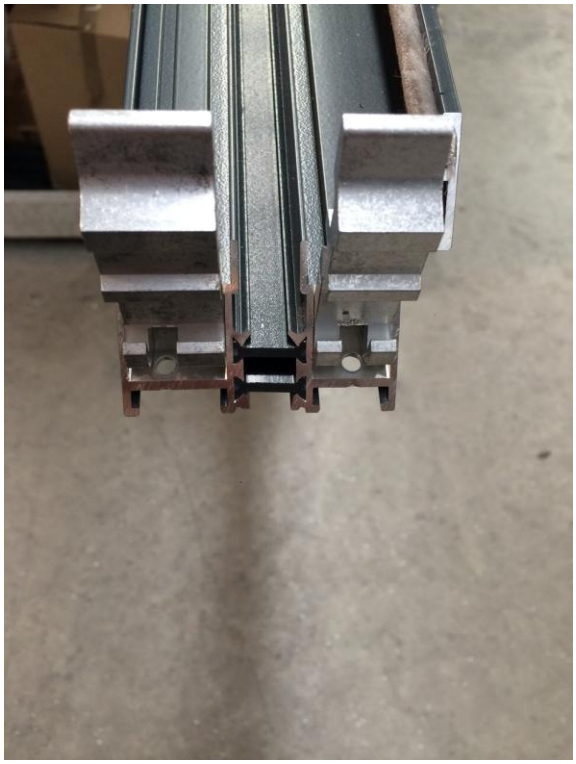


Image 2C:

Image 2B:

Image 2D:

Image 2E:

Image 2i:

Image 2H:

Image 2J:

Image 2K:

Image 2T: