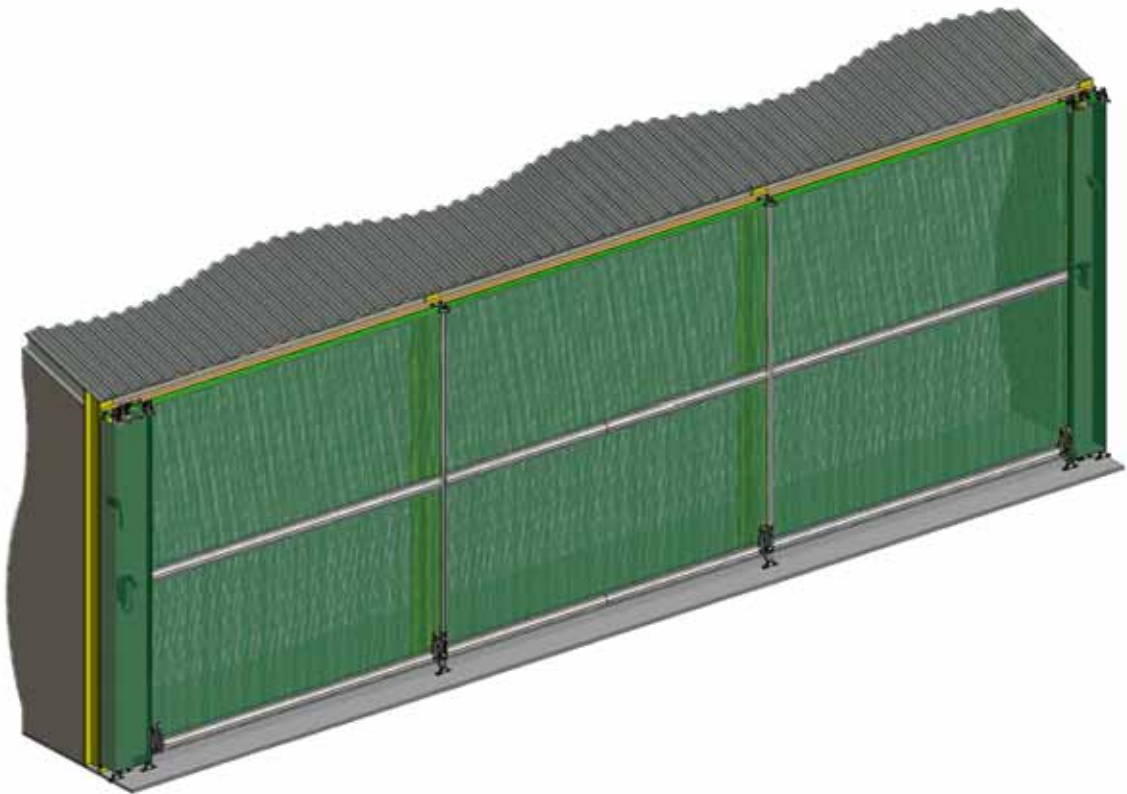


# Multibay Access (Middle Rolling)

ENG



## Installation Instructions



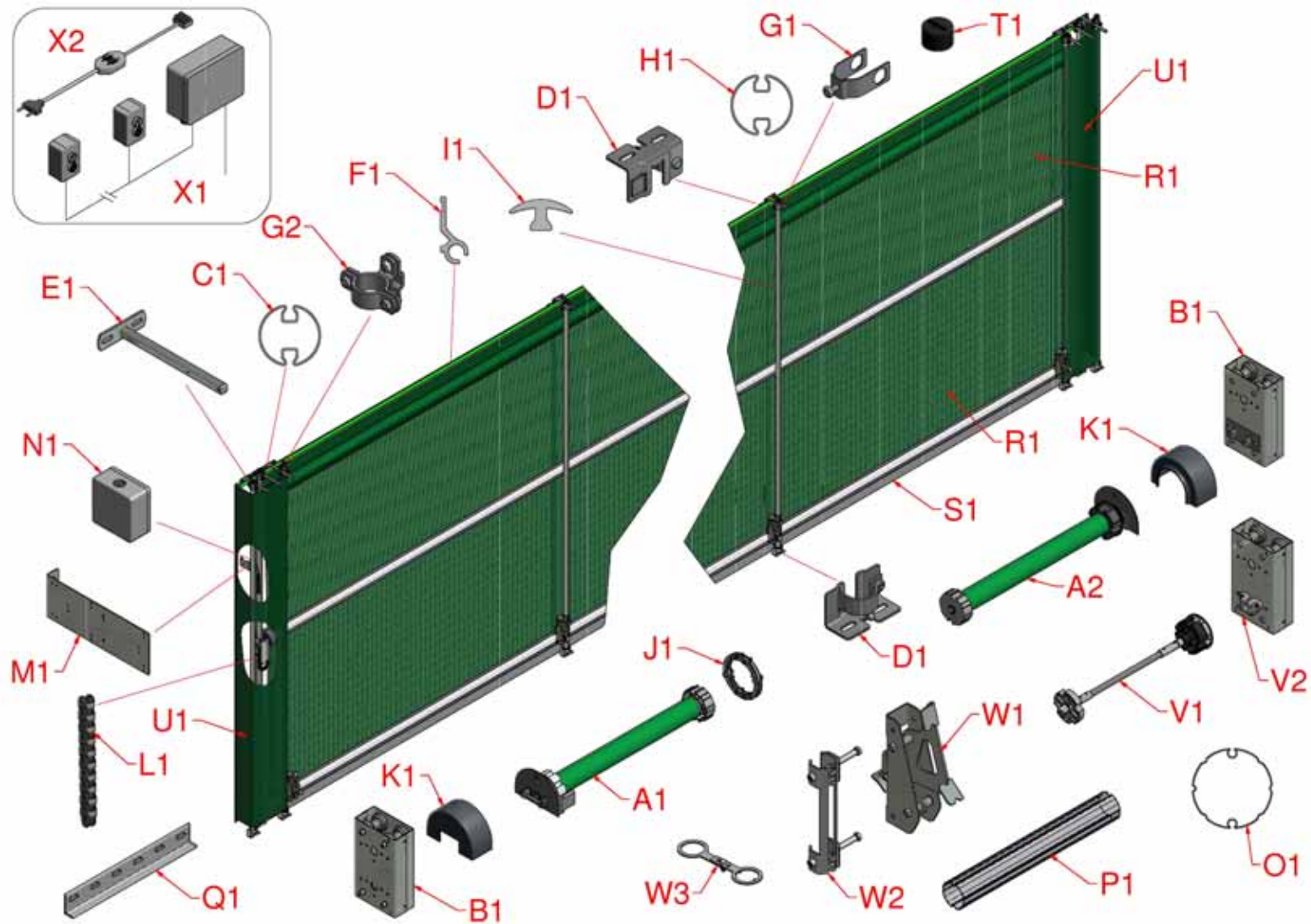


Figure 1, System Overview

## 1. Introduction

### *Parts List*

FIGURE 1 REFERENCE	QTY	PRODUCT DESCRIPTION
A1	1	Tubular Motor (Single motor drive)
A2	2	Tubular Motor (Twin motor drive)
B1	*	Drive End Trolley Box
C1	*	Torque Tube (49mm double flute tube)
D1	*	Ground / End Support for 49mm Tube
E1	*	Face Bracket with 20mm SHS
F1	*	Kador "P" Profile
G1	*	Cross Clamps for 20mm SHS x 49mm Tube
G2	*	Crossover-Clamp For 20mm SHS x 49mm Tube
H1	*	Control Tube (49mm double flute tube)
I1	*	Protection Insert for 5mm Flute
J1	1	Safety Clutch
K1	1	Trolley Box Cover
L1	1	Energy Chain
M1	1	Offset Mounting Bracket for Junction Box
N1	1	Junction Box
O1	*	Tube (100mm double flute tube)
P1	*	750 x 100mm Aluminium Tube Joiner
Q1	*	Face-Face Cover Bracket
R1	2	Curtain
S1	1	Bottom Flap
T1	*	49x30mm Tube End Cap
U1	2	End Cover (drive end and free end)
V1	1	Free End Shaft (Optional)
V2	1	Free End Trolley Box (Optional)
W1	*	Locking Catch
W2	*	Locking Catch Fittings (ref Section 5)
W3	*	Distance Keeper
X1	1	Control Box and Drive Switches
X2	1	Setting Switch
Y1	1	Locking Catch Lever (not shown)

ENG

The system length, number of bays and the control tube option ordered dictates the quantities not stated. Please check the delivery paperwork for precise numbers and control tube configuration.

### **Safety**

The installation of the curtain is not recommended during excessive wind speeds as it could cause damage to the curtain or injury to the Installer.


**Terminology**

- B = Daylight Gap, Height of Opening.
- C = Centre to centre length of the Building Bays
- N = Number of Bays
- “FF” = Face–Face Configuration (face brackets top and bottom)
- “FE” = Face–End Configuration (face brackets top and end brackets bottom)

ENG

**Pre-Installation Check**

For detailed structural and electrical requirements, refer to *Multibay Pre-Installation Instructions*:

	<b>CAUTION:</b> In the event of power or door failure, the door must not form the only means of exit from the building to which it is fitted.
--	---

**Wind Loadings**


The structure to which the door is fitted needs to be of adequate strength to resist the following wind loads.

Wind Speed (km/hr)	Wind Load (N)*	Wind Load (Kg)*
70 km/hr	= L x B x 233	= L x B x 24
100 km/hr	= L x B x 481	= L x B x 49
140km/hr	= L x B x 933	= L x B x 95

*\*No allowance made for safety margins*

**Electrics**

Only allow qualified electricians to work on the electrical connections of the door. This document covers the key instructions with regards to bringing the Electric Drive into service. Read the additional information from the supplier of the Electrical Motor and Control Box for full installation instructions.

	<b>ATTENTION:</b> The power supply must be taken from a <b>LOCKABLE</b> isolation switch positioned within 3m from the door.
---	--

***Installer Competence***

The installer should be able to demonstrate the required level of competence via evidence of installing similar products or formal training. If competence cannot be proven then they should not be allowed to install the product.

***Product Description***

The door is a power operated vertically moving rolling door comprising of a flexible curtain capable of being rolled and for which the main intended uses are giving safe access for goods and vehicles accompanied or driven by persons.

ENG

**Noise Levels**

A-weighted sound pressure level (dB)	<b>60</b>
C-weighted peak sound pressure level (dB)	<b>65</b>

***Items Required by Installer***

Standard tool kit including:

- Electric drill
- Angle grinder
- Sharp pair of scissors or knife
- Spirit level
- Bolts or screws for fixing system to building are not supplied, the following table can be used to estimate quantities of fasteners required but it is the responsibility of the installer to determine the exact amounts.
- Clips to fix electrical cables to the building
- Power for motor (220Volts, 600Watts, 3Amps)

***Key Instructions***

**CAUTION: Potentially hazardous situation: must be avoided otherwise injuries may result.**



**ATTENTION:** Observe the given instructions otherwise the product or adjacent items may be damaged

**NOTE:** Helpful comments and information to assist in installation or use of your product

**NOTE:** Before starting the installation you must fully read these instructions (including the separate electrical details) to completely understand the procedure.  
Keep the instructions supplied for reference purposes.

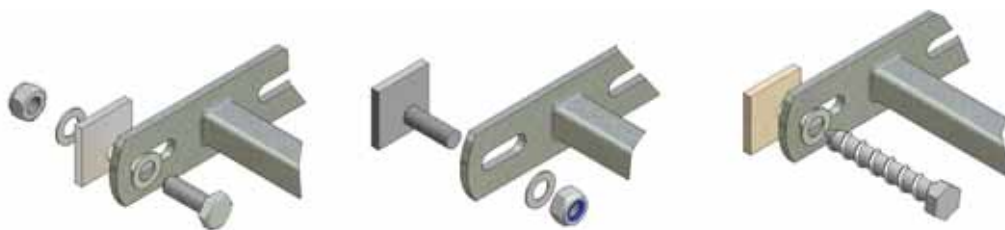
**NOTE:** Colour versions of the installation instructions can be downloaded from our website:

[www.galebreaker.com](http://www.galebreaker.com)

ENG

**Fasteners and Quantities**

**a Control Tube Brackets (D1 & E1)**



	Quantity of M10 fixings suitable for wood, concrete, metal	
	Face – End	Face – Face
Upper Brackets	= 10 + (4 x N)	= 10 + (4 x N)
Lower Brackets	= 10 + (4 x N)	= 8 + (2 x N)

N = Number of bays

**b**



M6 Suitable for wood

Qty 2 per meter

**Note**

The following instructions contain illustrations for a Face-End (FE), Left Hand

Motor Drive and minimum closed gap. If the system that is being installed is a Face-Face (FF) or Right Hand Motor Drive please refer to the amendments shown in Figures 2a and 2b respectively.

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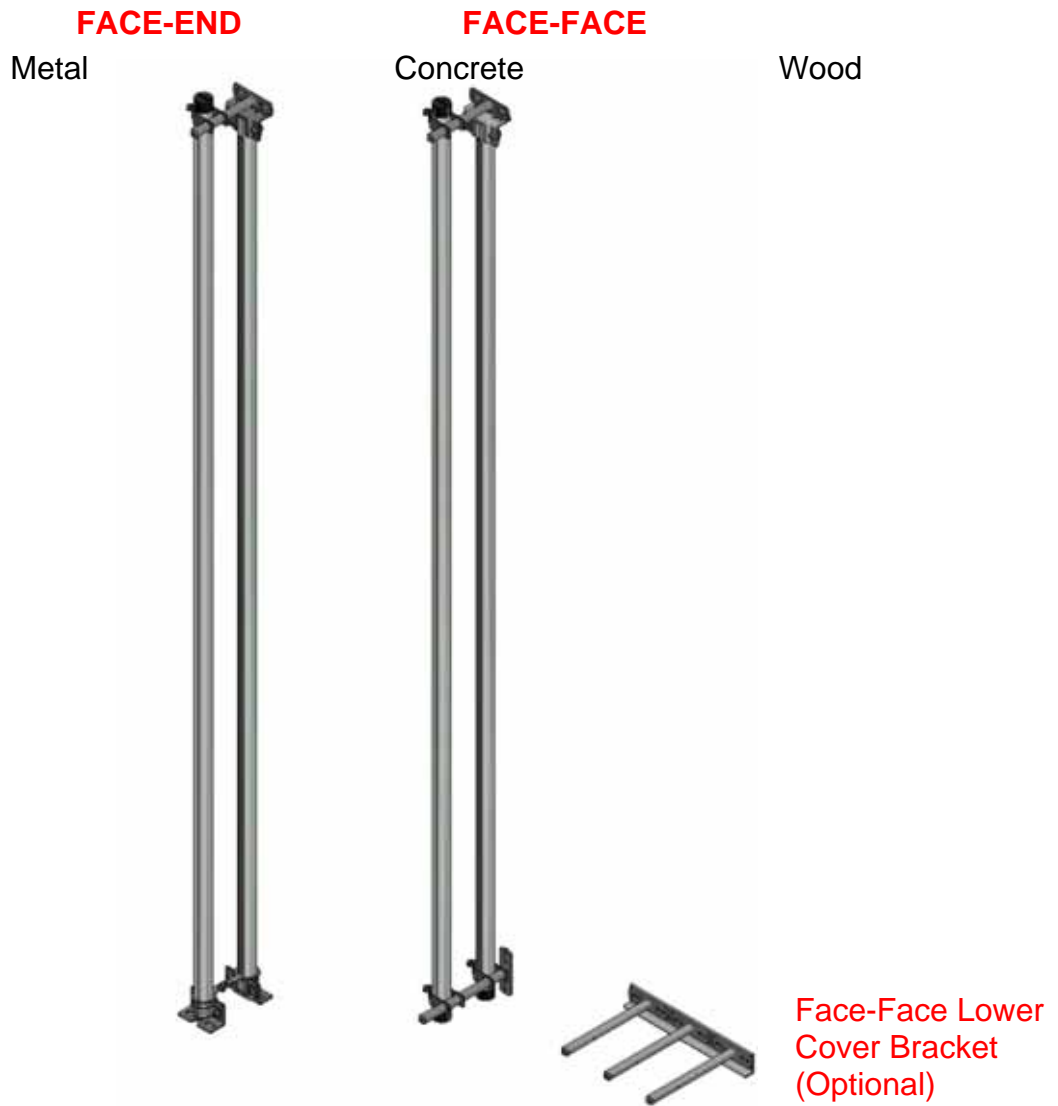
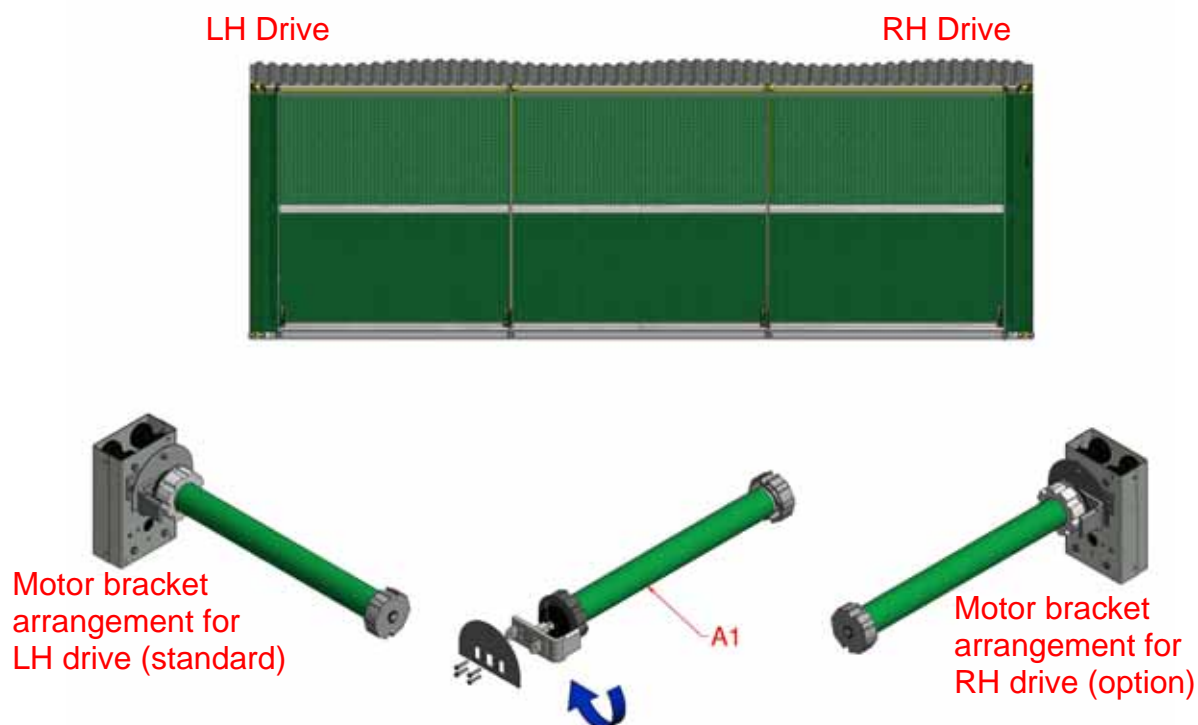


Figure 2a, Control Tube Mounting Options

**Drive Motor End Options (single motor drive)**

ENG

*Figure 2b, Drive Motor End Options*

The Motor and Stop Bracket Assembly for single motor drive (A1) is supplied as standard for a left hand drive, if the Motor is to be fitted to the right hand side, the Stop Bracket will need to be converted to the RH Motor configuration as shown in Figure 2b above. Remove the four screws in the end of the Motor and remove the Cover Bracket. Pull the Stop Bracket out of the Motor, rotate 180 degrees and reassemble ensuring the four screws are tight.



## 2. Control Tube and Bracket Installation

2.1 Fit the upper Face Brackets (E1) at each end of the building with appropriate fasteners to the top beam, as shown in Figure 3. The three Face Brackets at the drive end/ends should be positioned at 15.5cm centres. The two Face Brackets at the free end (for single motor drive) should be positioned at 31cm centres. A 4cm gap should be allowed beneath the Face Bracket to fix the curtain Kador Profile, Section 3.1.

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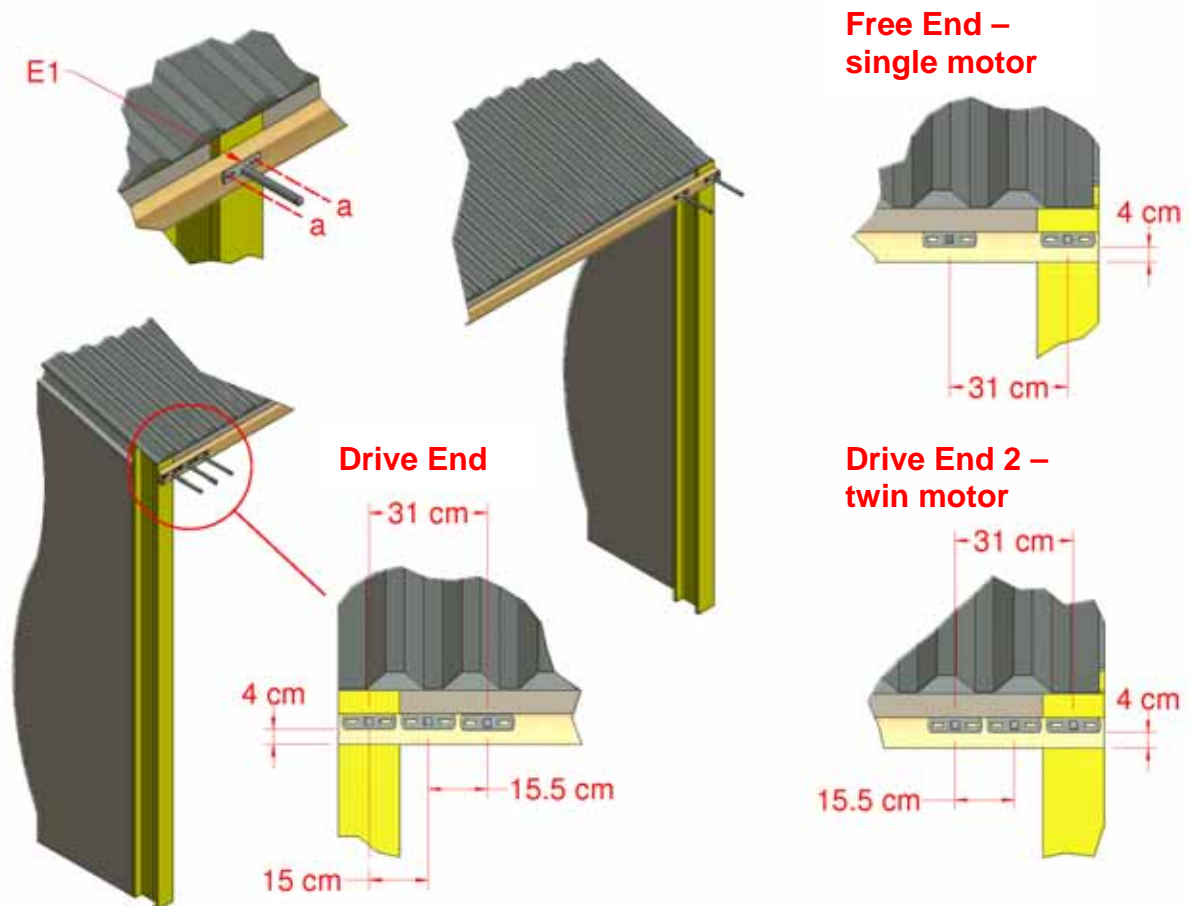


Figure 3, Drive and Free End Face Bracket Installation

2.2 Attach the Kador Profile (F1) to the ends of the system using the M4x19 self drilling screws (c) as shown in Figure 4.

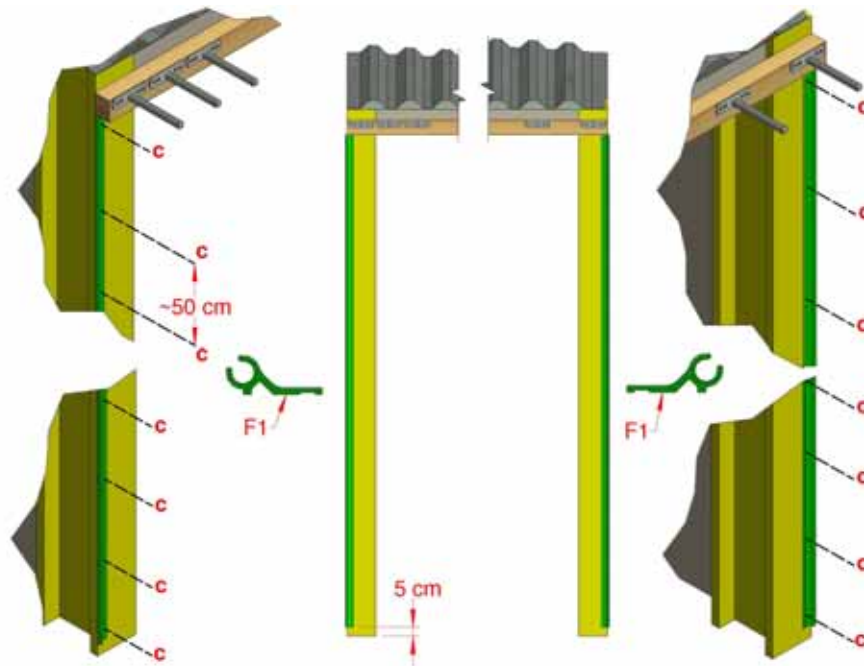


Figure 4, End Cover Kador Profile

2.3 Fit the upper Face Brackets (E1) at each intermediate bay upright as shown in Figure 5a. These brackets must be aligned horizontally with the Face Brackets at the ends of the installation.

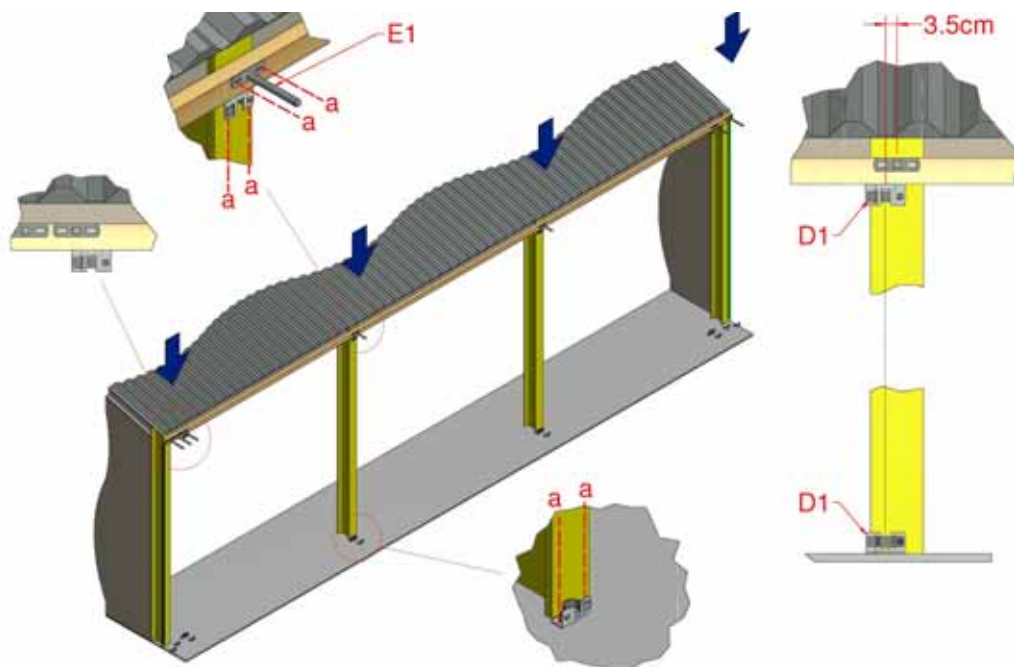
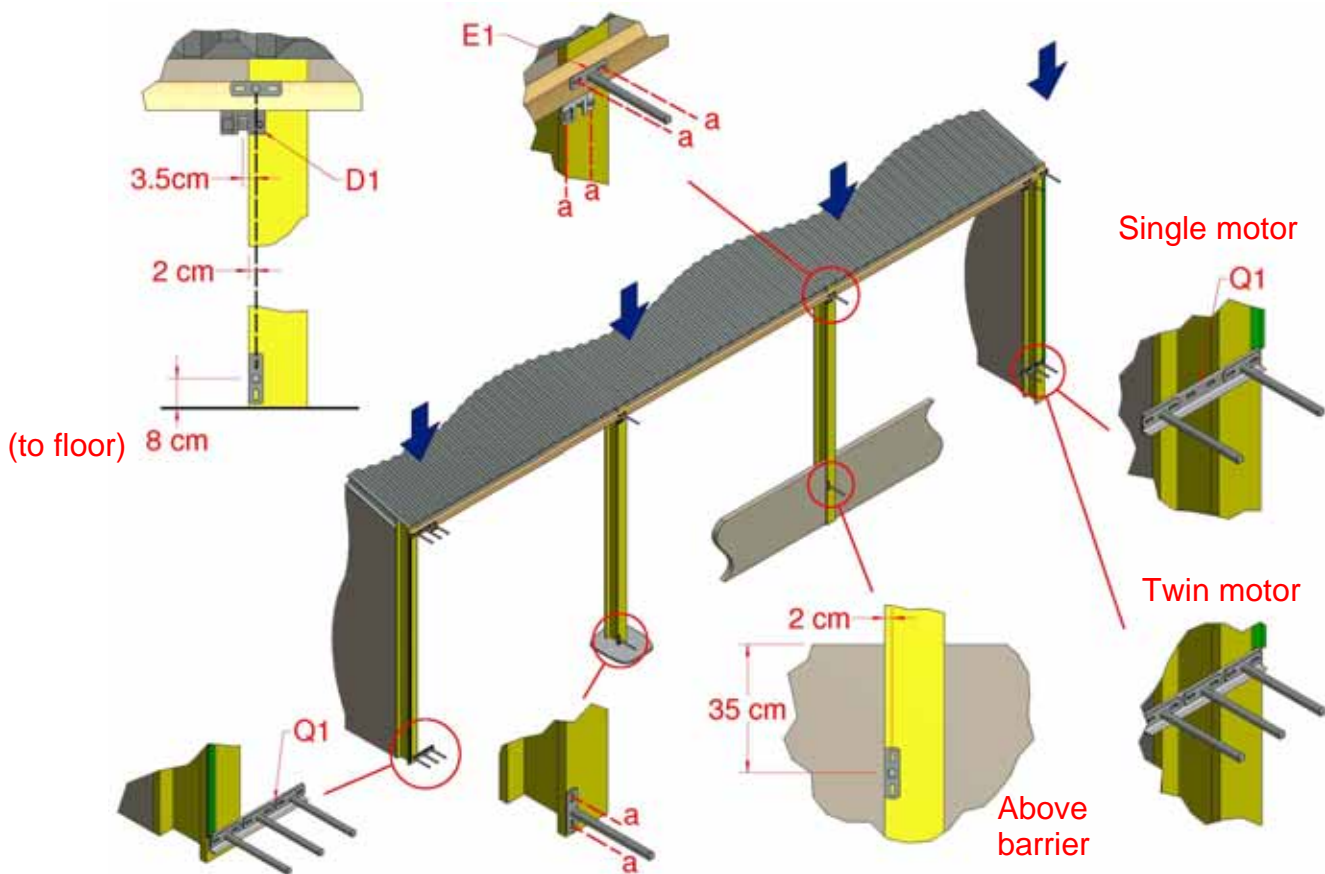


Figure 5a, Intermediate Control Tube Bracket Installation (Face-End)

2.4 At each intermediate bay upright fit the upper End Supports (D1) to the underside of the wooden beam so that the Supports have a 3.5cm offset

from the middle of the upper Face Bracket as shown in Figure 5a for Face-End and Figure 5b for Face-Face configuration.



ENG

Figure 5b, Intermediate Control Tube Bracket Installation (Face-Face)

2.5 At each intermediate bay upright and at the ends of the installation, fit the lower brackets:

- a) For Face-End installation pre-drill the lower inner End Support (D1) holes in the floor vertically aligned with the upper End Supports, the supports will not be fixed until the intermediate control tubes are fitted, Figure 5a.
- b) For Face-Face installation fix the lower Face Bracket (E1) vertically aligned with the upper Face Bracket and in the orientation shown in Figure 5b, noting the offset above the floor or below the barrier for the respective option ordered. Fit the Face-Face lower Cover Bracket (Q1) and Face Brackets (E1) to the building upright at a

height to match the lower Face Brackets on the intermediate Control Tubes and aligned vertically with the upper Face Brackets.



**CAUTION:** Use only M10 bolts to fit your Multibay brackets. Ensure all brackets are securely fastened to the building. Failure of these fixings will result in your Multibay or components falling off the building, potentially injuring operators and bystanders

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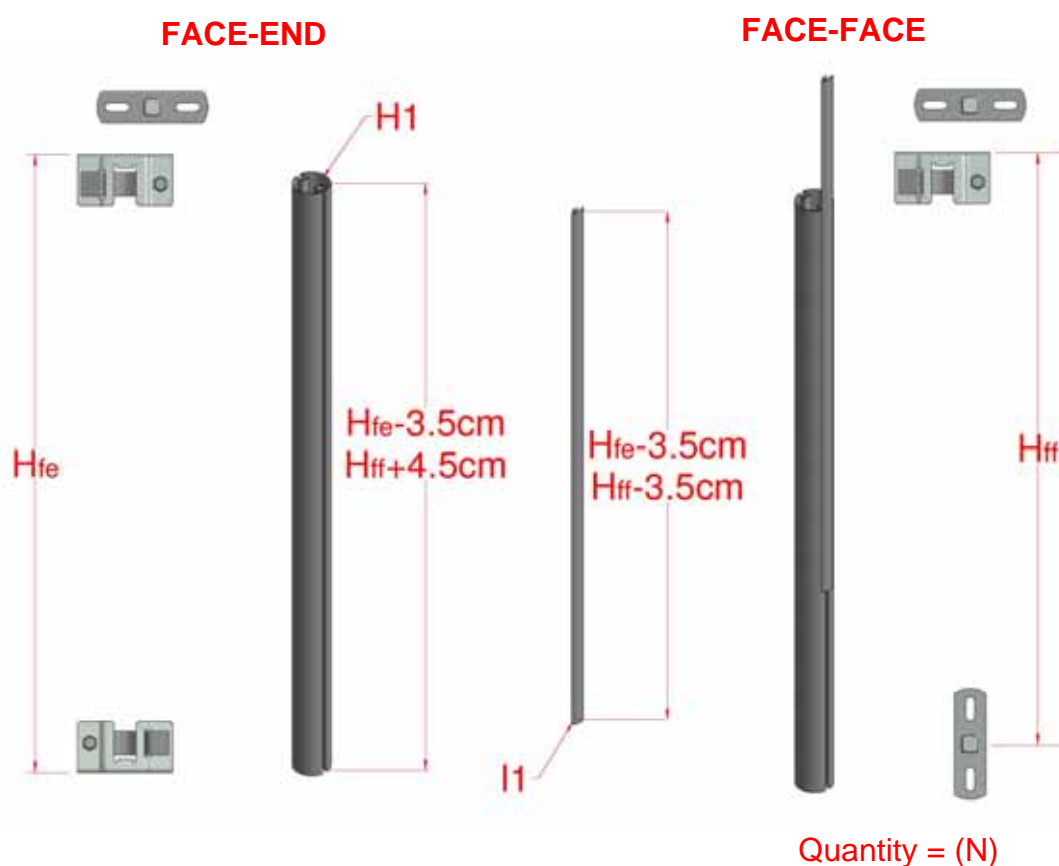
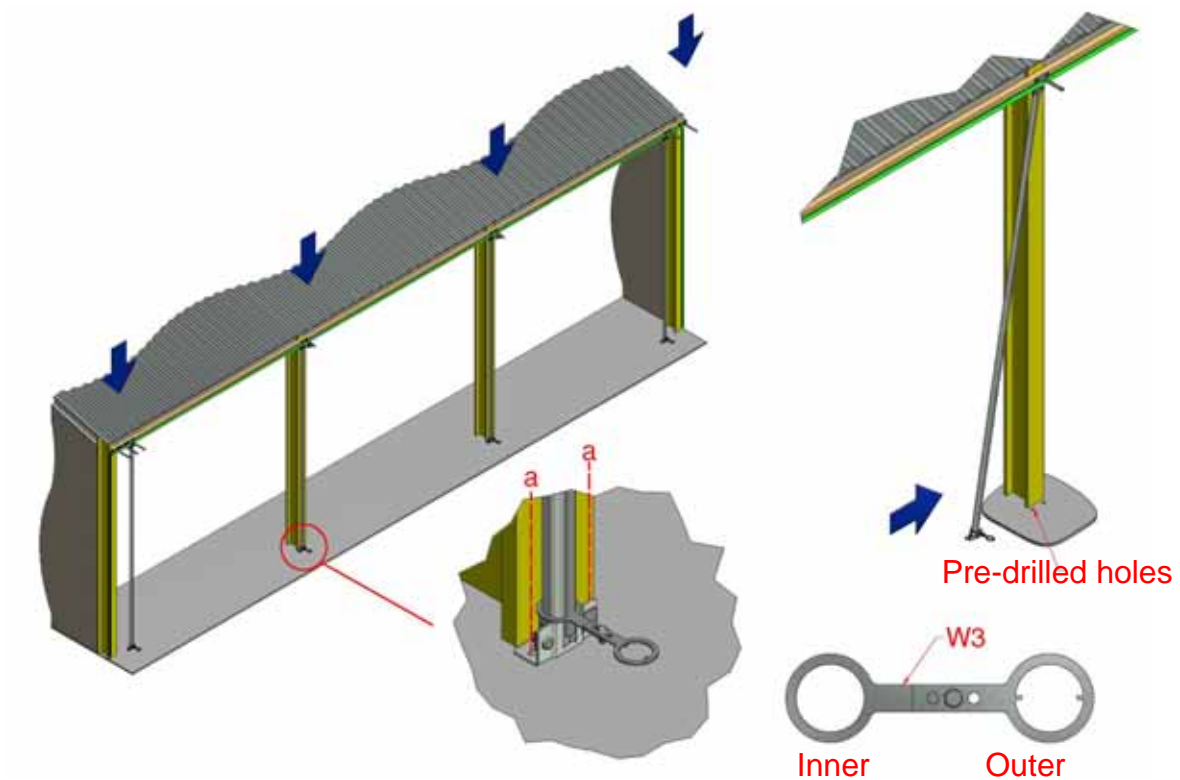


Figure 6, Inner Control Tube Assembly

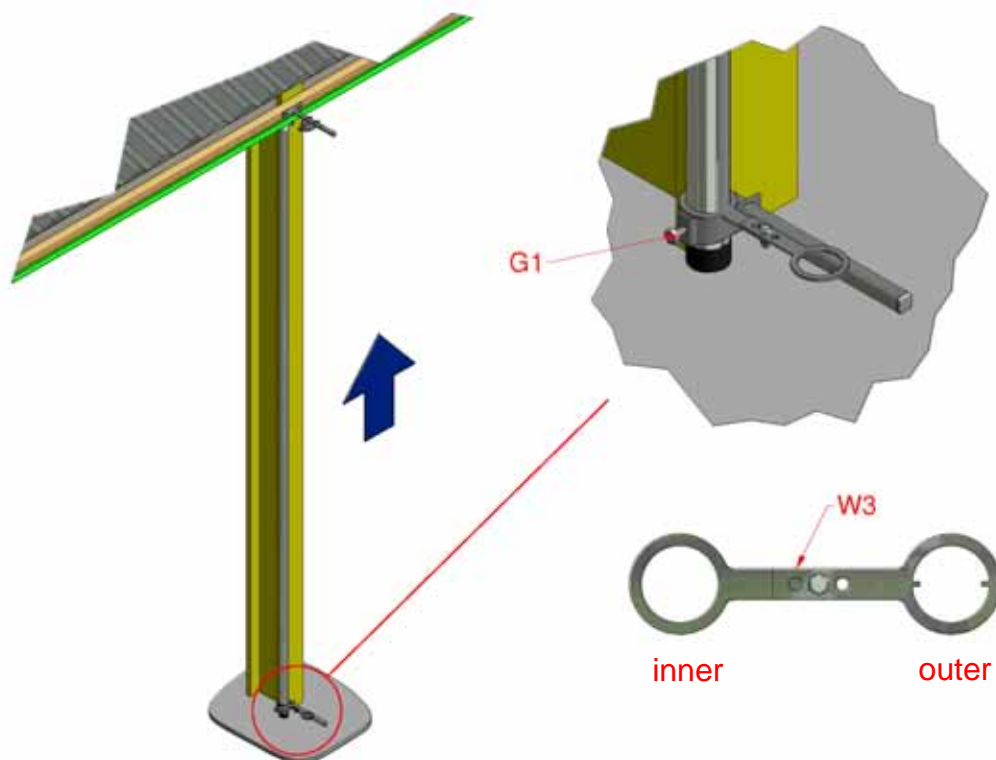
- 2.6 Cut the Control Tubes (H1) to the correct length as shown in Figure 6 and slide the Protection Insert (I1) into the tube flute. The quantity of Inner Control Tubes to prepare is equal to the system number of bays N plus one, (i.e. Quantity = N+1).
- 2.7 Inner Control Tubes are to be installed at each intermediate bay upright and at each end of the installation.



ENG

Figure 7, Inner Control Tubes Face-End

- a) For Face-End installation slide the plain hole end of the Distance Keeper (W3) and the lower End Support (D1) on to the bottom of the inner control tube, Figure 7. Position the top end of the tube into the upper End Support (D1) and swing in to position so the lower End Support locates with the pre-drilled holes in the floor. Fix the lower End Supports using the correct fixings. Tighten the End Supports so that the tube is securely fitted with the Protective Insert in the tube facing outward from the building.
  
- b) For Face-Face installation position the top end of the inner control tube into the upper End Support (D1), slide the plain hole end of the Distance Keeper (W3) onto the lower end of the tube and attach to the lower Face Bracket with the Cross Clamp (G1), Figure 8.



ENG

Figure 8, Inner Control Tubes Face-Face



**ATTENTION:** To prevent abrasion and material fray ensure that the Protection Insert is fitted into the tube flutes and positioned at right angles to the building.



### 3. Hanging the Curtain

- 3.1 Fit the Kador Profile (F1) along the length of the installation on the front face of the top beam using the screws (b). The fasteners should be every 50cm along the length of the entire installation.

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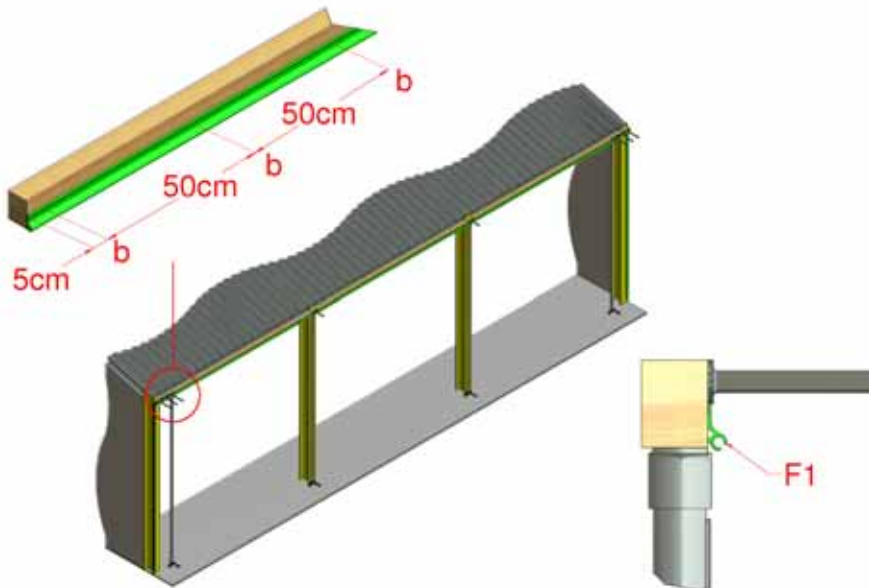


Figure 9, Fitting the Kador Profile

- 3.2 Take the upper kador edge of the Curtain (R1) and insert into the Kador Profile, gradually working the fabric down the length of the installation, Figure 10.

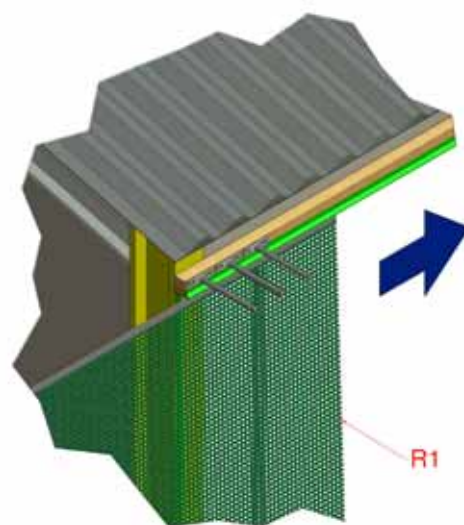
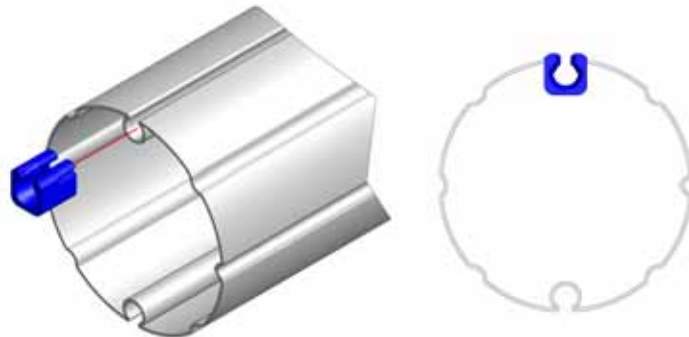


Figure 10, Inserting Curtain into Top Kador Profile

- 3.3 Push the Flute Guide Insert over the end of the flute in the Tube (O1) to protect the fabric sheet as it is being fitted. When the fabric is inserted remove the Flute Guide Insert from the end of the flute.



ENG

- 3.4 Slide the Tubes (O1) (from the non-drive end for single motor drive), down towards the drive end, inserting a Tube Joiner (P1) equally between each length of the tube and fasten using stainless steel rivets (d), Figure 11a.

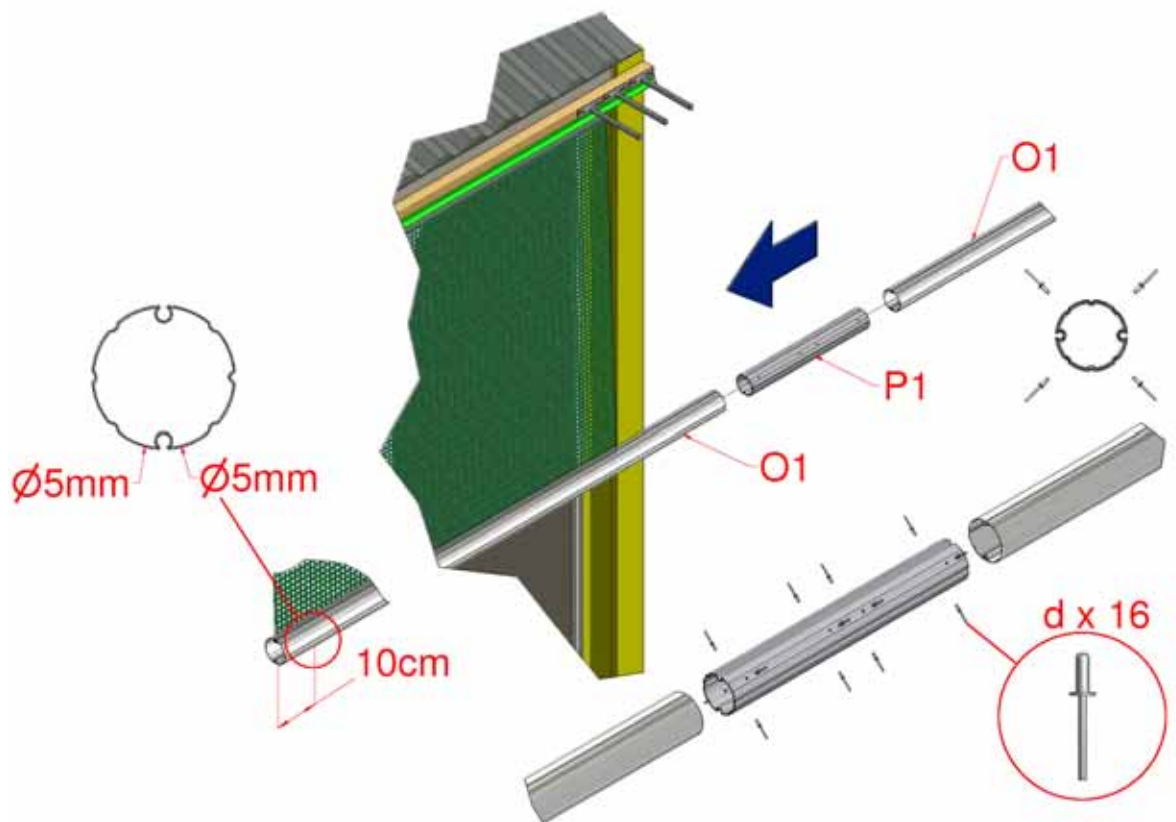


Figure 11a, Inserting and Joining Rolling Tube





**ATTENTION:** Ensure that all burrs on the flutes are removed. It will help to use some light oil or washing up liquid as a lubricant.

- 3.5 Position the Tube to the dimensions indicated in Figure 11b. Cut the penultimate tube so that the last tube is full length and achieves the dimensions given below. For a drive end the end of the tube must be 6cm from the centre of the middle Face Bracket, for a free end the end of the tube should pass the opening by 5cm. At the Drive end/s drill a 5mm drain hole each side of the bottom flute, 10cm from the end of the tube.

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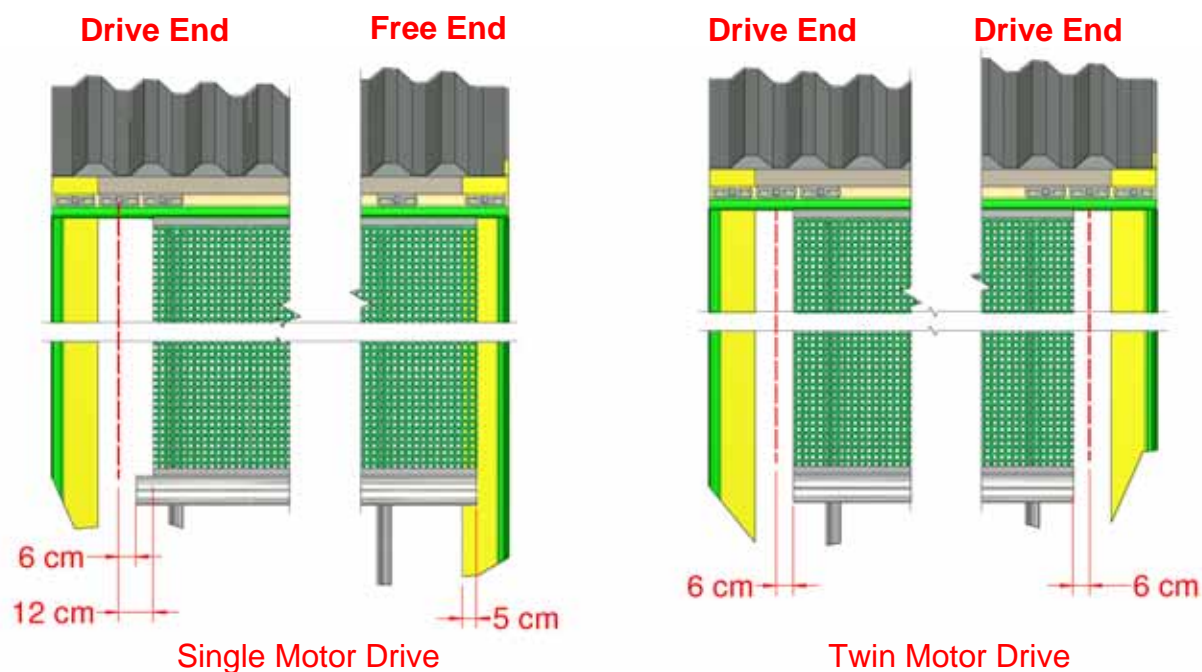
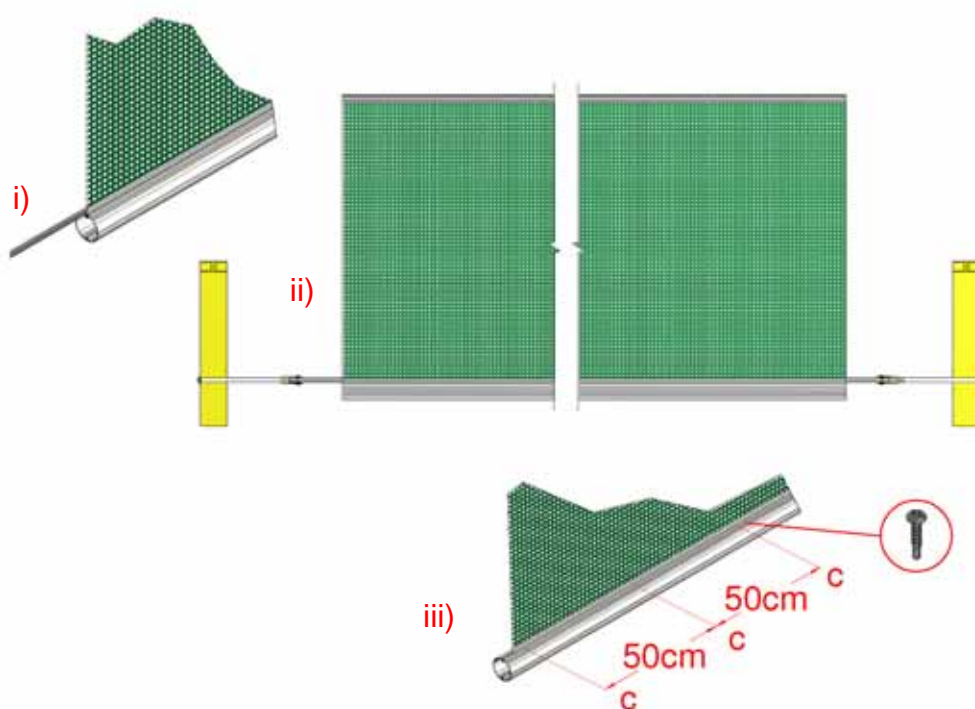


Figure 11b, Tube Lengths

**Note:** If a Free End Trolley Box is being fitted with the single motor drive please refer to Section 6.



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*Figure 12, Tensioning Curtain*

- 3.6 In all four corners of the Curtain are projecting kador straps of approx 1m in length which are used to tighten the Curtain, Figure 12(i).
- a) The beading from the ends of the kador needs to be removed up to the edge of the Curtain leaving a 25mm strip at both ends
  - b) Attach the Ratchet Hook supplied to the right and left of the building at the height of the Kador Profile, Figure 12(ii). When tightening, ensure that only light tension is applied to the Curtain. Overstretching of the Curtain must be avoided.
  - c) The tightened kador must be permanently fixed at both ends using three self-tapping screws through the kador and tube flute spanning about 1m from the end, Figure 12(iii). Dismantle both ratchets and cut off the kador strips.
  - d) Repeat the tensioning of the Curtain for the Tube.

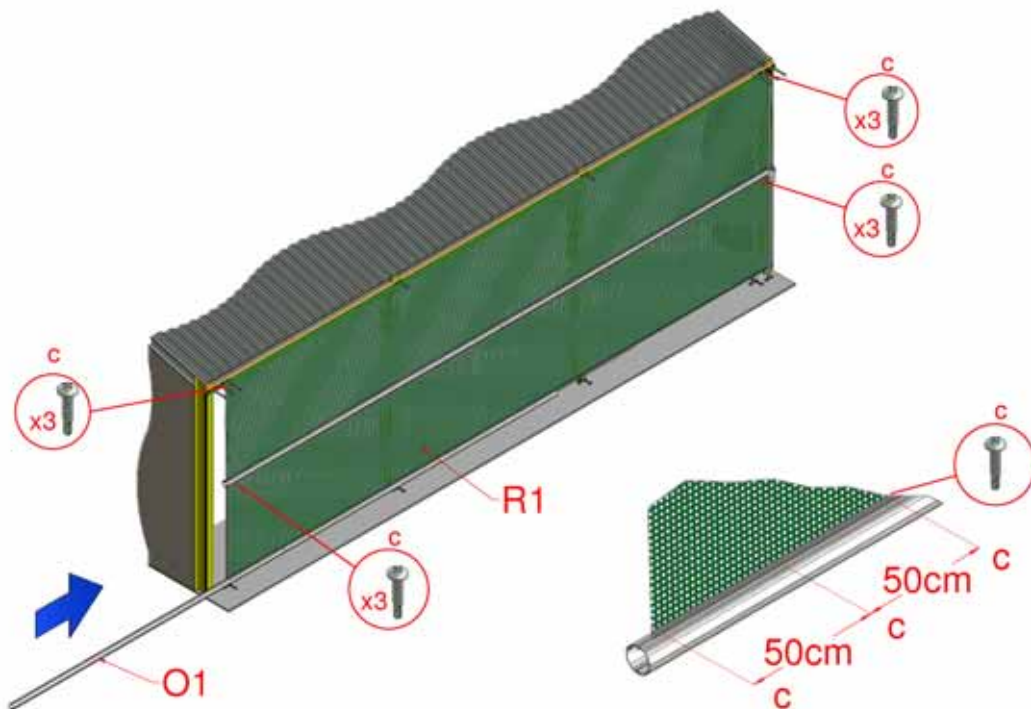


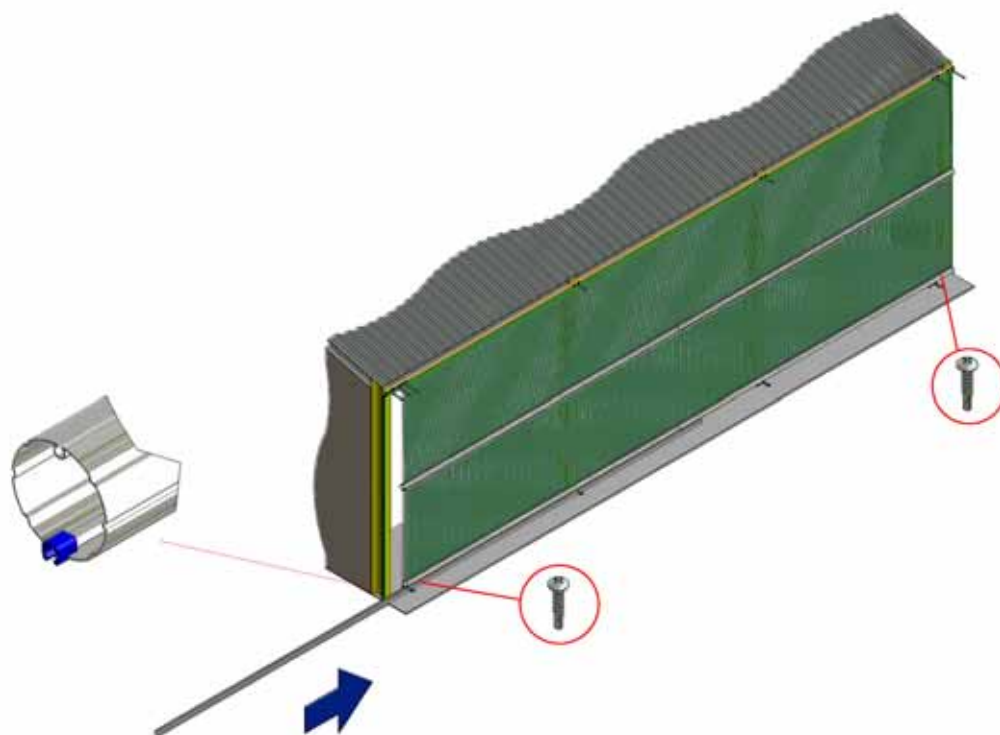
Figure13, Securing the Curtain

- 3.7 Fit the second curtain into the lower flute of the tube using the flute guide to protect the fabric. Slide the Tubes onto the lower kador and join as shown in Section 3.4. Tension the curtain and fix with self tapping screws.



**ATTENTION:** Ensure that all burrs on the flutes are removed. Repeat this process on the bottom flute of the rolling tube in preparation for inserting the flap. It will also help to use some light oil or washing up liquid as a lubricant.

- 3.8 Leave the Curtain hanging for approx. 2 hours
- 3.9 Cut the Curtain to length to achieve the dimensions shown in Figure 11b. Cut the Bottom Flap (S1) to the same length as the Curtain and feed into the lower flute of the tube using a flute guide to protect the fabric. Secure with a self-drilling screw each end, Figure 14.



ENG

*Figure 14, Fitting the Lower Flap*

#### 4. Torque Tubes and Drive

4.1 Cut the Torque Tubes (C1) to length and debur the ends as shown in Figure 15.

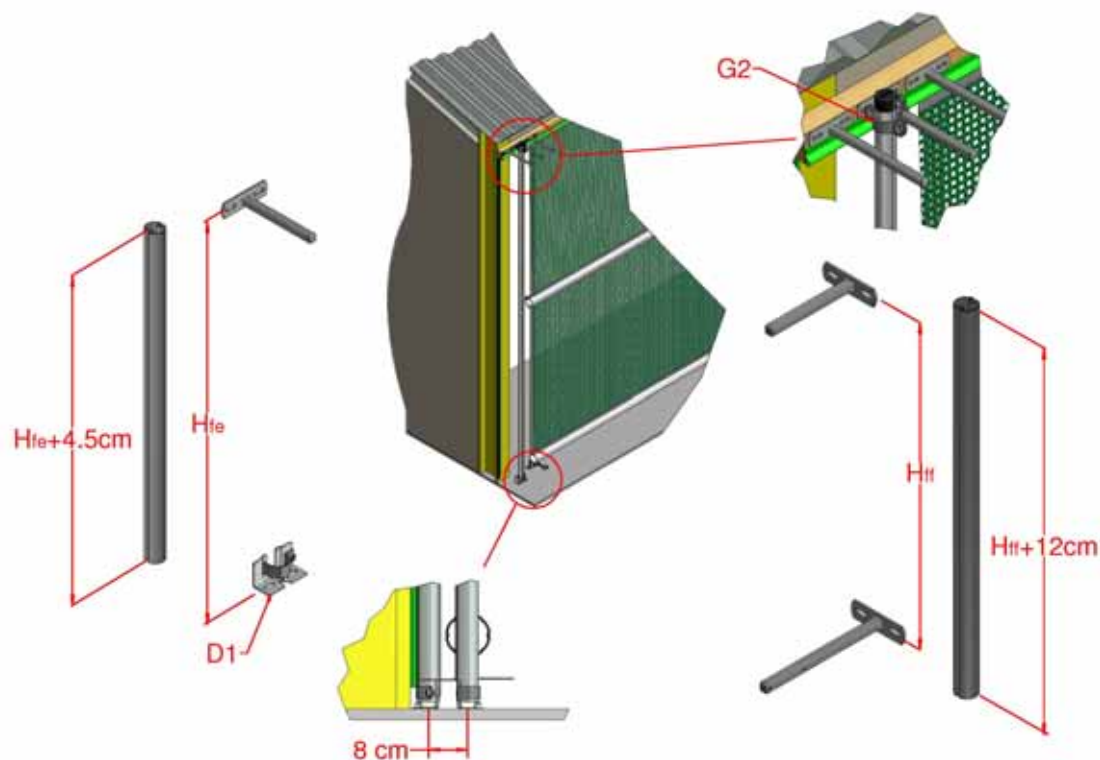
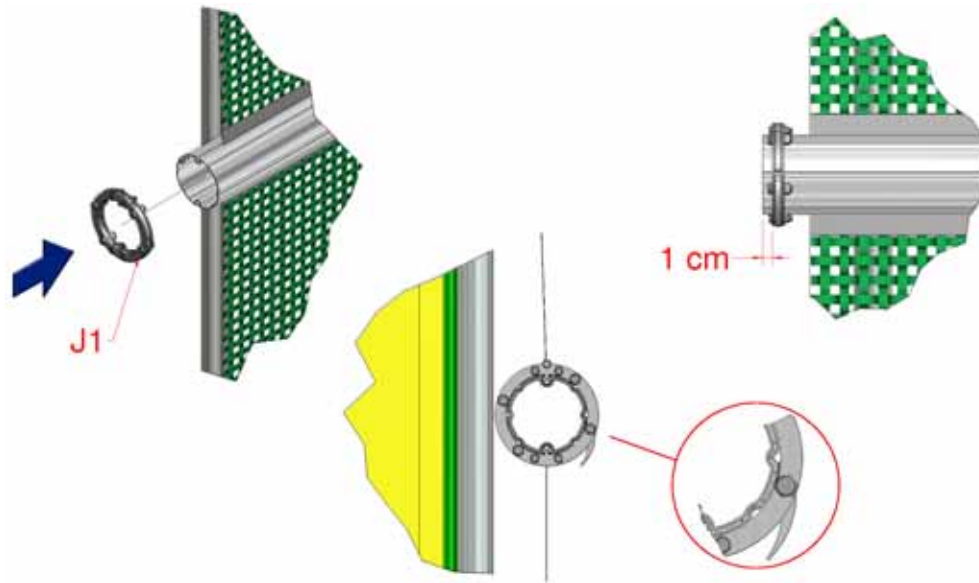


Figure 15, Torque Tube Installation

- a) For Face-End installation, slide the lower End Support (D1) onto the bottom of the Torque Tube (no protection insert). Attach the top of the tube to the middle of the three Face Brackets with the Crossover Clamp (G2) so that the tube is located on the outside of the Face Bracket, Figure 15. Pre-drill the holes into the floor for fixing so that the Torque Tube is centred 8 cm from the centre of the inner Control Tube.

#### **Single Motor Drive**

- 4.2 For single motor drive slide the Safety Clutch (J1) onto the drive end of the Middle Tube with the locating lugs aligned with the flutes in the tube and the direction of rotation as shown in Figure 16 (the safety pawls must open as shown).



ENG

Figure 16, Safety Clutch

- 4.3 Assemble the Motor (A1) to the drive end Trolley Box (B1) using the M8x80 bolt and nyloc nut, Figure 17. Fit the Energy Chain Bracket (L1) to the lower outside edge of the Trolley Box with the M3x8mm screws and nuts and insert the Motor and Trolley Box assembly into the drive end of the Middle Tube. Secure the Safety Clutch to the tube with the two M4.2x32mm long self drilling screws (e) through the holes in the clutch plate spacers.

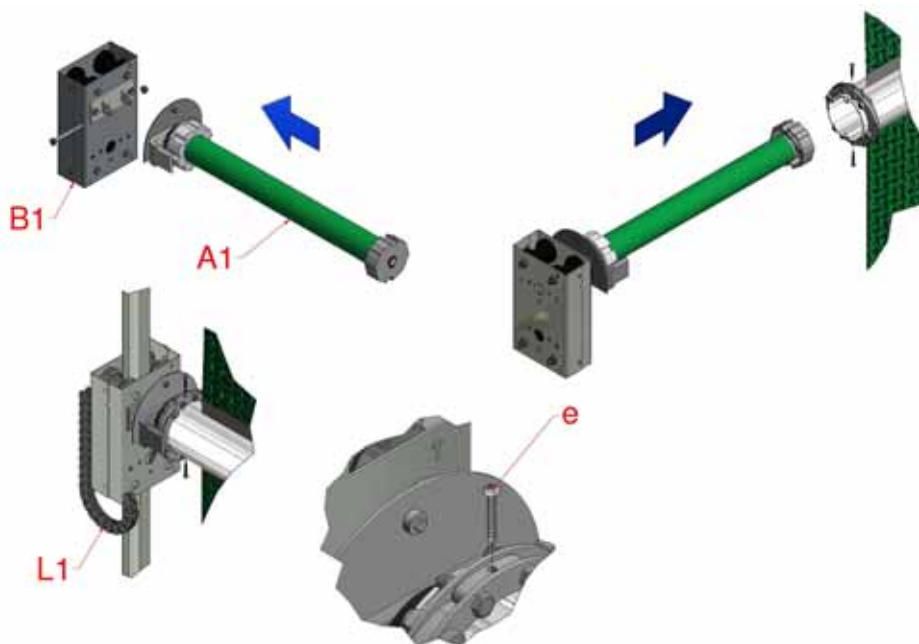


Figure 17, Single Motor and Trolley Box

- 4.4 Insert the Torque Tube into the Trolley Box and loosely clamp the Torque Tube to the upper Face Bracket with the Crossover Clamp (G2).
- For Face-End installation fix the lower End Support to the pre-drilled holes in the floor and tighten the upper clamp so the tube is securely fitted.
  - For Face-Face installation fix the torque tube to the lower Face Bracket with the Crossover Clamp (G2).
- 4.5 The wire from the Motor is to be fed through the Energy Chain and connected to the Energy Chain Bracket attached to the Trolley Box. The Energy Chain is to exit around the bottom of the Trolley Box and up to attach to a Chain Bracket fitted to the Junction Box Mounting Bracket (M1) positioned as shown in Figure 18, at height approximately in the centre of the Upper Curtain.

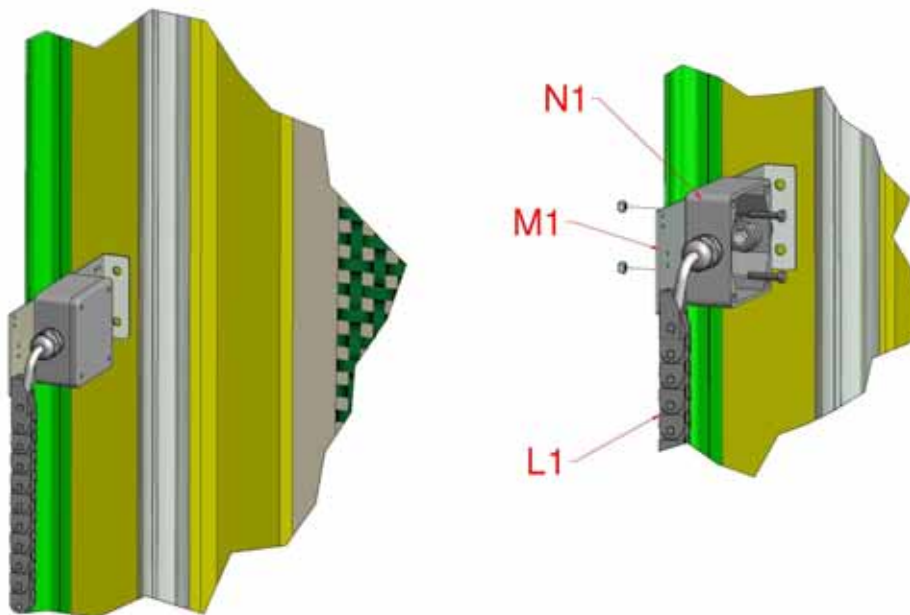


Figure 18, Junction Box Mounting

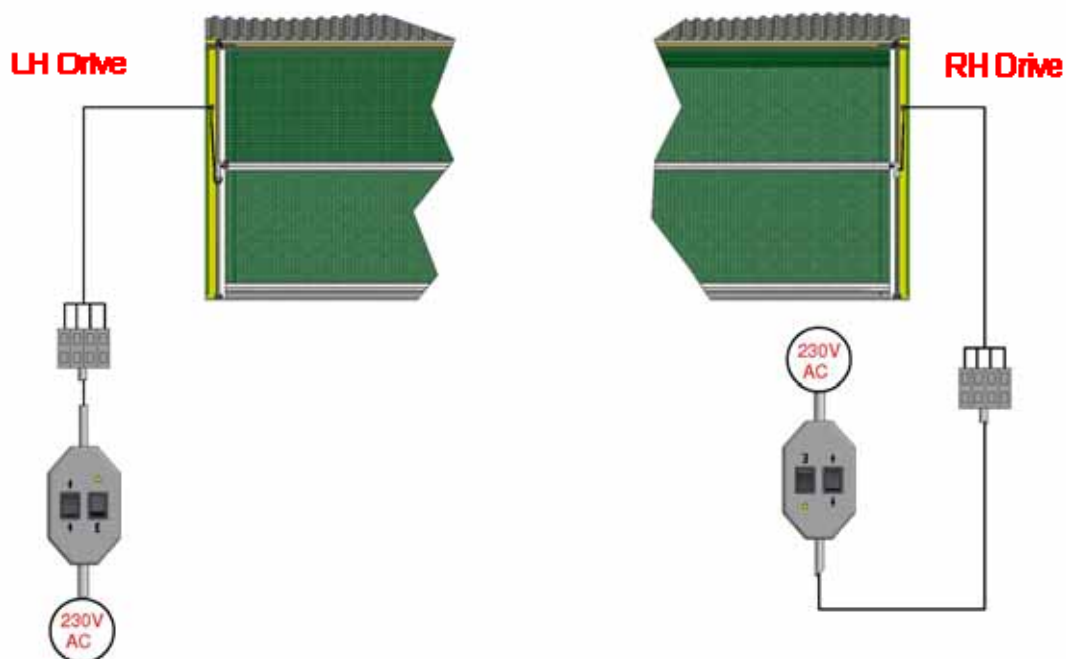


#### 4.6 Single Switch Control

Referring to Figure 19a, connect the setting switch (X2) to the motor cable matching the colour of the switch to that of the motor cable and hold the handset as shown.

Connect to 220V power supply and operate the system using the travel button.

ENG



*Figure 19a, Setting Switch*

The motor will make a short stop after a start to indicate that the limits have not yet been set. Do not press the 'E' switch at this stage.



**ATTENTION:** When rolling the curtain the upper tube must roll up the outside of the upper sheet. Rolling up the inside of the curtain reduces the clearance when fully open and prevents the Safety Clutch from operating.



## Double Switch Control

If your Multibay has been supplied with 2 motor control switches secure the control box, secondary switch, and wires (X1) to the building. Ensure all wires exiting from the motor switches point down to form a drip-loop so that rain water cannot enter the motor or switches. To protect the circuit board we advise the control box is mounted inside the building with the glands face downwards. Ensure all cable glands are correctly seated to prevent water ingress.

ENG

(If a switch is to be fitted at each end of the system a 3-core 1.5mm<sup>2</sup> cable will need to be attached to the building from the control box to the switch position)

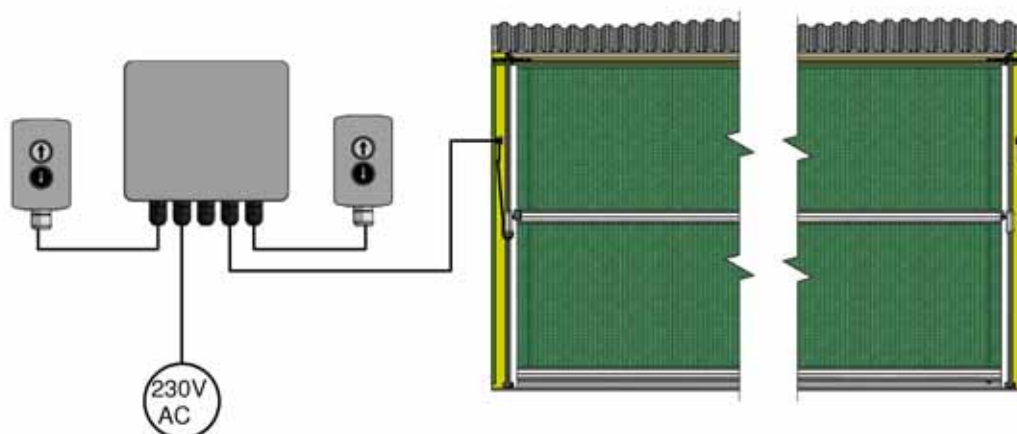




Figure 19b, Control Box Wiring

Wire the 4-core motor cable from the Junction Box (N1) into the control box (X1) as detailed in Multiple Control Relay Instructions.

	<b>ATTENTION:</b> The power supply should be taken from a <b>LOCKABLE</b> isolation switch positioned within 3m from the motor.
	<b>CAUTION:</b> Switches controlling the curtain <b>MUST</b> be positioned in such a way that when in use the operator has full view of the curtain.

- 4.7 Outer Control Tubes are required at each end for the End Covers and at all intermediate bay uprights. Cut the relevant tube to length as shown in Figure 20 and de-burr the sharp edges from the ends. Cut and insert the Protective Insert to all intermediate tubes. Cut four additional Tubes for the End Covers but do not fit Protective Insert to these.

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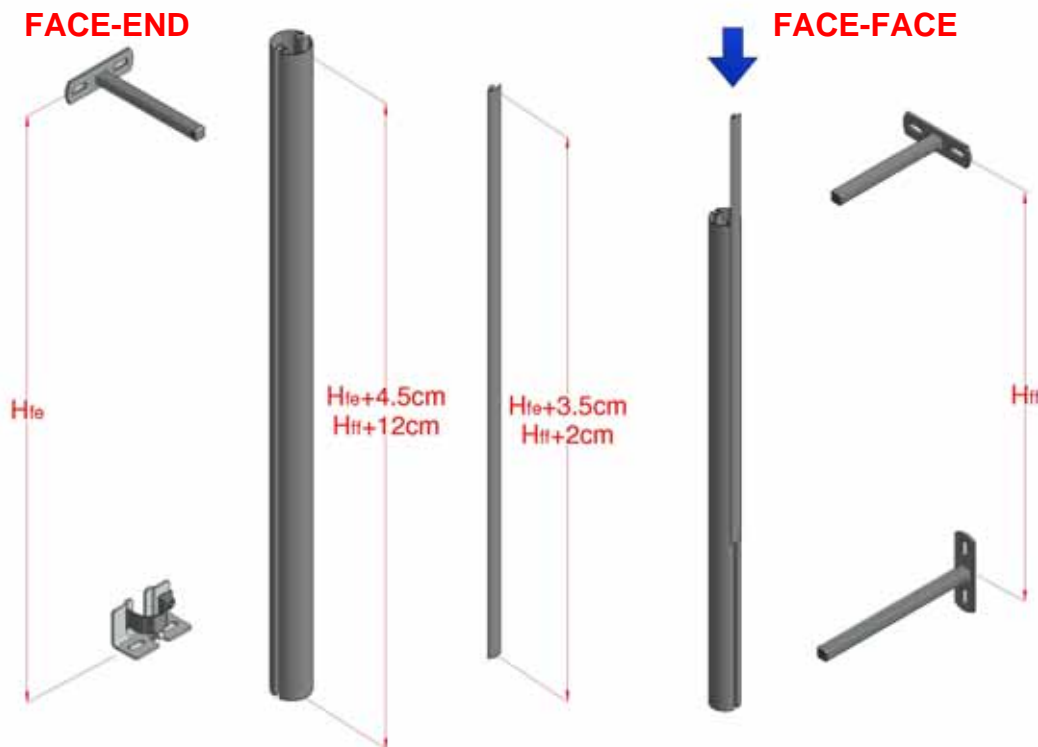


Figure 20, Outer Control Tube Assembly

**NOTE:** The control tubes that will eventually support the end covers are not to have protection insert fitted in the flute and are not to be fitted at this time.

- 4.8 Fit all intermediate outer Control Tubes between the upper and lower brackets, not including those for the End Covers, as shown in Figure 21. Cut the fitted Face Brackets to length (if desired) and complete by fitting protective black caps (T1) to free ends of tubes

- a) For Face-End installation drill and fix the bottom End Support (D1) to the floor ensuring the centre distance between the inner and outer Control Tubes is 16cm. Pass the lower end of the Control Tube through the Distance Keeper (W3) and into the End Support. Attach to the upper Face Bracket with the Cross Clamp (G1) making sure the Protective Insert is against the Middle and Bottom Tubes.
- b) For Face-Face installation pass the lower end of the tube through the Distance Keeper (W3) with the Protective Insert against the Middle and Bottom Tubes, clamp the tube to the top and bottom Face Brackets with the Cross Clamps (G1).
- c) The centre distance between the inner and outer Control Tubes at the top is 19cm.

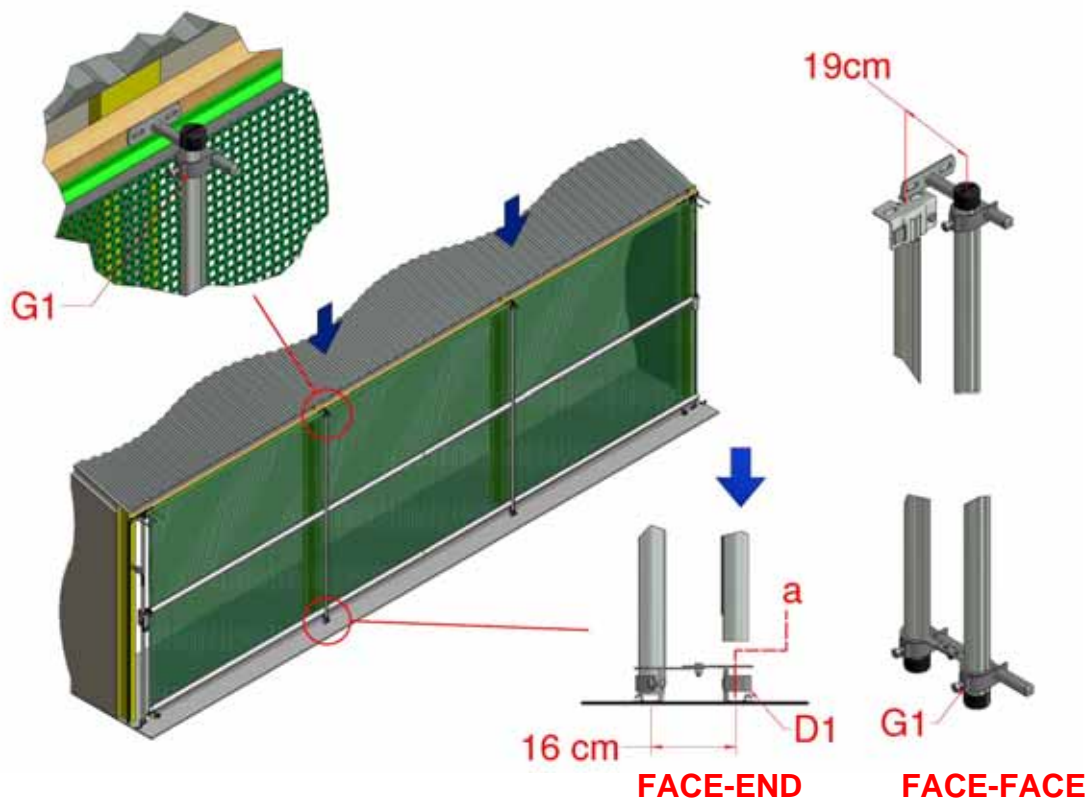


Figure 21, Outer Control Tube Installation



**ATTENTION:** To prevent abrasion and material fray ensure that the Protection Insert is fitted into the tube flutes and positioned facing the Curtain.

#### 4.9 *Setting the Limits – single switch/single motor*

Follow the Multiple Control Relay Instructions for double switch/double motor applications.

Press the 'E' Button for 6 seconds, the motor switches into the manual adjustment mode. A short stop after a start indicates adjustment mode.

ENG

Step 1: Close the system until it is fully down and press the 'E' button for 3 seconds, Figure 22a.

Step 2: Open the system so that the trolley box stops a minimum of 3cm below the upper cross clamps. Press the 'E' button for 3 seconds.



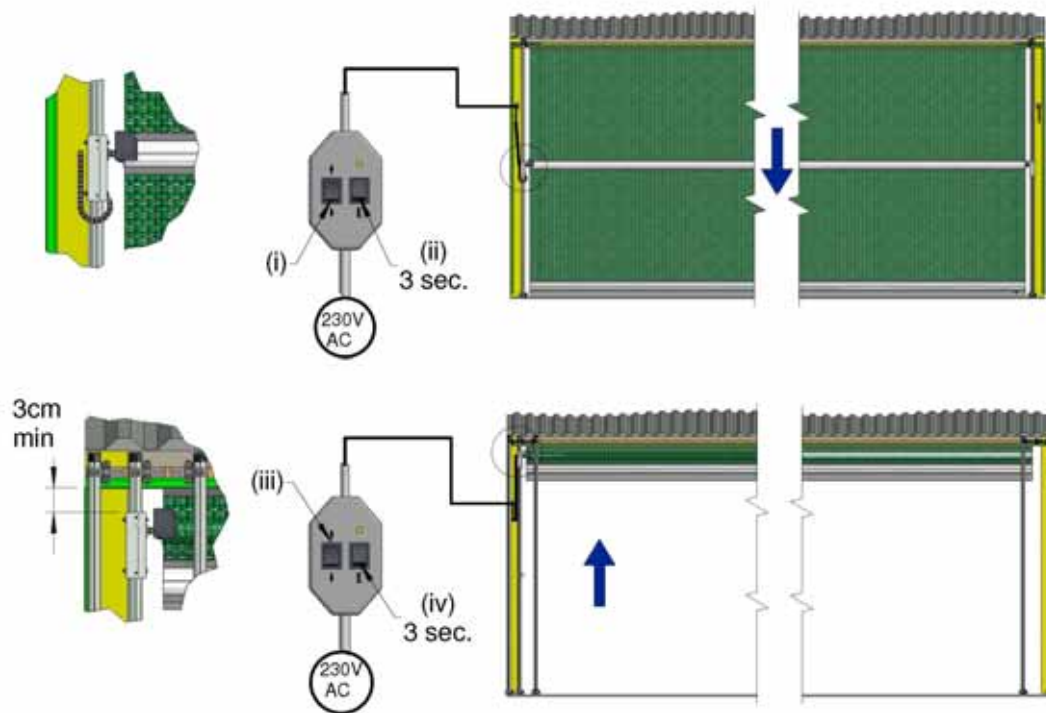
**ATTENTION: When rolling the curtain the lower tube must roll up the outside of the sheet.**

The limits are now set.

Wire the 4-core motor cable from the Junction Box (N1) into the control box (X1) as detailed in Figure 23.

To adjust the limits the motor must be reset to adjustment mode. Press the E button for 6 seconds – The motor will make a short stop after a start to indicate that the limits have been reset.

Single Switch Control



ENG

Figure 22a, Setting the limits

Double switch Control

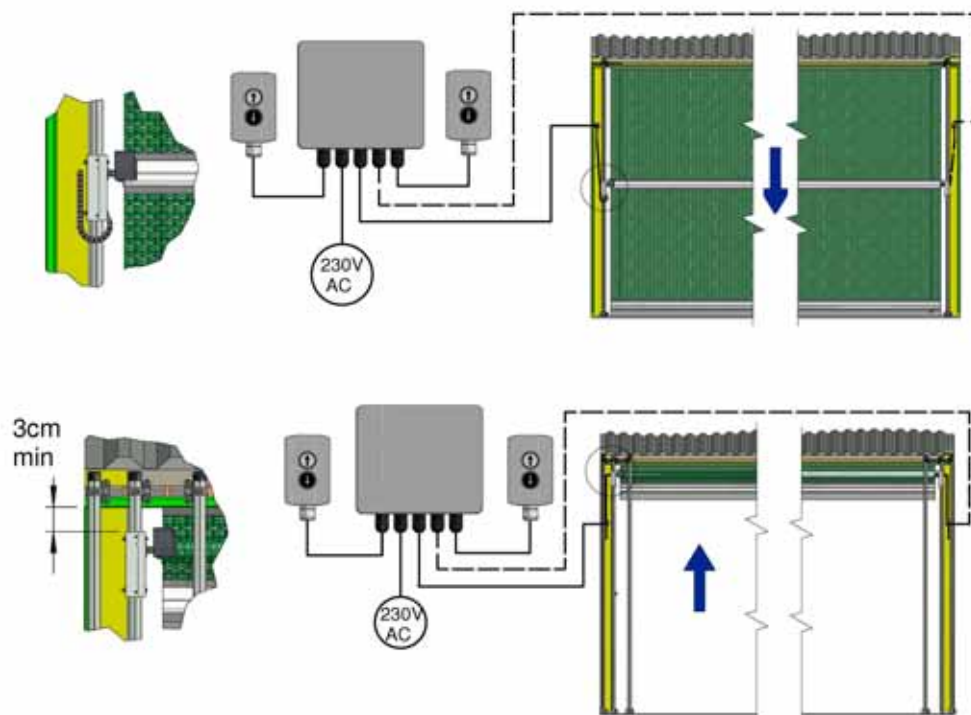


Figure 22b, Control Box Wiring

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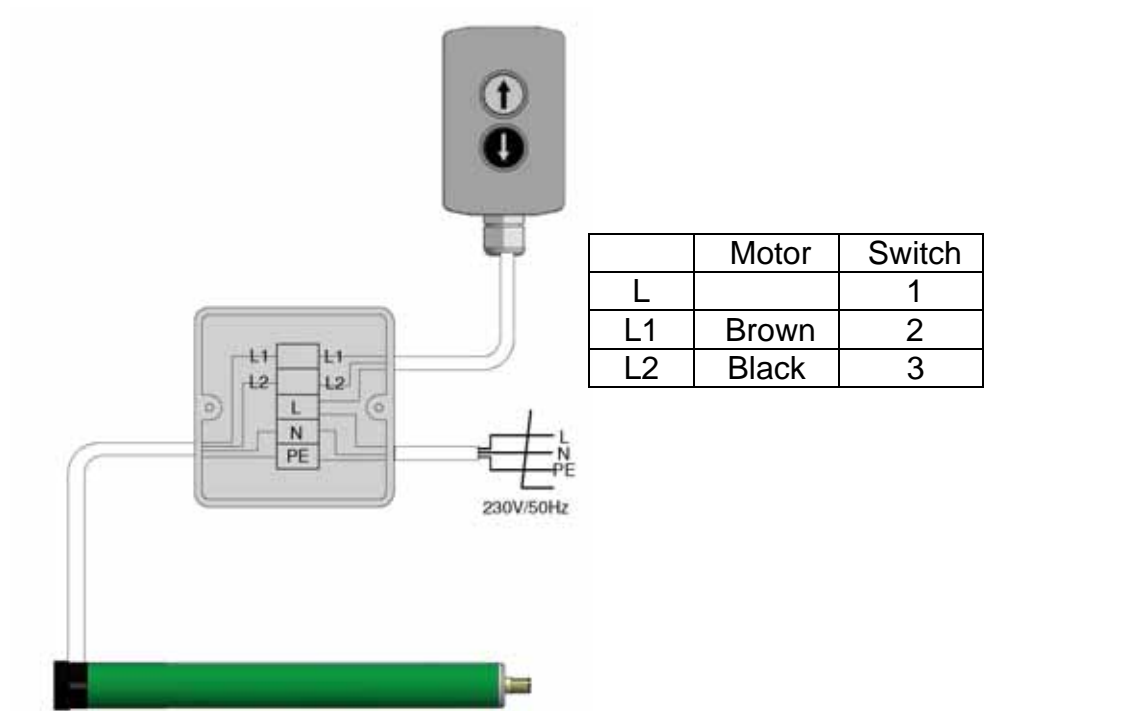


Figure 23a, Motor Left

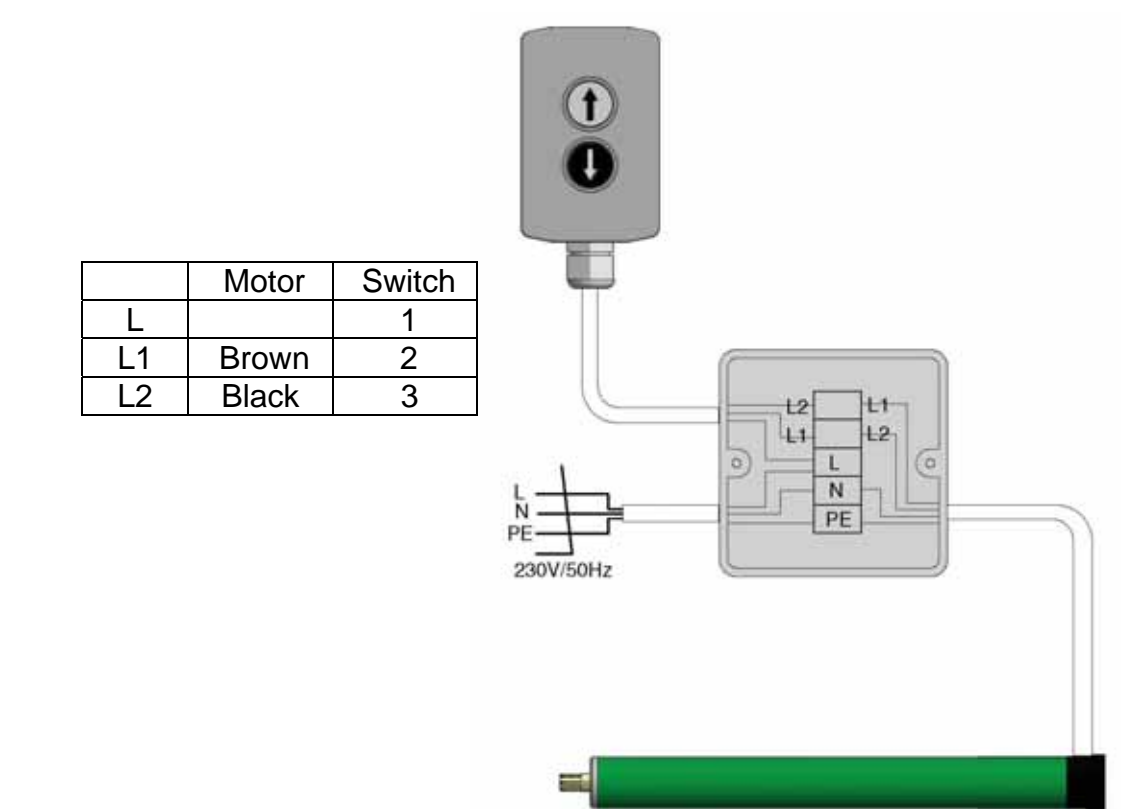
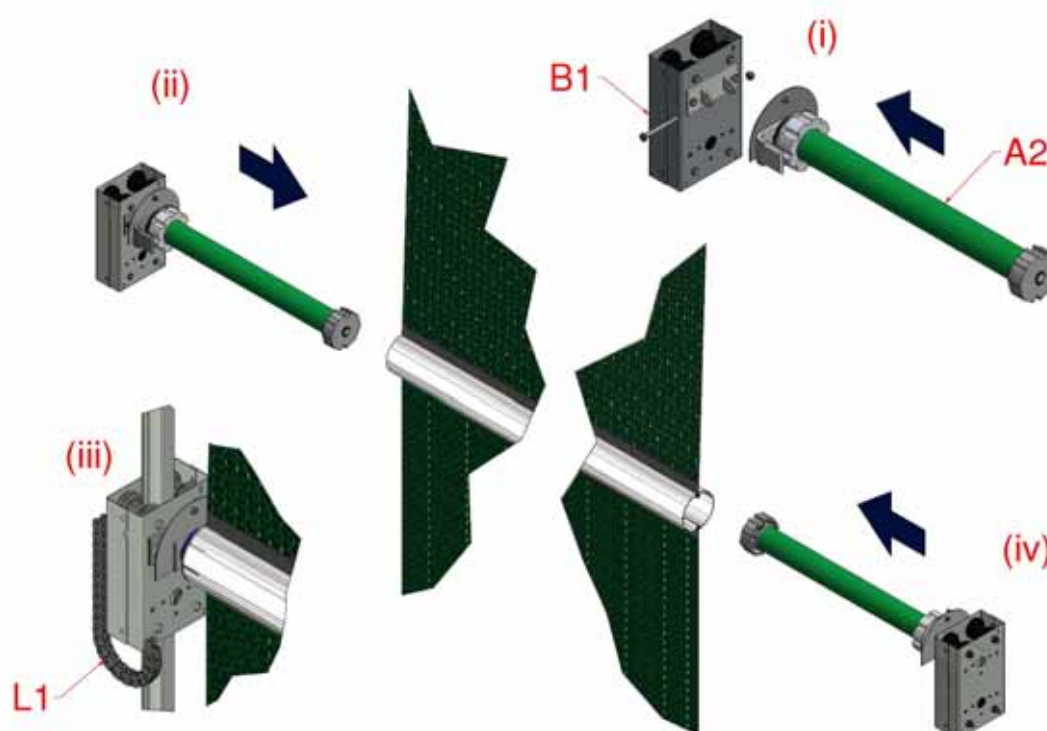


Figure 23b, Motor Right

***Twin Motor Drive***

4.10 Assemble the Motors (A2) to the drive end Trolley Boxes (B1) using the M8x80 bolts and nyloc nuts, Figure 24(i). Fit the Energy Chain Brackets (L1) to the lower outside edges of the Trolley Boxes using the M3x8mm screws and nuts. Before fitting the motor to the Middle Tube, temporarily power up the motor to ensure that it rotates in the direction that causes the curtain to roll up the outside of the upper sheet. Insert the pre-wired Motor and Trolley Box assembly into the control box end of the Middle Tube, Figure 24(ii).


ENG



*Figure 24, Twin Motor and Trolley Box*




4.11 Insert the Torque Tube into the Trolley Box and loosely clamp the Torque Tube to the upper Face Bracket with the Crossover Clamp (G2).

- a) For Face-End installation fix the lower End Support to the pre-drilled holes in the floor and tighten the upper clamp so the tube is securely fitted.
- b) For Face-Face installation fix the torque tube to the lower Face Bracket with the Crossover Clamp (G2).

	<b>ATTENTION:</b> When rolling the curtain the upper tube must roll up the outside of the upper sheet.
---	--

4.12 Run the 4-core motor cable from the control box to the second junction box (N1) at the other end of the system and fasten to the building. Before fitting the second motor to the Middle Tube, temporarily wire in the second motor, to ensure that its rotation is the same orientation as the first motor. Note that the motors are facing each other so the up & down directional wires will have to be reversed.

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	<b>ATTENTION:</b> Ensure both motors will turn the Middle Tube in the same direction before insertion in the Multibay otherwise the motors will be damaged for which Galebreaker Agri will not be liable.
	<b>ATTENTION:</b> The power supply should be taken from a LOCKABLE isolation switch positioned within 3m from the motor.
	<b>CAUTION:</b> Switches controlling the curtain <b>MUST</b> be positioned in such a way that when in use the operator has full view of the curtain.

4.13 Fit the second motor into the end of the Middle Tube, insert the Torque Tube into the Trolley Box and loosely clamp the Torque Tube to the upper Face Bracket with the Crossover Clamp (G2) as in Section 4.4.

4.14 Operate the Multibay two or three times with someone in attendance at either end to ensure the system runs correctly.

4.15 The separate instructions for Multiple Control Relay must be consulted to bring the Multibay into service - including setting the Motor/Curtain limits and wiring of the Motor to the electric supply.





**ATTENTION:** For safety reasons the Control Box if supplied, **MUST** be mounted inside the building for protection.

4.16 Having finished the set up of the electric Motor, including the limit switches, the outer End Covers (U1) are to be installed, Figure 25. Fit the additional Control Tubes previously cut in Section 4.7 using Crossover Clamps (G2).

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4.17 Slide the one kador edge of the Cover (U1) into the vertical profile (F1) on the building and the other into the flute of the Control Tube. The covers are tensioned vertically by hand and fixed using the same screwing method as used for the Curtain. By rotating the vertical tube that the Cover is attached to, transverse tension is created. Once tight the vertical tube can be clamped using the Crossover Clamps (G2).

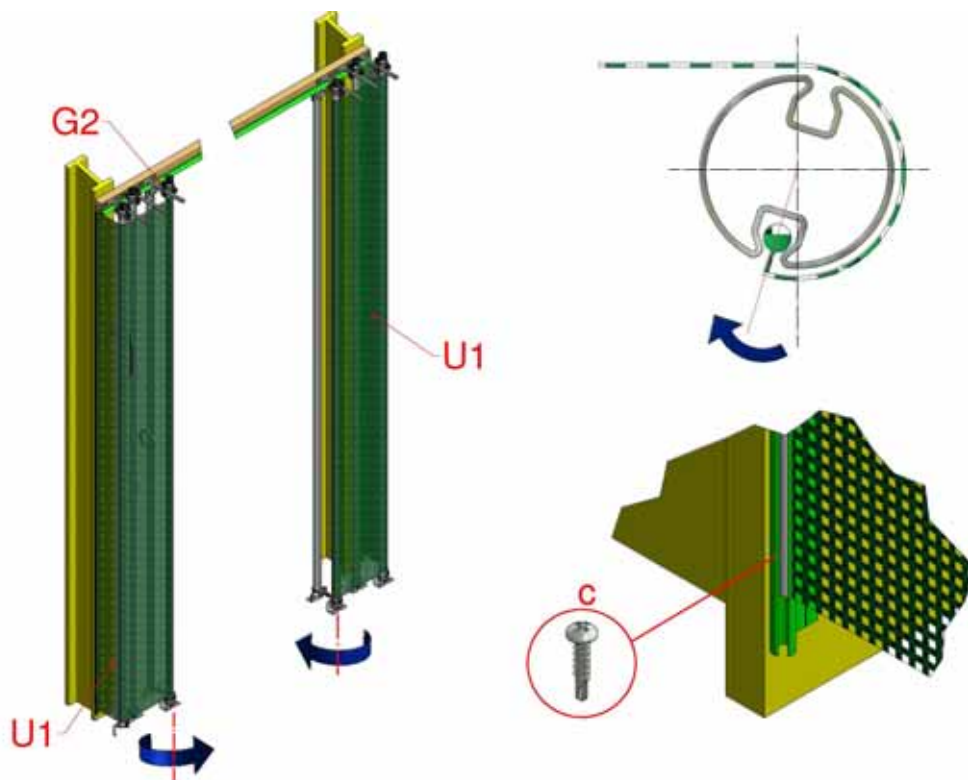


Figure 25, End Covers



**ATTENTION:** The Cover fabric must wrap around the vertical tube so that the Bottom Rolling Tube is in contact with the cover fabric and not the steel tube since this helps to protect the curtain fabric as it opens and closes.

Test operation:

- During a curtain opening/closing process check that the Curtain rolls smoothly
- Check that the top and bottom end limits are set correctly

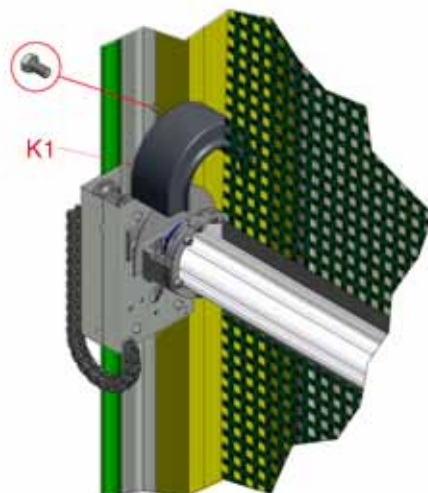


**ATTENTION:** Operating the system when the curtain is frozen can damage the rolling action of the product.



**ATTENTION:** When the system is fully operational, open and close the curtain a number of times to make sure that the limits are working correctly.

4.18 Slide the Trolley Box Cover (K1) onto the Mounting Bracket and secure with the M6x12 set screw provided.



*Figure 26, Trolley Box Cover*

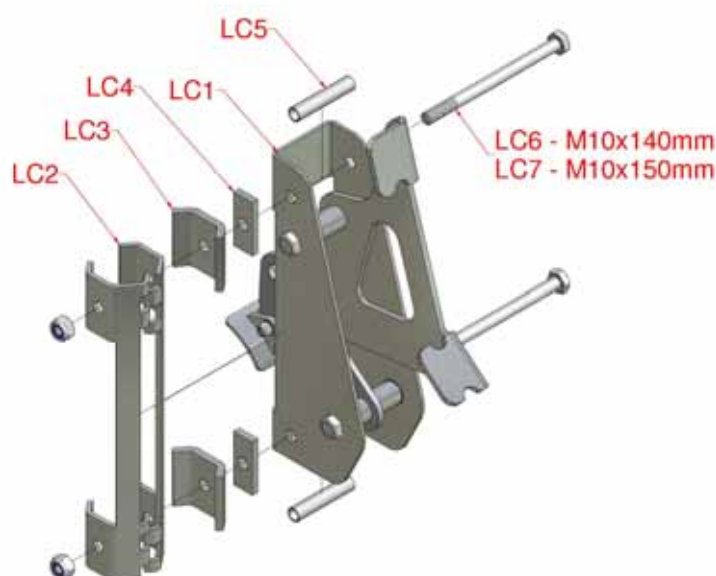


**ATTENTION: Failure to fit the Motor Trolley Box Cover will result in water ingress into the motor with potential of motor failure.**

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## 5. Locking Catches

The Locking Catches must be fitted to each outer Control Tube. The catch is fitted to the RH side of the Control Tube on all but the RH end Control Tube.



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Figure 27, Locking catch

Ref.	Qty/ Intermediate	Qty/ LH End	Qty/ RH End	Description
LC1	1	1	1	Catch Assembly
LC2	2	0	0	Clamp Plate
LC3	2	4	4	Spacer Plate
LC4	0	2	4	Packer Plate
LC5	2	2	2	Spacer Tube
LC6	2	0	0	Mounting Bolt and Nut 140mm
LC7	0	2	2	Mounting Bolt and Nut 150mm

### 5.1 Intermediate Control tubes

- a) With the Catch in the neutral position, Figure 28(i) (i.e the roller in the middle stop on the track) hold the catch against the outer Control Tube with the shoe resting on the Bottom Rolling Tube and mark the mounting hole positions on the tube, Figure 28(ii).
- b) Place the two Clamp Plates around the Control Tube with the interlocking fingers locating in the outer flute of the tube, Figure 28(iii). Align the mounting holes with the marks made in 5(a) above

and using the Clamp Plates as a jig, drill through from each side for an M10 bolt.

- c) Attach the Catch to the tube with the M10x140mm long bolts, placing Spacer Tubes inside the catch and Spacer Plates between the Catch and the Clamp Plates, Figure 28(iv).

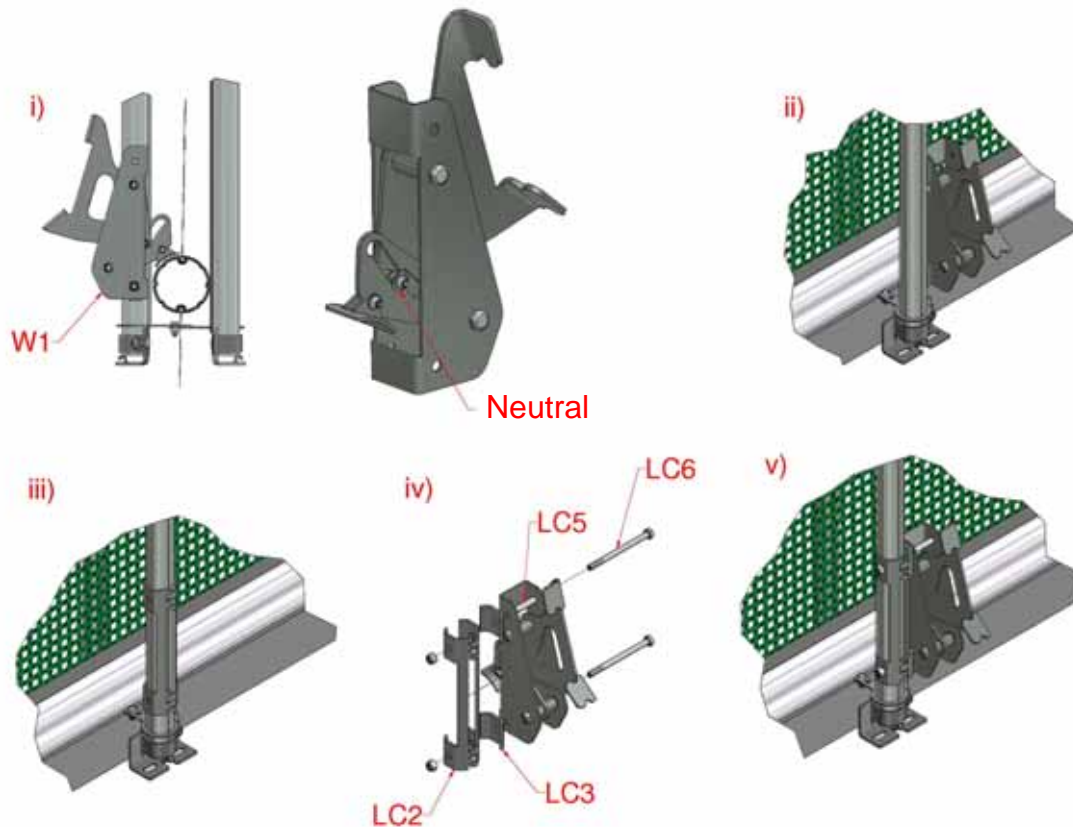


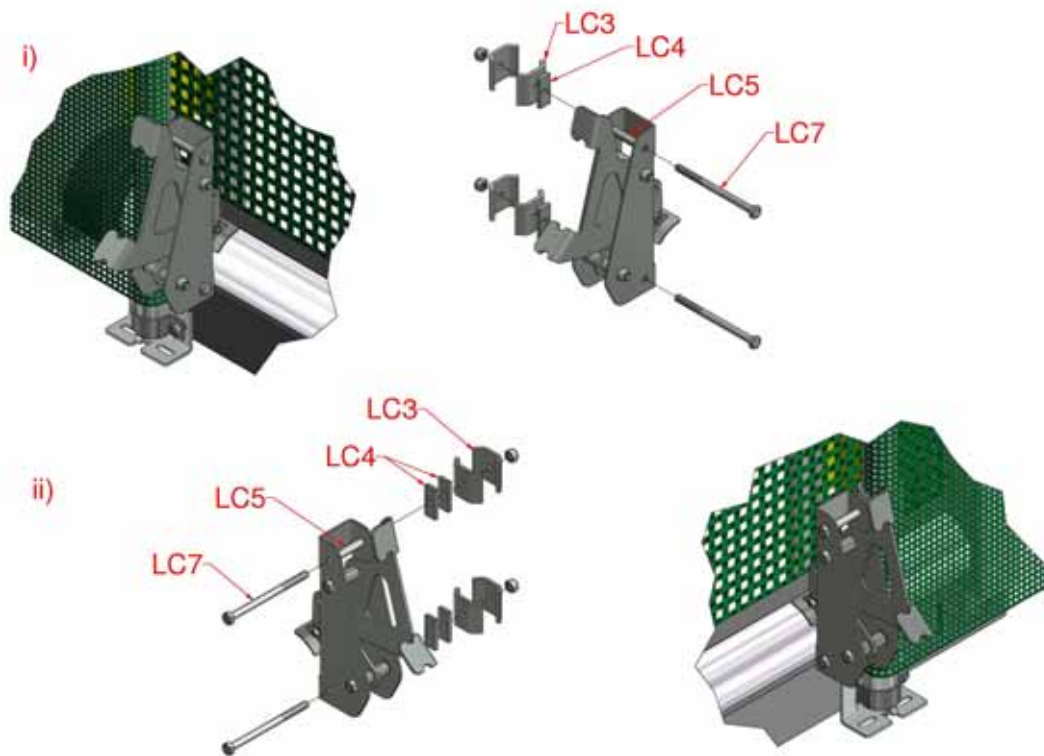
Figure 28, Intermediate Locking Catches

## 5.2 LH End Control Tube

For the LH end Control Tube hold the Catch in position and mark the mounting hole positions as before. Drill the M10 holes directly through tube and Cover and fit the Catch as before but with M10x150mm long bolts, a Packer Plate and a Spacer Plate each side of the tube, Figure 29(i).

## 5.3 RH End Control Tube

Repeat 5.2 for the RH control tube but fit two Packer Plates between the Catch and the Spacer Plate, Figure 29(ii).



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Figure 29, End Locking Catches



**ATTENTION:** On windy days, the locking catches must be used otherwise the system could be damaged.

## 6 Installing Free End Trolley Box (Optional – single motor drive)

- 6.1 To fit the optional free end Trolley Box fit the additional Face Bracket(s) (E1) to the Free End, see Section 2.1. The end of the Middle Tube needs to finish 2cm from the centre of the upper Face Bracket (E1) or 6.5cm from the centre of the Torque Tube as in Figure 30.
- 6.2 For Face-Face installation pre-drill the holes into the floor for fixing so that the Torque Tube is centred 8 cm from the centre of the inner Control Tube, Figure 30. Slide the Free End Shaft into the end of the Middle Tube and secure with two M4.2x19 self drilling screws.
- 6.3 Cut and fit the Torque Tube (C1) to the Free End as shown in Section 4.1, passing the Torque Tube through the Trolley Box. Place the end of the free end Shaft into the Cup Bracket on the Trolley Box and secure with the  $\text{\O}4\times75\text{mm}$  Split Pin supplied.

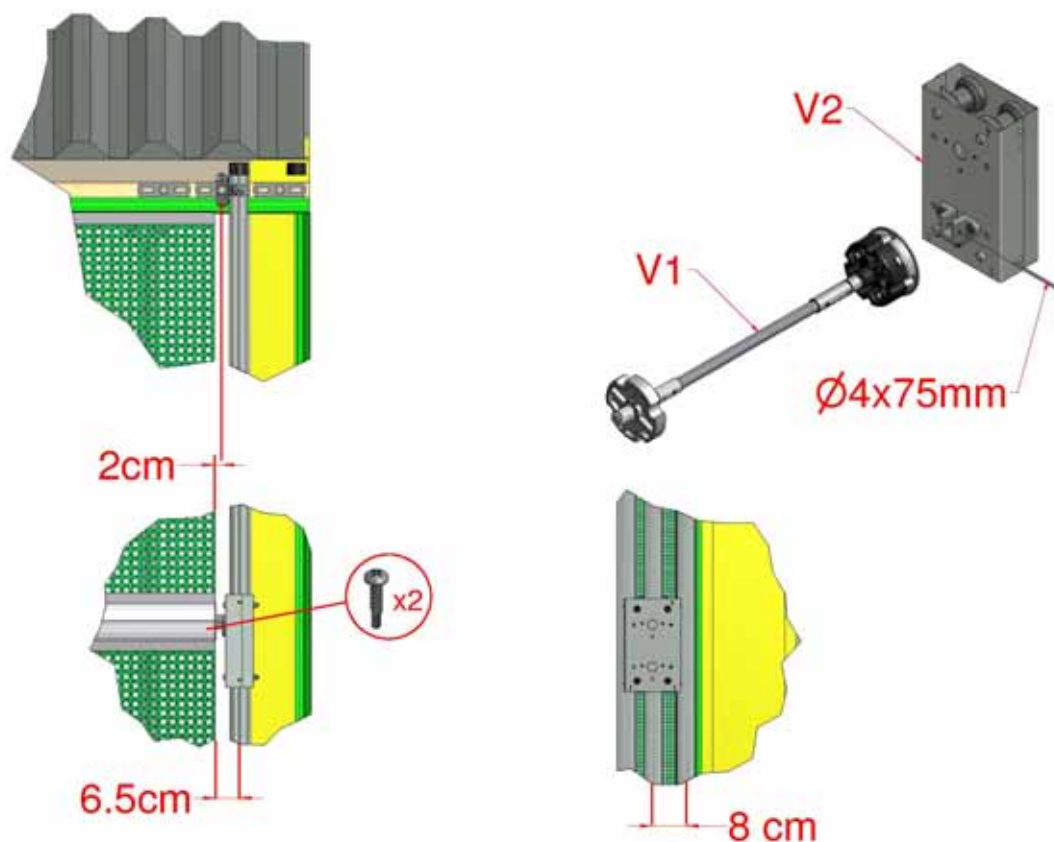


Figure 30, Free End trolley Box

## 7 CE Marking Electrically Operated Products under Machinery Directive

**It is the responsibility of the installer to check that the installation conforms to the specific safety features detailed in the Manufacturer's Installation Instructions, to issue the CE Declaration of Conformity and mark a power operated product under the Machinery Directive**

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**2006/42/EC.** To do this you will require the following which should be delivered with the product:

- 1) This set of Installation Instructions (*operating and maintenance instructions*)
- 2) Maintenance Log Book, (*including Installation Checklist and Customer Declaration of Conformity*)
- 3) 1 x Declaration of Conformity (Installer Copy) – *to be completed*
- 4) A CE Label

**When CE marking a power operated Galebreaker product, it is vital to follow the steps outlined below:**

- a) Install the product as per instructions, with no adaptations or modifications and complete of the *Health and Safety Checklist* in the Maintenance Log Book.
- b) Complete the two 'Declarations of Conformity' using the following:
  - **Model Type:** As shown on CE Label
  - **Serial Number:** As shown on CE Label
  - **Installation Company:** Your company name
  - **Date Installed:** Date Installed
  - **Declaration made by:** Responsible Person
  - **Declaration and Instructions received by:** Customer's Signature
- c) Fix the supplied CE label to the bottom tube adjacent to the drive end cover. The label should be accessible / visible. Where the serial number does not incorporate the door size, add the Product width and Product height to the end of serial number using a permanent marker pen. i.e. the full serial number should read



Serial Number: 1234 / MBE L X B

[L] Product Length (m)

[B] Product Height (m)

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- d) Your customer must be given a copy of the completed 'Maintenance Log Book' along with the 'Installation Instructions' supplied by Galebreaker. These should be stored adjacent to the door controls for reference purposes.
- e) Finally, ask your customer to sign the 'Declaration of Conformity' (Installer Copy). This important document must be filed back at the office of the installer for future reference



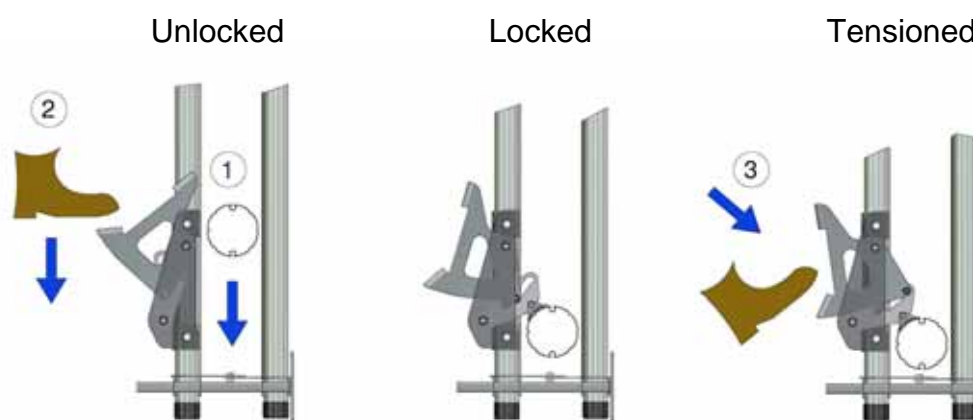
**ATTENTION: Use of motors or controllers that are not supplied by Galebreaker, will make the installer the manufacturer (as defined by the Machine Directive 2006/42/EC) of the system and will require the installer to produce their own 'EC Declaration of Conformity' and product 'CE label'.**

**In such circumstances the door supplied by Galebreaker becomes a partly completed machine and therefore a Certificate of Incorporation can be supplied on request. The installer MUST NOT use the CE documentation supplied by Galebreaker.**

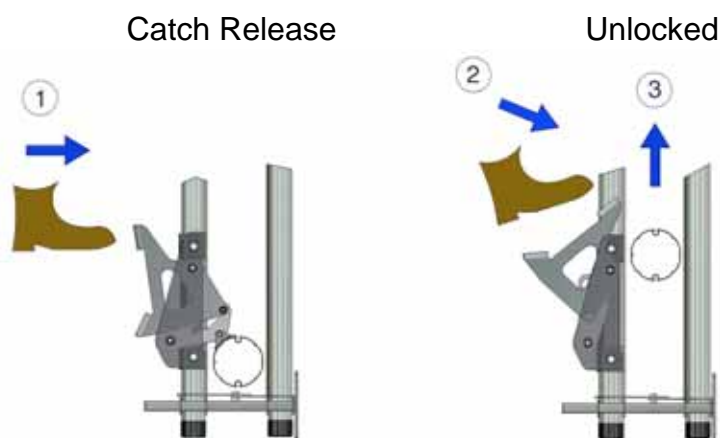
**OPERATION AND MAINTENANCE****8 How To Use Your Multibay**

- 8.1 Press either of the Control Switches to move the Curtain into the required position.
- 8.2 When fully closed the Catches can be manually engaged to the locked position to prevent the Bottom Tube being lifted. On windy days the Bottom Tube must be tensioned down by fully depressing the Catch, Figure 31.

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*Figure 31, Locking the Curtain*

- 8.3 To release the Catch kick the upper pedal to release the tension and continue to push until the pedal engages on the detent and remains open, Figure 32.

*Figure 32, Unlocking the Curtain*

- 8.4 If the Multibay is fitted above a barrier then the Locking Catches will need to be operated by hand with the help of the locking catch lever (Y1), Figure 33.

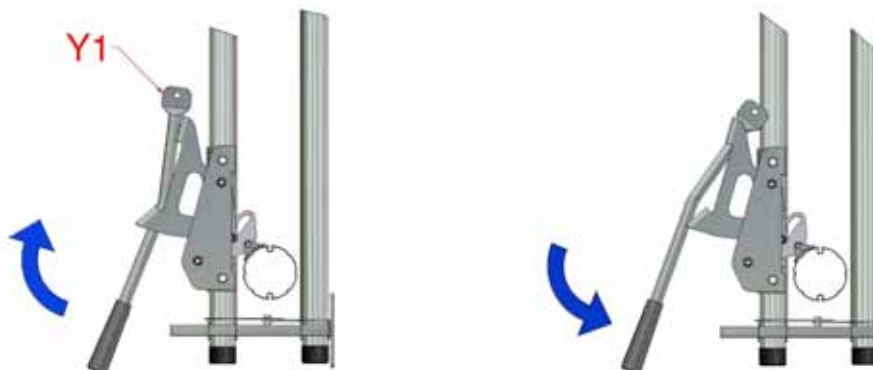


Figure 33, Locking Catch Hand Operation



**ATTENTION:** Operating the system when the curtain is frozen can damage the rolling action of the product.

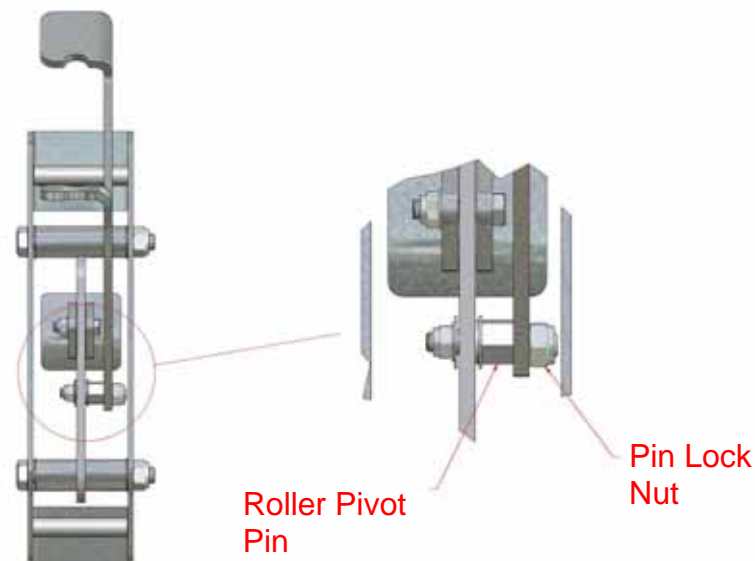
### ***Important Safety Information***

- This door must only be operated by users familiar with its operation.
- When operating the door do not place fingers near any moving parts at any time.
- The person operating the door must have the door in sight at all times during its operation and ensure it is clear of personnel.
- Do not permit children to play with the door or its electrical controls.
- Do not modify or attach any objects to the door as this may cause damage and/or injury.
- Operate the door only when properly adjusted and free from obstructions.
- Should the door become difficult to operate or inoperable, consult your local dealer. Repairs should only be carried out by competent personnel.

## 9 Maintenance of your System

- Check your system annually for corrosion of the supporting bolts and the Control Tubes in general. Replace suspect items to ensure the system is safe for use.
- Check annually the electrical cables for damage. Use a qualified electrician for any repairs.
- The Motor and controls are maintenance free items.
- Should curtain material be damaged, repair with special repair kit (code SPS-99) available from your Galebreaker dealer, importer or head office.
- If the Locking Catch detent should wear preventing the catch from remaining in the unlocked position, the Roller Pivot Pin can be adjusted to increase the detent force. Slacken off the Pin Lock Nut and rotate the Roller Pivot Pin 1/8 of a turn, Figure 34. Tighten the Pin lock Nut and test, repeat if necessary.

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*Figure 34, Catch Detent Adjustment*

## 10 *How to dismantle your Multibay*

Follow the installation instructions in reverse order.

**NOTE:** This product has been designed and tested to European Standard EN 13241-1 with a resistance to wind load rating of Class 4. Tried and tested in the harshest weather conditions, a summary of our guarantee is as follows, see our website for full details:

- **Mechanical components:** 100% guarantee for two years, followed by an eight year graduated guarantee.
- **Electrical components:** 100% guarantee for two years, followed by a four year graduated guarantee.

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**RAIN INGRESS:** Please note that in extreme weather conditions some moisture will penetrate a mesh material.

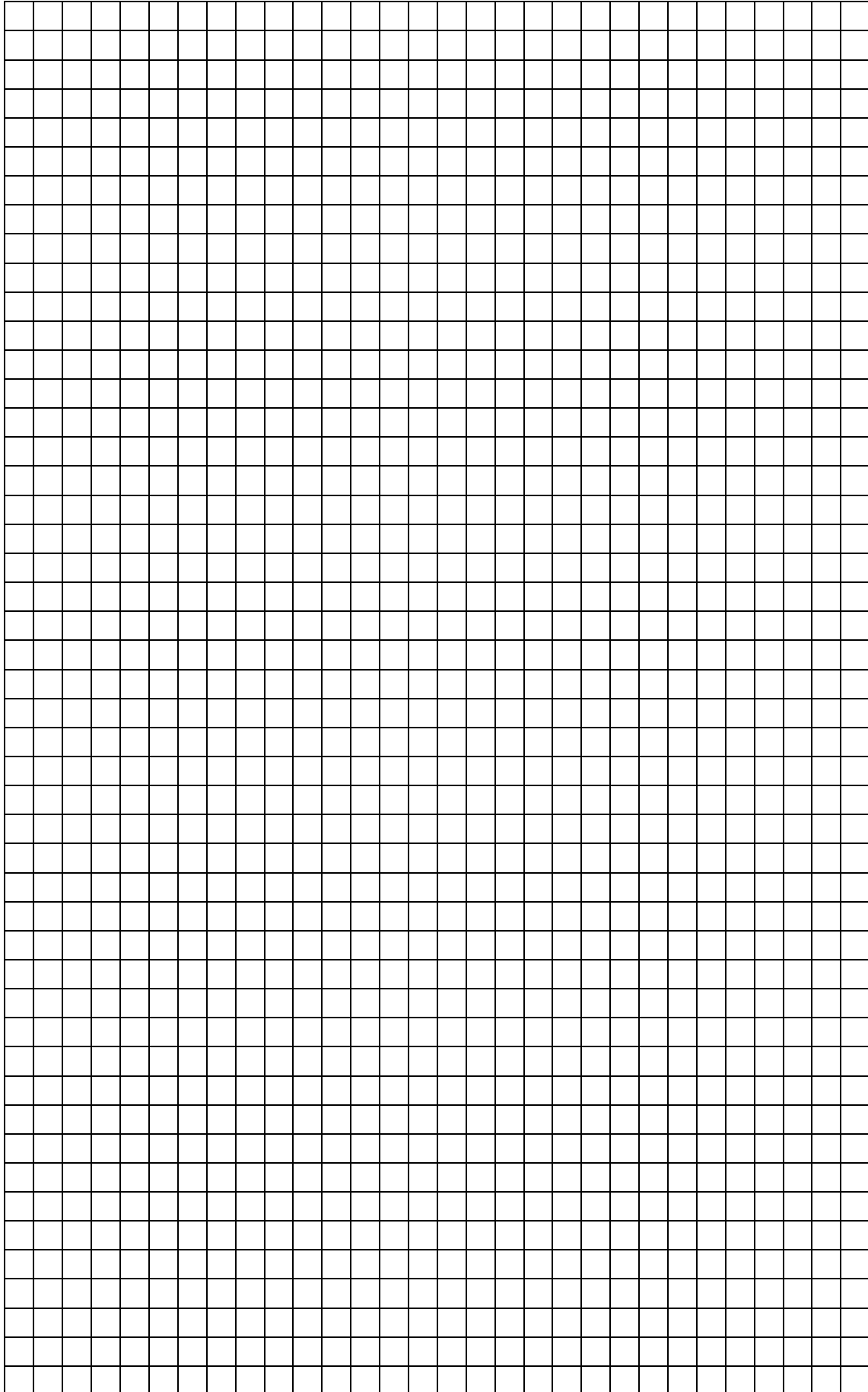
### **Wind Load Resistance:**

**Mesh 75% Solid**

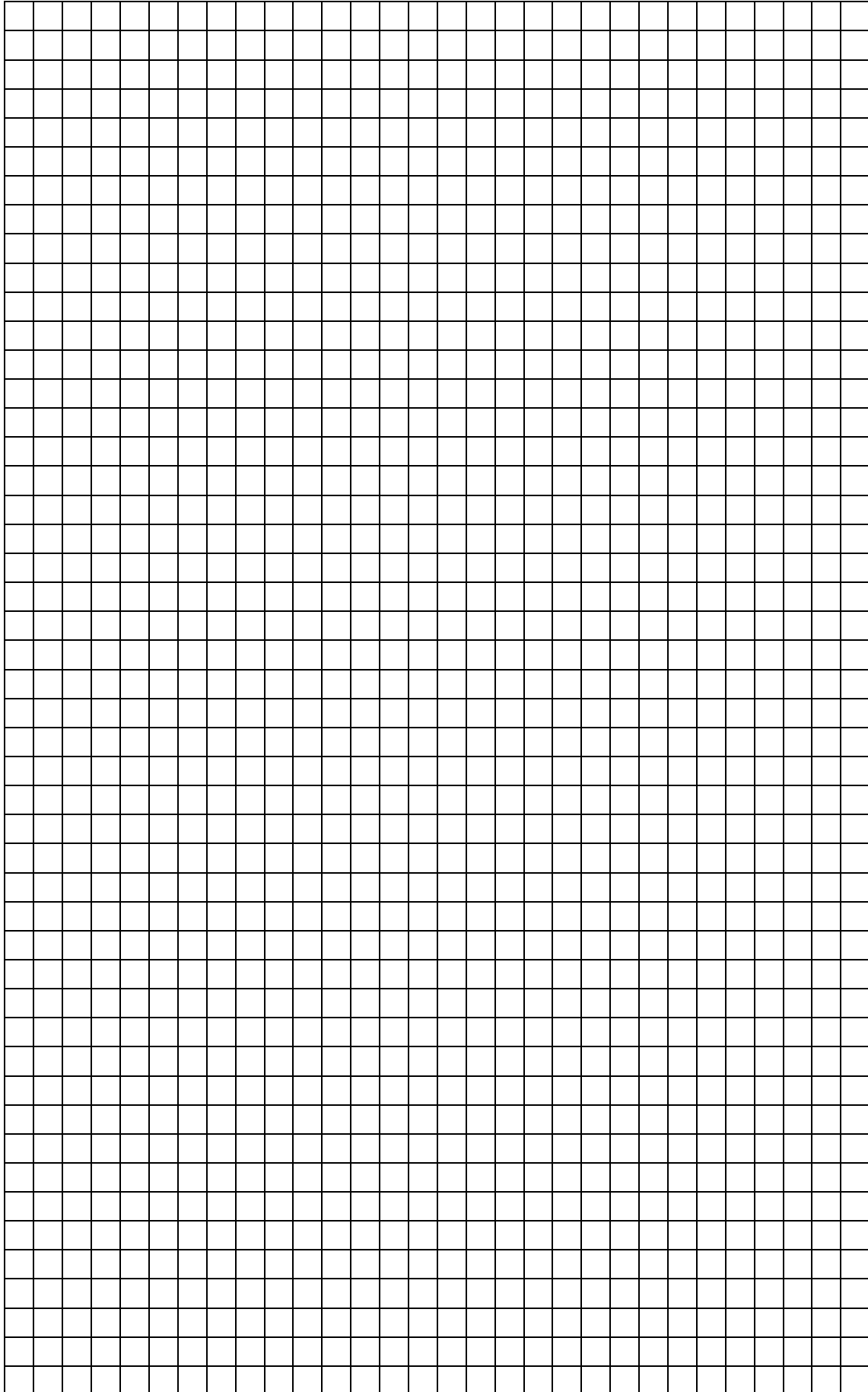
**Up to 4m = Class 4**

**Solid Material**

**Up to 4m = Class 4**



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Designed and Manufactured in the UK by Galebreaker AgriLtd.  
Original Instructions

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**Model Number MB-MR-E/MK1/1712**

**Instruction Ver: 2017/12/ENG**