



# PVC swing door



## Installation

Factory A 22 Humeside Drive  
Campbellfield Victoria 3061  
Ph 03 9357 5858 Fax 03 9357 5855  
Email [newton@nbeaustralia.com.au](mailto:newton@nbeaustralia.com.au)  
Website [www.nbeaustralia.com.au](http://www.nbeaustralia.com.au)



### 1 Check The Door Opening

Check the construction, soundness, dimensions, level and plumb of the door opening. Assess the soundness of the door opening and the hard points. Check the dimensions, level and plumb of the door opening if it is incorrect assess if the doorjamb can be corrected with packers or needs to be altered.

### 2 Disassemble The Door

Disassemble and remove the PVC swing door panel  
Using the 5mm allen key detach the white Acetyl bearing from the upper hinge assembly by removing the four cap screws. Allow the door panel to drop from the upper hinge, tilt the door panel and lift out from the bottom hinge.

### 3 Attach The Mounting Plate

Place the mounting plate against the door opening and attach  
Position the aluminium mounting plate against the inside of the door opening, ensure that the top hinge assembly is pushed up against the header ready for fixing. Ensuring the aluminium mounting is central and plumb on the door opening. Fix the mounting plate to the door opening with appropriate fasteners (high tensile) for the wall material.

### 4 Hang The Door Panel

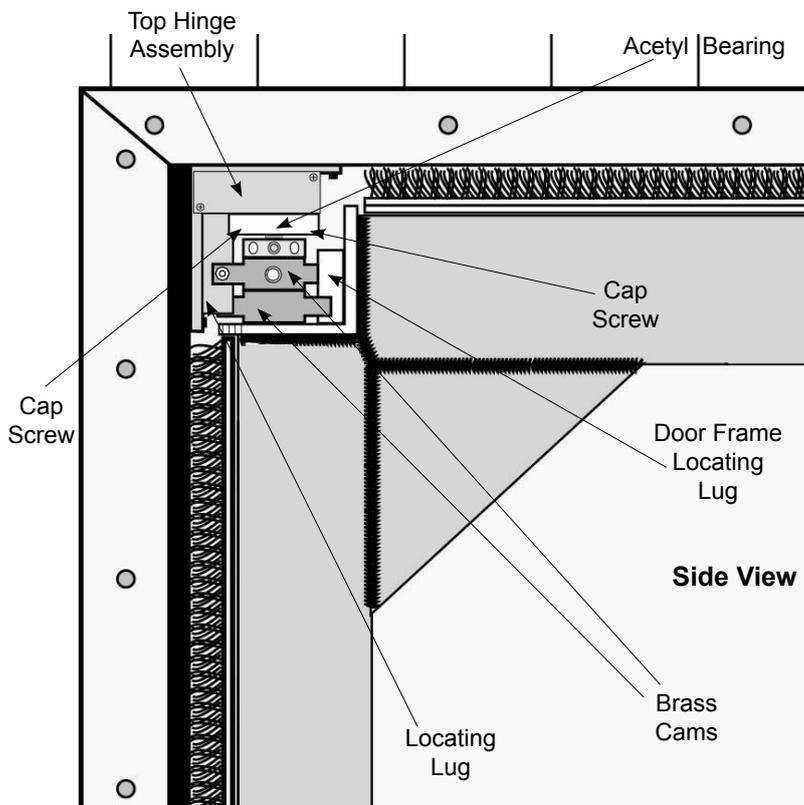
Refitting the PVC swing door panel  
Refit the door panel by placing the white Acetyl bearing over the shaft, tilt the door panel and lower the pin into the bottom bearing hole. Lift the door ensuring that setscrews on the brass cams are either side of the lug on the upper hinge. Reattach the Acetyl bearing to the upper hinge assembly with four cap screws and tighten firmly. Attach the SS safety cable.

### 5 Check The Doors Operation

Check that the PVC swing door is operating properly  
Assess if the door panel/s are hanging level, plum and square. Open the door panel/s to both extremes and allow them to close under their own power. Assess if the door panel/s reliably self close to their central position and seal. Refer to adjustment notes if the doors do not close correctly.

### 6 Allow The Door Panels To Settle

Allow time for the PVC door panel to settle, hang straight and true.  
Allow up to 30 days for the PVC door panel to hang straight, stabilise in length, adjust to the temperature.  
Trim the door panels to the required floor clearance using a sharp knife (retractable blade) and straight edge.

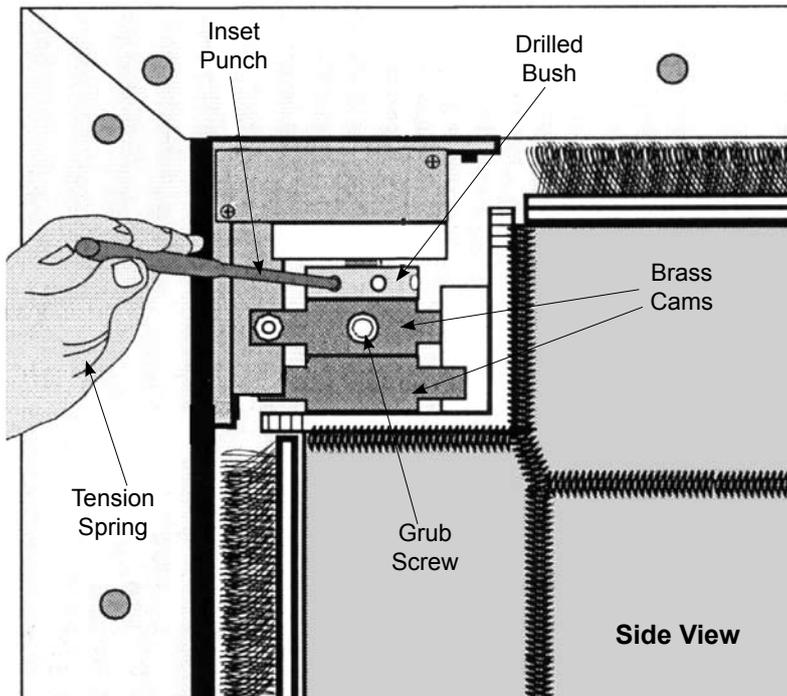


### Removal And Refitting The Door Panel

The door panel can be easily installed or removed from its hinges should it require maintenance. Using the 5mm allen key remove all four cap screws and detach the white Acetyl bearing from the upper hinge assembly. Allow the door panel to slide out from the upper hinge assembly. Tilt the door panel and lift the pivot pin out from the bottom hinge bearing. To refit the door panel place the white Acetyl bearing over the top stainless steel pivot shaft. Tilt the door panel and lower the pivot pin into the bottom bearing hole. Lift and straighten the door panel ensuring that the brass cams and adjusting screws are on either side of the lug on the upper hinge. Reattach the Acetyl bearing to the upper hinge assembly with four cap screws. The Acetyl bearing may need to be rotated slightly to properly align then tighten the four cap screws firmly.

### Adjust Spring Tension

The spring mechanism in your door has already been pre-tensioned from new and generally does not require adjustment. If the application requires more or less tension, adjustments can be made as follows. Use a dowel or punch as a lever in the top drilled bush to hold the full strain of the spring. Using a 5mm allen remove the grub screw from the brass cam. Rotate the drilled bush to either increase or decrease the spring tension generally by one hole or as required. Re-insert the grub screw in the brass cam ensuring it lines up in one of the internal holes on the pivot shaft. Ensure that when the grub screw is tightened it is flush with the surface of the brass cam. Do not apply more tension than is required to close and hold the door in position. Needless and heavy spring tension will increase the wear and reduce the life of the PVC panel.



**Floor Clearance**

Floor clearance is required to avoid strips being caught under the wheel of conveyancing equipment or tripping personnel. The clearance between the strip and floor is primarily determined by the type and frequency of traffic and generally varies between 5mm – 20mm. Ice build up and other materials may also affect the clearance between the strips and floor.

**Trimming PVC Panel**

The PVC door panels are designed to finish approximately 15mm off the floor. The PVC can be trimmed using a sharp knife and straight edge. Do not trim the PVC door panels until they have stabilised at the temperature they will operate in.

**Cleaning The PVC Door Panels**

The PVC panels should be cleaned by wiping with warm water and a mild detergent. Where the PVC panels are particularly dirty or discoloured by oils (animal fats) scrubbing with methylated spirits will generally clean them. Care should be taken not to use steam or hot water as this may permanently damage or discolour the strip (white).

**PVC Door Panel Wear**

To minimise the scratches and wear to the door panels all points and sharp edges should be removed from the trolleys, pallet jacks and forklifts. The life of the PVC door panels can be further extending by using strengthening bands in high wear areas

**Winds And Pressure Differentials**

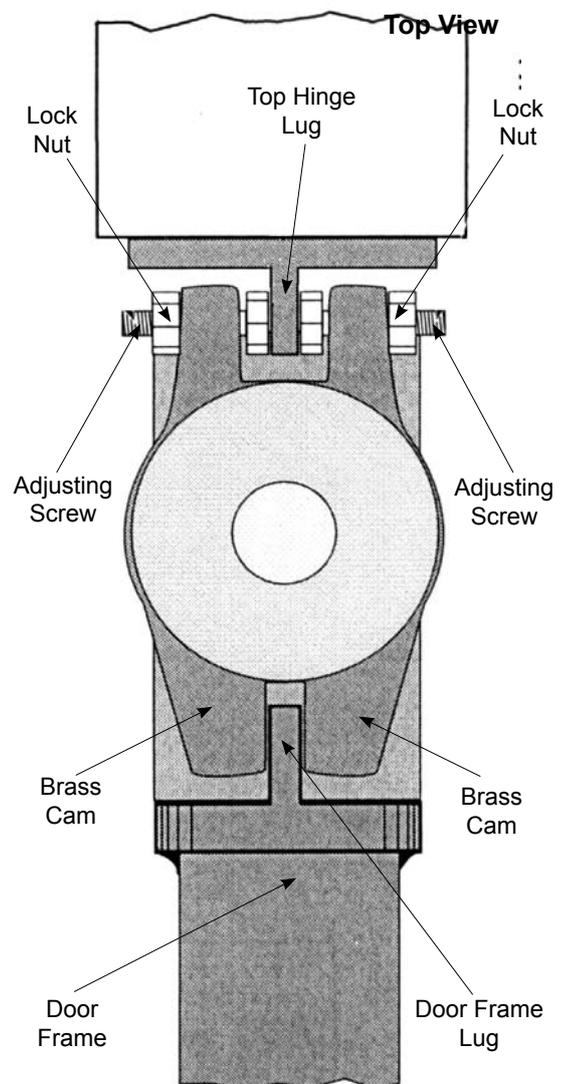
PVC swing doors may be used to minimise the affects of light wind, but will not withstand heavy winds or large pressure differentials. The effectiveness of using PVC swing doors in windy applications can be improved by increasing the spring tension in the hinge mechanism. NBE does not recommend strip doors as an effective method of blocking heavy winds or withstanding high pressure differentials.

**Door Adjustment**

The doors neutral position can be adjusted if required by holding the door in the desired position and winding both screws so they touch the lug on the upper bearing mounts. Tighten the lock nuts once the set screws are adjusted.

**Centralise And Align The Door Panel**

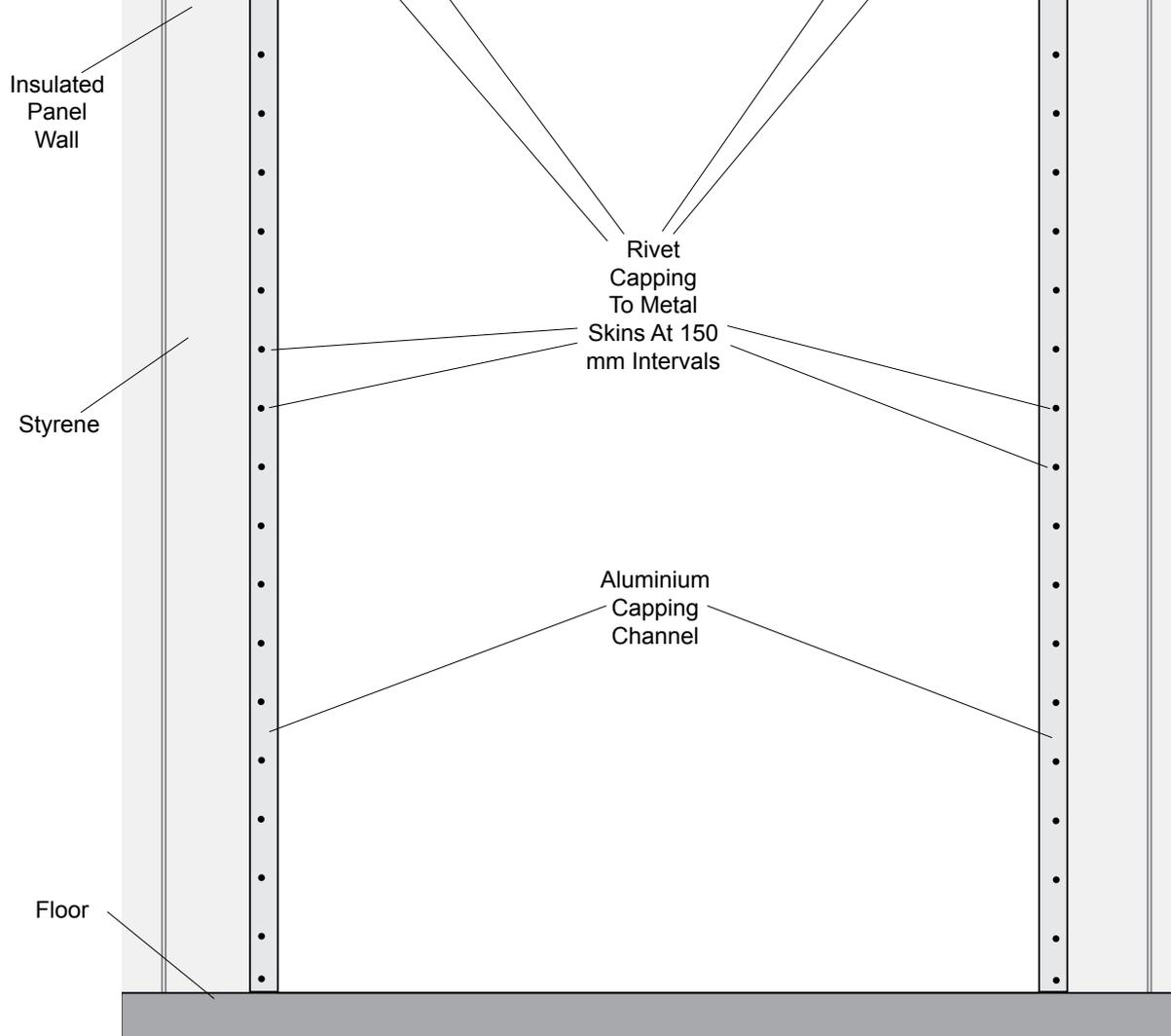
The door panel may need require to be realigned and centralised after a period of operation. Undo the lock nuts on the adjusting screws. Adjust both of the screws to centralise the door panel in the door opening. Ensure that when the door is in its neutral / central position there is not free movement between screws, cams and lugs.



**Fixing To The Door Opening**

The aluminium mounting plate is generally secured to the door opening using a battery powered drill and self drilling high tensile screws 40mm x 5mm and construction adhesive

**Front View**



**Installation**  
 Cut the wall opening the appropriate size for the door  
 Install the aluminium channel capping on the sides and top of the door opening  
 Pop rivet through the aluminium channel capping into the metal skins of the insulated panel (generally at 150 mm intervals)  
 Install door and screw bolt or rivet to the hard points in the door opening

**Top View**

