

SeceuroDoor Industrial Installation Instructions

Always check on delivery that the order details are correct and the door is undamaged, especially **before removing any existing doors**.

Sequence of Installation & Contents

- | | |
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| 08. Attach Guide Channels | |

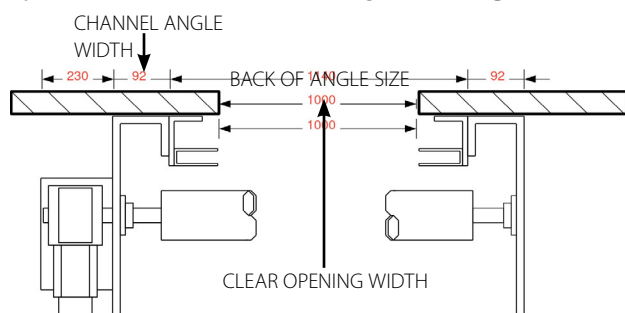
01. PRE-INSTALLATION & COMPONENT CHECK

Check:

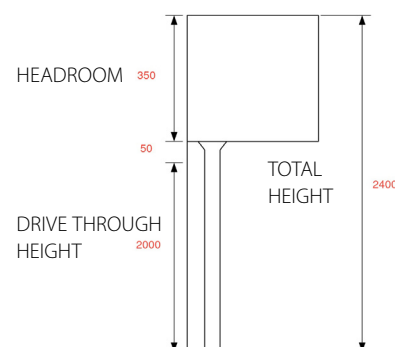
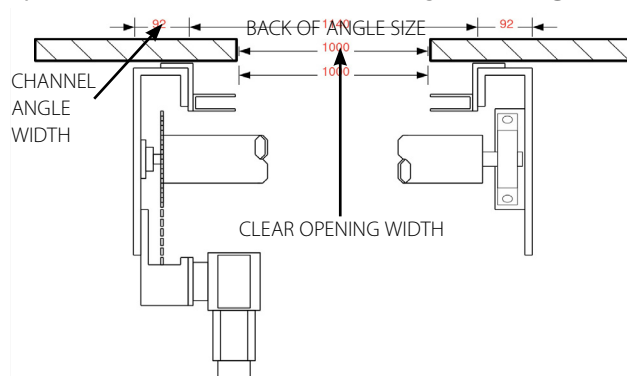
- Delivery note and number of packages
- Check for any damage to the guide rails or the outside of the curtain
- Assembly drawing
- Door dimensions/colour
- Opening dimensions/clearance
- Components/accessories

Do not proceed further with the installation unless you are sure that the door is the correct size, and all components are present.

Example Direct Drive Assembly Drawing



Example Face Fit Inboard Assembly Drawing



Parts Common to Each Installation

01. 1 x Control unit
02. 1 x Axle assembly
03. 1 x Motor
04. 2 x Channels
05. 2 x Channel angles
06. Curtain – several bundles, labelled from 1 (top section)
07. 2 x Universal endplates

Parts Dependent on Configuration

08. Fittings kits
09. Bearings
10. Motor control unit and cables
11. Motor bracket
12. Override kit
13. Drive chain
14. Safety brake and bracket
15. Reveal fitting kit
16. 4 x Jubilee clips

Parts Dependent on Optional Extras

17. Hood, fascia, motor cover
18. Hood fitting kit
19. Alternate control units

*Supplied in Accessory Pack

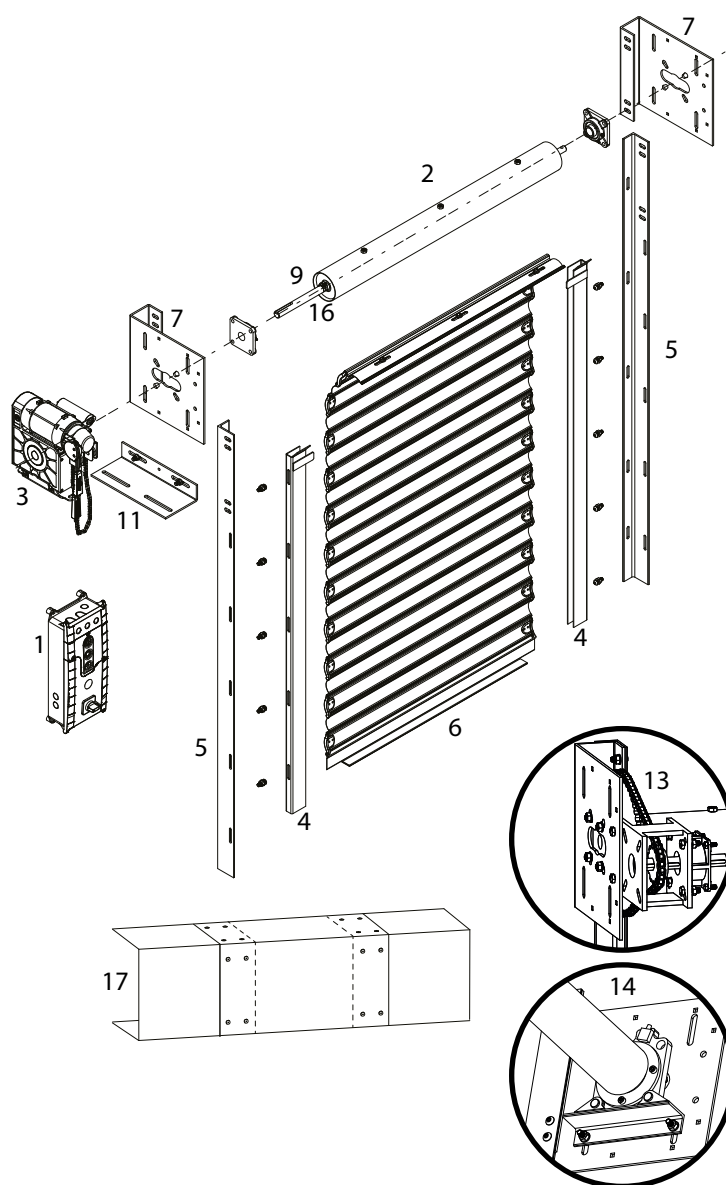
Recommended Fixings (not supplied)

Note: When installing the door, you must check the loading capacity of the fixings you are using.

Structural Material	Minimum Fixings	Recommended Fixings for Larger/High Usage Doors
Timber Frame	• M8 x 70 coach screws	• M10 x 100 hex heads
Block or Brickwork	• M8 x 100 anchor bolts	• M10 x 100 anchor bolts
Steelwork	• Tec screws • M8 x 10mm hex head or dome head bolts which must be tapped into the steelwork	• M10 x 25

Recommended Tools for Assembly

- 13mm ratcheting spanner/socket
- 17mm ratcheting spanner/socket x 2
- 19mm ratcheting spanner/socket x 2
- 24mm spanner/socket x 2 for 450mm end plates
- 5mm T-bar allen key
- 6mm allen key
- 8mm allen key for 500mm end plates
- Large flat bladed screwdriver
- Hand riveter
- Spirit level



Safety Obligations

Your safety, your end user's safety and that of the general public are our primary concern. To that end, please read, understand and follow our advice. These installation instructions are intended for qualified and trained installation engineers. Installation, initial operation, servicing, repairs and dismantling of this product should only be carried out by a qualified and trained installation engineer.

Site Installation Safety Guidance

This checklist is not exhaustive, but a guidance on the minimum amount of safety levels required. Your company needs to comply with relevant safety directives to ensure your and others' safety. Modern building sites are safe places to work and they will simply not allow an installation to proceed if they are not in agreement with your company's proposal for installation.

Relevant work site induction procedures are complete. Permits to work have been obtained as required.

- Method statements and risk assessments have been read and understood.
- Appropriate Personal Protective Equipment (PPE) to be used.
- Site specific hazards are understood and mitigated.
- Work area cordoned as appropriate.
- Other trades or persons in area to be briefed as to ongoing installation.
- Where appropriate, use motorised work platforms for working at height (scissor lifter).
- Keep work area tidy and free from trip hazards, etc.

Risk Assessment

Prior to any installation, commencing a full and adequate risk assessment completed by sufficiently trained personnel must be completed. This should consider such aspects as:

- Foreseeable misuse of the door in situ.
- Structural failure in normal use.
- Structural failure due to misuse.
- Electrocution and fire from electrical faults.
- Control system and safety device failure.
- Crush at main closing edge (although the operating forces characteristic is declared within the CE/ UK CA mark and declaration of performance, the door should be force tested referencing EN 12445 & EN 12453 prior to leaving site).
- Shear and draw in at moving part interfaces.
- Vehicle impacting door.
- Door impacting vehicles.
- Trip hazards at guide rails / photocell posts.
- Corrosion and wear or tear causing failure.

This list is not full and should only serve as a guideline; every installation requires a risk assessment specific to that site/product.

Conformity and UKCA Marking

To comply with the Machinery Directive both the shutter and the motor and controller used in the installation must have a Declaration of Performance from the manufacturer.

- On completion of the installation the installer must provide a Declaration of Conformity and apply a UKCA mark giving details of the installations to the shutter/motor and controller combination, which is now classed as a machine.
- The installer must issue to the customer a Declaration of Conformity, operating and maintenance instructions on completion of the installation.
- The installer must hold copies of both the Declaration of Performance and the Declaration of Conformity on a technical file for inspection by the relevant authorities.
- If any of the above requirements are not fulfilled, the installation is illegal.

Please ensure for your own safety and peace of mind that whoever installs your electric motor and controller is both willing and able to fulfil these requirements; if they are not – do not use them. As a member of the DHF we CAN and WILL install your motor and controller safely and legally.

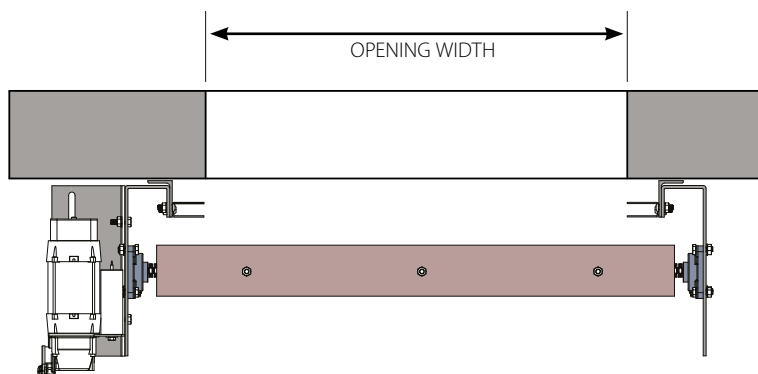
Installation Criteria

The structure of the opening must be adequate to take the weight of the door and suitable to take the appropriate fixings. The strength of the fixings must be enough to support a minimum weight of 25kg per square metre of the roller shutters. Be aware that this is a dynamic loading.

There are many configurations of the SeceuroDoor available, but these two configurations represent the most common variants. Any other configurations will be a variation on the diagrams shown below.

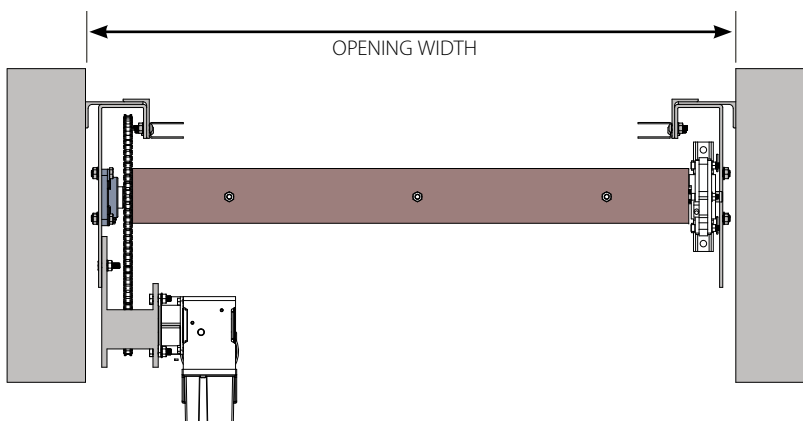
Installation Around an Opening

This installation arrangement tends to be the most common. You may be aware of it as a 'flag fix', 'face fix' or 'plant on'. The channel angles can easily be swapped to be outset or inset – with inset being the default standard.



Installation Within an Opening

This installation arrangement tends to be less common than installations around an opening. You may be aware of it as a 'reveal fix'. The channel angles are designed for an 'outset' fit. Extra stand-off angles are provided, which enable a 'face' to be created to fix the channel angles to.



COMPLIANCE WITH LPS 1175: ISSUE 7

- Must be installed internal face fix only.
- Head must be concealed behind the structure.
- Structures and fixing as shown:

Structural Material	SeceuroDoor 9501 & SeceuroDoor 7502
Timber	No.12 x 1.5" screws.
Block or Brickwork	No.12 x 1.5" screws with appropriate plugs.
Steelwork	No.10 x 1" pozi pan head screws or M8 x 10mm hex head/dome head bolts. Must be tapped into the steel.

- All switches, key switches and remote control equipment must be installed on the inside of the building for compliance with LPS 1175.
- The label supplied, stating the manufacturer, the product, the security rating and the certificate number must be attached to the door.

Please note: The validity of the LPCB certification is contingent upon the shutter being installed in accordance with the requirements of LPS 1175 & LPS 2081 as appropriate.

03. PREPARE THE OPENING

Check:

- i. Structure is sound/even & can carry the weight of the door and suitable to take the appropriate fixings. The strength of the fixings must be enough to support a minimum weight of 25kg per square metre of the roller shutters. Be aware that this is a dynamic loading.
- ii. No obstacles in fitting footprint e.g. no sharp objects, pipes, cables, bumps etc. sticking out from the pillars, lintel or header to twist the guides, distort the fascia or catch on the curtain
- iii. Floor is flat/level.

If necessary install a sub-frame to ensure secure, flush and level fixing.

04. FIT GUIDE CHANNEL ANGLES & END PLATES

FITTING AROUND THE OPENING

Fit Guide Channel

Note: The position of the channel angles around an opening is the most critical part of the installation, as it determines whether the curtain will fit down the channels.

The Assembly Drawing will provide you with the dimensions for **Clear Opening Width (A)** and **Back of Angle size (B)**.

- i. Use the Back of Angle size (B) from the Assembly Drawing to determine where the channel angles will fit.
- ii. Mark the position of the channel angles on the wall.
- iii. Fit both angles to the structure. The channel angles must be fitted to the correct spacing per the Assembly Drawing, plumb and parallel to each other. The top end of each angle must be level with each other.

Note: To help ensure a speedy installation process, the channel angles are pre-drilled for fixing to the structure. The installer must install using fixings appropriate to the weight of the shutter and the structural integrity.

Fit End Plates

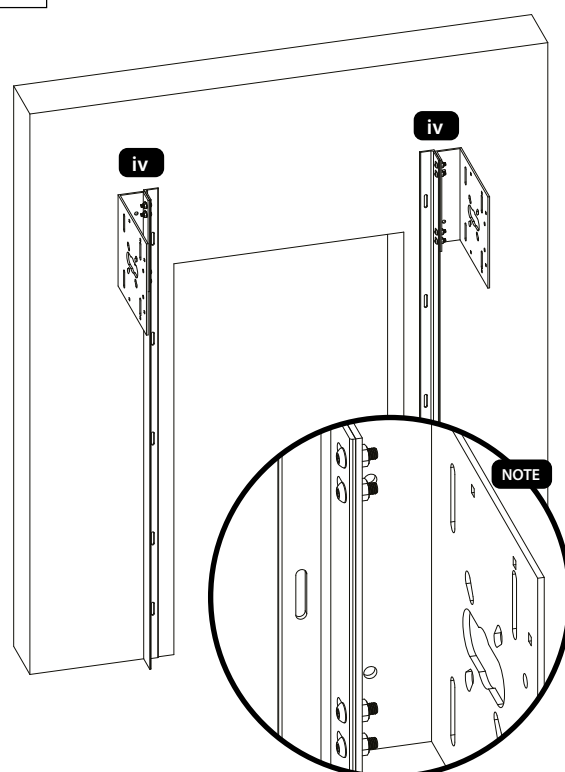
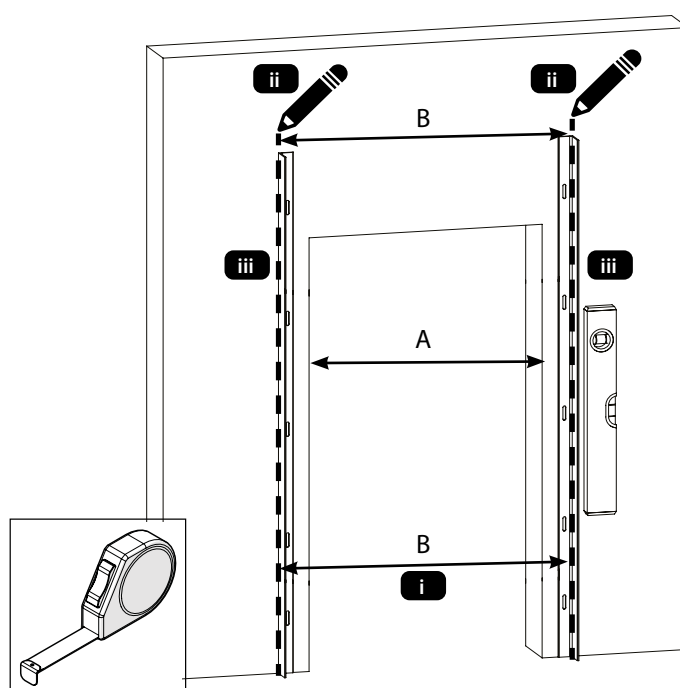
The supplied end plates are not handed, so they are reversible. They are pre-drilled and are to be attached to the matching holes on the channel angle.

- iv. Attach the end plates to the channel angles using the screws, washers and nuts from the 'End Plates' section of the fittings kit.

Note: The bolts must feed through from the channel angle with the nuts and washers on the inside of the end plate return flap.

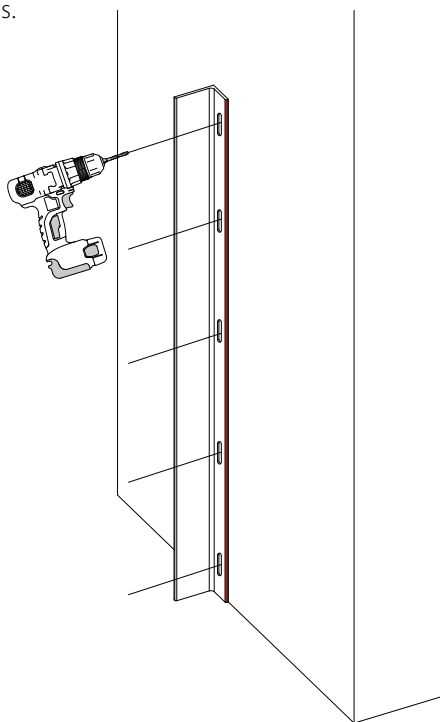
- v. Once the end plates are secured to their channel angles, they must be fitted to the structure. Holes have been pre-drilled in the back face to aid this if required.

Note: The end plates must be square and parallel to each other. Sometimes there will be a deflection caused by an uneven structure – this should be compensated for by using shims or washers.

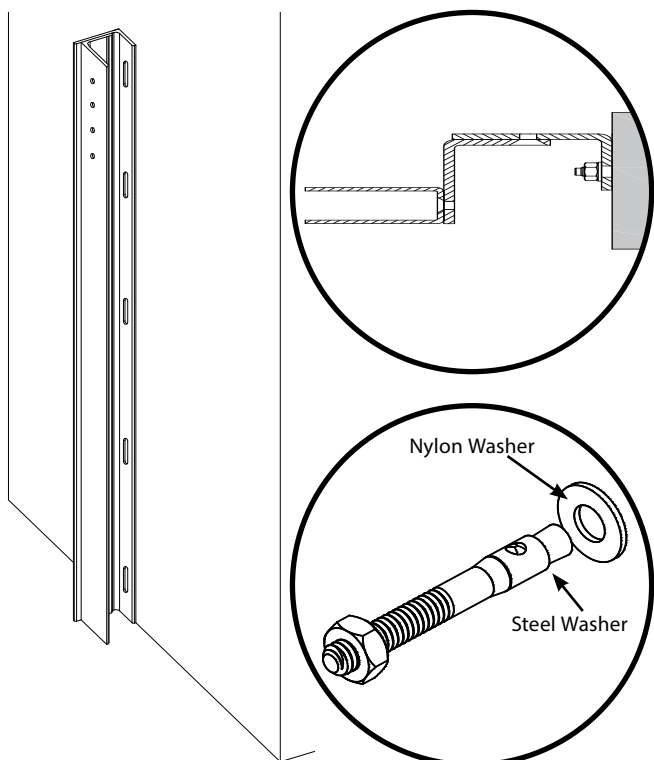


FITTING WITHIN THE OPENING

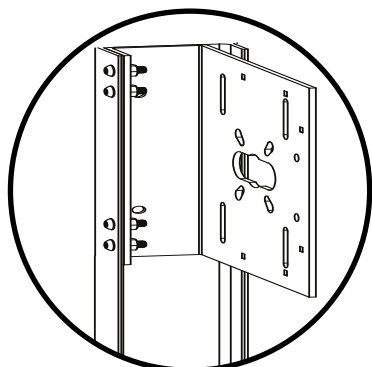
- i. Fit one of the main fixing angles to the structure using the recommended fixings.



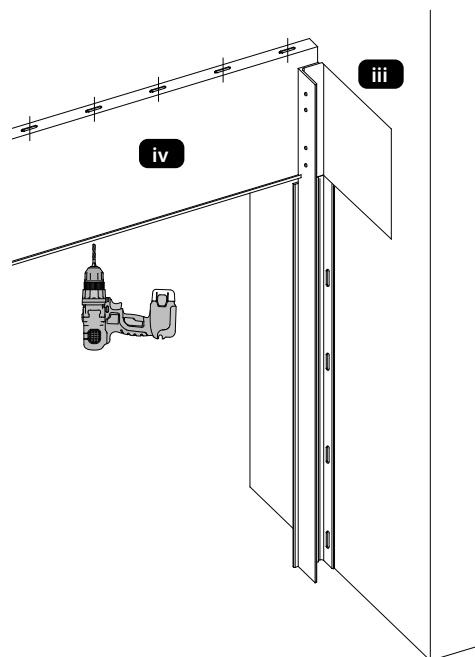
- ii. Bolt the second angle to the main fixing angle using the M8 nuts and bolts provided.



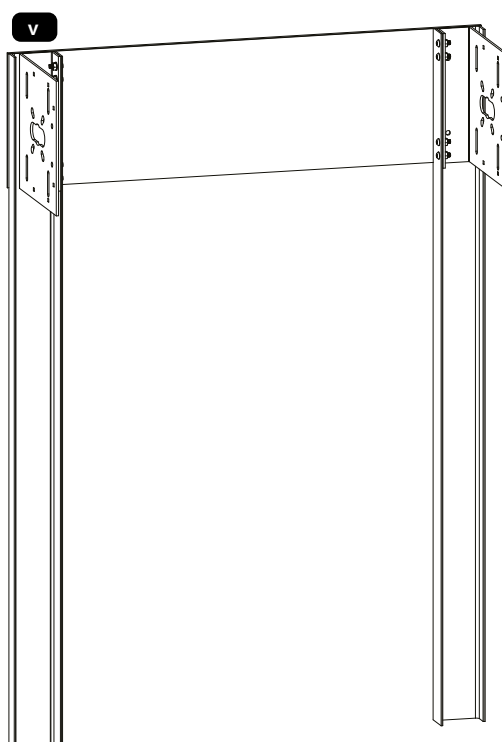
- iii. Fix the end plate to the second angle with the M8 nuts and bolts.



- iv. Fit the fascia before fitting the opposite end.

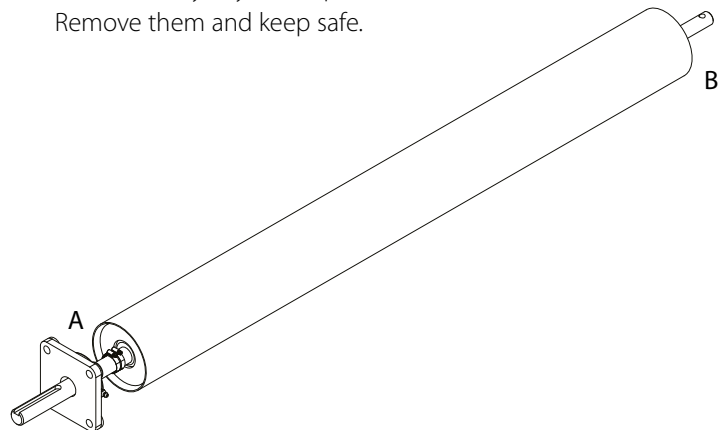


- v. Fix the remaining main fixing angle to the other side of the structure, bolt on the second angle then fix the second end plate to the second angle.

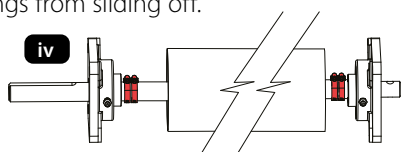


FITTING AROUND THE OPENING - DIRECT DRIVE

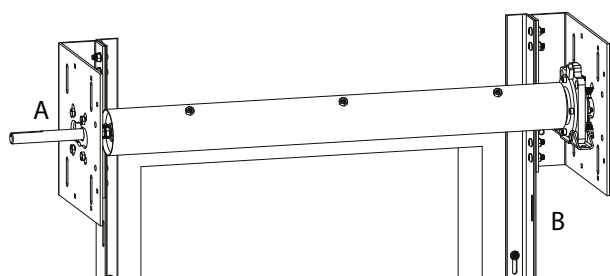
- i. The supplied axle will have a **drive end shaft (A)**, which has a keyway and is longer than the non-drive end shaft which is plain round. Remove the pre-fitted curtain attachment screws and washers and keep safe.
- ii. Check the keyways are taped to the end of the shaft. Remove them and keep safe.



- iii. Slide jubilee clips onto both ends of the axle, close to the barrel. You will have 4 clips in your accessories box overall. This is to allow you to fit 2 clips on each side if it is possible for you to do so.
- iv. Slide on the bearings and push them up towards the jubilee clips. Slightly tighten the grub screws on both ends to prevent the bearings from sliding off.

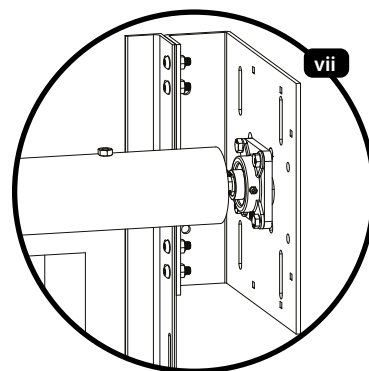


- v. Lift the axle up to the end plates and slide the drive end shaft (A) through its end plate hole first, followed by the **non-drive end shaft (B)**.



- vi. Adjust the position of the axle, making sure it is centrally aligned within the end plates. The design is such that each end of the axle will align with the inside face of the end plate flap that is used to attach to the channel angles. This ensures that the curtain will roll up evenly on the axle, as there will be no end-lock overlap.

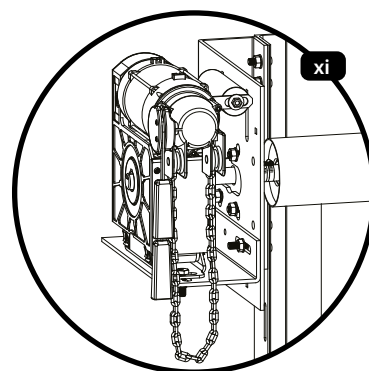
- vii. Release the grub screws and slide both bearings up to the end plates, then bolt both bearings to the pre-drilled end plate holes using the fittings supplied in the 'Bearings' section of the fittings kit.



- viii. Slide the jubilee clips so that they are positioned 2mm from the bearings on both ends. **Important: you must tighten the grub screws on BOTH BEARINGS.**

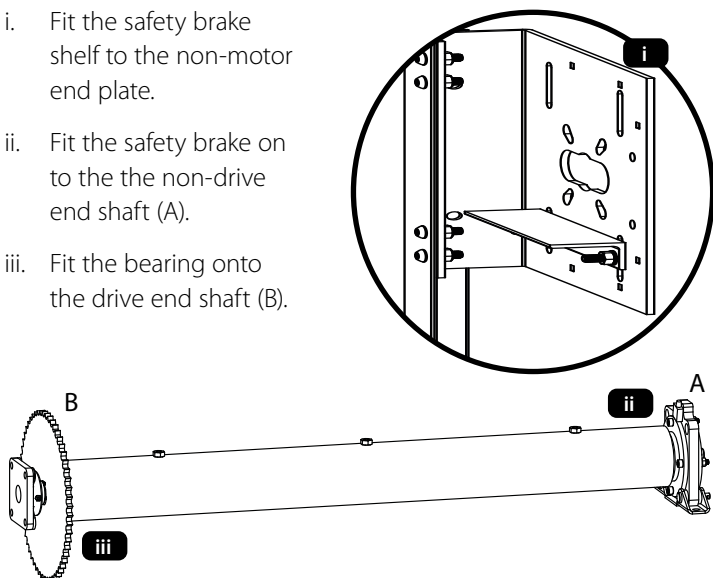
- ix. Replace the keyway on the drive end shaft (A) to ensure the motor can correctly engage.
- x. Bolt the motor support bracket loosely to the outside of the end plate to allow position adjustments. Ensure you have the correct side of operation.

- xi. Slide the motor on to the drive end shaft (A) and secure it motor using the 4 bolts supplied in the 'Bearings' section of the fittings kit.

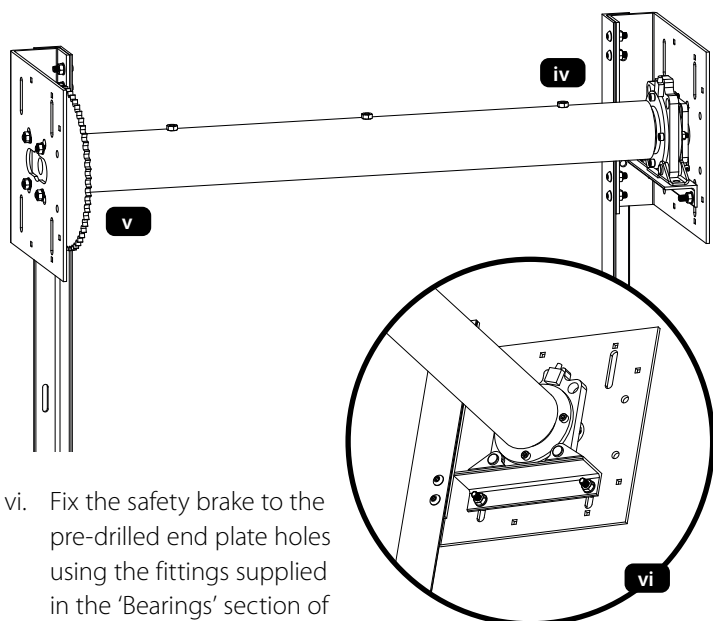


- xii. Position the motor bracket so it is tight up against the underside of the motor and securely fasten the bracket bolts.

- i. Fit the safety brake shelf to the non-motor end plate.
- ii. Fit the safety brake on to the non-drive end shaft (A).
- iii. Fit the bearing onto the drive end shaft (B).



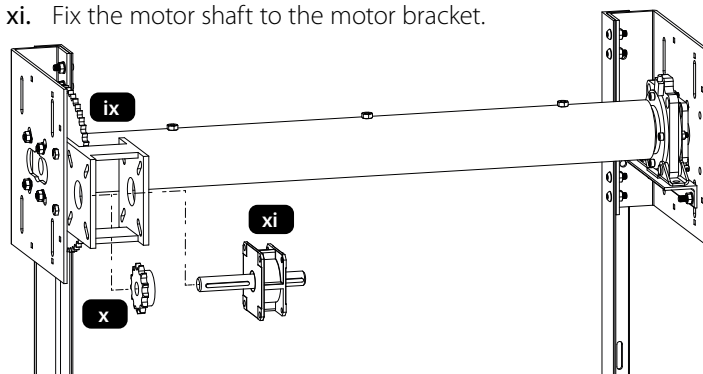
- iv. Lift the axle up to the end plates and slide the safety brake end shaft (A) through its end plate hole first.
- v. Slide the drive end shaft (B) into its hole.



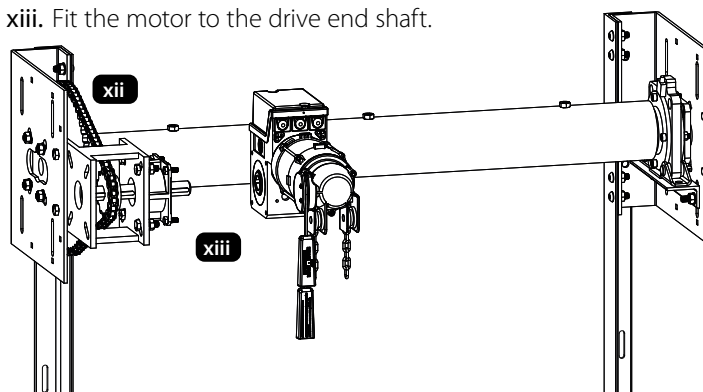
- vi. Fix the safety brake to the pre-drilled end plate holes using the fittings supplied in the 'Bearings' section of the fittings kit.
- vii. Secure the drive end bearing to its pre-drilled end plate holes using the fittings supplied in the 'Bearings' section of the fittings kit.
- viii. Align the axle from side to side. The design is such that each end of the axle will align with the inside face of the end plate flap that is used to attach to the channel angles. This ensures that the curtain will roll up evenly on the axle, as there will be no end-lock overlap.

Note: Please ensure that the grub screws in the bearings are securely fastened.

- ix. Fix the motor bracket to the drive end plate.
- x. Fix the small cog to the motor shaft.
- xi. Fix the motor shaft to the motor bracket.



- xii. Fit the drive chain.
- xiii. Fit the motor to the drive end shaft.



- xiv. Secure the motor with the 4 bolts supplied in the 'Bearings' section of the fittings kit.

06. CONNECT THE MOTOR

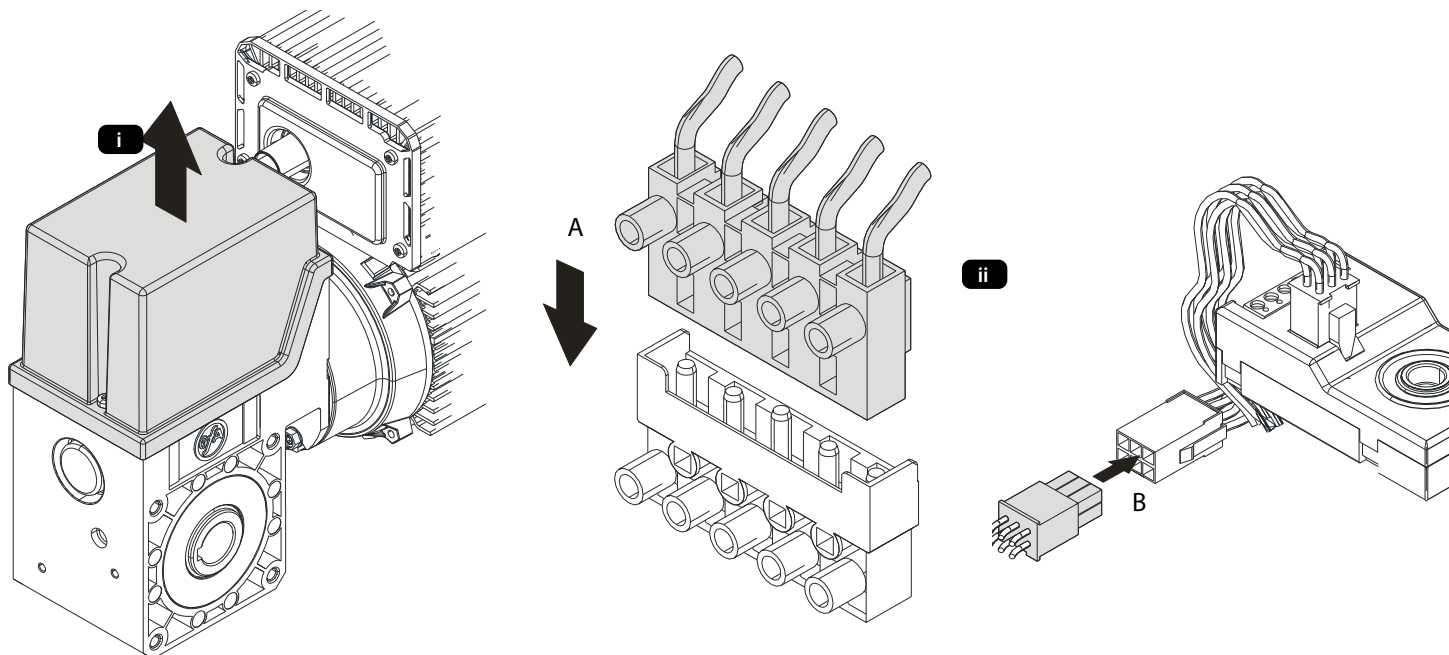
This section refers to SeceuroDoor installations using a GfA motor. Please refer to the instructions supplied with your motor for further information. If your SeceuroDoor has been supplied with an operator other than a GfA, the instruction manual for that motor will be with the motor in its packaging.

Note: A commando socket power supply is required and must be located within 1000mm of the control panel.



i. ATTACH MOTOR CABLE

- i. The motor cable has pre-wired plugs on each end. Remove the black housing on the underside of the motor.
- ii. Insert the motor plug (A) and limit switch plug (B) and feed the cable out of the housing and reattach the housing.



- iii. Feed the cable to where the control unit is to be installed. Ensure the cable is secured along its length by using appropriate containment or clips.

ii. ATTACH RED/GREEN TOGGLE EXTENSION CORDS

Extension cords are supplied and should be attached to the appropriate toggles to enable activation of the override mechanism by users from the ground. These can be simply looped and tied on and then the cord cut and adjusted to required length. Two cord guides are supplied and should be fitted against a flat surface to keep the cords away from the opening and any danger of snagging.

iii. ATTACH HAND HAUL CHAIN EXTENSION

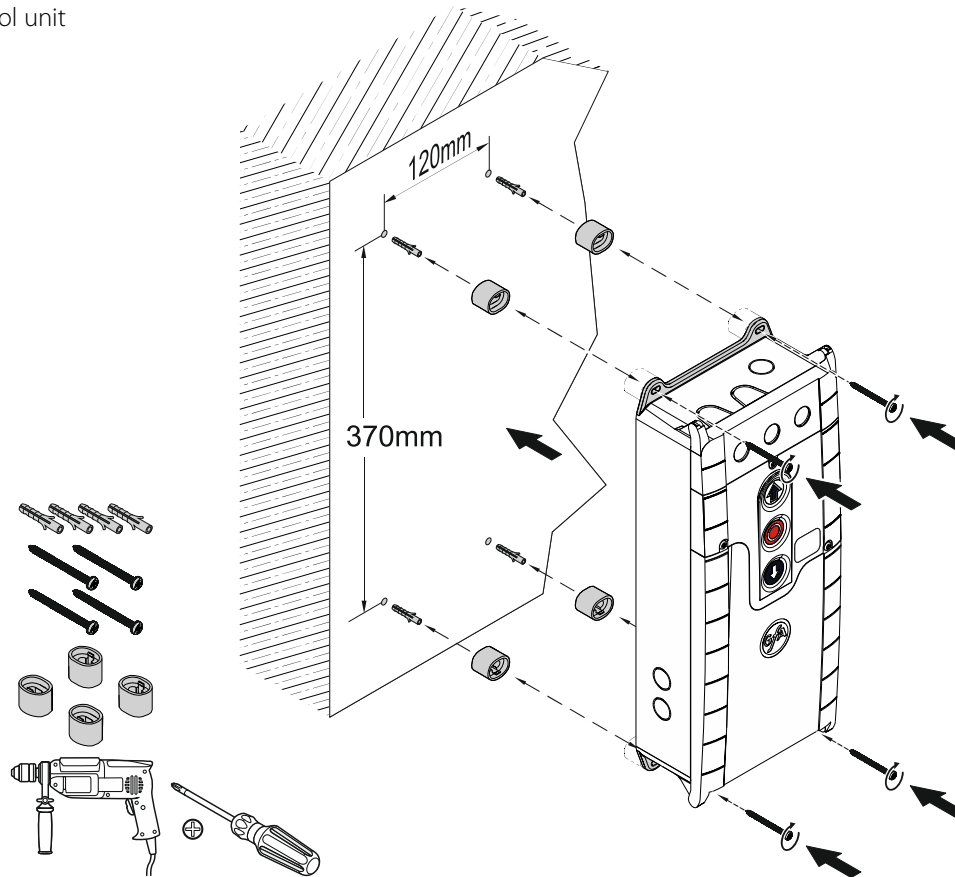
Only required if the shutter is taller than the standard hand haul chain. There is a special split link in the chain which does not require a tool. Split the chain and attach the extension, which also will have another special split link.

iv. MOUNT HAND HAUL CHAIN KEEP

The chain keep must be fitted and used to keep the chain away from the opening and any danger of snagging. The end user may decide to use a padlock with this keep, so it is important to ensure the keep is accessible.

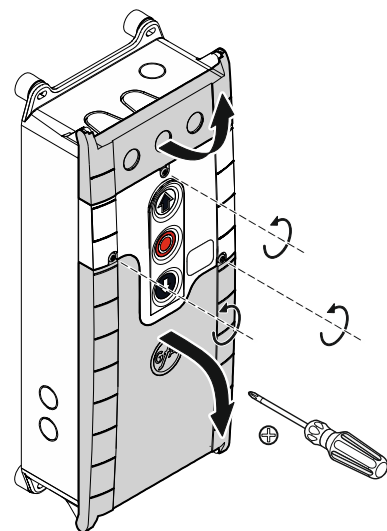
v. MOUNT CONTROL UNIT

Securely mount the control unit via the four fixing points:

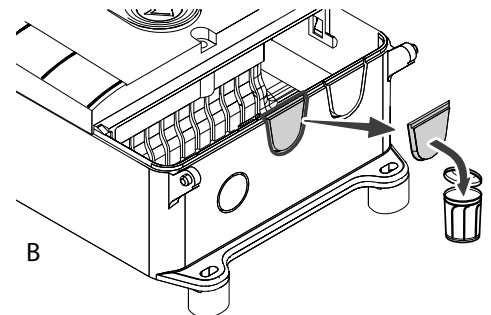
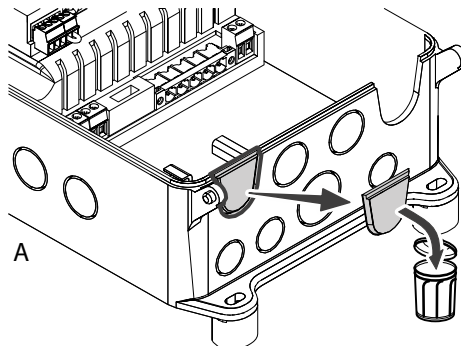


vi. ATTACH CONTROL UNIT POWER CABLE

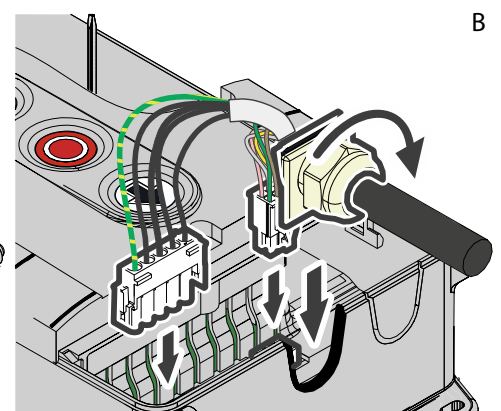
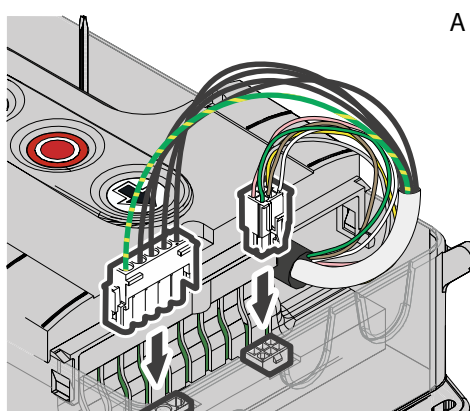
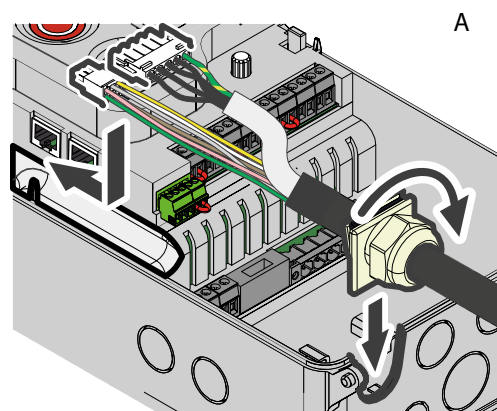
i. Remove the control unit covers.



ii. Open cable entry A or B.



iii. Insert and connect connection cable in the open cable entry A (from below) or B (from above) and properly tighten cable glands.



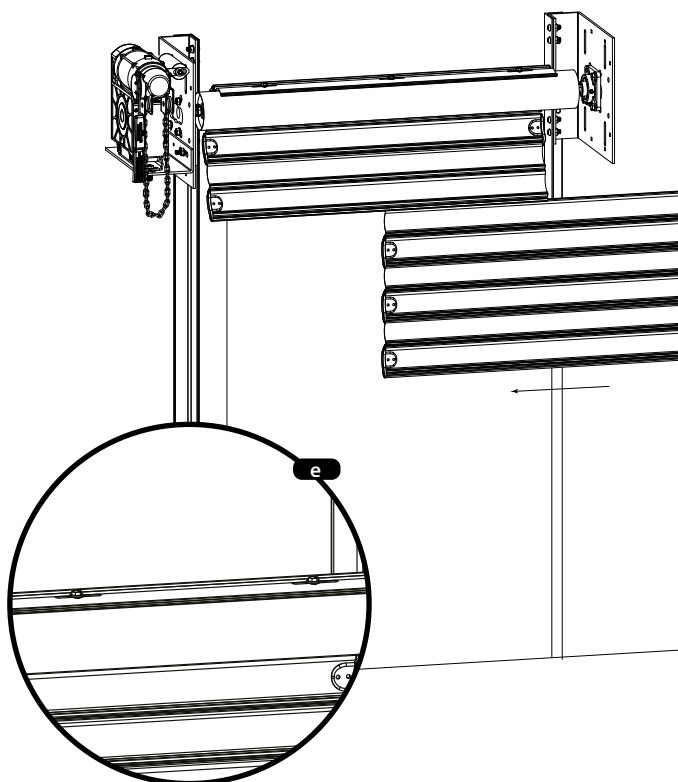
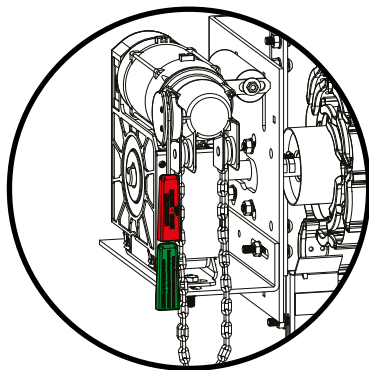
07. LOAD CURTAIN

Note: If you choose to use the manual override haul chain to load the curtain, great care must be taken as aggressive operation can damage the motor and is not covered under warranty.

- i. Engage the override drive by pulling the red toggle. Pull the haul chain until the axle has rotated to a position where the curtain attachment screw holes are accessible.
- ii. Connect the motor to the controller (see page 9), plug it in and switch on the power. The motor will be used to lift curtain sections into place.

Note: The curtain will be in bundles of approximately 35kg and clearly numbered from 1 (top) in order of attachment. The sections are rolled in their bundles so the top part is presented first. The top lath of the top section has pre-punched slots to enable easy attachment without having to move various attachment strips around.

- iii. Fit the top section of the curtain to the axle.
 - a. Offer the top section up to the axle from the far side of the axle and pull over the axle to align the slots with the attachment holes.
 - b. Loosely fit two screws and washers towards either end of the axle to take the weight of the first curtain section.
 - c. Uncoil the curtain and gently let it hang down.
 - d. Ensure the curtain section is aligned evenly between the channel angles.
 - e. The rest of the screws and washers can now be attached and screwed in firmly, as well as the original loosely attached screws.



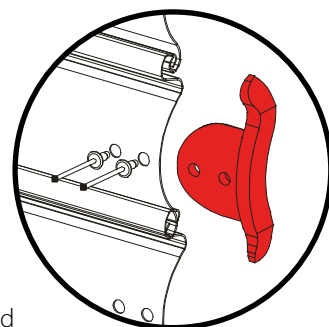
- vi. Install the remaining curtain sections:

Single Skin

The bottom lath of each section will be end-locked. There will be enough flexibility in the lath and end-lock to pull it away from the lath to enable the next section of curtain to be slid on. It may help if a medium sized flat bladed screwdriver is used to carefully prise the end-lock clear of the lath. If this is done, ensure that the end lock is returned to its correct position.

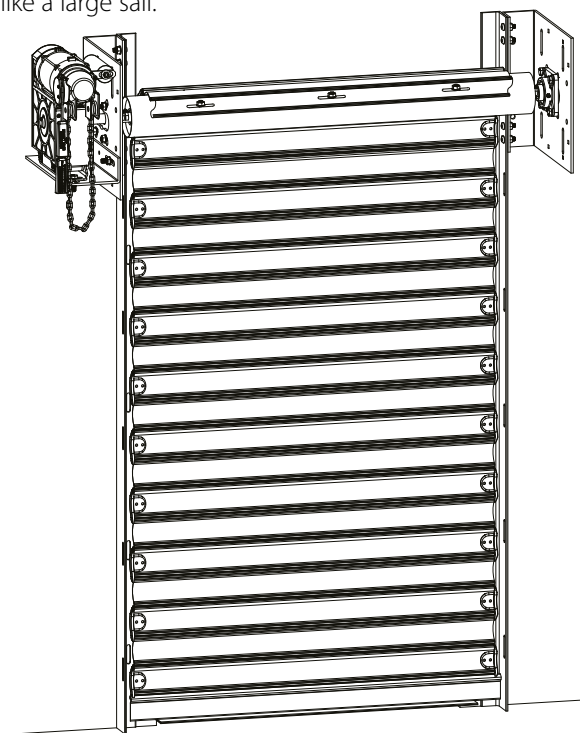
Insulated

The bottom lath of each section will have only one end lock riveted in place, with the other end lock loose and ready to be riveted in place. Slide the next section of curtain on from the open end and then rivet the loose end-lock into place with the supplied rivets. If sliding on from the open end isn't possible due to the nature of the structure, take the last lath off the upper section and slide it onto the top of the next section.

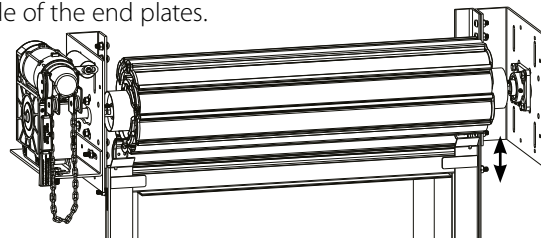


- vii. This should be repeated until all of the curtain sections are attached, using the motor to lift curtain sections into place.

Note: Care should be taken if it is a windy day, as the curtain will act like a large sail.



- viii. Once the curtain has been fully installed, haul it up until the bottom lath is hanging about 100mm down from the underside of the end plates.



08. ATTACH GUIDE CHANNELS

- i. With the door in the fully open position, offer up the appropriate channels to the channel angles.

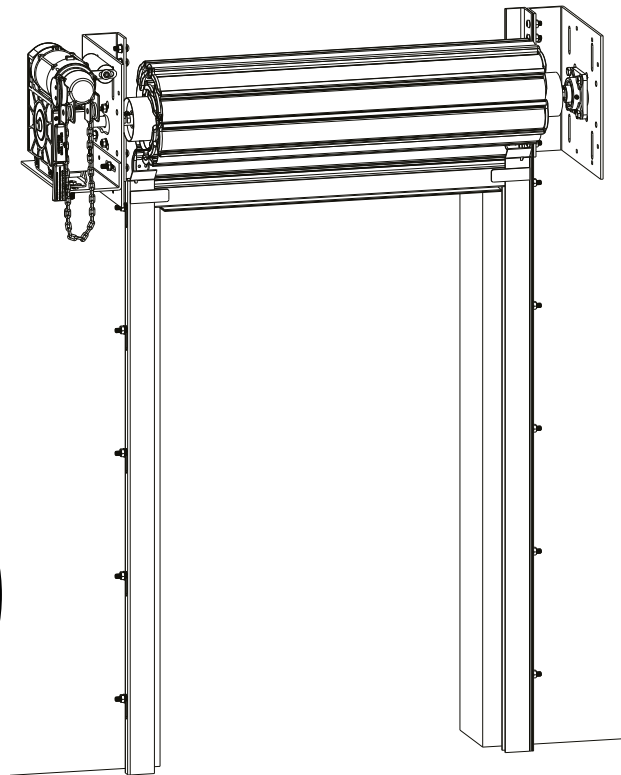
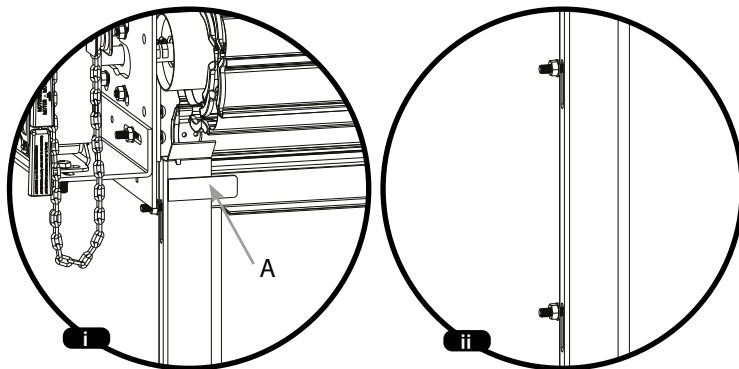
Single Skin

The channel may have welded on **tab-stops (A)** which will need to be guided over the T-rail bottom lath.

Insulated

There are no tab-stops, so it will be straightforward to position the guide channels.

- ii. Loosely fit all the channel screws and nuts to allow optimal positioning of channels before fully tightening.

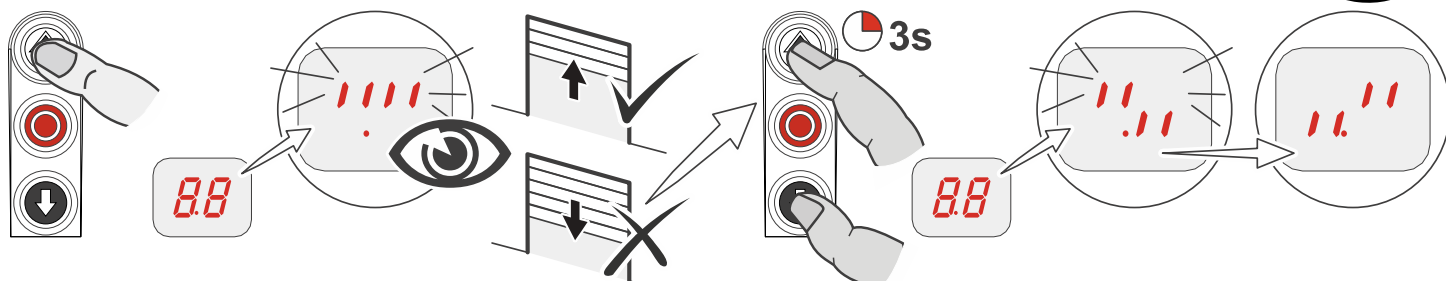


I. SET MOTOR LIMITS

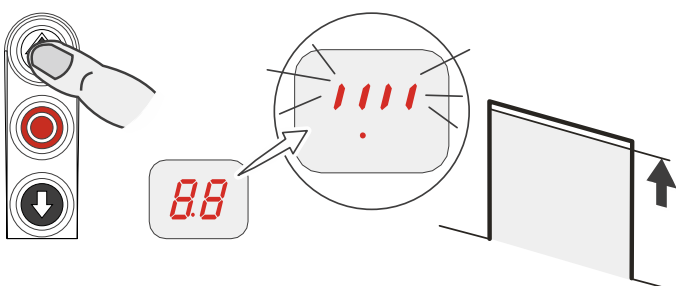
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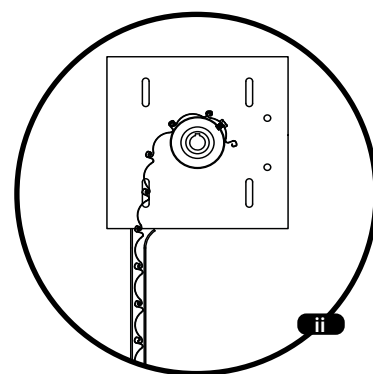
- i. Check output rotating direction.



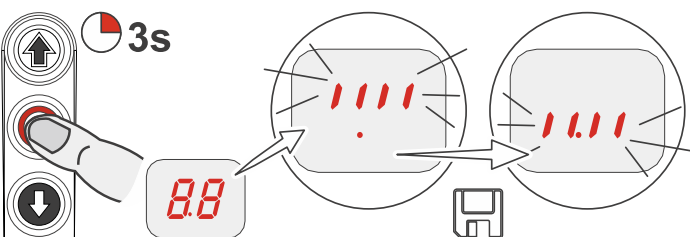
- ii. Carefully open the door using either a motor test lead or the remote control unit so that the curtain is fully open.



Note: The closed position should be set at 4 o'clock. This is particularly important for Single Skin doors.

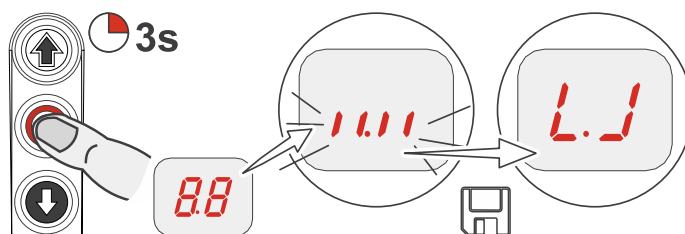
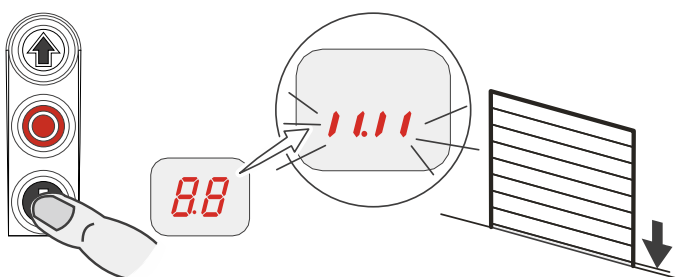


- iii. Save OPEN final limit position.

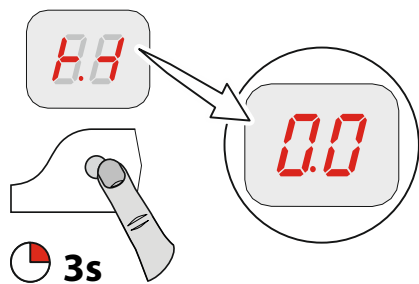


- ii. Carefully close the door using either a motor test lead or the remote control unit so that the curtain quirks are closed to a height of 1m to 1.5m from the floor; this will prevent the curtain from deflecting under excessive weight from the curtain sections above.

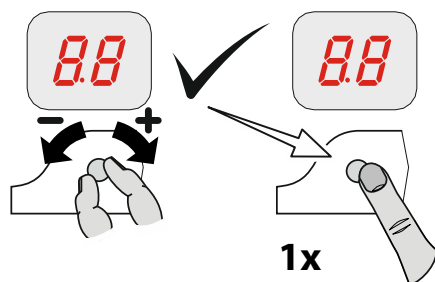
- iii. Save CLOSE final limit position.



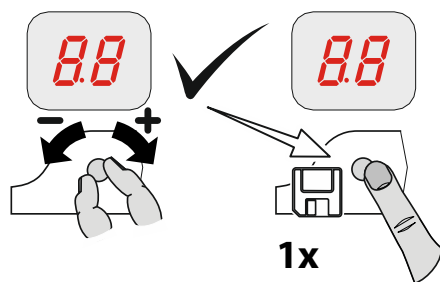
i. Start programming.



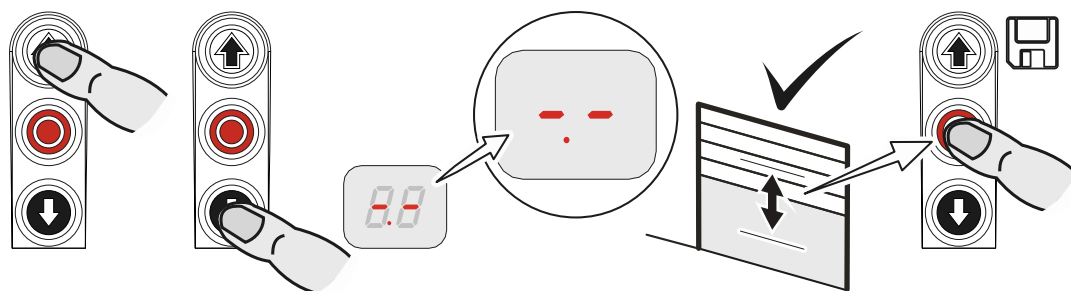
ii. Select menu item and confirm.



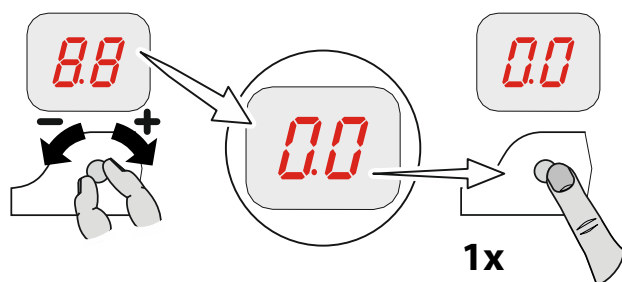
iii. Set and store functions



iv. Set and store positions

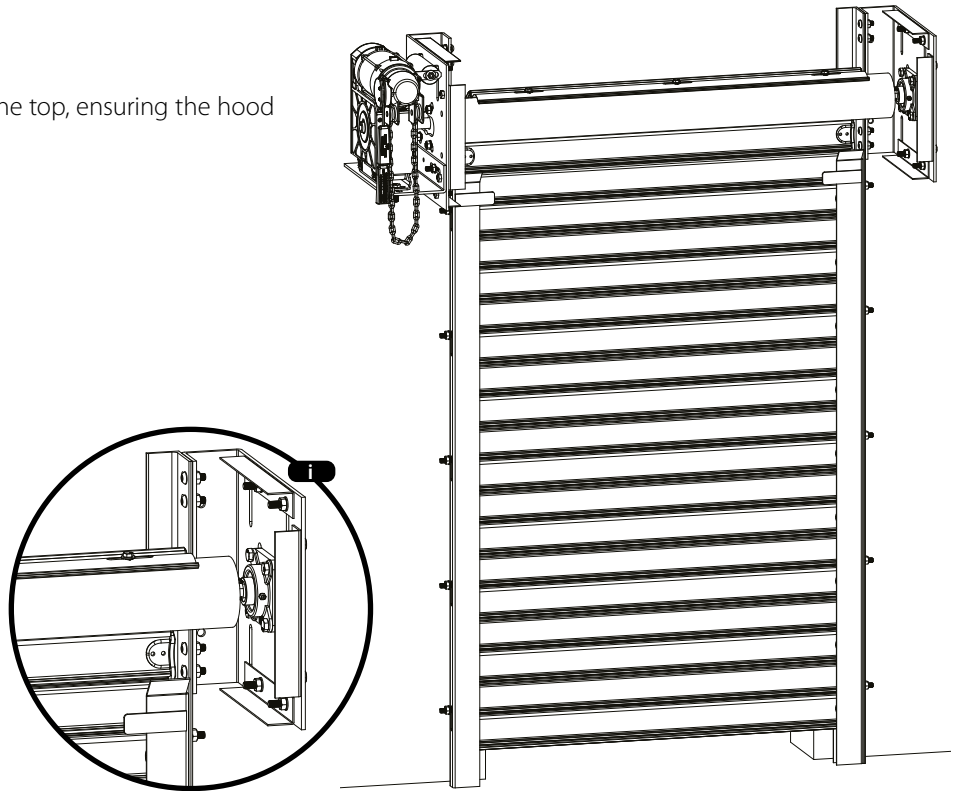


v. Exit programming



10. FIT HOOD (OPTIONAL)

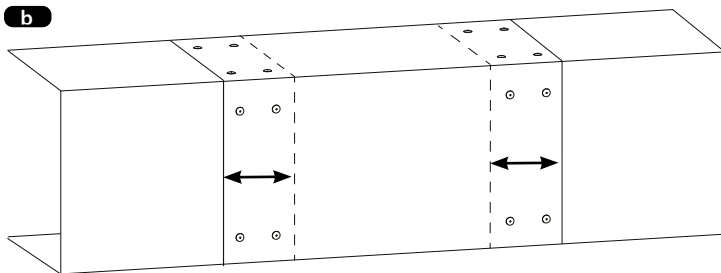
- i. Fit the hood angles to end plates.
- ii. Secure the hood to the hood angles.
- iii. Fix the hood to the structure across the top, ensuring the hood does not sag in the middle.



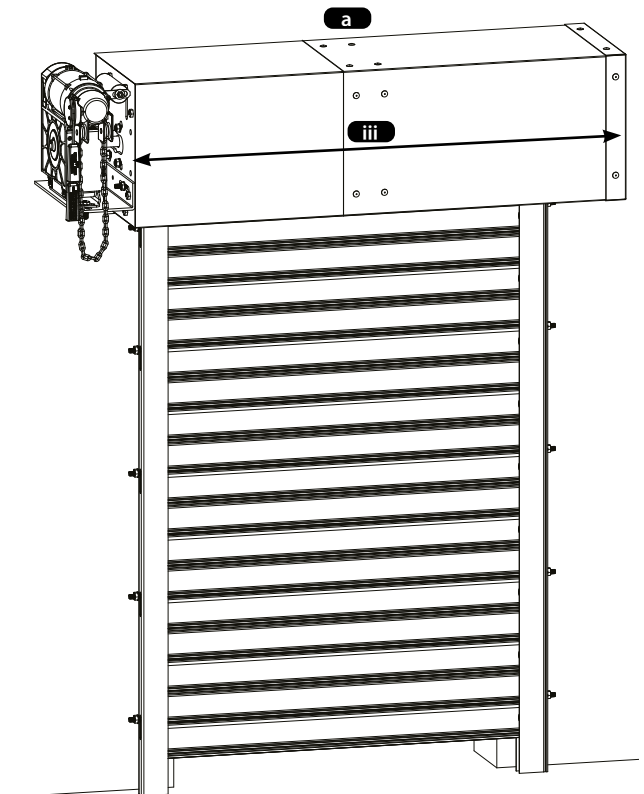
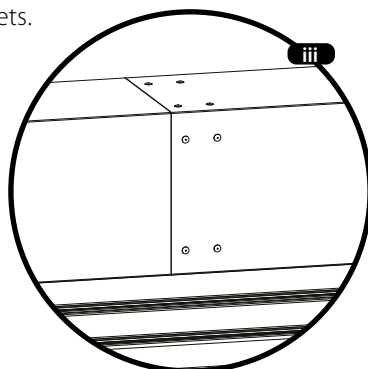
Larger Doors

Note: Hoods are supplied in sections on larger doors and must be fixed together before fitting:

- i. **a) Two-Part Hoods** Lay out the male and female sections to the overall end plate size.
- b) Three-Part Hoods** Lay out the two male sections to the overall end plate size. Put the female section across the top so that it is equally positioned across both male sections.



- ii. Check the total width is the same as the overall shutter width.
- iii. Rivet in place with double rivets.



11. FINAL CHECKS

- i. Force test the door.
- ii. Ensure the shaft collars are secure and correctly fitted, and do not inhibit travel/rigid parts.
- iii. Check operation of safety edge.
- iv. Check operation of the transmitter.
- v. Lubricate bearings.
- vi. Check grub screws in the bearings are secure.
- vii. Check jubilee clips are fitted to the shaft and are secure.
- viii. Check endplates are secured to the building structure.
- ix. Check smooth operation of the door leaf.
- x. Check all mechanical fixings are secure.
- xi. Check the canopy hood/fascia/motor cover (if installed) is securely attached.
- xii. Check motor cable is securely attached away from any moving parts.
- xiii. Check operation of manual override mechanism.
- xiv. Check operation of manual override electrical interlock – hand chain only.
- xv. Check door travel limits.
- xvi. Check correct operation of control system.
- xvii. Check correct operation of safety systems fitted.

Handover Procedure

It is intended that the whole machine is provided by SWS UK. Alternate motors will not meet the criteria within the declaration of performance, declaration of conformity or CE or UK CA mark and are therefore not legal. SWS UK will not provide a declaration of incorporation for the door without a motor.

- The customer/user must be adequately trained in the use and operation of the door.
- The maintenance schedule should be agreed with the user, they should understand this to ensure the door is serviced correctly.
- The operation and maintenance manual must be handed to the customer/user.

12. OPERATING INFORMATION

Upon completion of the installation the end user/operator of the shutter must be trained how to operate the product safely paying particular attention to the following points:

- The shutter should only be operated when in view.
- The operator must ensure there are no objects or persons in the opening before and during operation.
- The end user must read and follow the instructions given in the operating and maintenance instructions.
- In the event of a malfunction the end user should follow the instructions given in the operating and maintenance instructions and if required contact the installer.
- Their responsibility in law to maintain a regular and appropriate service and maintenance schedule.

13. RECOMMENDED SERVICE PERIOD

The recommended service period for a shutter which will operate on average two cycles per day is once every 12 months. If the shutter will perform a greater number of cycles per day the service period should be shortened accordingly. One cycle is a full open and close sequence.

14. WARRANTY INFORMATION

The warranty for this product is only granted if:

- The installation is carried out by a competent installation engineer following these instructions.
- Only original parts are used.
- No additional objects are attached to the door.
- Regular and appropriate maintenance checks are performed.
- For further details on the product warranties please contact the supplier.
- To comply with the Construction Products Directive, all products have been durability tested for a minimum of 11,000 cycles.

15. TECHNICAL ASSISTANCE

If you require any on site technical assistance including repair or maintenance queries please call **01524 772400** or email **technical@swsuk.co.uk**.

Control unit set up instructions are provided in the control panel accessory box along with the control unit and you can also access them digitally using this QR code or link:

www.sws.co.uk/fitting-instructions

