

# Agridoor Pro Tubular



## Installation and Operating Instructions



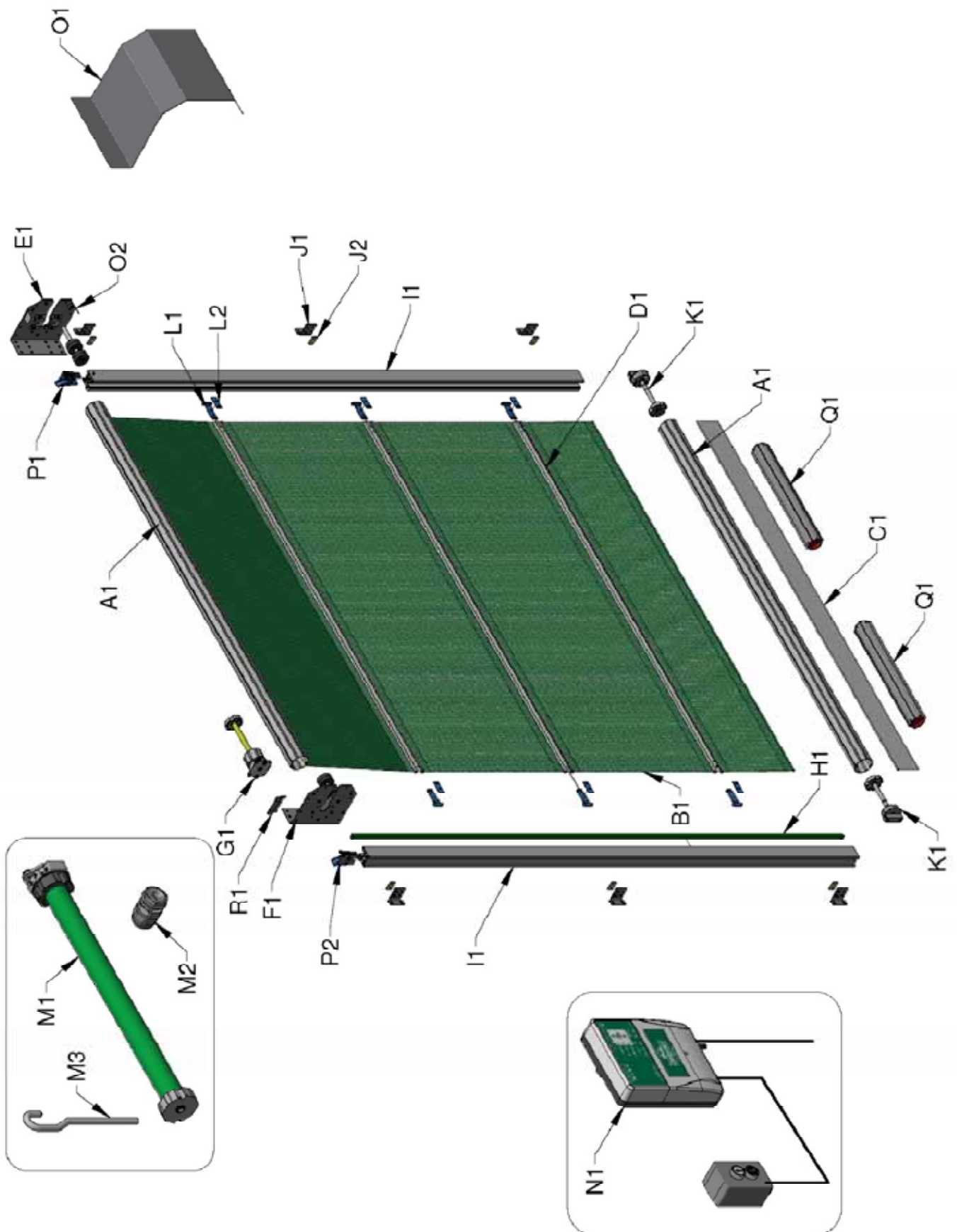


Figure 1, System Overview and Individual Components

**INTRODUCTION**

**Parts List**

REFERENCE:	QTY	PRODUCT DESCRIPTION
A1	2	Top and Bottom Tubes
B1	*	Fabric Panels
C1	1	Lower Flap
D1	*	Tension Bars
E1	1	Drive Bracket
F1	1	Free End Bracket
G1	1	Brake Shaft Assembly
G2	1	Brake Cover
H1	*	Track Slide Insert
I1	2	Aluminium Tracking
J1	*	Track Mount Bracket
J2	*	Track Clamp Plate
K1	2	Bottom Tube Insert
L1	*	Wind Lock
L2	*	Wind Lock Plate
M1	1	Electric Motor
M2	1	M16 Cable Gland
M3	1	Manual Override Hook
N1	1	Control Box and External Switch
O1	2	30cm Motor Cowling
O2	8	Cowling Brackets
P1	1	Funnel Assembly RH
P2	1	Funnel Assembly LH
Q1	4	Bottom Tube Weights
R1	1	Retainer plate
R2	*	M8 x 16 Hex bolts for Track Clamp Plates
S1	8	M8 x 20 Hex Bolts for Cowling Brackets
T1	*	M8 x 30 Hex Bolts for Fixing Tracking to Building
U1	8	M10 x 30 Hex Bolts for Fixing Brackets to a Steel Building
V1	*	M8 Nylocs for Fixing Tracking to Building
V2	8	M8 Nuts
W1	20	M8 Washers
X1	8	M10 Washers
Y1	8	M10 Nylocs
Z1	1	75mm Split Pin to Secure Top Tube to Bracket
AA1	*	M6 x 16 Countersunk Screw and Nyloc Nuts
AB1	*	M4 x 25 Self-Drilling Screws for Fixing Fabric Panels, Inserts and Flap.
AC1	10	M5.5 x 19 Hex Self Drilling Screws

\* Quantities according to size of door

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**Your Safety**

The larger doors will require a mechanical lift to mount the roller assembly onto the top brackets. The respective weights are given in the table below based on M75 fabric. Add 5% to this figure for doors supplied with M90 fabric, and 15% for doors supplied with solid fabrics.

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WIDTH	HEIGHT			
	3.1m	4.1m	5.1	6.1m
3.0m	29kg	32kg	34kg	36kg
3.5m	32kg	35kg	38kg	41kg
4.0m	35kg	38kg	42kg	45kg
4.5m	38kg	42kg	46kg	50kg
5.0m	41kg	45kg	50kg	54kg
5.5m	44kg	49kg	53kg	58kg
6.0m	47kg	52kg	57kg	63kg
6.5m	50kg	56kg	61kg	67kg

Table 1, Roller Assembly Weights



**CAUTION:** To safeguard against any danger points, the minimum height 'H' of any door is 2.5m.

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**

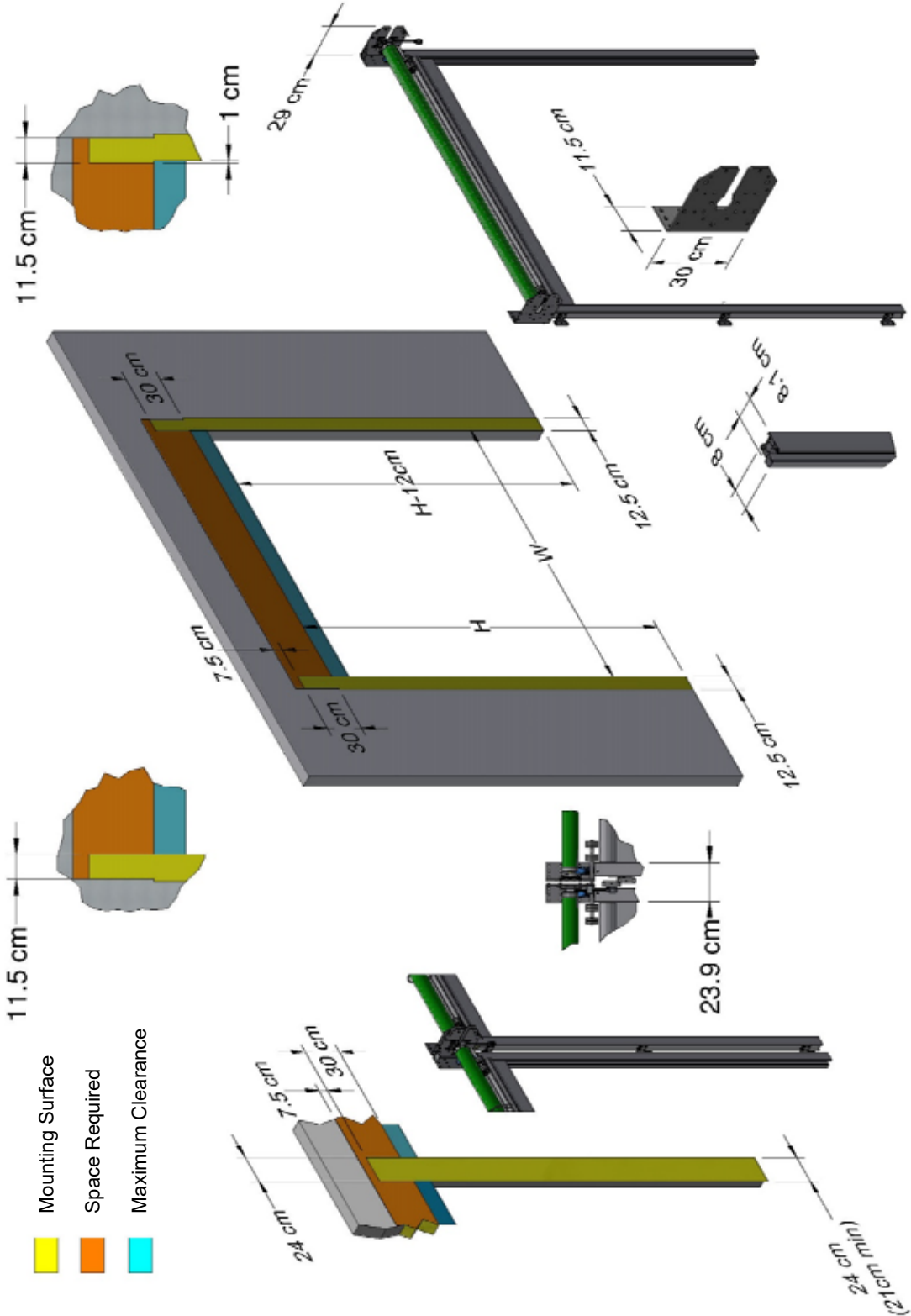
The structure to which the door is fitted needs to be of adequate strength to resist the following wind loads.

Wind Speed (km/hr)	Wind Pressure N/m <sup>2</sup>	Wind Load (N)*	Wind Load (Kg)*
70 km/hr	233	= W x H x 233	= W x H x 24
100 km/hr	481	= W x H x 481	= W x H x 49
140km/hr	933	= W x H x 933	= W x H x 95

\*No allowance made for safety margins

**Pre-Installation Check**

Figure 2 indicates space required to install your door, with additional information for mounting multiple doors in series



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Figure 2, Fitting Requiremen

Order Width (m)	Max Width W (m)
3.0	3.0
3.5	3.5
4.0	4.0
4.5	4.5
5.0	5.0
5.5	5.5
6.0	6.0
6.5	6.5

Order Height (m)	Max Opening Height H (m)	Max Clearance H-12cm (m)
3.1	3.12	3.0
4.1	4.12	4.0
5.1	5.12	5.0
6.1	6.12	6.0

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**CAUTION:** To safeguard against any danger points, the minimum height 'H' of any door is 2.5m.

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.

**Right or Left Hand Drive**

Your door will be supplied in accordance with the drive orientation specified when ordered. The images and text in these Instructions are based on a door with a right-hand drive, if you have ordered a left-hand drive then reverse the references. To change the orientation of your product:

- Top Brackets: The mounting plate is non-handed with a pair of holes for left or right orientation. To change orientation remove the item from the plate and secure on the opposite hand.

**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.

Only use the Electric controls supplied with the door.



**ATTENTION:** The power supply must be a clean Mains Supply and not taken from an Electric Generator Set.



**ATTENTION:** The power supply must be taken from a **LOCKABLE** isolation switch positioned within 2m from the door.

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

**Noise Levels**

A-weighted sound pressure level (dB)	<b>50</b>
C-weighted peak sound pressure level (dB)	<b>75</b>

***Items Required by the Installer***

Standard tool kit including:

- Electric drill
- Angle grinder
- Sharp pair of scissors or knife
- Spirit level
- Bolts for fixing to steel up to 12mm thick are supplied, if fixing to a wooden or concrete building you will require eight M10 fixings to fasten top brackets and M8 fixings for guide rails.
- Clips to fix electrical cables to the building
- Power for motor (220Volts, 600Watts, 3Amps)
- 50mm hole saw for steel

**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)



For Instructions and video scan QR code with camera phone

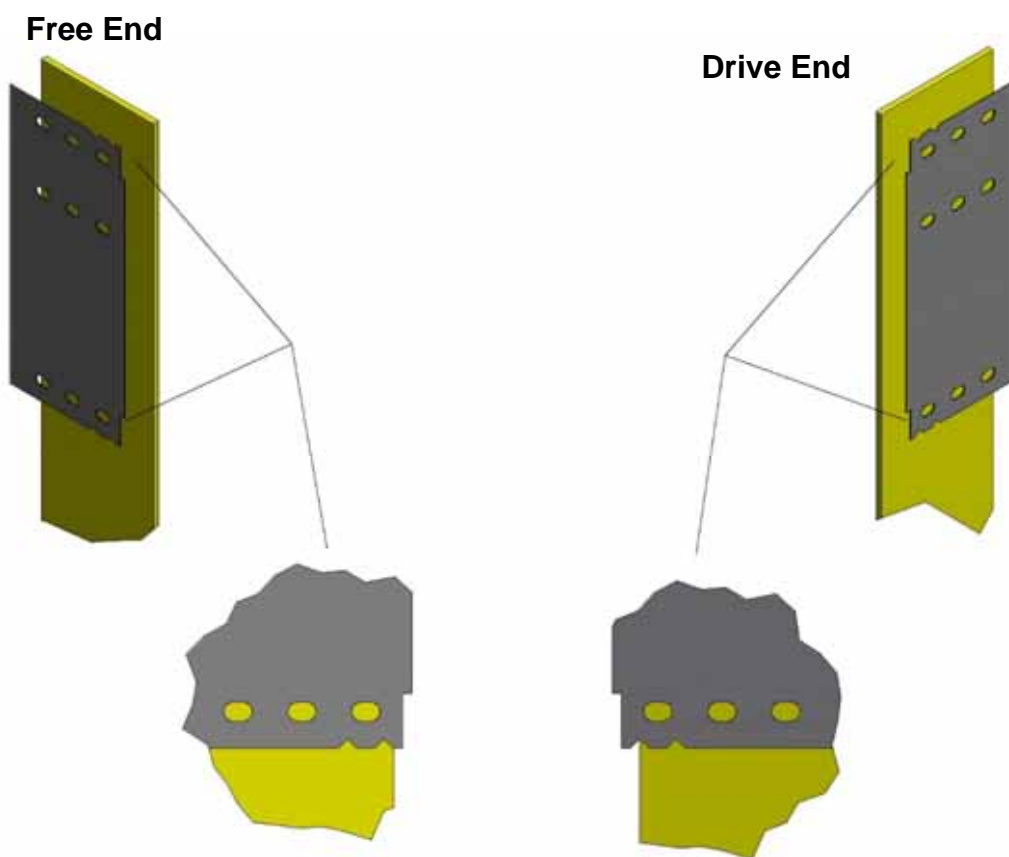
## INSTALLATION

1. Check the contents of your door against the parts, Figure 1. Do not let the screen material come into contact with sharp objects or corners.

### *Fitting the Top Brackets*

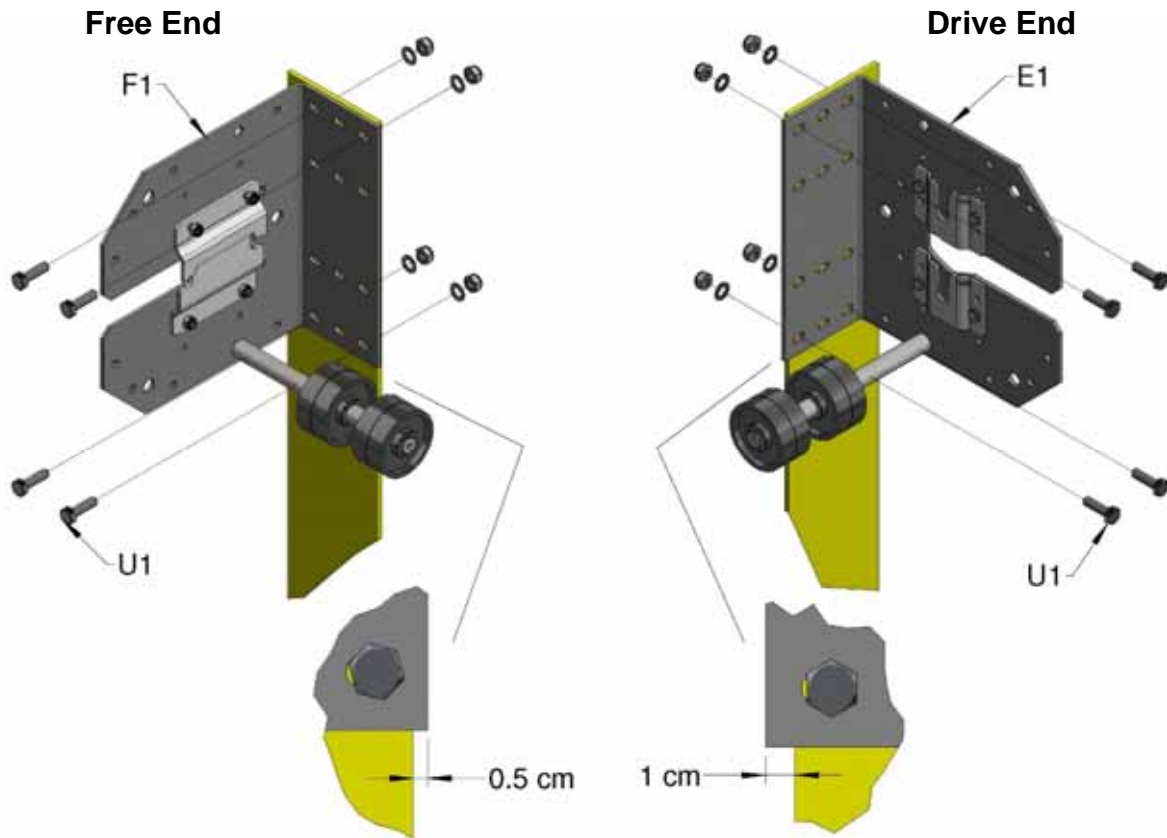
2. Position the template on the building as shown in figure 3a, mark and drill fixing holes for the Top Brackets. Use the upper row of holes and the lower row of holes (the second row of holes can be used if necessary).

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*Figure 3a, Top Bracket Positioning*

Fit the free end bracket (F1) and drive end bracket (E1) with M10 fixings (S1), it is essential that they are **level and upright and square to the building**.




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Figure 3b, Install Top Brackets

**CAUTION** Referring to Table 1 on page 4, ensure the building is of sound construction and that the most suitable type of fastener is used. Use only M10 bolts or greater to fit these items and ensure they are securely fastened to the building. Failure of these fixings will result in your door falling off the building, potentially injuring operators and bystanders.

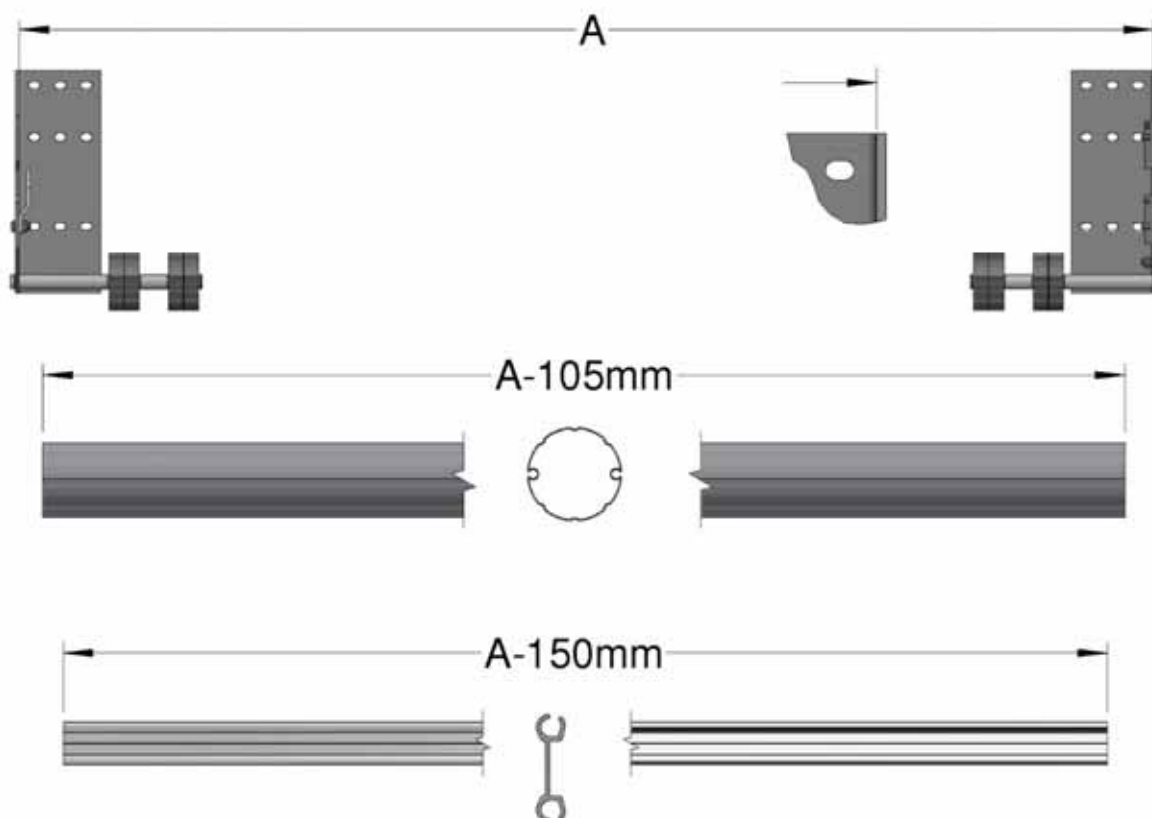
**Cutting the Top tube and Windbars**

3a. If it is required to cut your door, measure the daylight gap between the inside face of the top brackets (A) and cut to the following rules (Figure 4a), do not cut the lower flap and tube at this point.



**ATTENTION:** It is important that all the Tension Bars are cut to exactly the same length

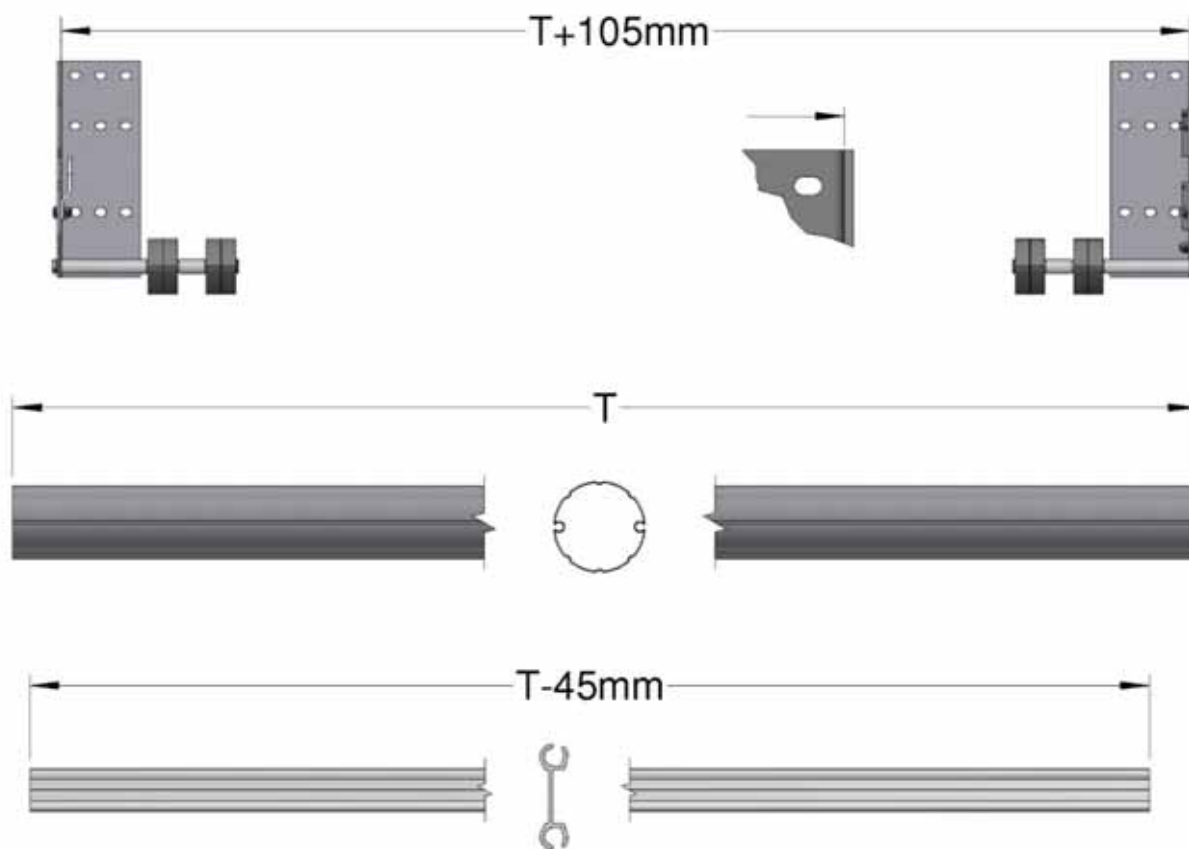
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*Figure 4a, Standard Cutting Lengths when Cutting Tube*

- Top Tube = Distance between inside faces -105mm
- Tension bars = Distance between inside faces -150mm

- 3b. If your door can be mounted without cutting the top tube, follow the dimensions shown in Figure 4b, note the tension bars, fabric, bottom tube and flap will always have to be cut.



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Figure 4b, Top Bracket Spacing When Not Cutting Tube

4. Fit the Drilling Template into the recess with the groove and fully up against the end stop. Use the template to drill two holes in the ends of the Tension Bar D1 with a 6mm drill (Figure 5a).

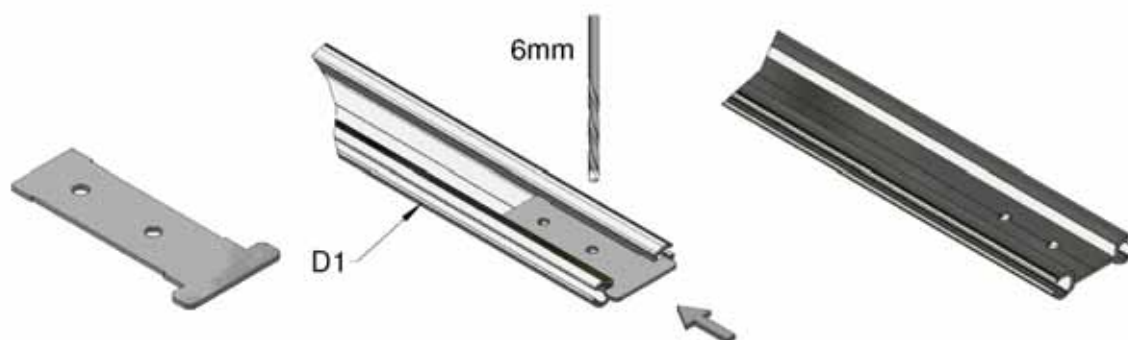


Figure 5a, Drilling Tension Bars



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*Figure 5b, Mark Tension Bars*

Place a mark with a pencil on the tension bar at the end of the drill jig as shown for the position of the fixing screws

Slide the 6mm nylon insert into both pockets of the first fabric panel and cut to length. Push the Flute Guide Insert over the end of the flute in the tube 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.

5. Slide the fabric panel into the flute on the top tube. Push the Flute Guide Insert over the end of the flute in the tension bar to protect the fabric sheet. and then slide the tension bar onto the fabric panel. Note the correct orientation of the tension bar relative to the door arrangement (Figure 6a)

**NOTE: To ease the insertion of the fabric panels into the windbars ensure all metal burrs are removed and use a lubricant such as light oil or washing-up liquid.**

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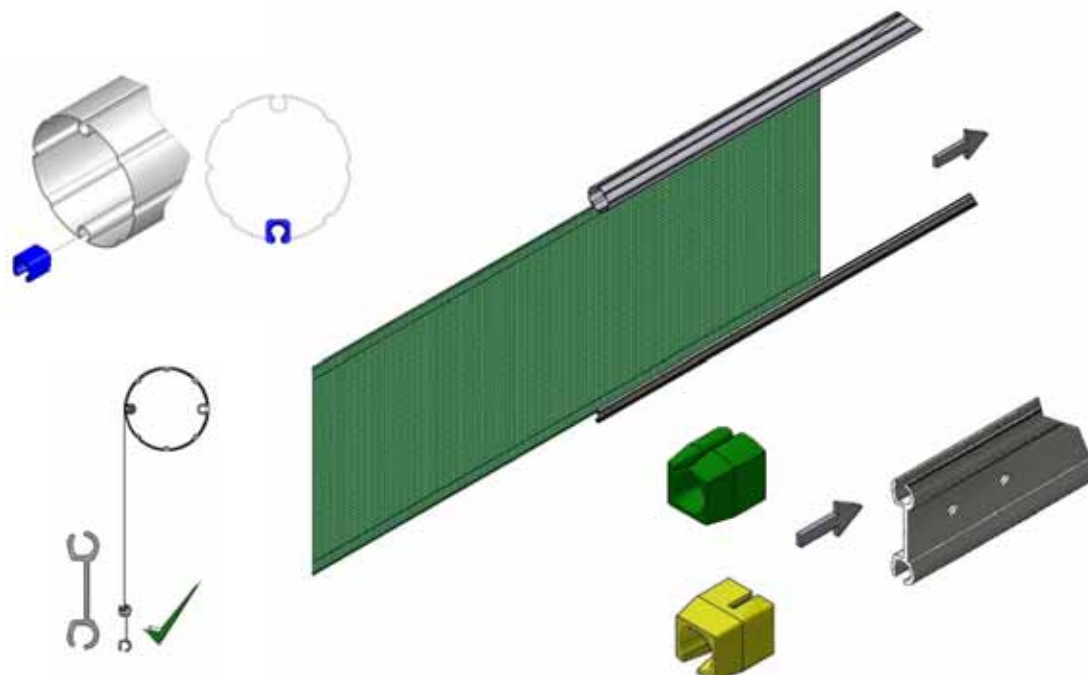


Figure 6a, Panel Assembly

Secure the one end of the panel to the top tube and tension bar using the 25mm self-drilling screws supplied (Z1) in the position shown in Figure 6c.

When securing the fabric to the tension bar, insert a 4mm Hex Key into the end of the tension bar as shown in Figure 6b to constrain the movement of the 6mm nylon insert. (remove the hex key after fixing)

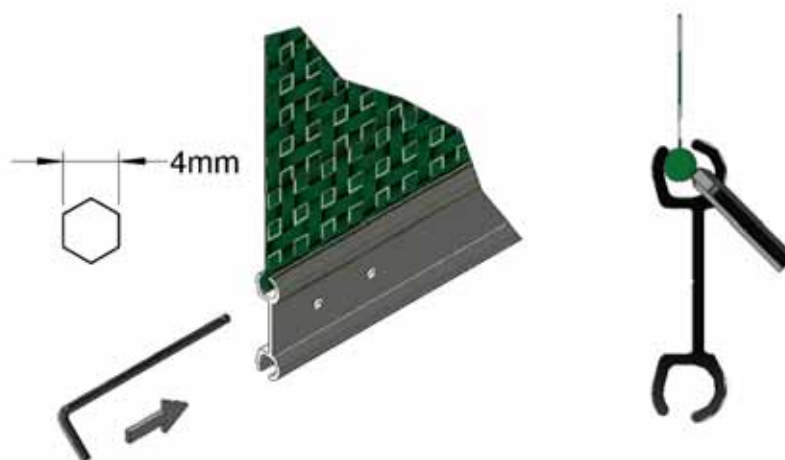
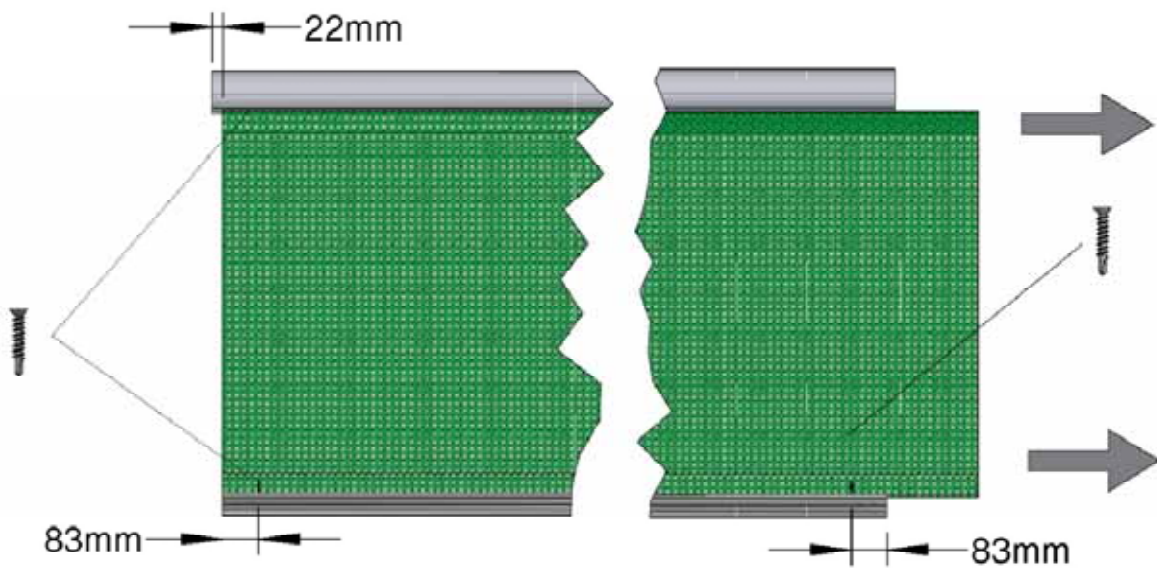


Figure 6b, Constrain nylon insert

At the other end of the panel, tension the fabric panel to remove any creases and secure with the 25mm self-drilling screw.



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Figure 6c, Panel Assembly

Break the tip of the screw off inside the tube using a hammer and punch

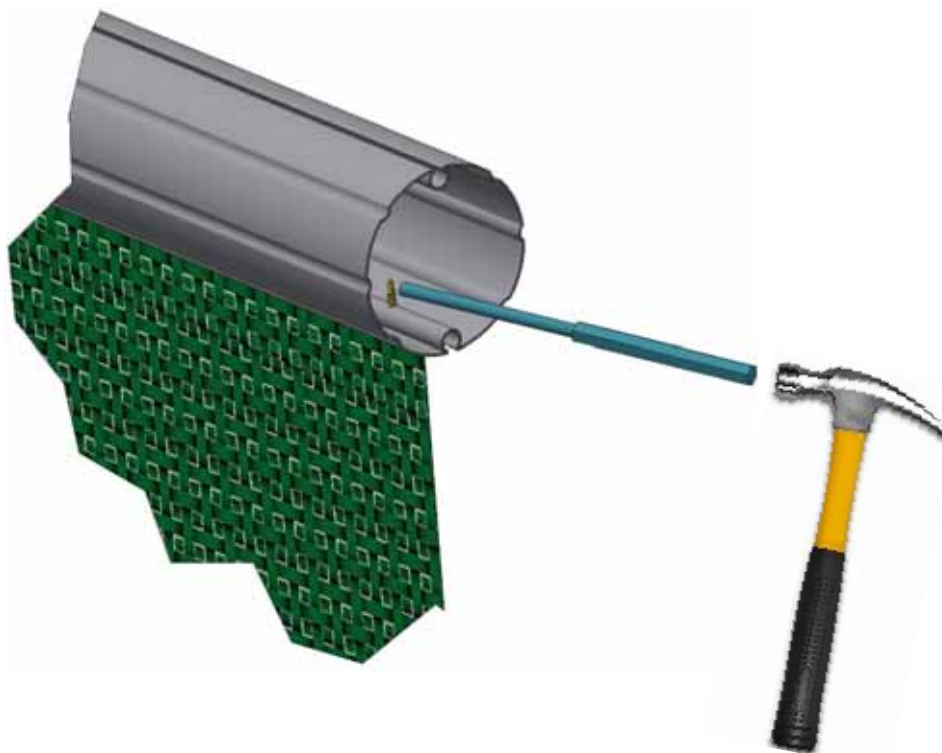


Figure 6d, Break off Screw Tip

Ensure the head of the screw is sunk down into the tension bar to protect the sheet.



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Trim the end of the panel to length and repeat with the next panel.

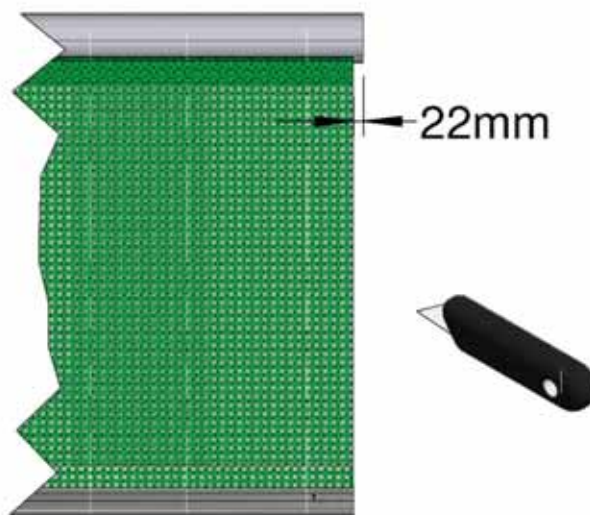


Figure 6e, Panel Trimming

Ensure that the panels go in the correct position as the panels are different heights, refer to Figure 7.

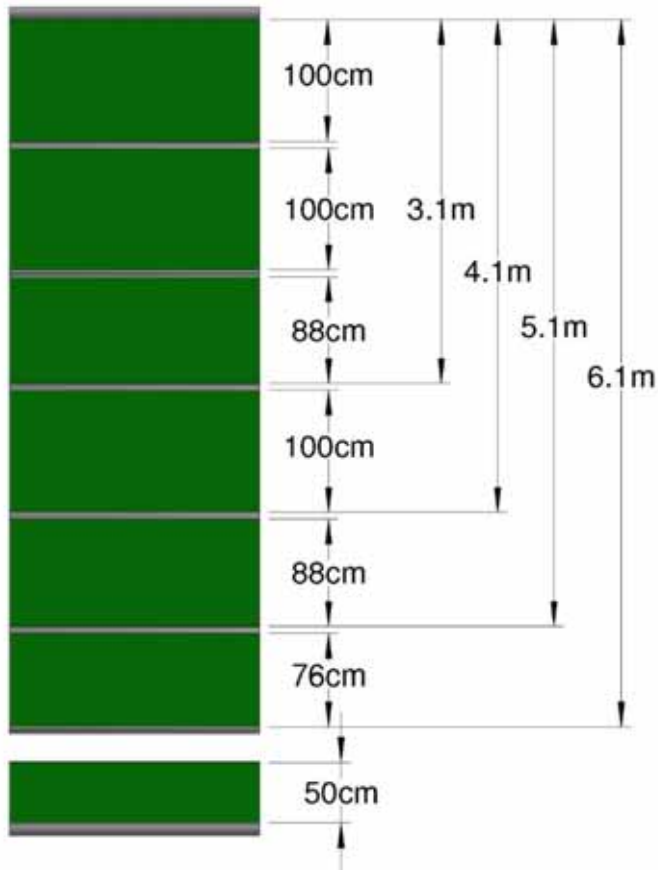


Figure 7, Fabric Panel Layout

6. Press the M6 nyloc nuts into the Wind Lock moulding. Fix the Wind Lock and Wind Lock Plate to the ends of the tension bar and secure with the M6x16mm countersunk screws and nuts.

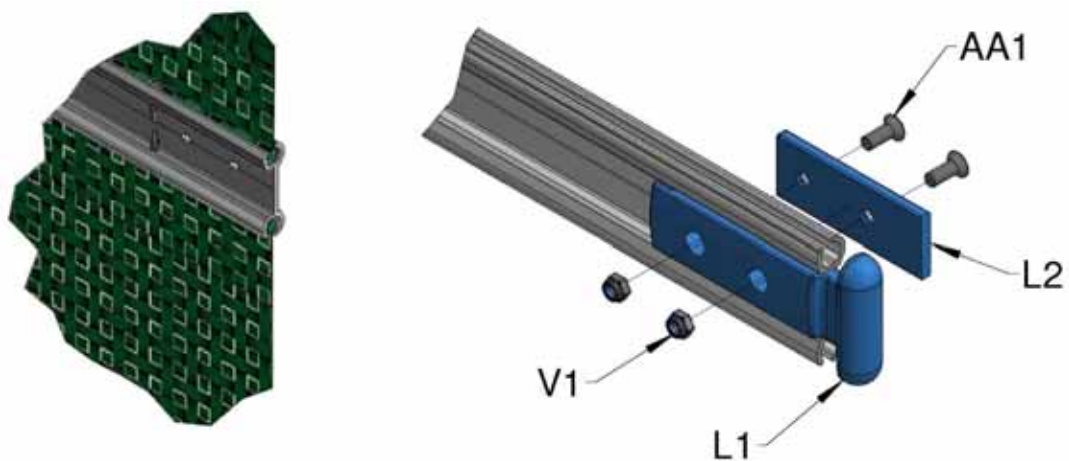


Figure 8, Wind Lock

7. Roll the tension bars and fabric panels onto the top tube. It is important that when the door is hung the fabric should come off the back of the top tube, between the tube and the building face.

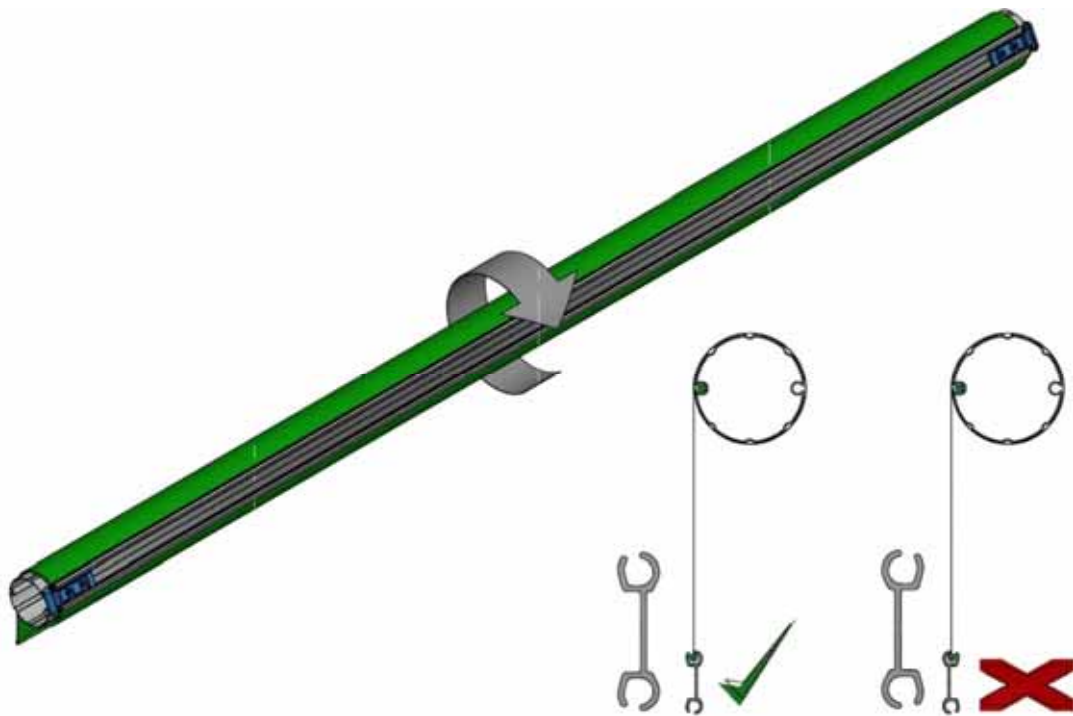
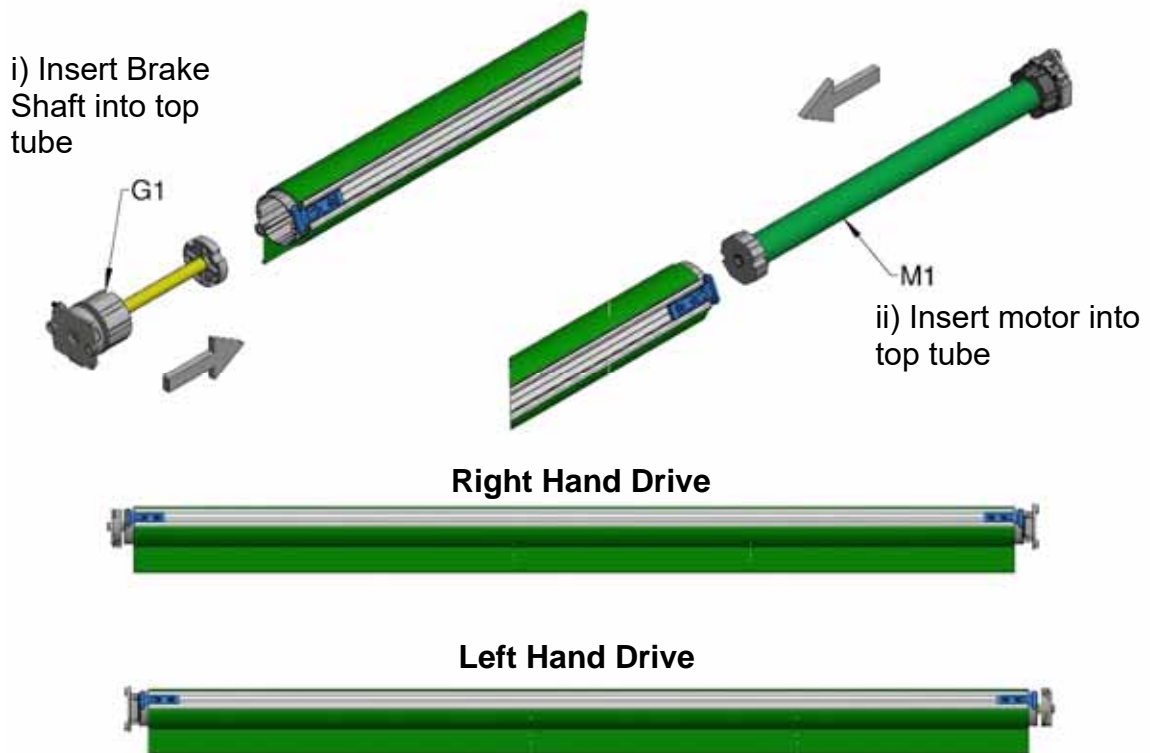


Figure 9, Fabric Attached to Top Tube and Rolled Up

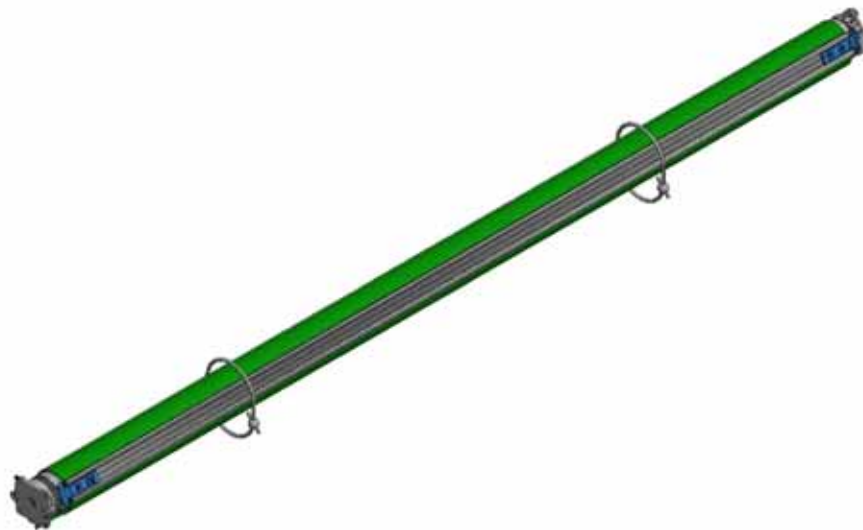
Insert the brake shaft assembly (G1) into the top tube, insert motor (M1) into opposite end. Refer to Figure 10 for right hand drive and left hand drive orientation.



The Figure 10a, Top Tube Assembly

Tie up the roller assembly (Figure 10b) to prevent it unrolling when lifting into place.

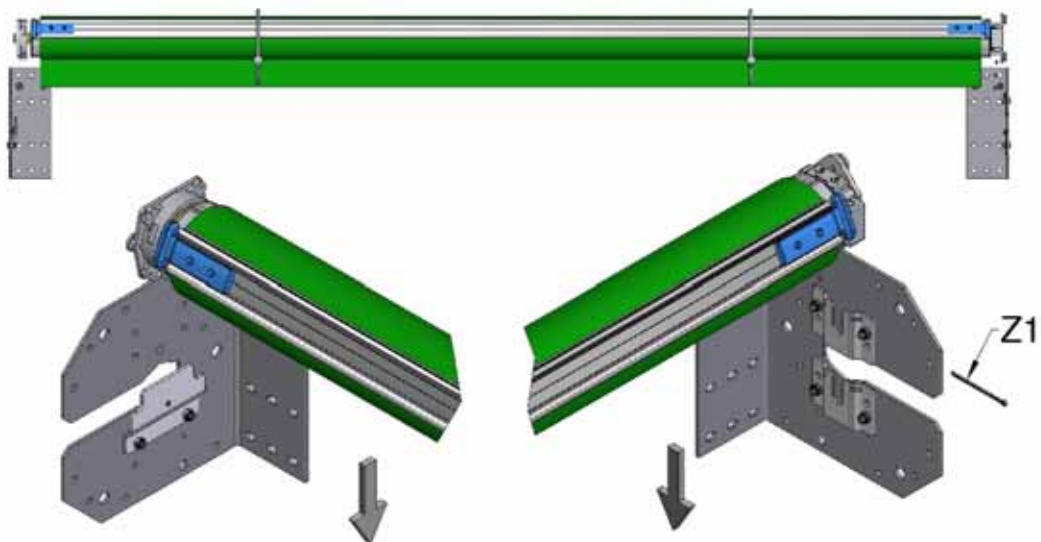
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*The Figure 10b, Tie Up the Assembly*

**Hanging the door**

8. When lifting the roller assembly onto the top brackets, ensure that the pins on the Motor Mount and Brake Mount engage completely into the base of the mounting brackets (Figure 11a).



*Figure 11a, Locating Top Tube in Brackets*

The Brake **MUST** be aligned in the direction shown below with the clamp bolt at the bottom. If it is not then the barrel will not turn.

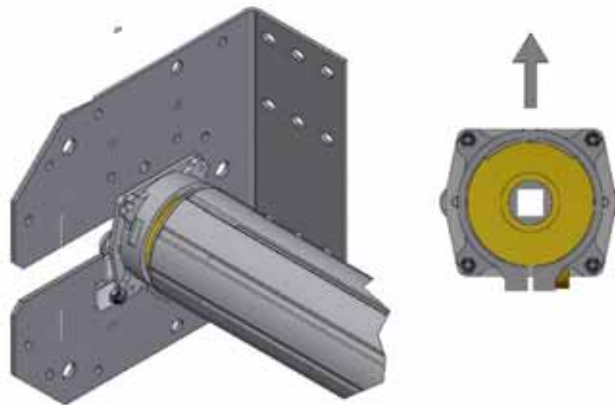



Figure 11b, Brake Arrangement

	<p><b>CAUTION:</b> It is important that the Brake is aligned correctly otherwise the barrel will not turn</p>
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Use the Adjuster Screw to align the brake with the barrel so that there is equal gap top and bottom. Secure with the lock nut.

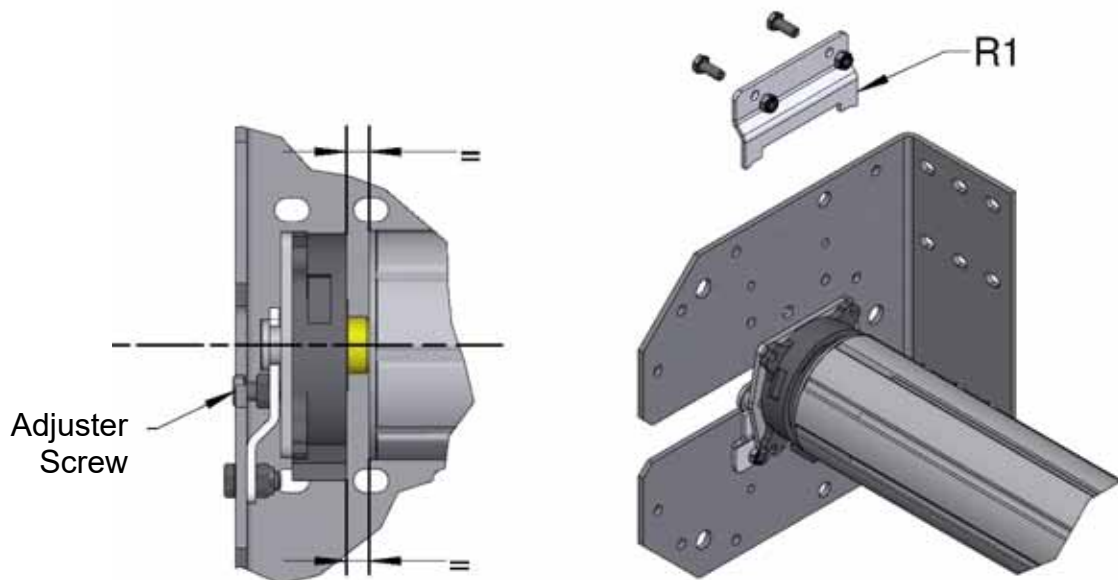



Figure 11c, Brake Alignment

Lock the motor in place with the M4 split pin (Z1) and brake shaft with the Retainer Plate R1 and M8x20 bolts and nuts.

Feed the motor 4-core wire through the cable gland (M2) in the drive bracket (E1) Figure 12. When routing electric wire to motor ensure there is a 'Drip-loop', i.e. a loop in the cable such that any water running along the cable does not make its way to the motor or any controller. Make sure the cable is kept tight against the Top Bracket to prevent any contact with the tension bar anchors.

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	<p><b>ATTENTION:</b> For maximum protection of the circuit board inside the control box, we advise this is mounted inside the building away from direct rainfall. If outside operation is required use the secondary switch for this location</p>
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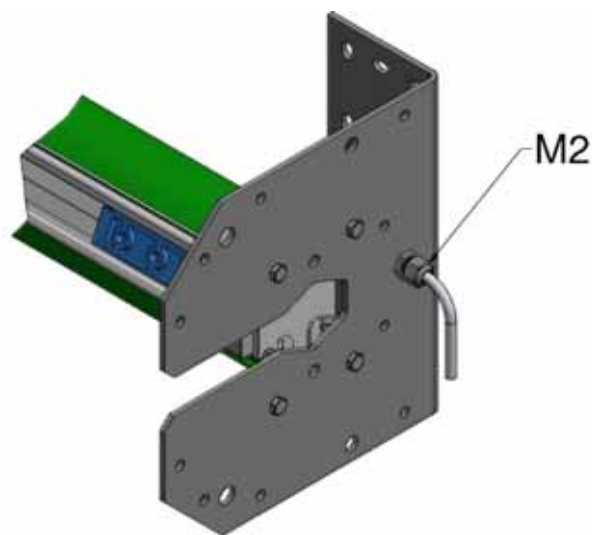


Figure 12, Routing of Motor Wire

**Fitting the Tracking**

9. Equally cut the aluminium tracks (I1) to fill the gap between the underside of the top brackets and the ground. Remove all sharp edges for the end of the tracks. Fit the pair of funnels P1 and P2 into the top of the tracks and secure with the M5x19 self drill screw in the front face, Figure 13a.

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i) Measure distance from floor to underside of bracket

ii) Cut tracking to length

iii) Fit funnel to top of guide rail and secure

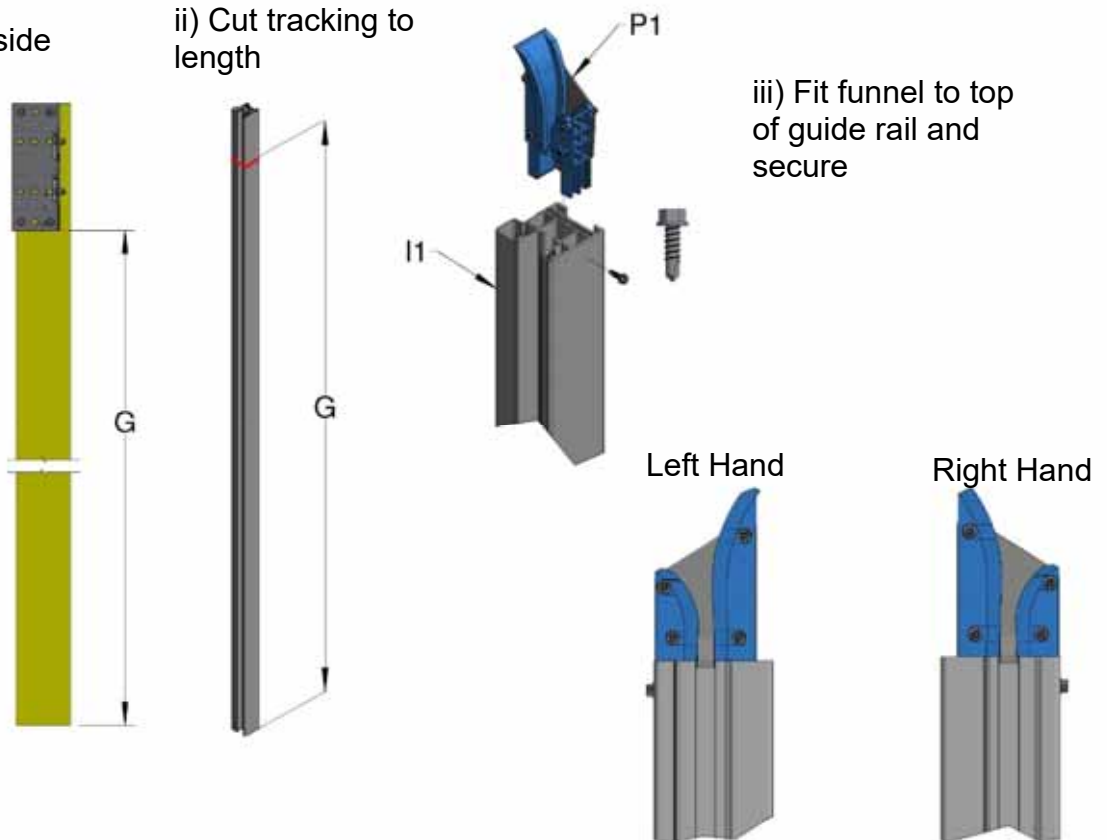


Figure 13a, Tracking and Funnel Assembly

Slide the Track Slide Insert H1 into the Tracking pushing it fully up to the funnel and trim to length, secure in place with the M4x16 self drill screw at the bottom end

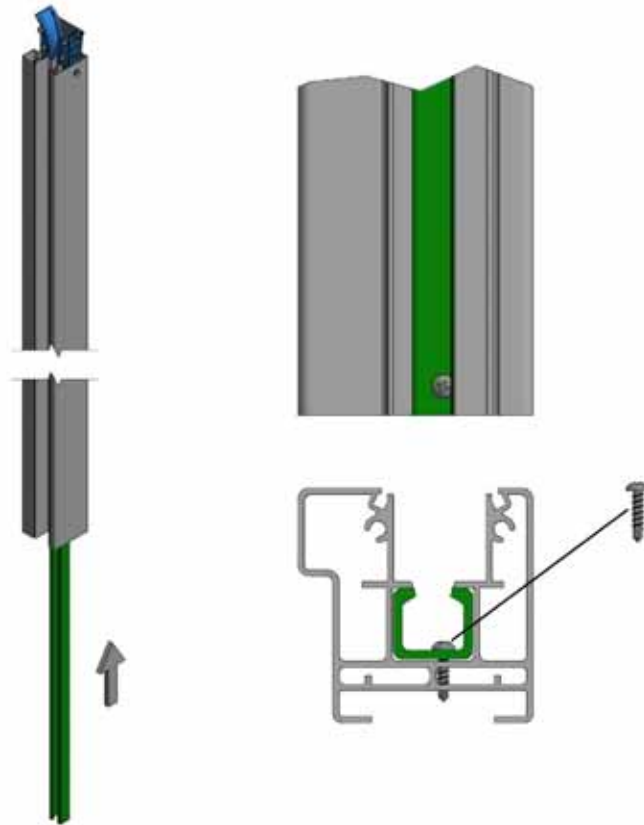

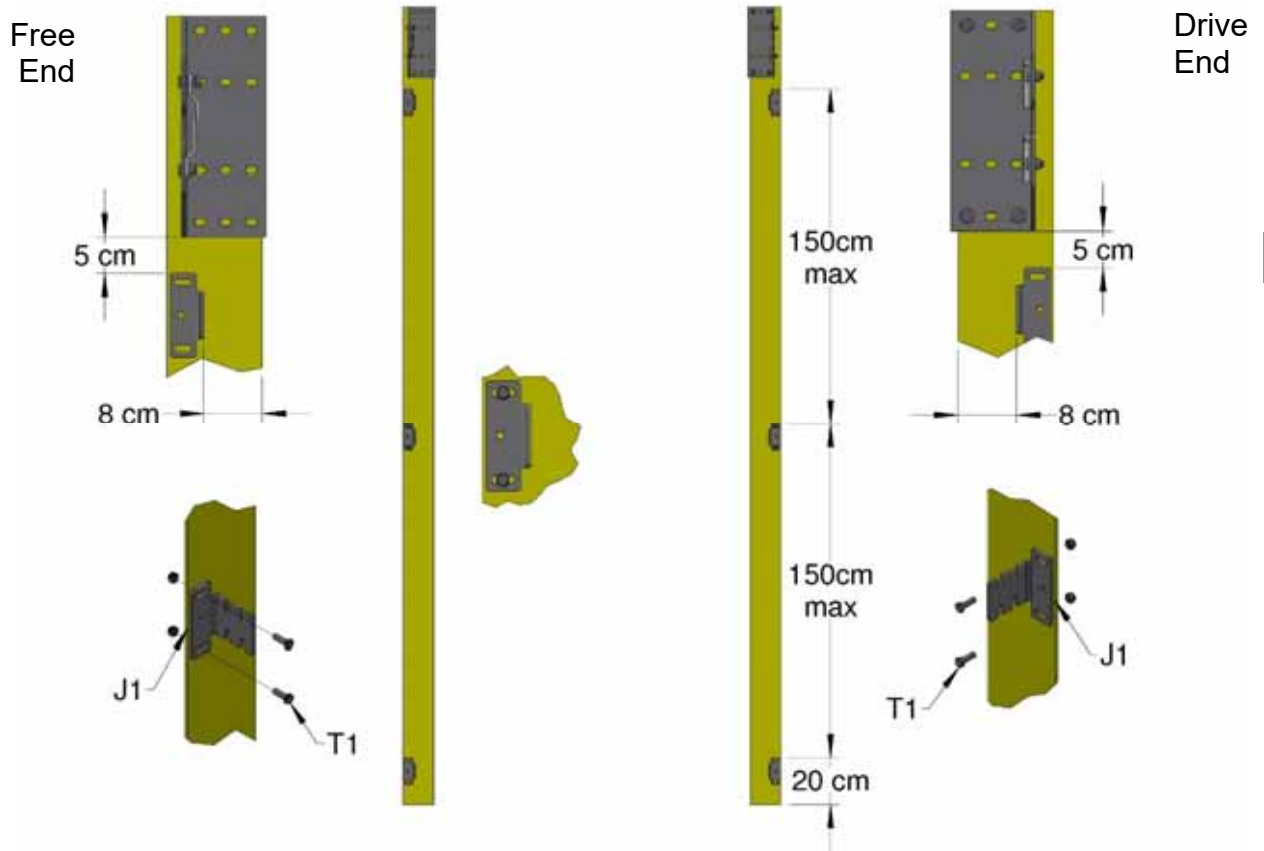


Figure 13b, Tracking and Funnel Assembly

10. Fit the upper and lower Track Mount Brackets J1 to the building as shown in Figure 14 using the M8x30mm Bolts and Nuts. Position the mounting holes at the centre of the slots in the brackets.  
Fit the intermediate brackets at a maximum of 150cm apart. All brackets must be vertically aligned with each other.

	<p><b>CAUTION:</b> Use only M8 bolts or greater to fit these items and ensure they are securely fastened to the building.</p>
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Figure 14, Track Mounting Brackets

(If fitting adjacent doors it may be necessary to stagger the brackets vertically.)

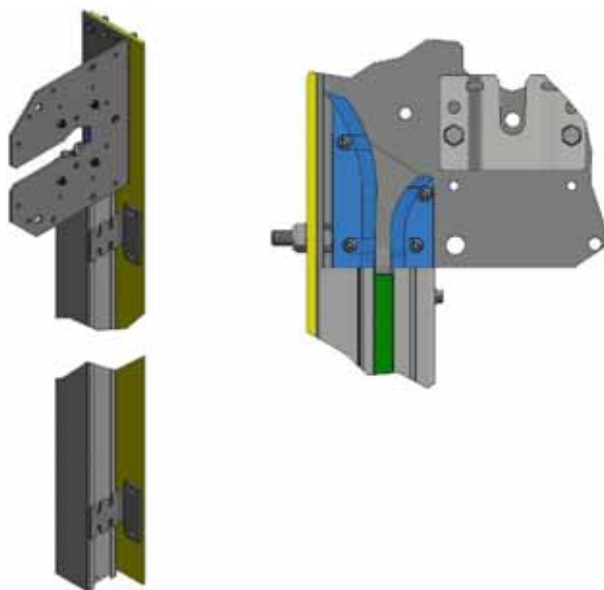


Figure 15a, Track Mounting

Lift the Track and Funnel Assembly against the track brackets so that the top of the track is against the bottom edge of the Top Bracket.

Assemble the Track Clamp Plate J2 with the M8x16 flanged bolts R2. Insert the Clamp plate into the Aluminium Tracking, turn the plate and engage with the Track Mount Bracket. Repeat for all Mount Brackets and tighten the bolts.

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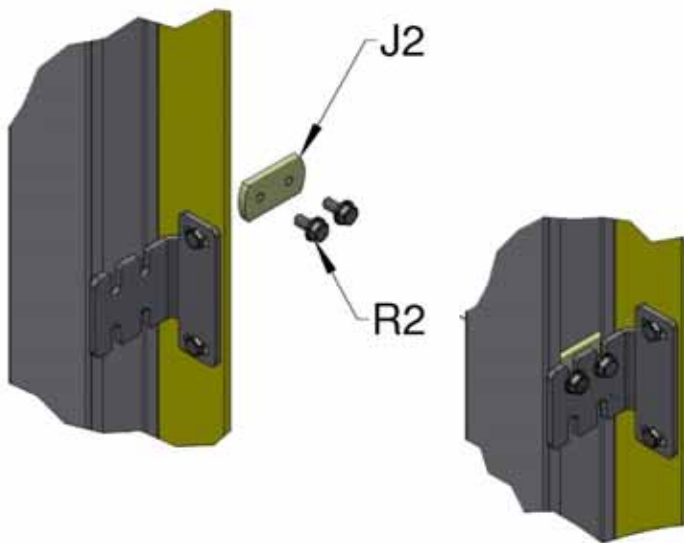


Figure 15b, Track Fixing

11. Secure the control box, secondary switch, and wires to the building (N1). Ensure all wires exiting from the drive bracket (E1) and motor switches (N1) 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. Connect the motor wires to the AD10 followed by the power lead (see AD10 Instructions section 5.2 and 5.3). Check the motor direction using the AD10 lid buttons and correct if necessary using DIP 1 switches 7 & 8.

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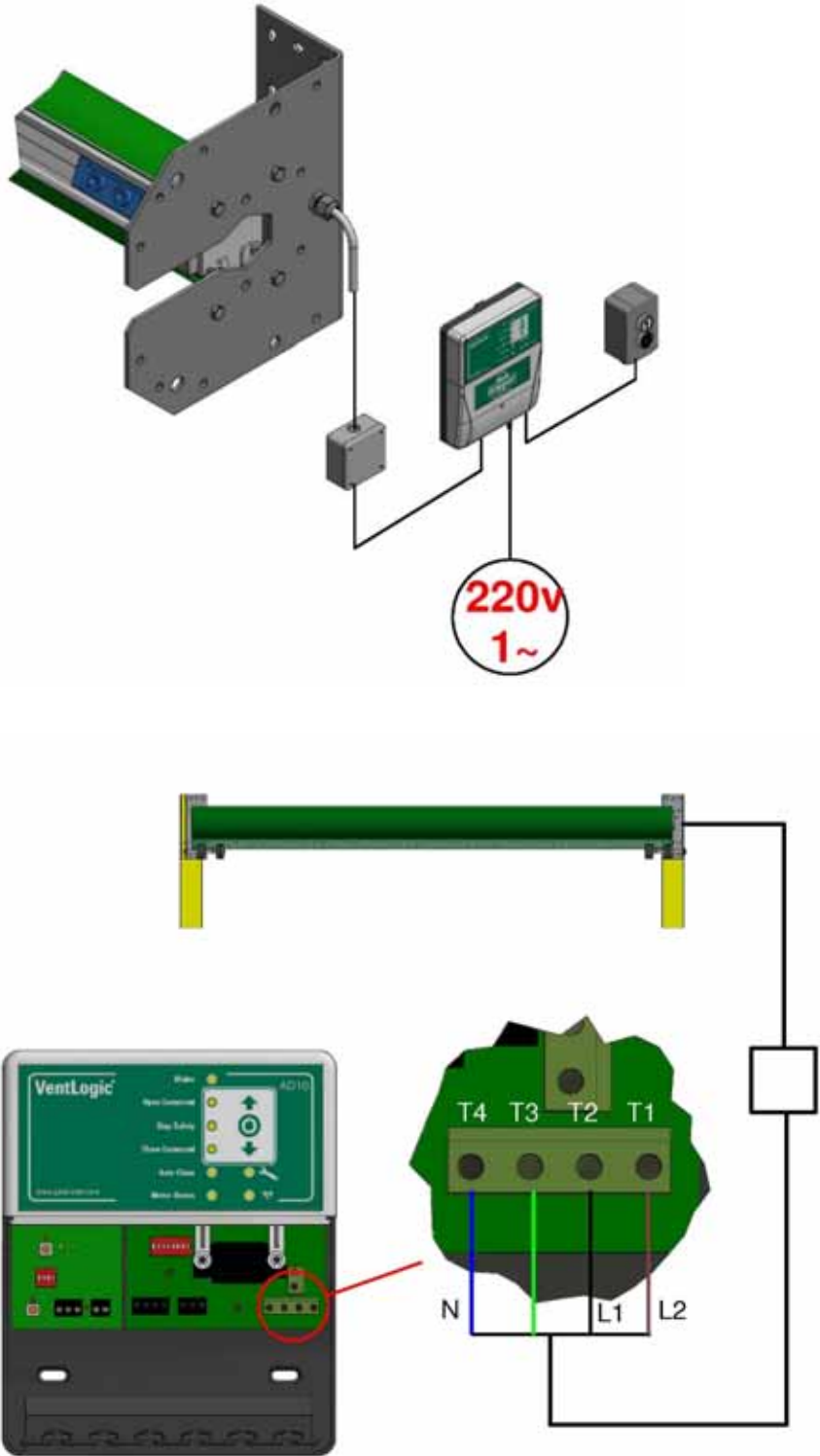


Figure 16, Control Box Wiring

- Select the commissioning mode (see AD10 Instructions Section 5.6) and using the switches on the control box, lower the door and ensure the wind locks engage in the tracks each side. The tension bar may need to be adjusted sideways to align with the track initially.



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Figure 17, Door Alignment

As the door is lowering the mechanical limits will require adjusting by turning the screws on the head of the motor with the hand tool supplied with the motor.

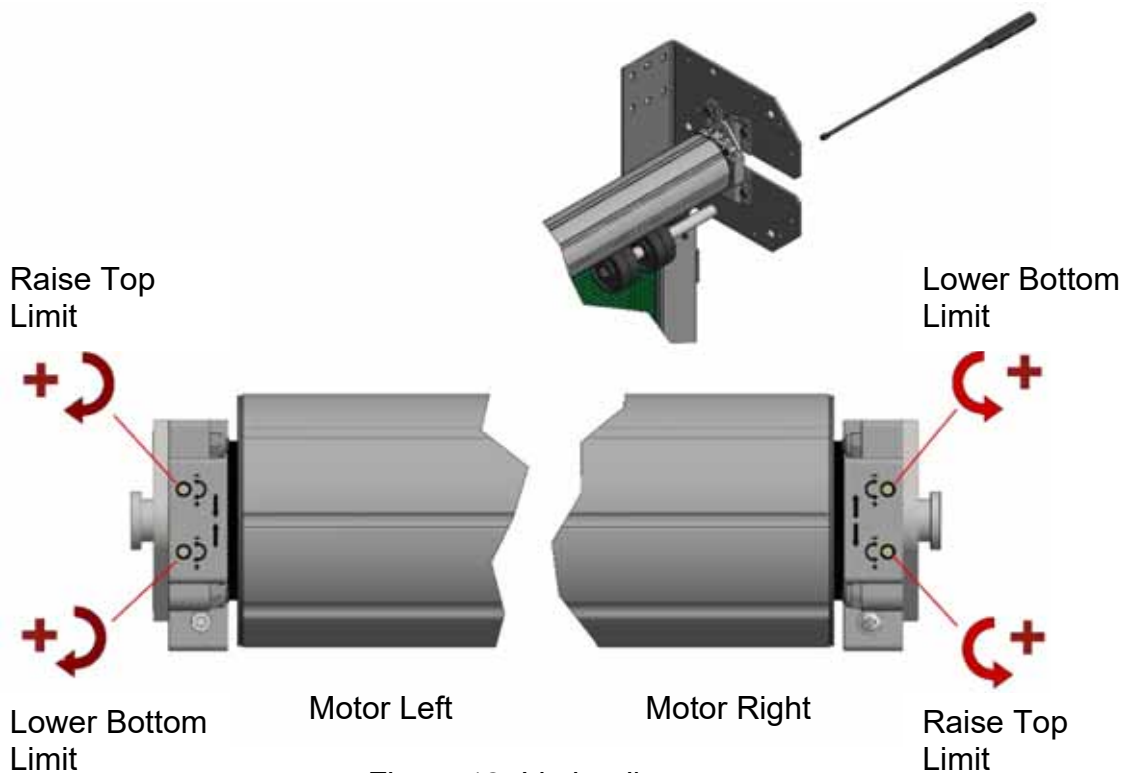


Figure 18, Limit adjustment

Raise the door, the fabric and tension bars will now stack tightly around the top tube.

**Installing the Bottom Tube and Flap**

13. Cutting bottom tube and flap (Figure 19):



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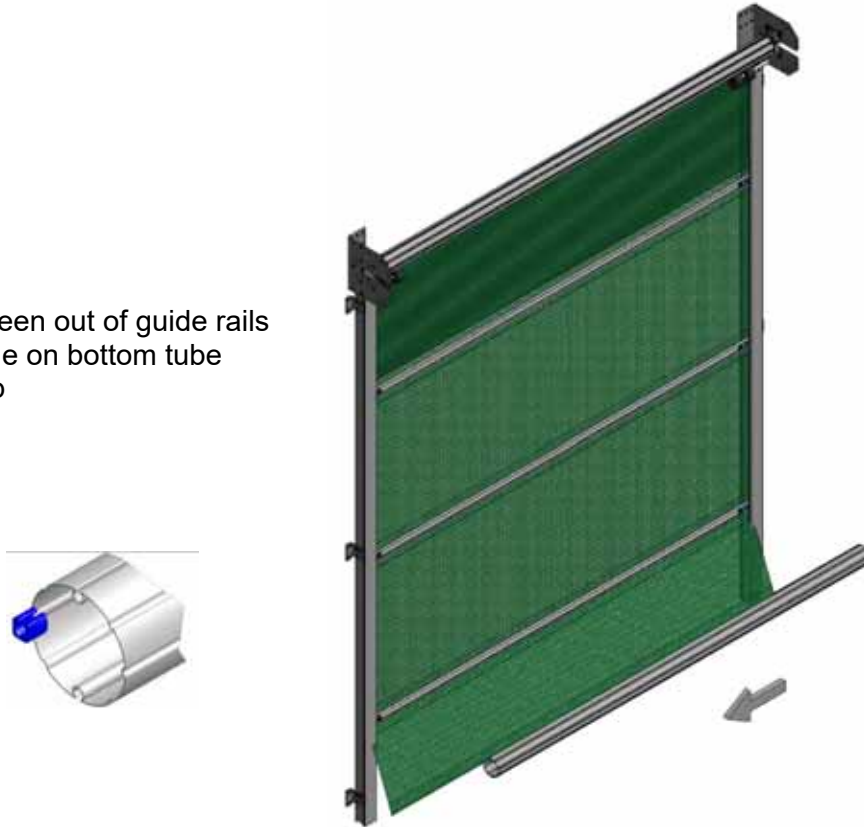
*Figure 19, Cutting Length of Bottom Tube and Bottom Flap*

- Bottom Tube = Gap between inside face of Guide Rails -15mm
- Aluminium Carrier = Gap between inside face of Guide Rails -75mm \*
- Bottom Flap = Gap between inside face of Guide Rails +50mm

**\* NOTE: If your door is supplied with an Optical Edge Safety Kit, refer to instructions in Appendix I for details.**

14. Lower the door and push the Flute Guide Insert over the end of the flute in the bottom tube to protect the fabric sheet as it is being fitted. Pull the bottom fabric panel outside the tracks and slide on the bottom tube (Figure 20).

Pull screen out of guide rails and slide on bottom tube and flap



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*Figure 20, Attaching Bottom Tube*

15. Insert two M4x25 self drill screws into the bottom tube in the positions shown in Figure 21.  
Slide two Tube Weights (Q1) into each end of the bottom tube and push up to the screw position.

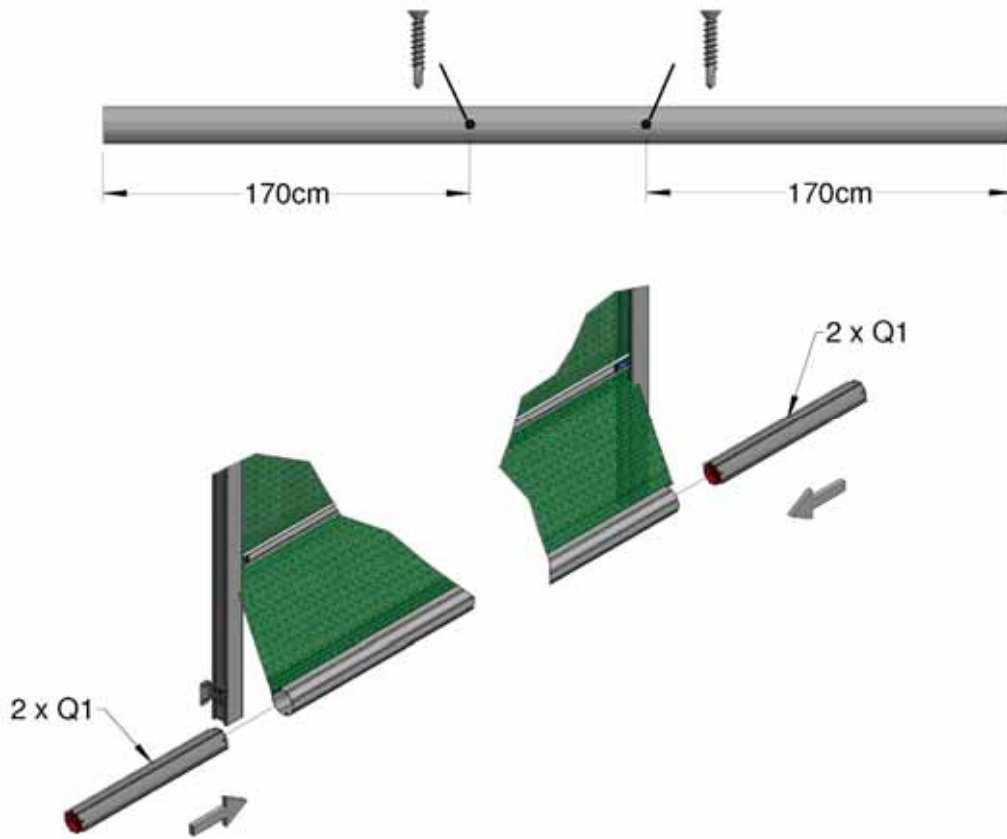


Figure 21, Bottom Tube Weights

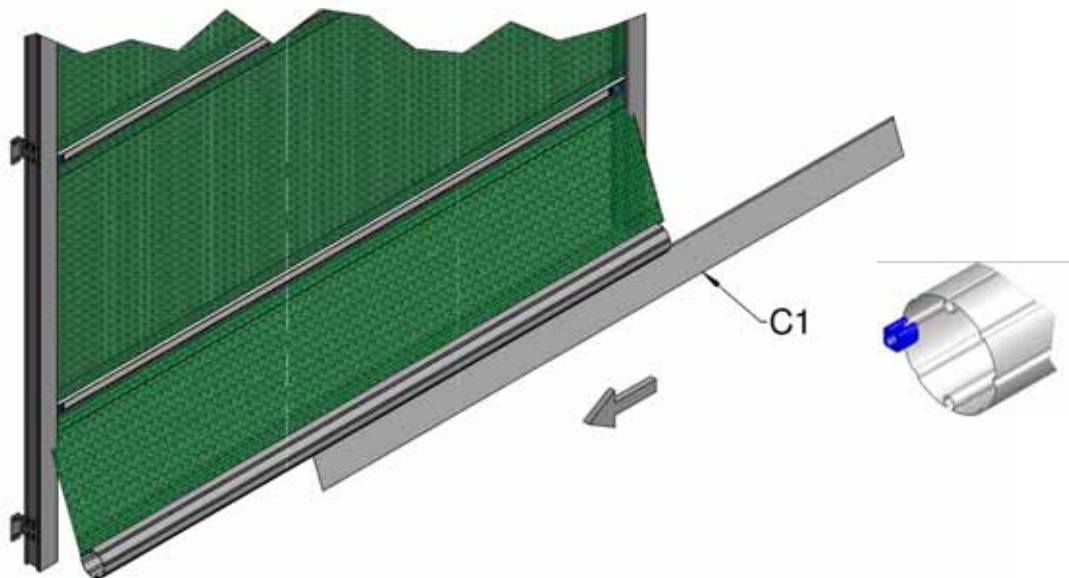
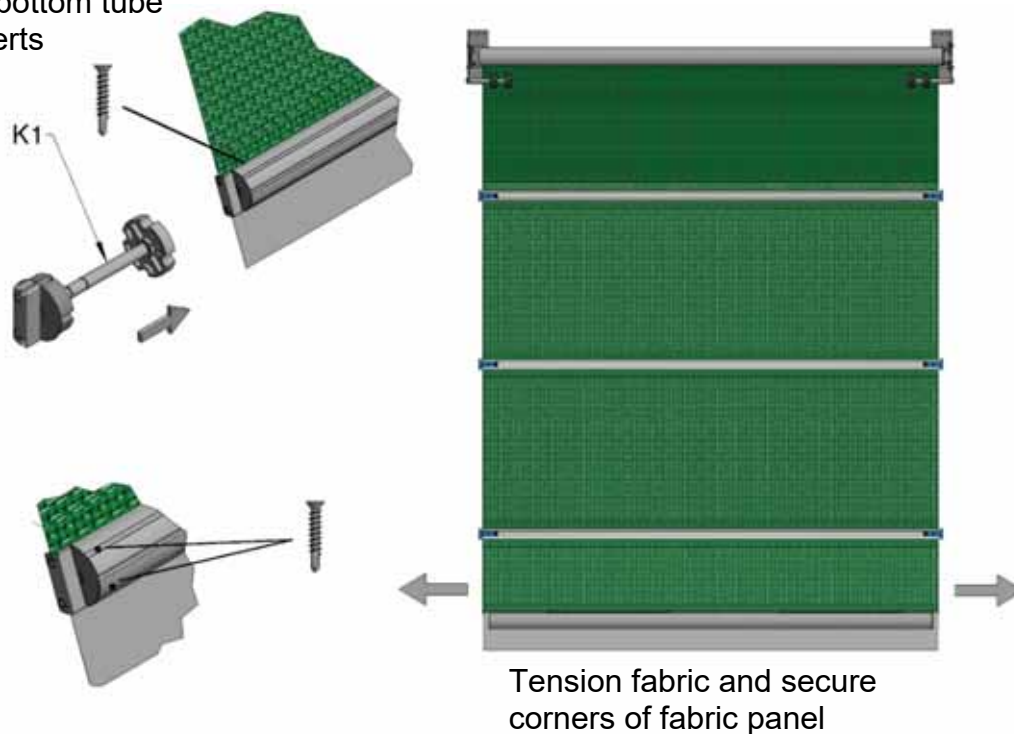


Figure 22, Bottom Flap

Slide nylon insert into the pocket of the flap (C1) and slide flap onto the bottom flute, Figure 22

16. Insert the Bottom Tube Inserts (K1) into each end of the tube. and with the self-drilling screws (AB1). Secure the fabric panel and flap to the bottom tube It is important to tension sheet sideways before fixing to remove creases (Figure 23).

Fit bottom tube inserts



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Figure 23, Centralising Screen

17. Raise and lower the door and adjust the track mounting brackets if required to ensure the door travels smoothly

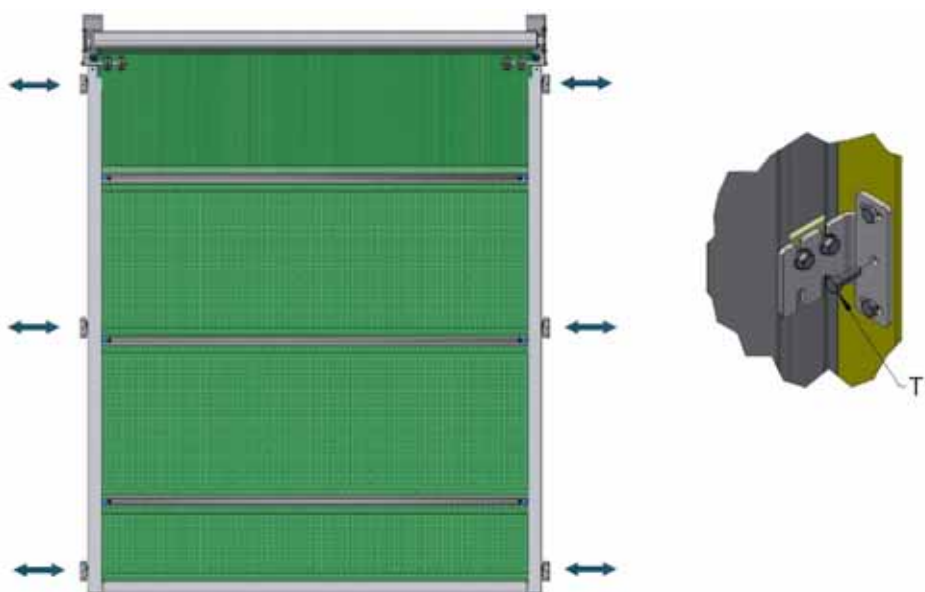


Figure 24, Secure Track Brackets

Secure the brackets using a M8 fixing T1 in the central hole

**Electrical Commissioning** - see AD10 Instructions section 5.6 and 5.7

18. Setting the Limits. The duty cycle of the motor is 4 minutes per hour, therefore it is important that operation of the motor is kept to a minimum during the setting process. If overused a thermal trip will stop the motor to prevent damage. Should this occur leave the motor for a minimum of 15 minutes to cool down & reset itself.

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Setting the limits should be carried out with the Control Box still in commissioning mode.

Top Limit: Fully open the door until the bottom tube is positioned just below the guide rollers. Set the Top limit at this position (Figure 25).

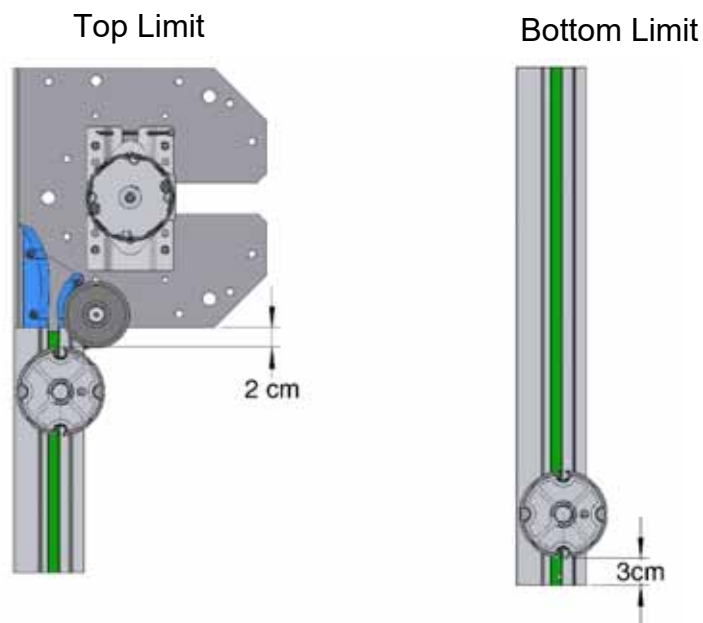


Figure 25, Setting Limits

Bottom Limit: Lower the door to approximately 3cm from the ground and set the limit at this position.

Setting limit positions are now complete. Drive the door through one complete opening and closing cycle to check the limit positions are correct.

**Electrical Controls**

- 19. Install the external switch on the outside of the building with the gland facing down and connect into the control unit (see AD10 Instructions section 5.2). Check that the UP and DOWN push buttons operate the door in the correct direction. If not swap wires 2 and 3 in the control box.

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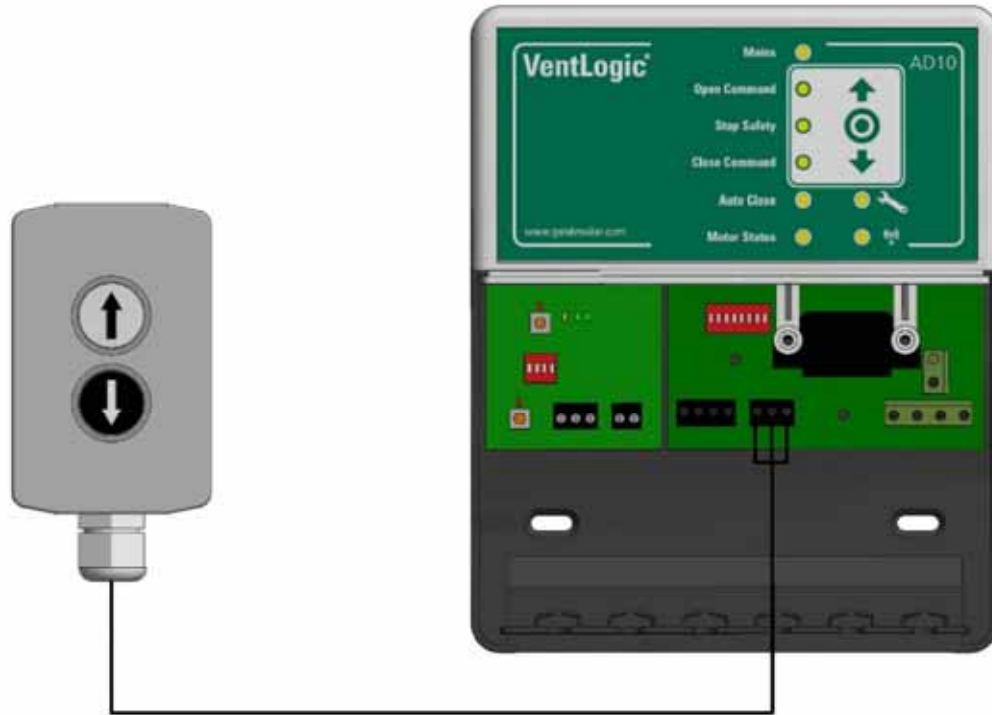
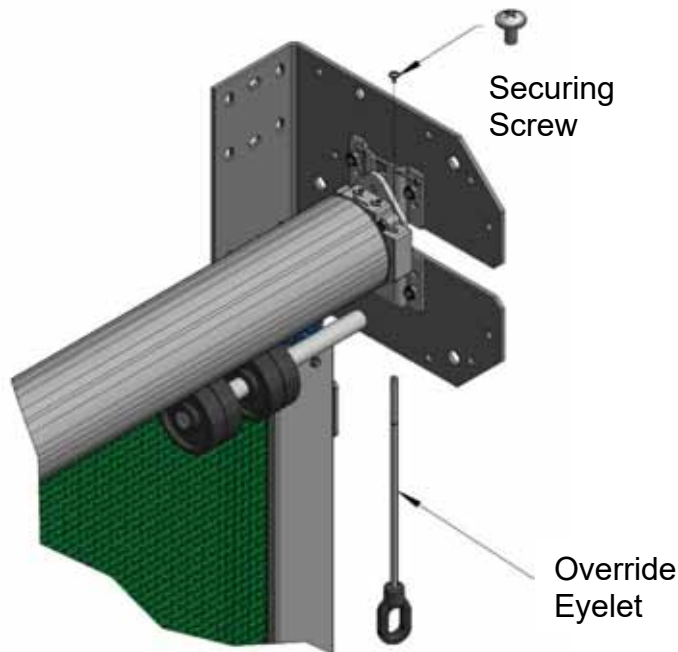


Figure 26, External Switch

 **CAUTION:** For safety, position the switch in sight of the door

**Manual Override**

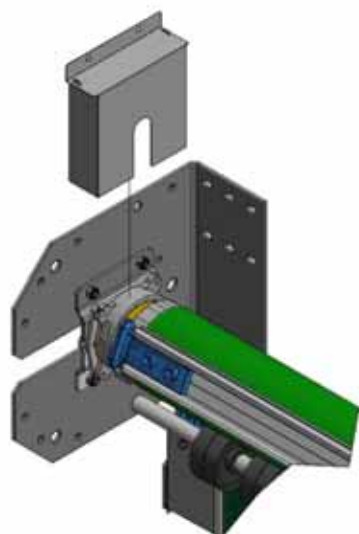
20. Push the manual override eyelet into the motor gearbox and secure from above with the retaining screw supplied with the motor, Figure 27.



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*Figure 27, Manual Override Eyelet*

Install the Brake Cover over the brake and attached to the side plate with the M6x12mm screws and Nyloc nuts

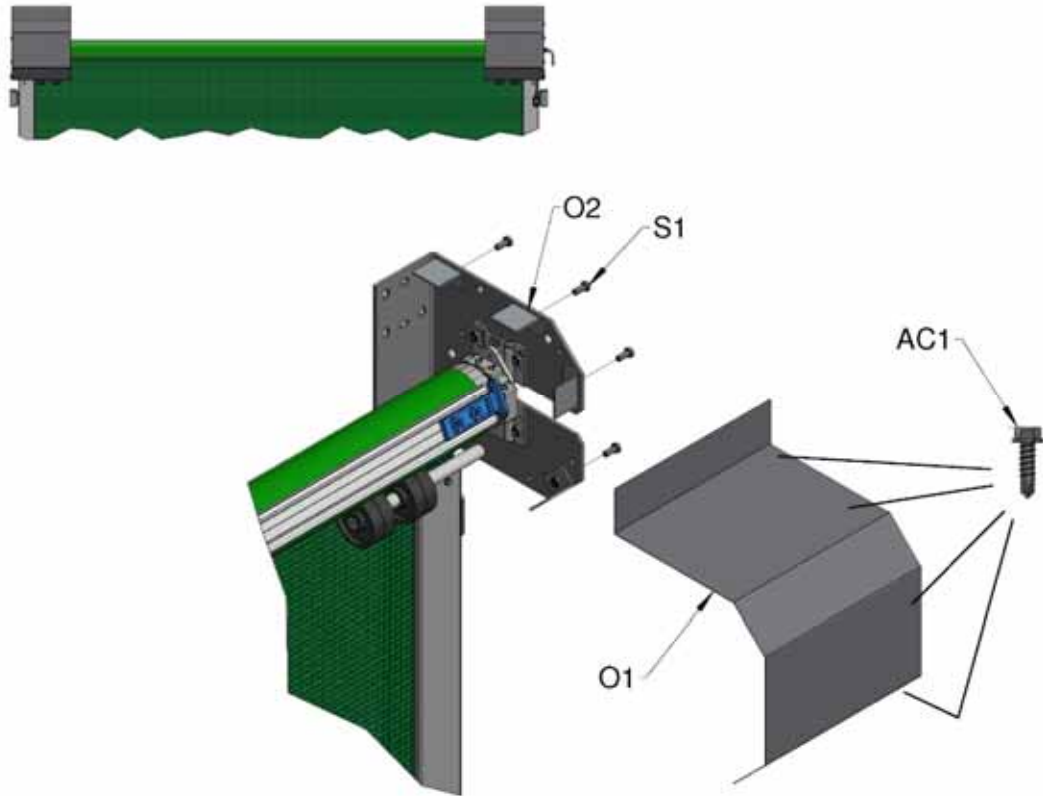


*Figure 28, Brake Cover Assembly*

***Installing Motor Cowling (Standard) or Door Cowling (Optional)***

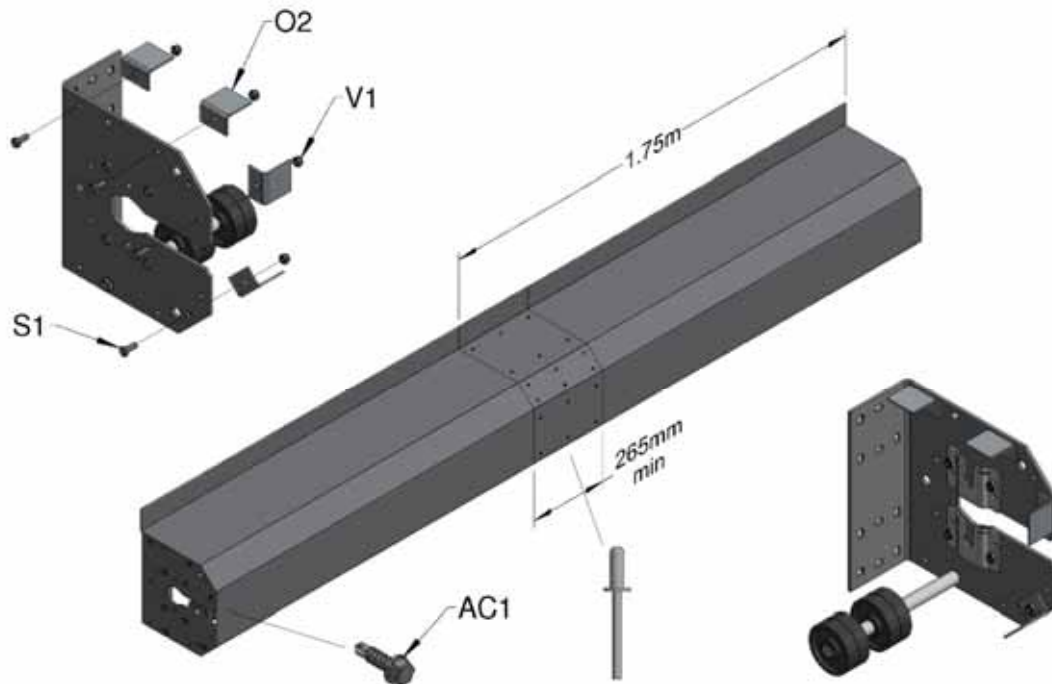
21. Fit cowling support brackets (O2) to motor bracket using the M8 x 20 bolts (S1), Figure 29. Fit 300mm cowling (O1) to cowling brackets with the M5.5 x 19 self-drilling screws supplied (AC1).

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*Figure 29, Motor Cowling Assembly*

21 Full Door Cowling (Optional)



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REF:	QTY	PART DESCRIPTION
CA1	*	1.75M Lengths of Cowling
CC1	*	M4.8 x 8 St Steel Rivets / per join
CF1	1	5mm Drill for rivets (not shown)

Figure 30, Door Cowling Assembly

- C1. Fit cowling brackets (O2) to the top brackets using the fixings (S1).
- C2. Join cowling with a minimum overlap of 265mm (Figure 30). Secure with 30 no. rivets, 6 in each of the five faces. Offer cowling to brackets and secure with M5.5 x 19 self-drilling screws supplied. Fix rear upstand to building, sealing to prevent water ingress if necessary.

**NOTE: The Cowling is self-supporting and does not require intermediate brackets.**

22. 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 2006/42/EC.** To do this you will require the following which should be delivered with the product:

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- 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. 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 /     AD-PBT             W    X    H

[W] Product Width (m)

[H] Product Height (m)

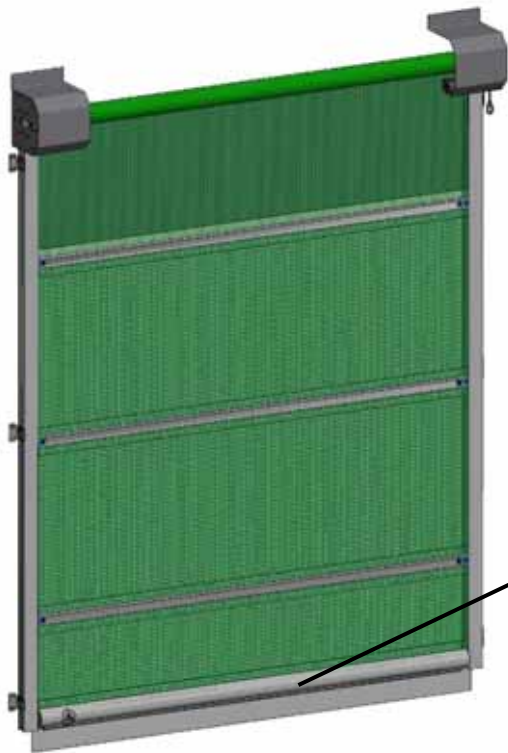
- d) Your customer must be given a copy of the completed 'Maintenance Log Book' along with the 'Installation Instructions' supplied by Galebreaker. These should be stored adjacent to the door controls for reference purposes.
- e) Finally, ask your customer to sign the 'Declaration of Conformity' (Installer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

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**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.



The tube must be clean and dry before applying the label

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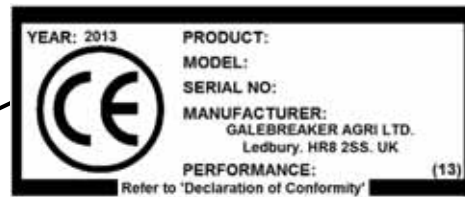


Figure 31, CE Label Location

**YOUR DOOR IS READY FOR USE**

## OPERATION AND MAINTENANCE

### *How to use your door*

Press the 'Open' or 'Close' button on either the AD10 controller or the external switch to raise or lower the door. The door can be set to open and close in hold-to-run mode or in self-hold mode with the optical safety edge fitted (see instructions for controller).

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**ATTENTION:** It is vital that the door is either fully open or closed when the wind speed is above 32kph

If the door needs to be closed when the wind speed is above 32kph it is advisable to ensure the tension bars engage in the tracking as the door lowers. If they do not engage, stop the door, raise it slightly and wait for the wind speed to decrease before lowering it again.



**ATTENTION:** The door has built-in obstacle recognition and is not damaged by stalling under power

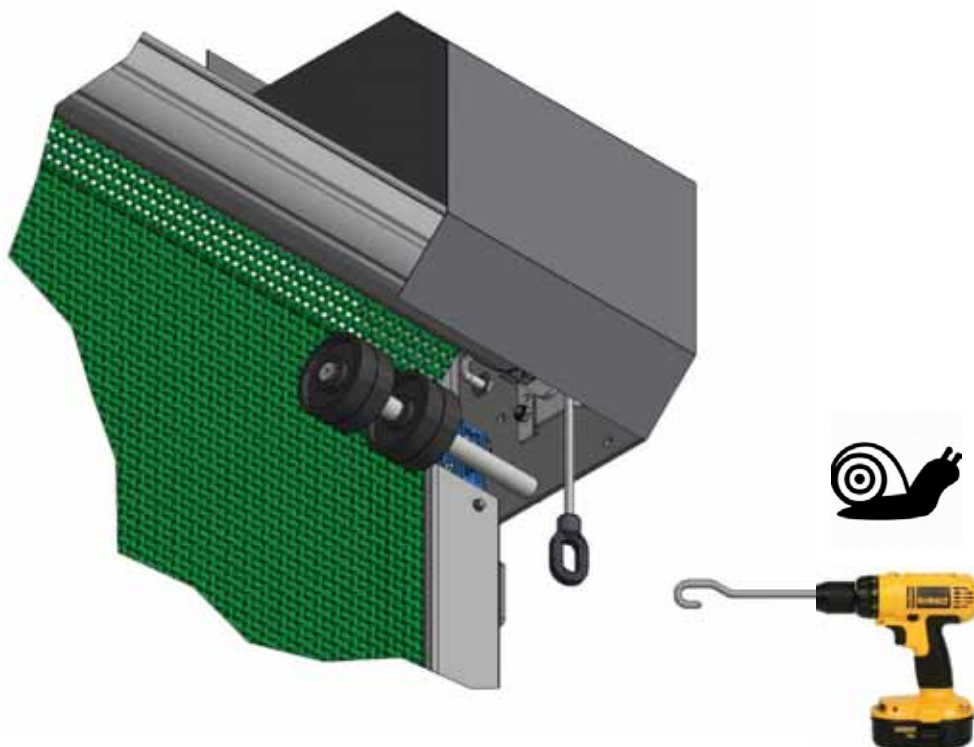
### *Door Duty Cycle*

The maximum frequency of door operation is once every 30 minutes. One operation is classed as an open & close cycle. If the frequency is more than once every 30 minutes then the motor could overheat, and to protect itself from damage the motor will automatically stop. Should this occur leave the door for a minimum of 15 minutes to cool down & reset itself.

### Manual Override

To gain access during power supply failure, insert the manual override hook AE1 into a power drill, engage the hook in the override eyelet and using the **slow** speed lower the door to disengage the locking catches before opening the door.

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### Important Safety Information

- This door must only be operated by users familiar with its operation.
- When operating the door do not place fingers near the guide rails or other moving parts at any time.
- The person operating the door must have the door in sight at all times during its operation.
- 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.

### How to maintain your door

- Check annually for corrosion of the supporting bolts fixing the product to the building, the bolt holding the shaft into the top brackets and the blind in general. Replace suspect items to ensure it is safe for operators and bystanders alike.
- Check annually the electrical cables for damage. Use a qualified electrician for any repair.
- The motor and controls are maintenance free items. Should the fuse inside the contactor box (N1) require replacement, turn off the power before removing the lid.
- Should Screen material be damaged, repair with special repair kit (code SPS-99) available from your Galebreaker dealer, importer or head office.

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### How to dismantle your door

Follow the installation instructions in reverse order.

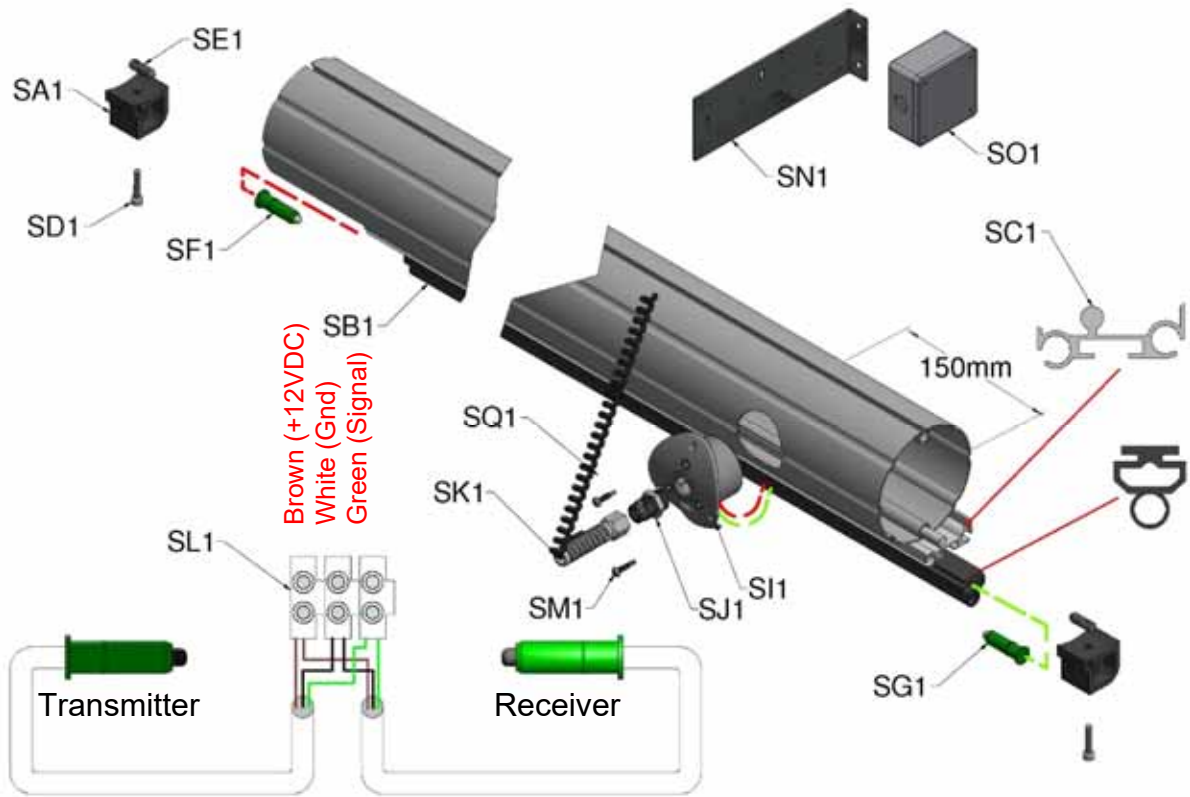
**NOTE: This product has been tested to European Standard EN 12424. Tried and tested in the harshest weather conditions, a summary of our guarantee is listed below, see our website for full details:**

- **Mechanical components: 100% guarantee for two years, followed by an eight year graduated guarantee.**
- **Electrical components: 100% guarantee for three years.**
- **Remote Control Handset: 100% guarantee for one year.**

#### **RAIN INGRESS:**

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

**OPTICAL SAFETY EDGE KIT – required for remote control operation**



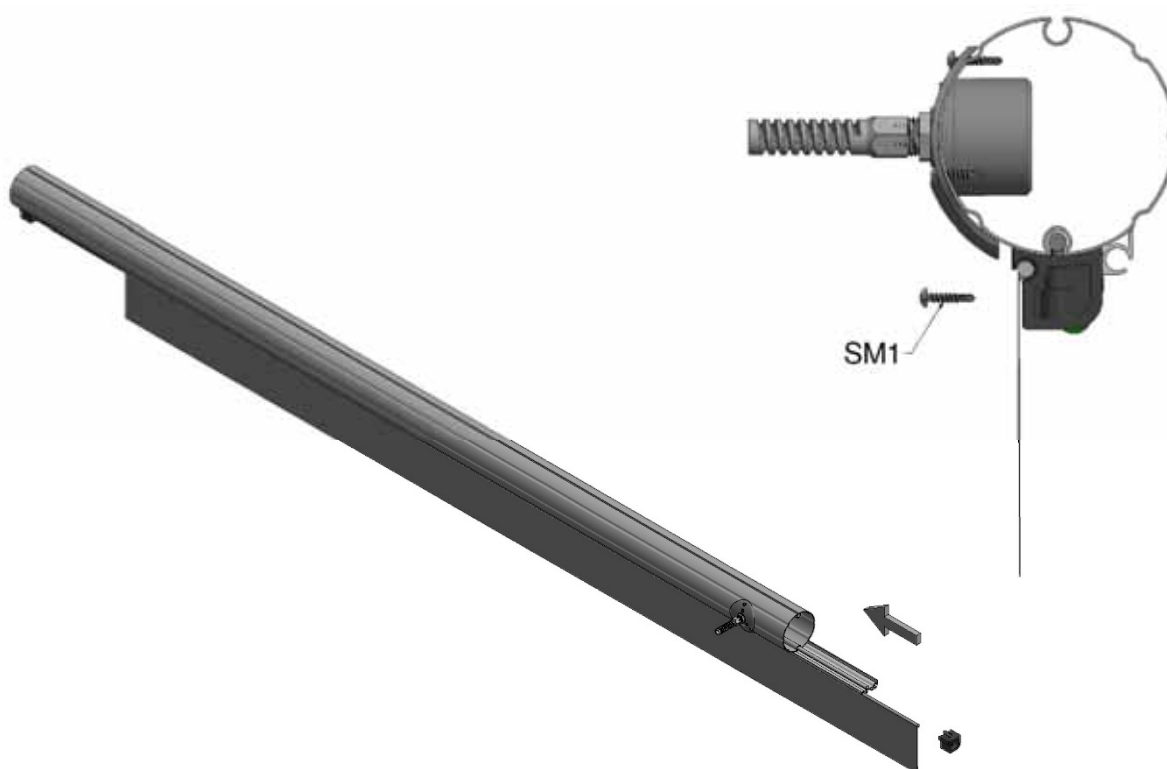
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Figure 32, Optical Safety Edge Arrangement

REFERENCE	QTY	PART DESCRIPTION
SA1	2	Bumper Block
SB1	1	Rubber Profile
SC1	1	Aluminium Profile
SD1	2	M5x40 Cap Screw
SE1	2	Insert Locker
SF1	1	Transmitter
SG1	1	Receiver
SI1	1	Enclosure
SJ1	1	Gland
SK1	1	Strain Relief
SL1	1	Connector Block
SM1	3	M4x19 Self drill screw
SN1	1	Offset Bracket
SO1	1	Junction Box
SQ1	1	Coiled Cable

The optical safety edge is to be assembled as shown in Figure 32. Drill a 50mm hole through the outer face of the bottom tube 150mm from the one end and on the motor side of the door. Cut the aluminium carrier profile (C2) and rubber profile (SB1) to length B-75mm (see Figure 18). Cut the lower flap to length B-15mm.

Slide the rubber profile and lower flap into the aluminium carrier profile and then slide the assembly into the bottom tube, Figure 33.



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Figure 33, Bottom Flap

Cut a slit about 20mm long through the flap and rubber profile into the top cavity directly beneath the 50mm hole to allow the electrical cables to exit. Feed the transmitter (SF1) and receiver (SG1) cables in through the ends of the top cavity of the rubber profile and out through the slit.

Push the transmitter and receiver into the end bungs (SH1) and into the bottom cavity of each end of rubber profile. Fit the M5x40 cap screw (SD1) through the bumper block (SA1) and into the insert locker (SE1). Slide the insert locker into the bottom tube so that the bumper block is flush with the end of the tube and tighten.

Push the inserts (K1) into the tube, and fix using the M4 x 25mm self-drilling screws (Z1) supplied, secure flap with same self-drilling screws, see Figure 23.

Wire the transmitter and receiver into the connector block (SL1), feed the end of the spiral cable (SQ1) through the strain relief (SK1), gland (SJ1) and enclosure lid (SI1). Connect the matching colours into the connector block, place the connector block into the enclosure body and secure the lid.

Fix the enclosure into the 50mm hole in the bottom tube and secure with the M4x19 self drilling screws.

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The free end of the optical edge flexible cable is to be wired in to a junction box (SO1) fixed to the offset bracket (SN1) attached to the Tracking using M5.5x19 self drill screws (AC1). The height of the offset bracket is to be approximately half the height of the door, as shown in Figure 34.

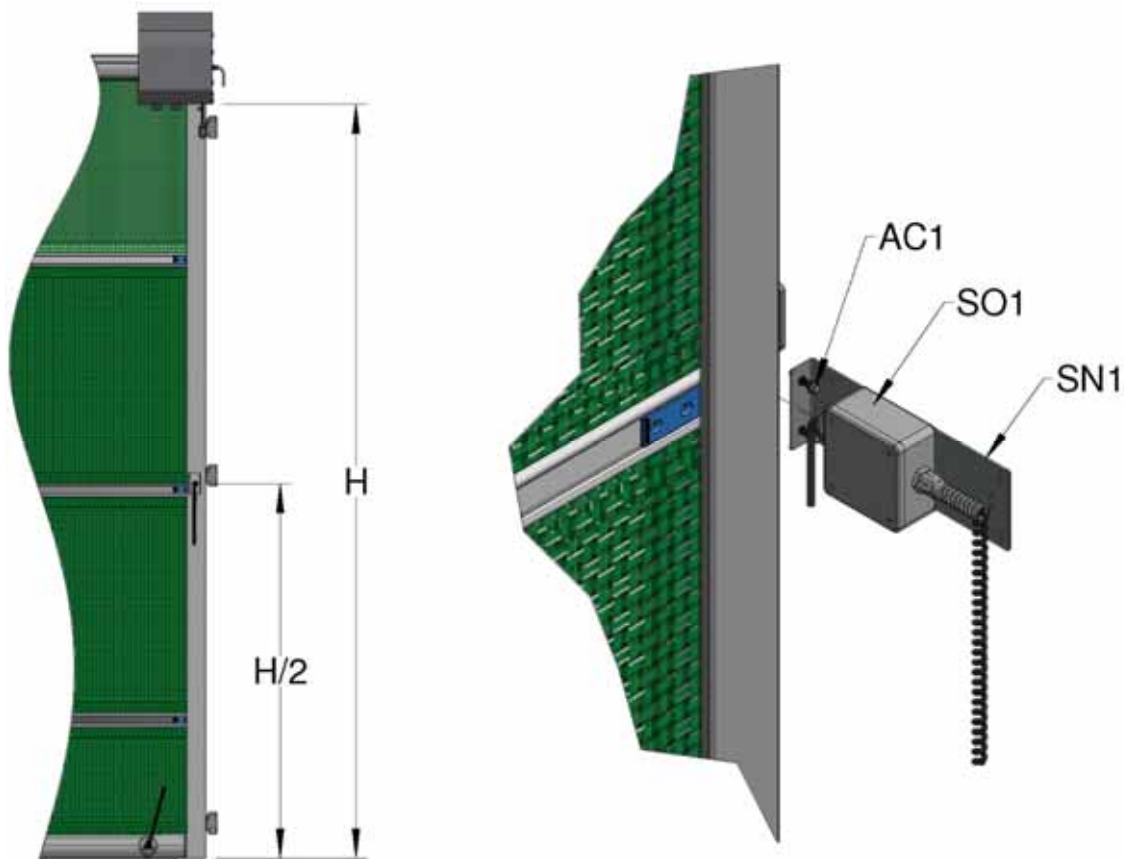


Figure 34, Offset Bracket

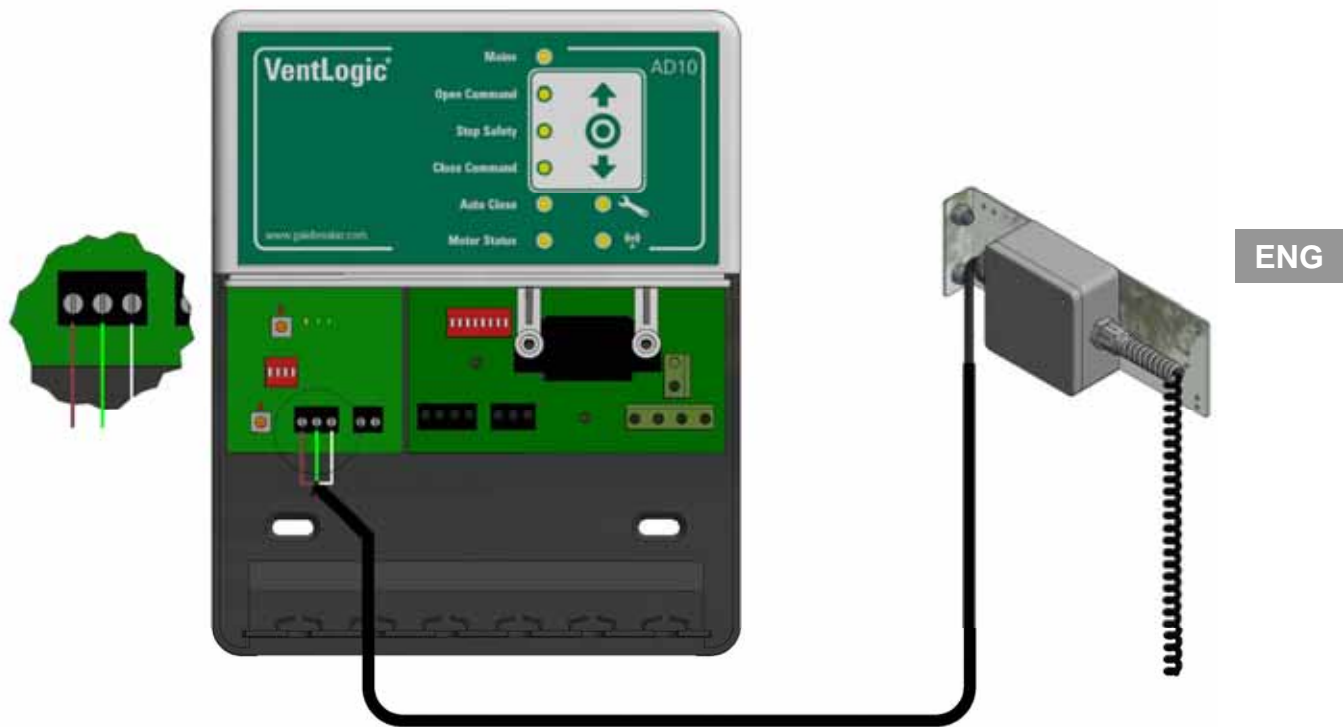
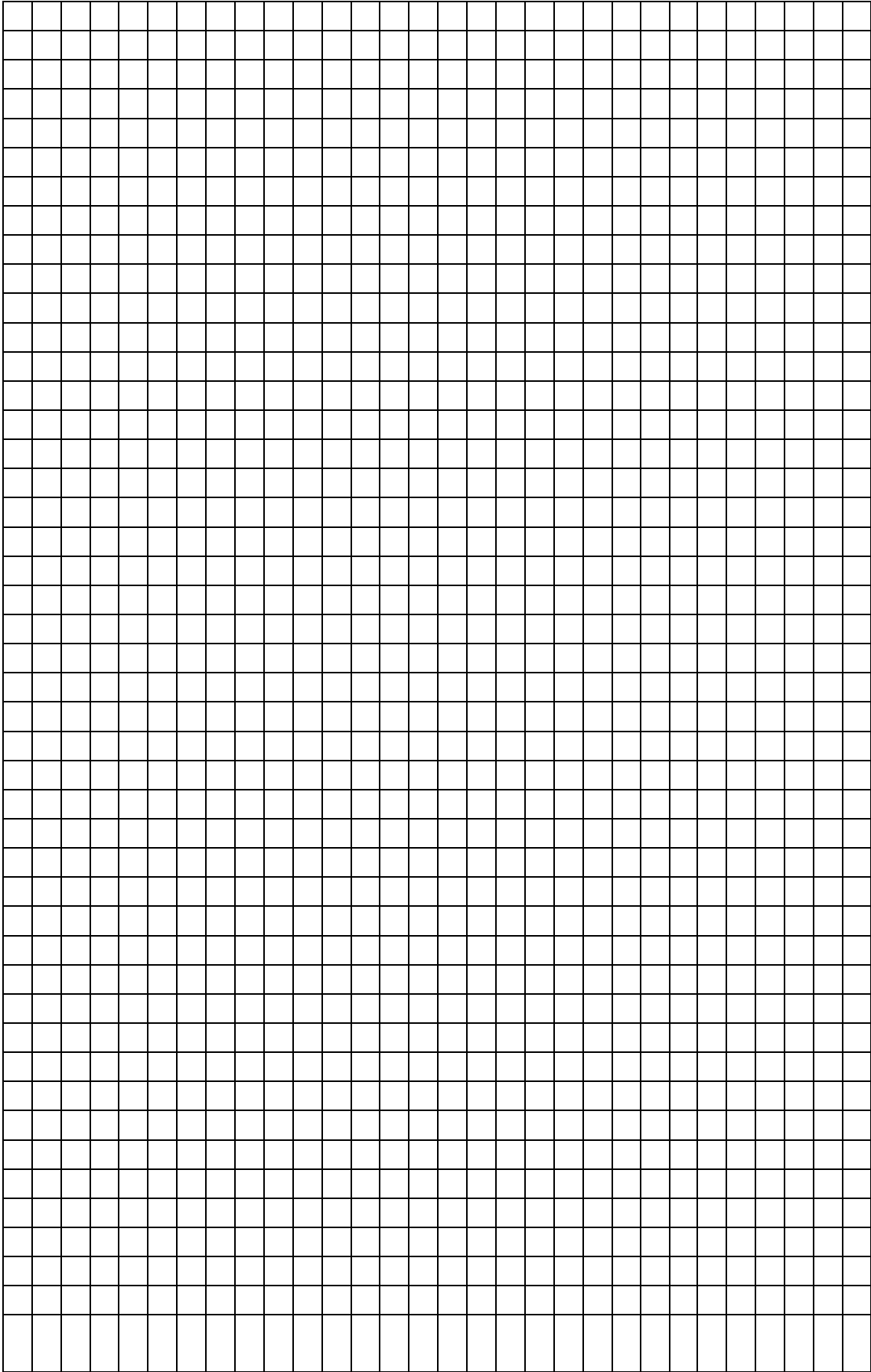


Figure 35, Safety Edge Wiring

Join the straight cable to the flexible cable in the junction box (matching the colours) and wire in to the AD10 Controller (N1) as shown, Figure 35. Set DIP 2 switches 3 & 4 (see AD10 Instructions Section 5.2 and 5.4).



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**Model No: AD-PBT/Mk1/24/07**

**Instruction Ver: 2025/06/ENG**

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