

## Before you start your Installation

Before you start installation of your Europa Insulated roller garage door you must ensure that the site is clear and that all fixing surfaces are free from any loose plaster or masonry. Ensure that both walls / steels are square and are have no irregularities that could damage or mark the back box (optional) or the door curtain.

## Unpack the door

The door curtain will be fully packaged when delivered, if the optional back and front boxes have been ordered the head plates will be factory fitted to the back box and will have the door curtain packed and rolled inside.

The guide channel sections should be unpacked and placed either side of the opening. The guide channel sections will have a square spacing leg to ensure that the guide is a good fit to the head plates. Always ensure that the guides are the correct way round.

## Level 1 - Preparing your Installation

**NB: If your door is fitted with a back box then please move to the next level as your overall size is preset.**

If your Europa Insulated roller garage door does not have an optional back or front box then please use the following door layout instructions.

To determine the back of endplate size you must measure the cut size of the door curtain – not including the black plastic endlocks attached to the curtain. Once you have determined the cut size dimension add 100mm to that dimension to give you your overall manufactured door width.

Measure the garage door opening and deduct this from the overall door width, the size remaining is then divided into two and marked on the garage wall, this is your overall door position.

## Level 2 – Preparing the Guide channels

If your guides have not been supplied pre-drilled, drill fixing holes (10mm) through the side guide channel box section starting 150mm from the bottom of the guide channel and evenly space thereafter, your last hole should be 150mm from the top of the guide.

**\*Important – On 400mm endplates please ensure that the plate peg is measured as it may exceed 150mm in length.**

Enlarge your outer fixing hole to 13mm on the inside face of the guide channel to accept the cover grommets.

To assist the smooth operation of the garage door a 20mm saw cut should be inserted at the top of both guide channels on the internal face, and the guide should be flared creating a feed arch below the plate mounted nylon idler wheel.

### **Level 3 – Preparing the end plates**

To prepare the end plates you need to drill a 10mm fixing hole in the top corner of each end plate.

### **Level 4 – Door guide channel and end plate assembly and fixing**

Fit the plate peg into the top of the guide channel box section, stand the guide channels upright. Level the guide channels with the garage opening. Check vertical level on both of the guide channel sections as well as horizontally level across the end plates.

**Note: If the optional back box has been ordered, you can install the barrel into the end plates before lifting into position (See level 7)**

### **Level 5 – Fixing the guide channels**

Fix the guide channel sections into place using the fixing holes previously drilled in level 2.

Secure each guide using a central fixing hole.

Ensure that the guides are level, then completely fix the guide channel sections but do not over tighten the fixings to compensate for mounting surface distortions, pack the walls if required.

**\*Please ensure fixings used are suitable for the garage wall build properties.**

### **Level 6 – Fixing the end plates**

Fit the end plates into position ensuring that the end plates are level and that the locating pegs are fully located into the guide channel box section.

Where a back box is fitted it may be necessary to fit the back box to the opening header to stop any marking of the door curtain during operation.

If additional fixings are required in the back box then we recommend that you use countersunk screws ensuring that the screw heads do not protrude as door curtain damage could occur.

## Level 7 – Motor barrel assembly

The motor barrel assembly is held in place by a “U” cup on the non-drive end of the motor barrel, and a motor backing plate on the motor end of the barrel.

The motor mounting plate will be pre-fitted to the motor plate and will require bolting to the motor unit.

The “U” cup will be fitted on the non drive-end plate.

The non-drive end of the barrel has an adjustable shaft, which is held in place in the “U” cup by a nut & bolt.

**\*Note: If the optional back box has been ordered, you can install the barrel into the end plates before lifting into position.**

- Mount the 100mm x 100mm motor mounting plate onto the motor head. Ensure that the motor head is in the correct position to allow the limits to be accessed and the over-ride to exit on the 45degree section of the end plate.
- Using the four countersunk bolts and nuts supplied, fit the barrel into position making sure the over-ride position is at the required point.

\*Please check over-ride outlet position with the diagrams on the opposite page

- When the motor over-ride position had been decided, tighten the motor into position in the end plate using a 10mm socket.
- Drop the non drive end of the barrel into the “U” cup on the end plate.
- Push the shaft in to the desired position. Inset the bolt provided through the “U” cup and the shaft , and lock it off using the nut provided.

## Level 8 – Installation of the manual over ride facility

The manual over ride eyelet and bar comes complete with a universal joint fitted, to enable the emergency winding eye to always be accessible.

The end plates are already prepared with exit points for the over ride facility, depending upon your desired exit point, however, it may be necessary to cut the aluminium end plate lip to allow free access for the over ride bar.

### **Internal Over ride**

The end plate has a pre-pressed indentation on the 45degree bevel edge internal face.

- Cut down the pre-pressed line with a junior hacksaw & remove the tab using pliers or a similar tool
- Cut Universal over ride bar to length

Insert over ride bar through the motor unit and fasten the end plate using self-drill screws provided.

**\*Note: If your door has an optional internal cover do not insert the over ride bar until the internal cover has been installed (See level 14)**

### **External Over ride**

The end plate has a pre-cut section on the outside face of the end plate which will allow the over ride bar to pass through.

If an optional back box is installed and / or the door installation is a face fix, the garage wall will also need to be drilled.

- Cut Universal over ride bar to length
- Insert over ride bar through the motor unit and fasten to the external wall using screws and plastic plugs provided

**\*Note:** An optional lock system is available for high level external over ride, if the optional lock is used, please follow the first step as above but do not install the over ride bar. Drill a 20mm hole into the box and end plate and insert the lock body.

Secure in place with blind rivets.

When the lock body is removed the over ride bar can then be inserted.

If optional low level over ride is required then please follow the separate instructions supplied with this option.

**Important note: When installing the over ride facility to the external elevation of the garage please ensure that the SECURITY CLOSE is activated on the remote control receiver (See level 10)**

## **Level 9 – Mounting and connecting the door controls**

Please refer to the enclosed control manufacturers instruction booklet.

## **Level 10 – Remote Receiver Unit Advanced Features**

Please refer to the enclosed control manufacturers instruction booklet.

## **Level 11 – Photocell and Safety edge Systems**

Please refer to the enclosed control manufacturers instruction booklet.

## Level 12 – Installing the door curtain

- 1) The door curtain is delivered ready rolled for installation with the bottom section to the outside of the roll to ensure the curtain does not get scratched during installation, the motor barrel metal tube should be covered by cardboard or bubble wrap.
- 2) Lift the curtain rolled and feed the bottom rail over the barrel section into the guide channels.
- 3) Feed the door into the guide channels approximately half way. Un-roll the remaining curtain so the curtain is hanging over the motor barrel.

Slide onto the top lath of the door curtain the curtain connection clips or (optional) Auto-locking units provided. Carefully slide the door curtain down to the closed position.

### **Auto-locks (Optional)**

By slipping the Auto-lock rings onto the location pegs, ensuring that all pegs are in the same hole series. Secure in place with the self-tapping screws provided.

\*Important note: The self-tapping screws do not fix through the barrel wall, they should only form a resistance with the barrel wall.

### **Door curtain connection T clips (Supplied as standard)**

Connect the curtain to the motor barrel by placing the T Clip heads into the pre-pressed holes in the motor barrel. The T Clips should be positioned either side of the pre-fitted spacer rings.

\*Never use the barrel holes immediately either side of the spacer rings, as the T Clip units will foul each other.

## Level 13 – Setting the motor travel Limits

All Europa Insulated roller garage doors are supplied with a Somfy tubular motor; the limits are a push button system, which needs to be depressed to initiate the travel stop. The rotation of the barrel is relative to the limit switch.

All motors are supplied with full installation and wiring instructions, please follow the steps below.

If you are unsure then please telephone Somfy UK on 0113 391 3030

- 1) Remove the limit cover

- 2) Depress fully both limit switch buttons
- 3) Ensure rotation is correct with the control unit indication lights for open and close direction. – If not correct please swap the brown and black connections for the tube motor in the control unit
- 4) Close the door to the desired position; the manual over ride can be used to achieve perfect positioning.
- 5) Depress the corresponding limit button and release. The limit is now set.
- 6) Repeat the process for the top limit position, using the remaining limit button.
- 7) Replace the limit cover, carefully ensuring that the limit switch buttons are not depressed

**Note: The motor unit has an inbuilt thermal trip unit that will activate once the motor unit reaches a pre-determined temperature. Repetitive usage during the limit fine adjustment process can cause the motor to cut out. Please wait approximately ten minutes for the unit to return to a normal operating temperature.**

## Level 14 – Installing the optional cover

The optional cover can only be installed once the limits are fully set

Clip the cover into the back box top retaining lip at approximately 10degrees  
Once clipped along the entire length of the back box top lip, place the cover tight to the head plates  
Drill and fix in place with self-tapping screws or pop rivets