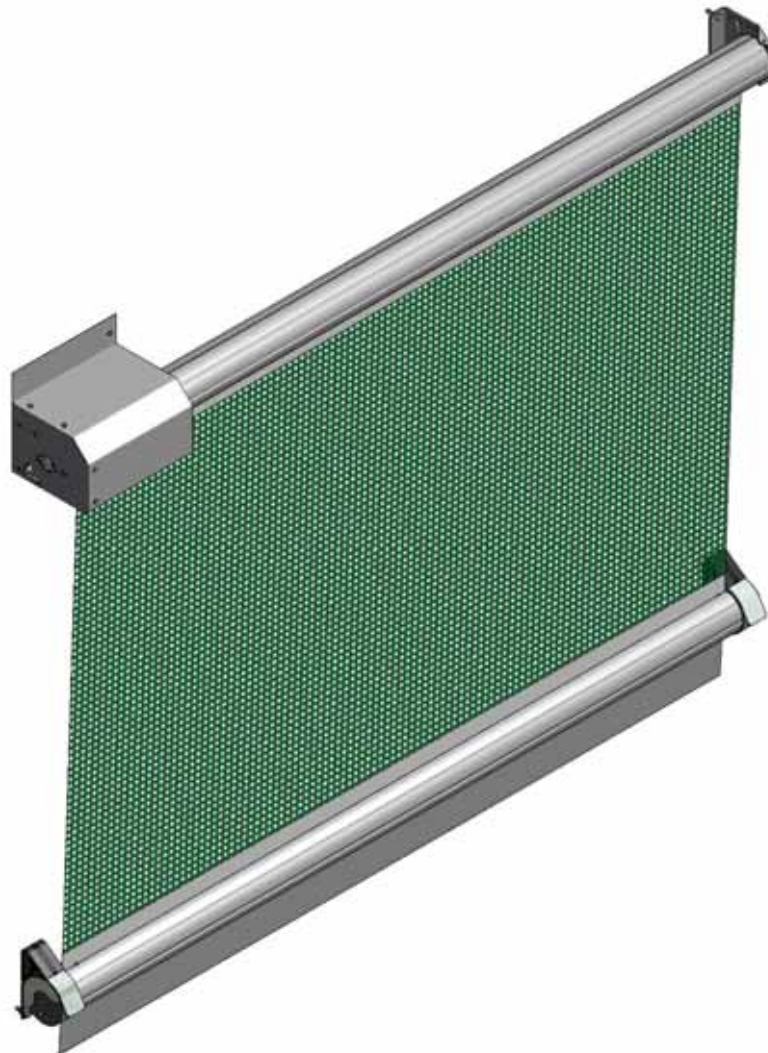


# Electric Rollerdoor with 'J' Brackets

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## Installation Instructions



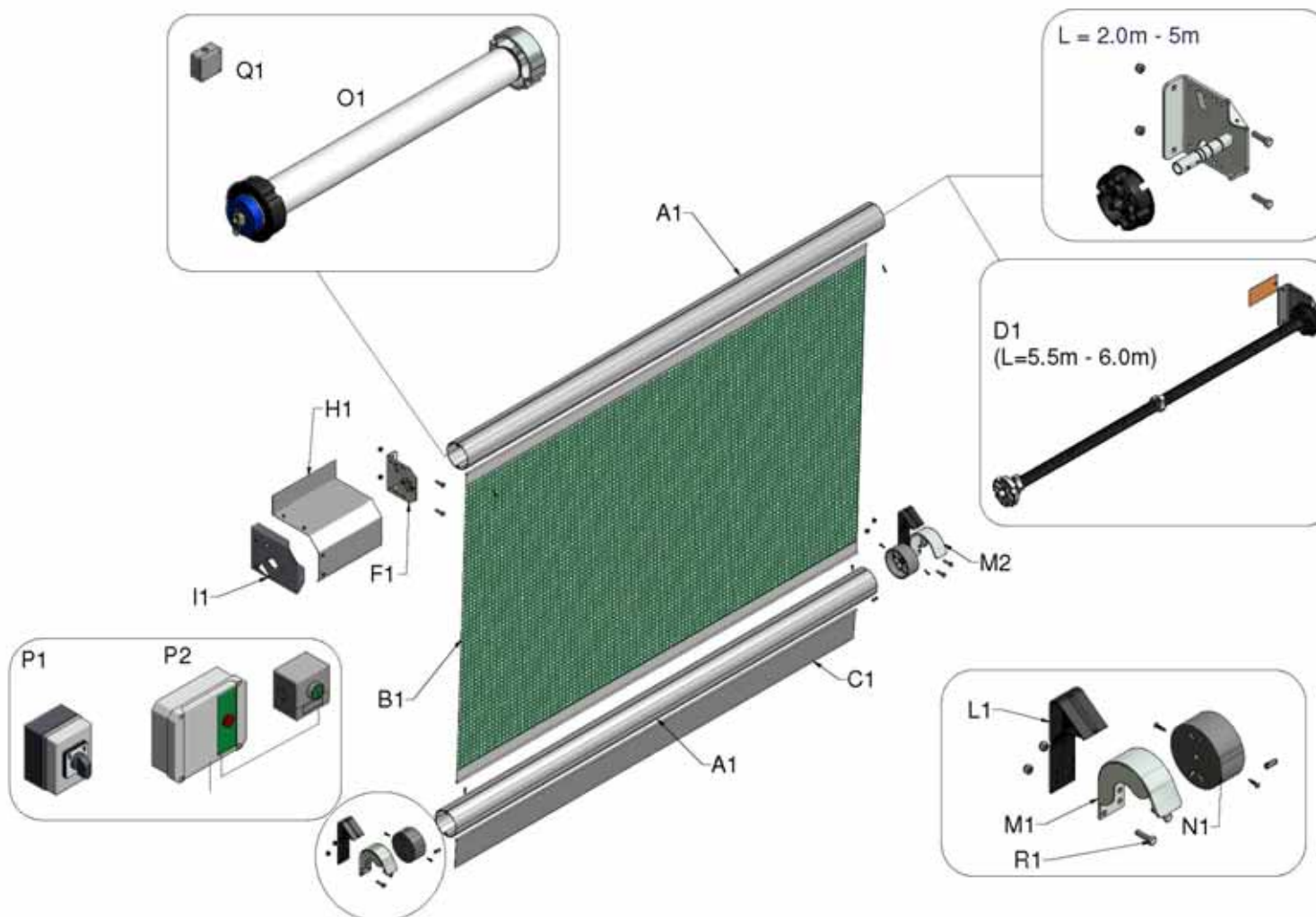


Figure 1, System Overview and Individual Components

**INTRODUCTION****Parts List**

REFERENCE	QTY	PRODUCT DESCRIPTION
A1	2	Top and Bottom Tubes
B1	1	Screen Material
C1	1	Bottom Flap
D1	1	Doors Over 5.5m Width Small Safety Spring (Orange tag)
E1	1	Doors Up to 5.0m Wide Free End bracket (with shaft)
E2	1	Doors up to 5.0m: Free End Collar
F1	1	Motor Bracket
H1	1	30cm Cowling
I1	1 Pair	Cowling Pair of Ends
J1	2	6mm Nylon Insert For Bottom Flap (not shown)
K1	2	Insert Lockers
L1	2	100mm J Bracket Guide
M1	1	Left Hand 100mm Dia J Bracket Bzp
M2	1	Right Hand 100mm Dia J Bracket Bzp
N1	2	100mm Black Tube Cap/Insert
O1	1	Electric Motor Assembly
P1	1	Rotary Drive Switch - Optional
P2	1	Contactora Box and Drive Switches - Optional
Q1	1	80x80x5 Plastic Junction Box
R1	8	M8x30 HT Set screw
S1	10	M8 Nyloc Bzp
T1	8	M4.2x19 Posi-Pan Self Drill Screws
U1	4	M5.5x19 Hex Self Drill Coarse Screw
V1	2	Nylon Cable Tie 150 x 3.6mm (not shown)
X1	1	Wall Bracket Hole Template (not shown)
Y1	1	140x45mm Yellow template (not shown)
Z1	2	M8x20 HT Set screw and Nut

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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 standard material. Add 5% to this figure for doors supplied with 'HP' fabric, and 15% for doors supplied with black Stockscreen and solid fabrics.

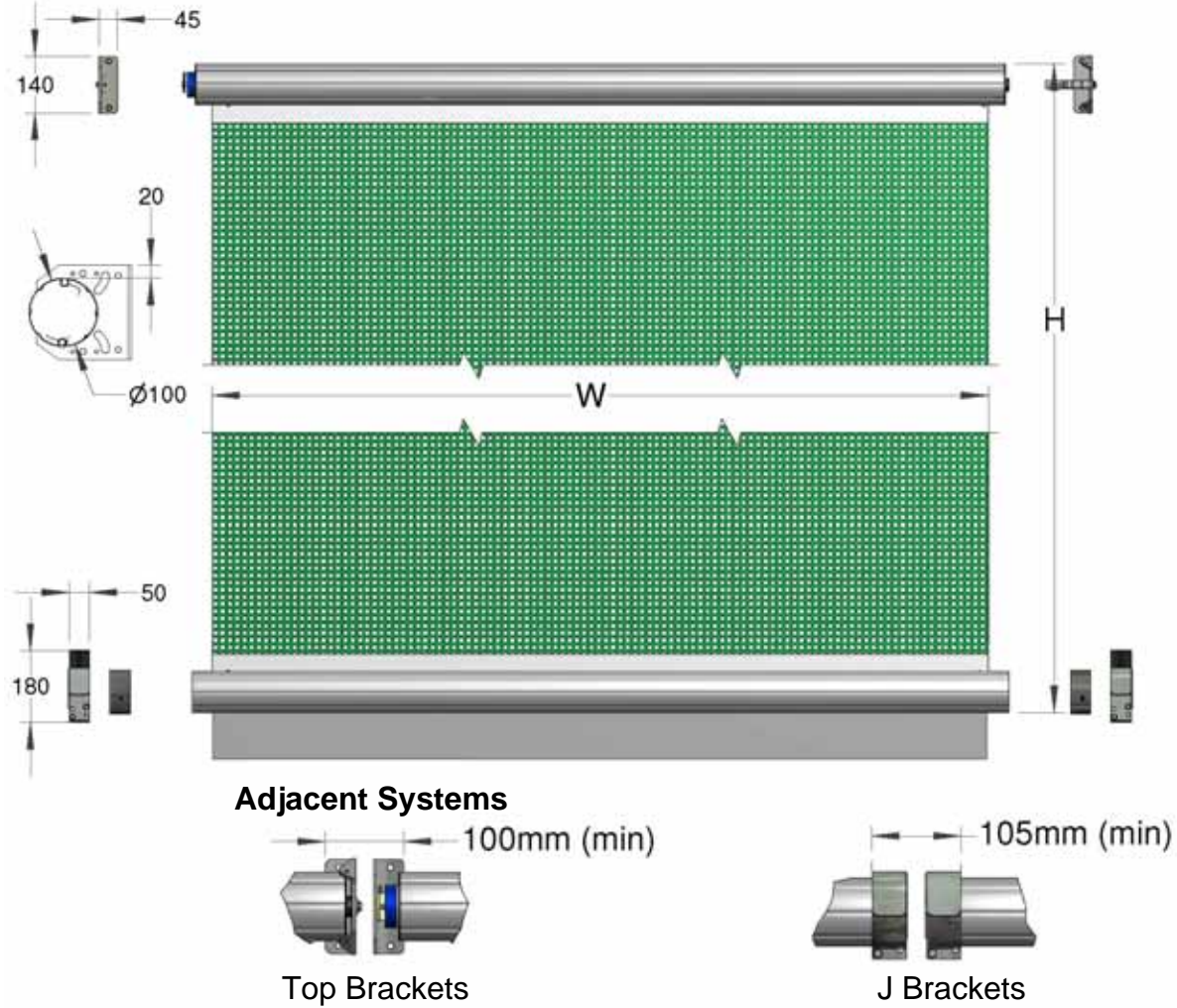
WIDTH/HEIGHT	3.1m	4.1m	5.1m
2.5m	25kg	26kg	27kg
3.0m	27kg	28kg	29kg
3.5m	29kg	30kg	31kg
4.0m	32kg	33kg	34kg
4.5m	34kg	35kg	36kg
5.0m	36kg	37kg	38kg
5.5m	45kg	46kg	----
6.0m	47kg	48kg	----

Table 1, Roller Assembly Weights

**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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Order Width (m)	Fabric Width (m)
2.5	2.5
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

Order Height (m)	Max Height (m)
3.1	3.10
4.1	4.10
5.1	5.05

Figure 2, Fitting Requirements



**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.

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### ***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	= W x H x 233	= W x H x 24
100	= W x H x 481	= W x H x 49
140	= W x H x 933	= W x H 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.



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

**Noise Levels**

<b>A-weighted sound pressure level (dB)</b>	<b>50</b>
<b>C-weighted sound pressure level (dB)</b>	<b>60</b>

**Items Required By The Installer**

Standard tool kit comprising:

- Electric drill
- Angle grinder
- Sharp pair of scissors or knife
- Bolts for fixing the brackets to steel are supplied, if fixing to a wooden or concrete building you will require eight M8 fasteners.

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**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 it is advisable to read these instructions completely to help understand the general procedure and options available.

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

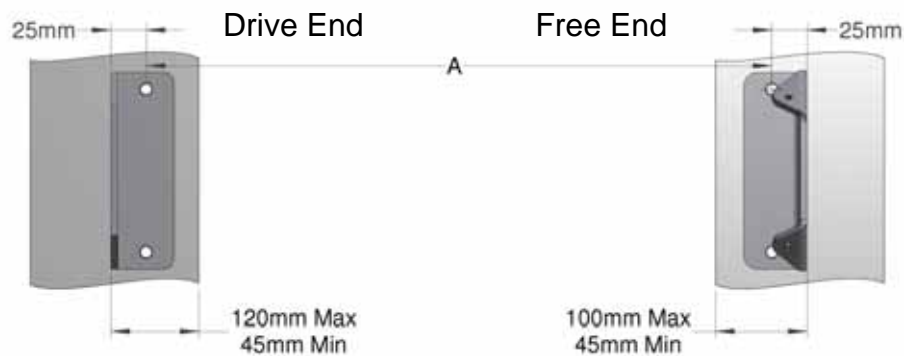
[www.galebreaker.com](http://www.galebreaker.com)



**INSTALLATION*****Door Assembly***

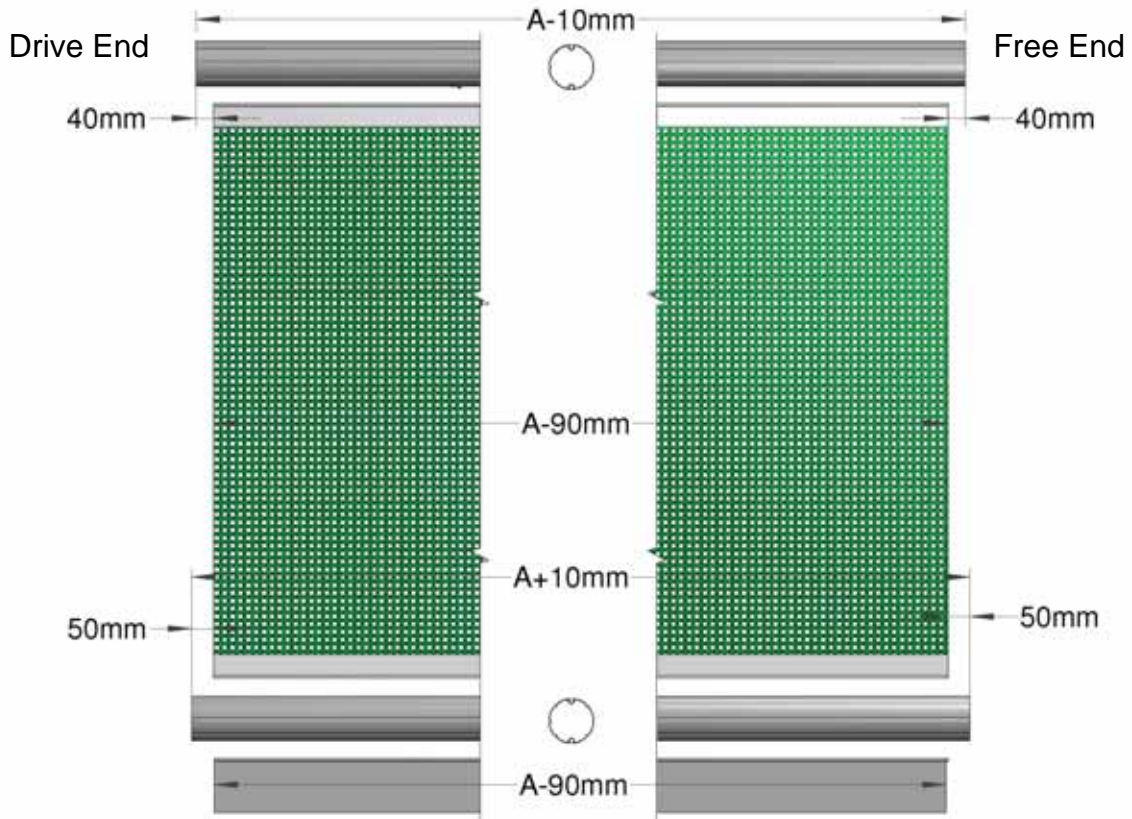
1. Check the contents of your door against the parts list using Figure 1. Do not let the screen material come into contact with any sharp objects or edges. The motor can be mounted on either side of the top tube, for convenience the drawings depict a door with the motor mounted on the left (Drive End = Left Hand Side).
2. Using the yellow template (X1), drill M8 holes for the two top brackets. The maximum recommended overlap for Post Fixing (Drive End) = 120mm, Post Fixing (Free End) = 100mm and for lintel fixing = 175mm (Figure 3). It is essential that the top brackets are level and upright.

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**Post Fix****Lintel Fix***Figure 3, Top Bracket Positioning*

**ATTENTION:** To prevent abrasion and material fray, maximum overlap between bracket face and edge of fixing must not exceed that shown in Figure 3. If overlap exceeds these recommendations ensure there are no sharp objects on the building to damage the material, and rough surfaces such as concrete is protected with PVC strip or similar.

3. Cutting lengths (Figure 4):



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Figure 4a, Standard Cutting Lengths of Tubes and Fabric

- Top Tube = Distance between centre of drilled holes -10mm (-0.010m)
- Screen and Flap = Distance between centre of drilled holes -90mm (-0.090m)  
(80mm shorter than top tube)
- Bottom Tube = Distance between centre of drilled holes +10mm (0.010m)  
(20mm longer than top tube)

**NOTE:** Cutting details are for standard installation where there are no constraints on fixing the top brackets or J brackets. It is possible to reduce the distance between top brackets if there are space constraints (Figure 4b). This configuration however results in a 5mm gap between the fabric and the door opening



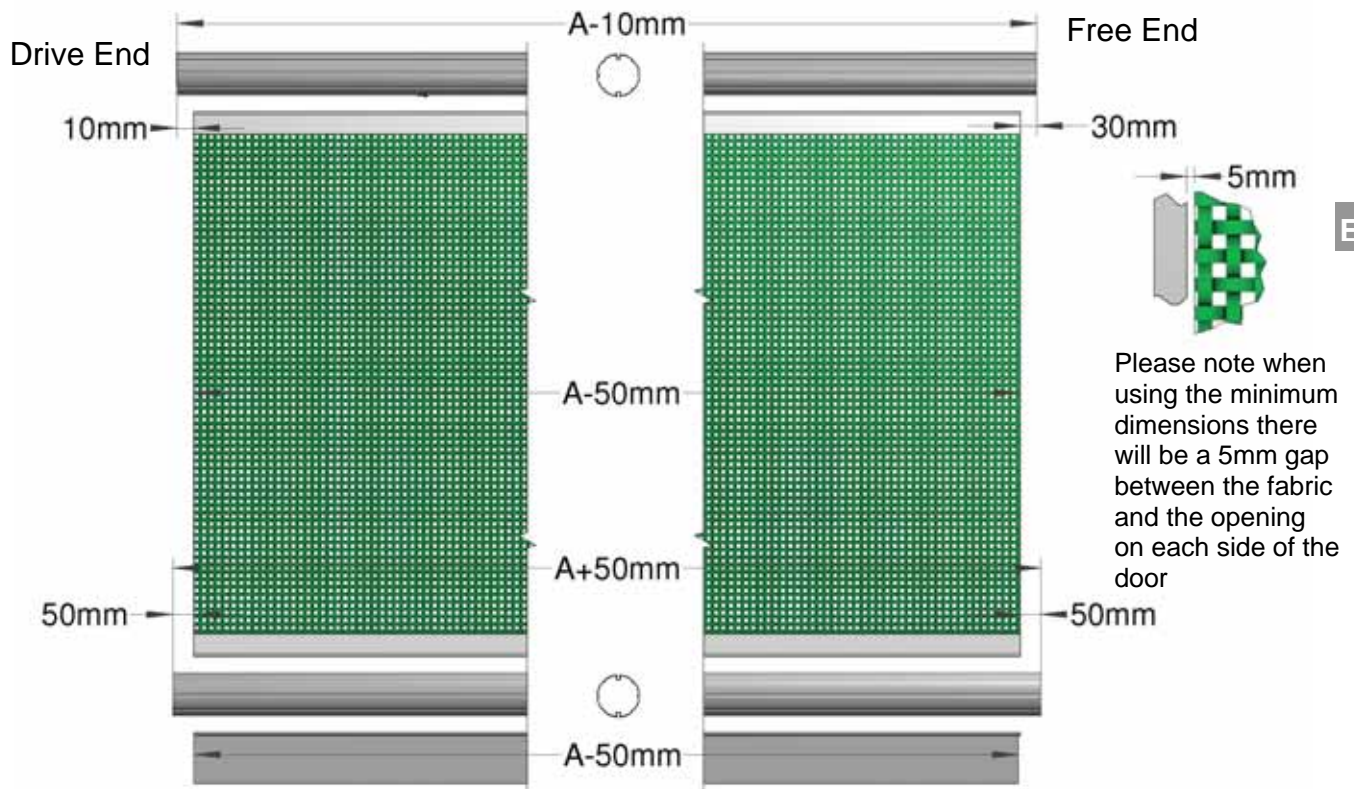
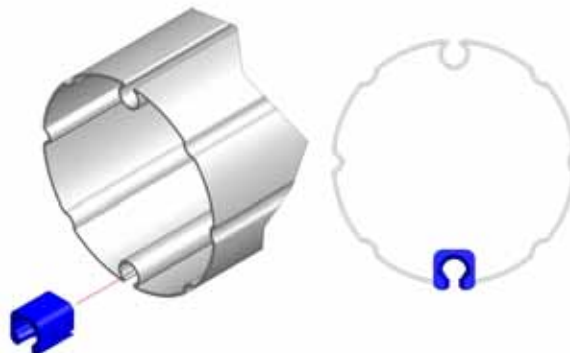


Figure 4b, Minimum Cutting Lengths of Tubes and Fabric

4. 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.



Slide the screen material (B1) into the flutes of the top and bottom tubes. Cut to suit and slide nylon insert (J1) into the pocket of the flap (C1). Slide flap into bottom flute and secure each end with insert lockers (K1), Figure 5a.

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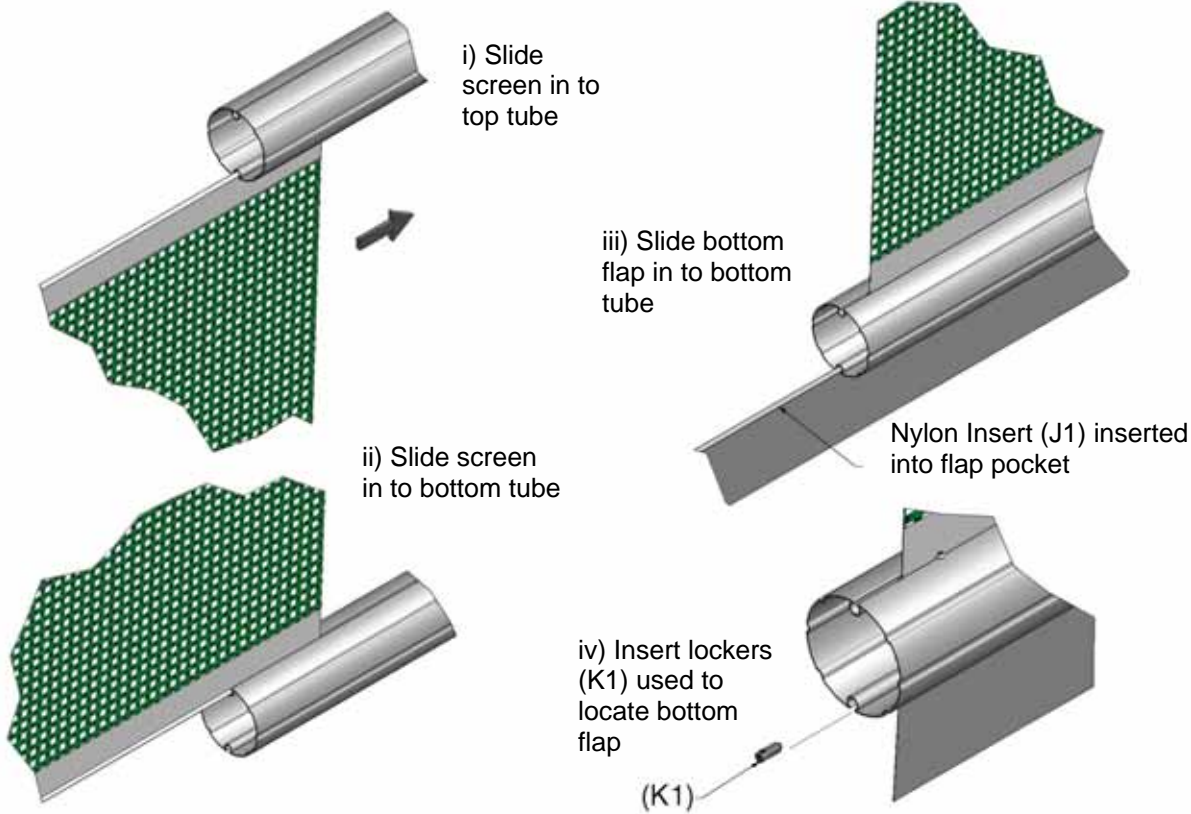


Figure 5a, Fabric Attached to Top and Bottom Tubes

Push end caps (N1) onto bottom tube making sure the drainage holes are located vertically. Fix with two self-drilling screws (T1) to each cap

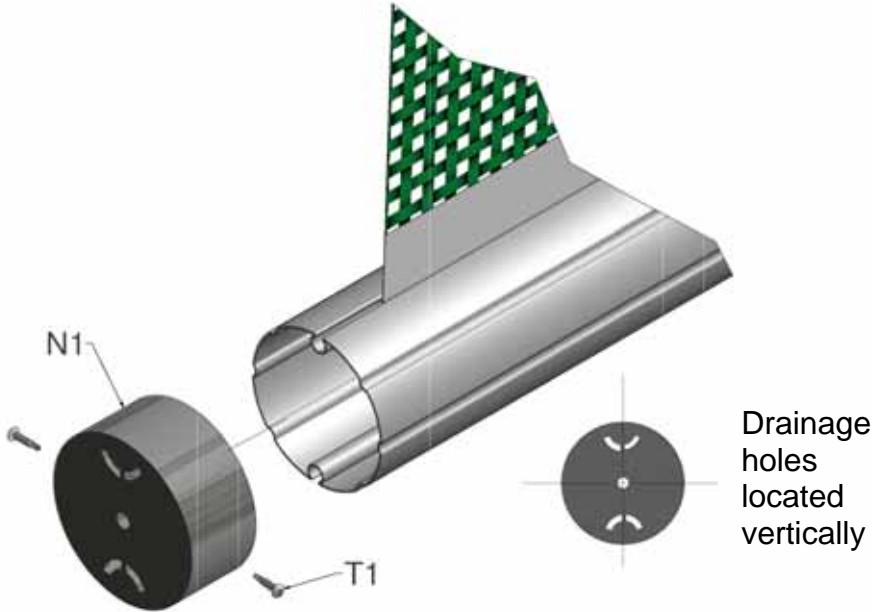
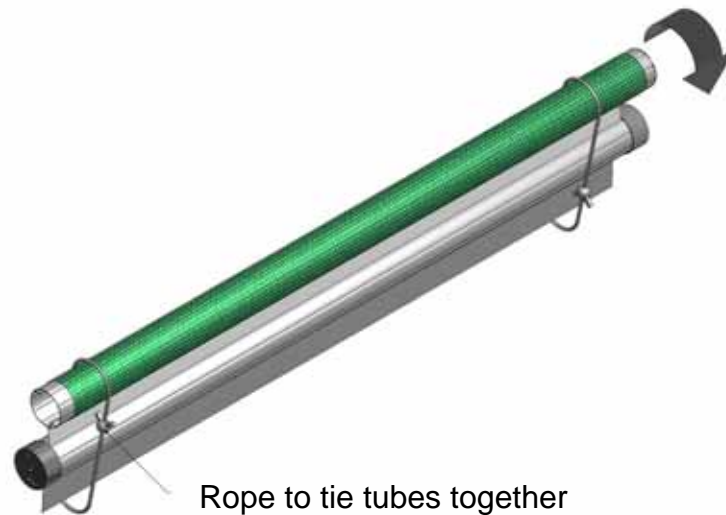


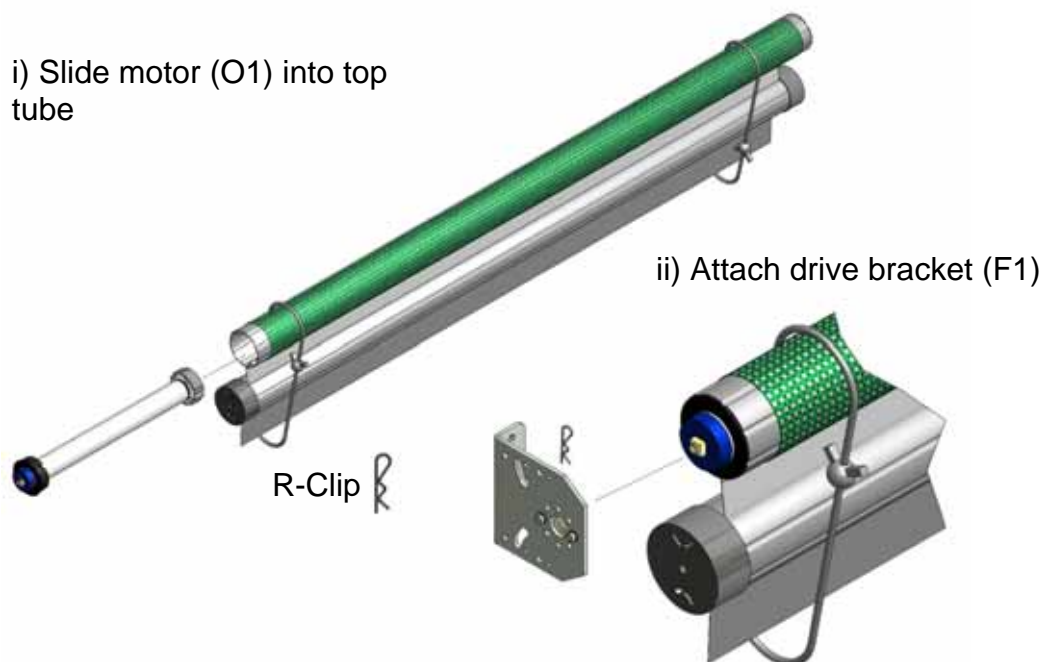
Figure 5b, Attach End Caps to Bottom Tube

5. Roll the screen material fully onto the top tube, we recommend the fabric rolls off the back of the top tube to minimise the gap between the fabric and building face. Tie the tubes together as shown in Figure 6.



*Figure 6, Roll Up Door Around Top Tube and Secure*

6. Insert motor assembly into drive end of top tube, and then attach the drive end wall bracket to the motor using the R-clip supplied, as shown in Figure 7.



*Figure 7, Motor Inserted Into Top Tube and Drive Bracket Attached*

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## 7.1. Doors up to 5.0m wide, Figure 8a:

Fasten the free end bracket (E1) to the holes drilled in building at free end, using the M8 fixings supplied. Push free end collar (E2) into the top tube at the free end. Lift the assembly into position and slide top tube onto free end bracket. When in position fasten drive bracket (F1) and motor cowling bracket (G1) to building.

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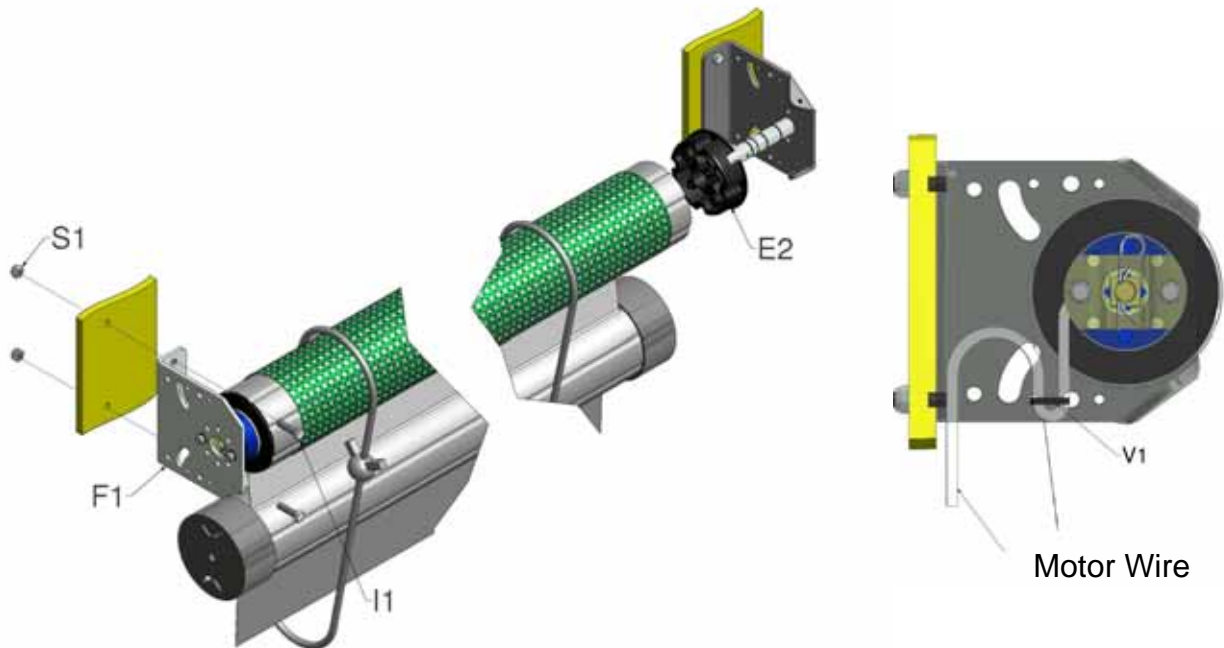


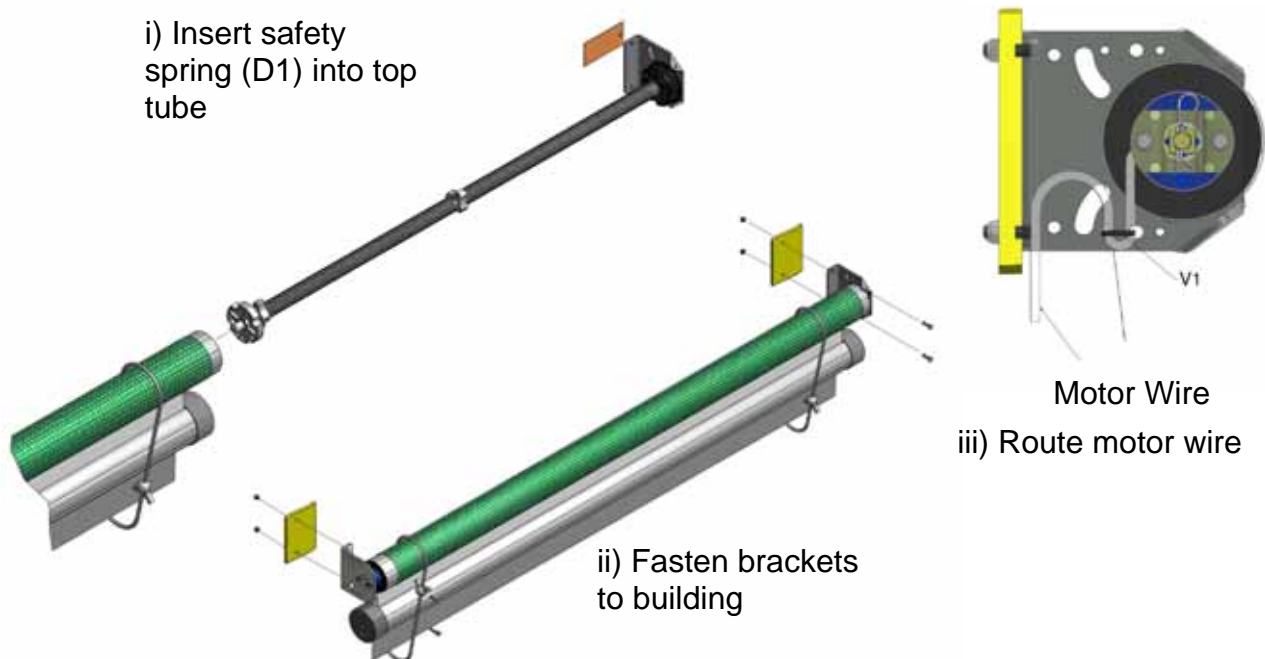
Figure 8a, Mounting Doors Up to 5.0m Wide to Building



**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 M8 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.

## 7.2. Doors over 5.5m wide, Figure 8b:

Slide safety spring (D1) into the top tube, opposite end to the motor. Lift the assembly into position, and bolt both brackets on using the M8 fixings supplied. The motor cowling bracket (G1) is fastened to the drive end at the same time.



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Figure 8b, Attaching Doors Over 5.5m Wide to Building

### Powering Motor

#### 8. Single Switch Control

Following the Becker operation instructions, secure the junction box (R1), switch (P1) and wires to the building. Ensure all wires exiting from the drive bracket, junction box and switch point down to form a drip-loop so that rain water cannot enter the motor or switch. To prevent entrapment by the lower tube, route the cable to the back of the top bracket and fasten with cable-tie supplied (V1), Figure 8b(iii). Ensure the cable glands are correctly seated to prevent water ingress. Wire the 4-core motor cable into the junction box as detailed in Figure 9a for left hand drive or Figure 9b for right hand drive.

To operate the door, rotate the switch in the direction you want the door to travel as indicated by the arrows on the front panel. To stop the door at any position, return the switch to position '0'.



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

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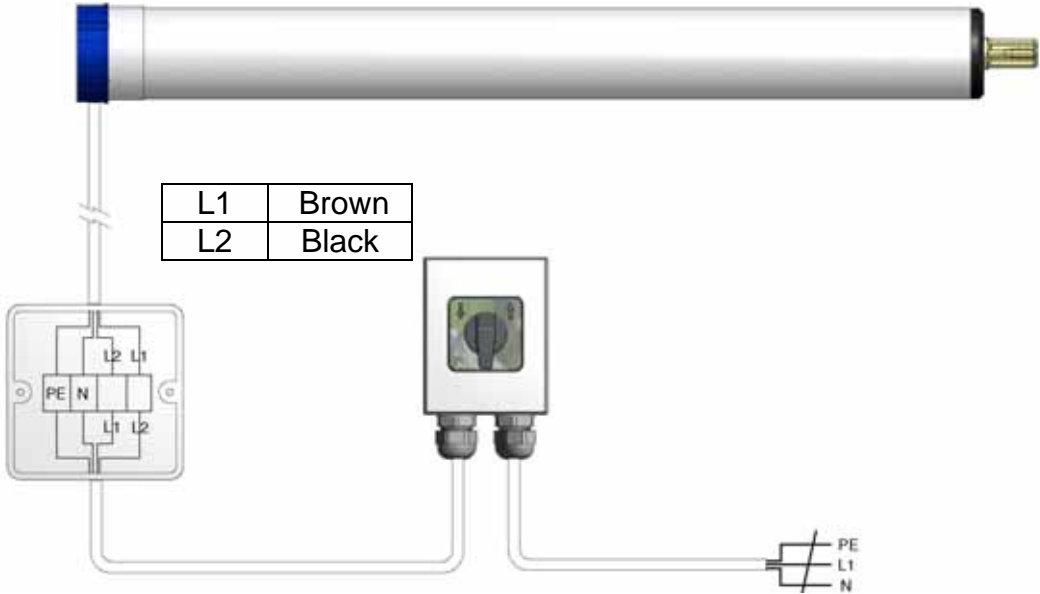


Figure 9a, Motor Left

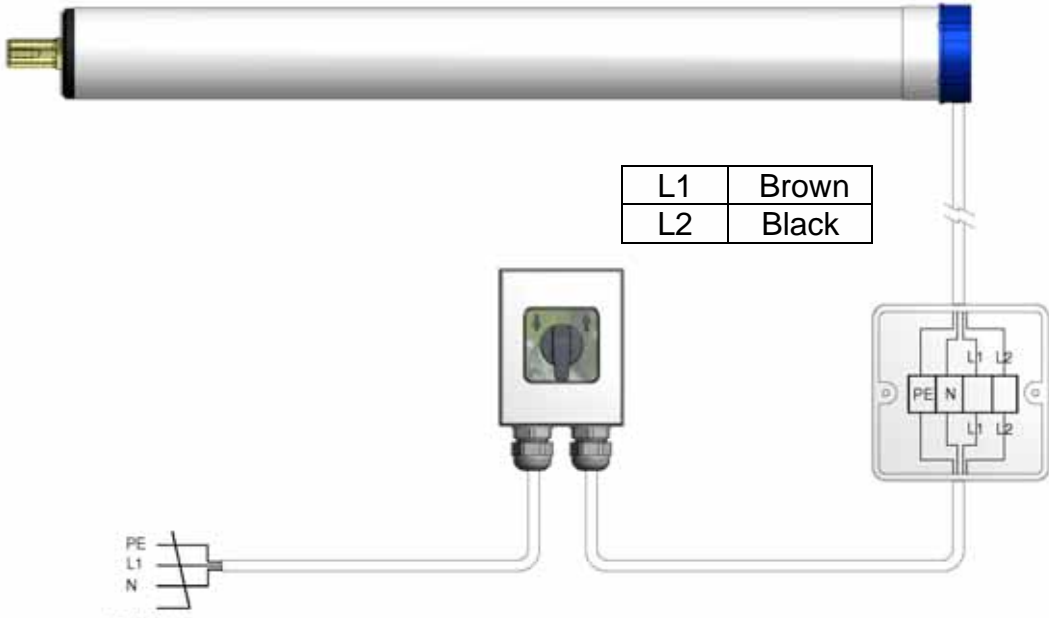


Figure 9b, Motor Right



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**Double Control Switch**

Secure the contactor box, secondary switches, and wires (P2) to the building. Ensure all wires exiting from the drive bracket and 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 contactor box is mounted inside the building with the glands face downwards. Ensure all cable glands are correctly seated to prevent water ingress. Wire the 4-core motor cable into the contactor box (P2) as detailed in Figure 9c. Re-fit lid checking that the seal is correctly seated to ensure water does not damage the electronic controls. The switches operate in a ‘toggle’ fashion, i.e. with each press the motor will go one way, then stop, reverse, stop again and so on.

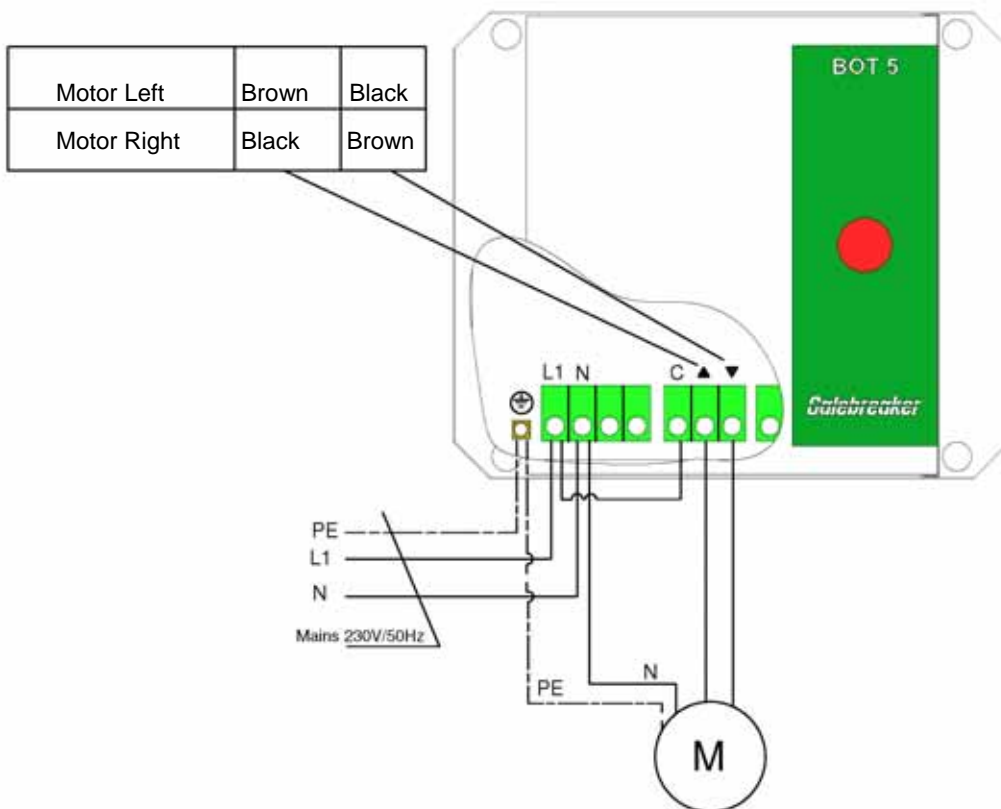


Figure 9c, Contactor Box Wiring

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

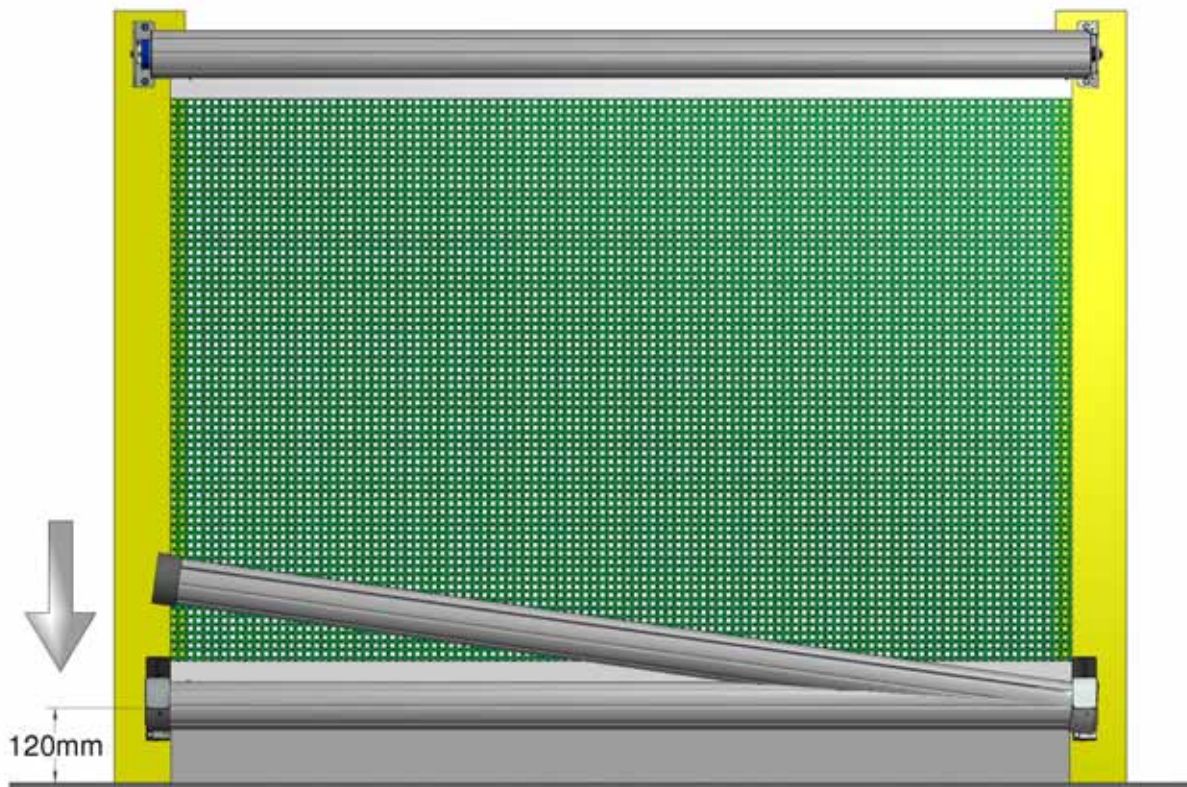


**ATTENTION:** For maximum protection of the circuit board inside the Contactor box, we advise this is mounted inside the building away from direct rainfall. If outside operation is required use the secondary switch for this location

### ***'J' Bracket Installation***

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9. Fit one 'J' Bracket (M1) and Guide (L1) at the desired level with the M8 fixings supplied (R1). Ensure there is 120mm clearance underneath for the tube to engage into the bracket. Locate tube under bracket and at other end, rest bracket over cap and press down until material is taut (Figure 10) and fix bracket to building.



*Figure 10, Attaching 'J' Bracket to Building*

### ***Setting Limit Switches***

9. Follow the 'Becker' operation instructions to set the limit switches so that when fully closed there should be just enough room above the bottom tube to locate in the J Brackets.

**Securing Fabric**

10. Lower your door fully, centralise the screen and secure each corner using 19mm self-drilling screws supplied (T1). It is important to tension sheet sideways before fixing to remove creases (Figure 11).

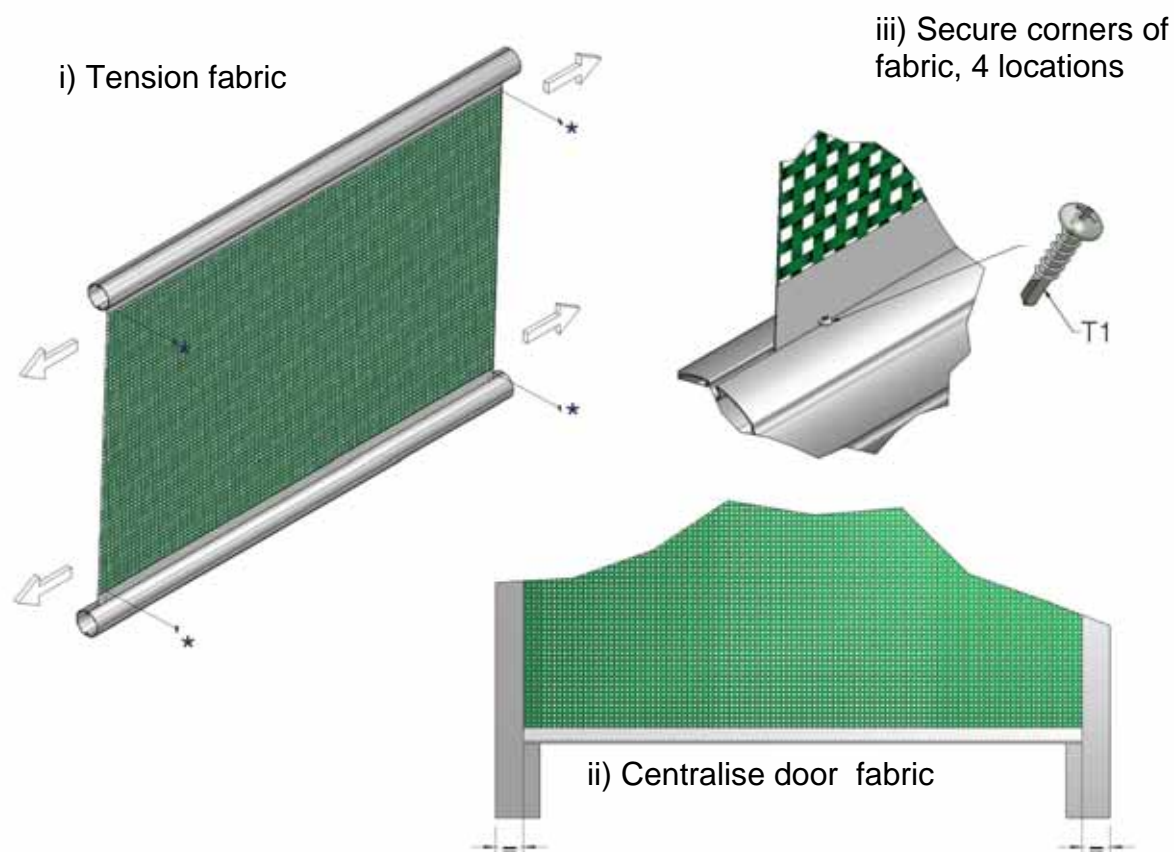
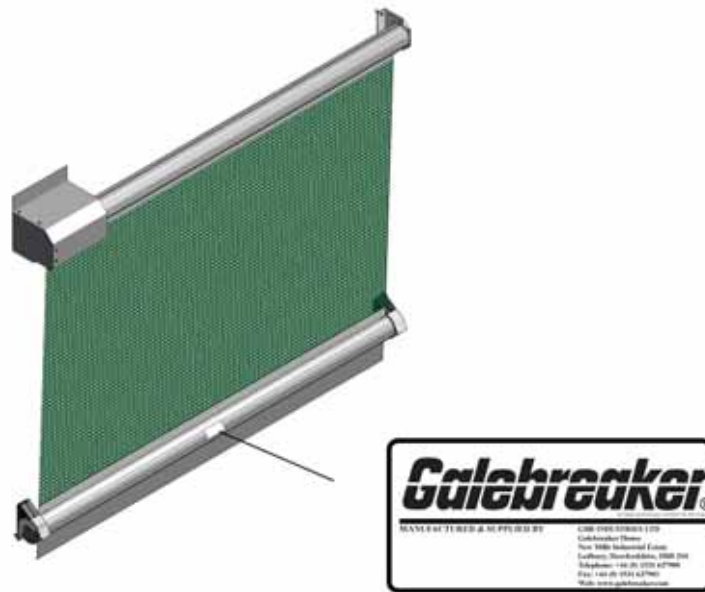


Figure 11, Attaching J Bracket to Building

11. Attach the company detail label centrally to the front of the bottom tube.



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Figure 12, Attaching Label

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

12. Fix the cowling end (G1) to the motor bracket using the M8x20 set screws (Z1) and lock nuts (S1). Attach the motor cowling (H1) to the cowling end and to the building at the free end using the screws (U1) as shown in Figure 13.

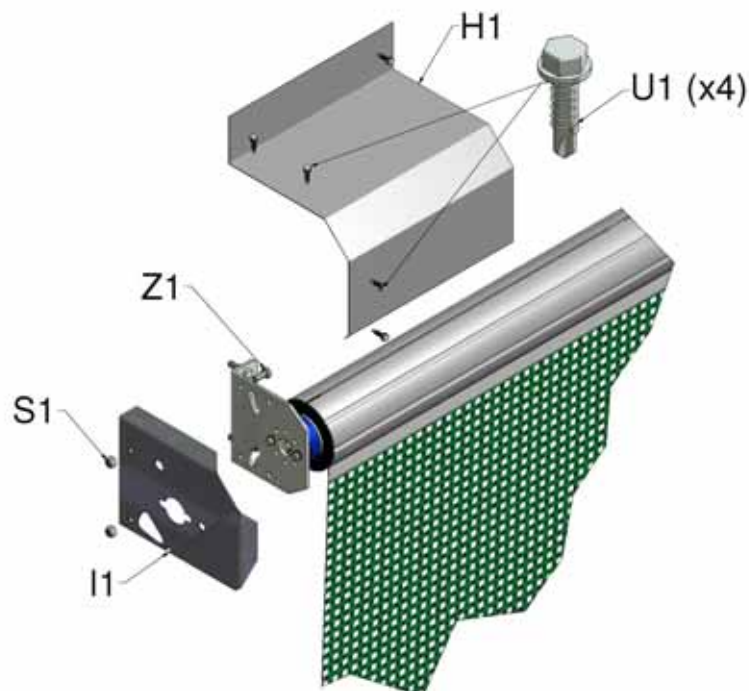
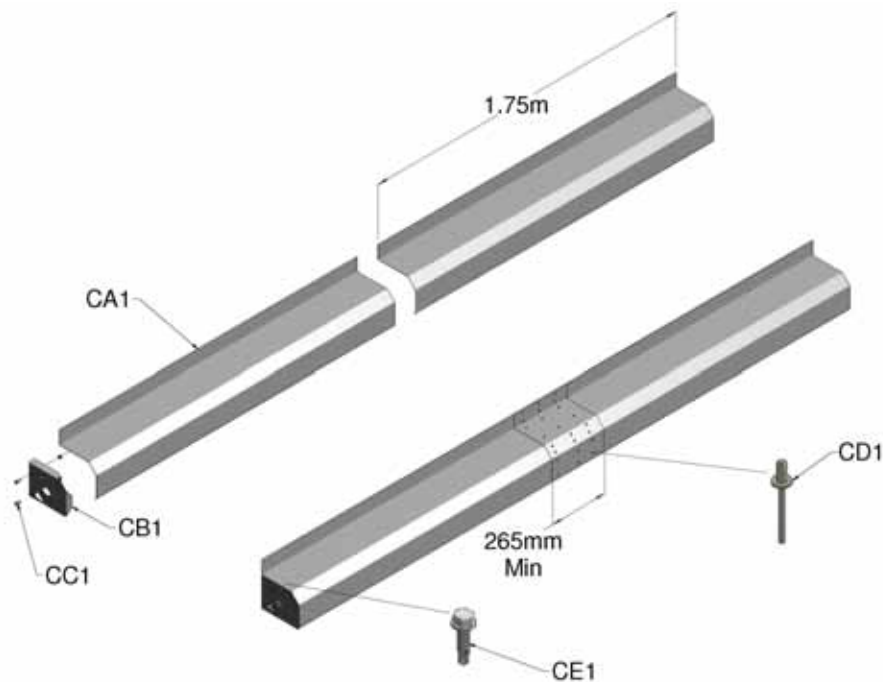


Figure 13, Motor Cowling Assembly

## 13. Door Cowling (Optional at extra cost)



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REF:	QTY	PART DESCRIPTION
CA1	*	1.75M Lengths of Cowling
CB1	1 pr	Cowling End
CC1	2	M8x20 Hex bolt and Nut
CD1	24	M4.8 x 8 St Steel Rivets / per join
CE1	4	M5.5 x 19 Self Drilling Screws
CF1	1	5mm Drill for rivets (not shown)

Figure 14, Door Cowling Assembly

- C1. Fit the cowling ends (CB1) to the end brackets using the M8x20 bolts and nuts, similar to that used at the drive end as shown above in Figure 17.
- C2. Join the main cowling (CA1) with a minimum overlap of 265mm, using the M4.8 x 8 rivets, (CD1) 6 in each of the four faces. Fix the cowling to the cowling ends, using the M5.5 x 19 self-drilling screws (CE1), three per side.

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



## 14. 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 /     RDE     W     X     H


[W] Product Width (m)

[H] Product Height (m)



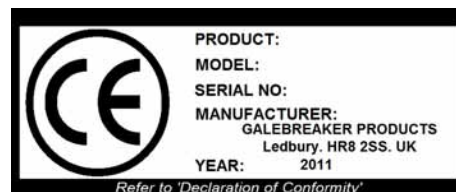
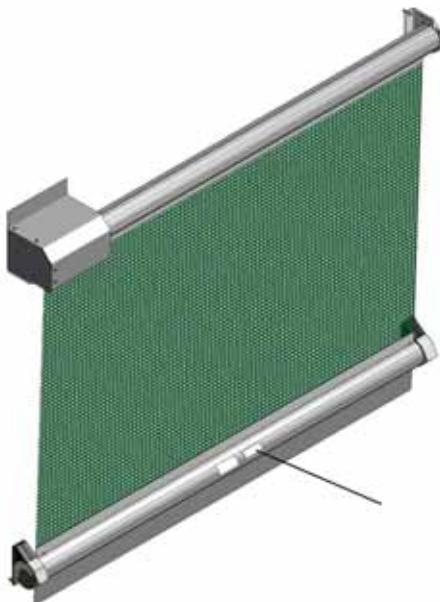
- d) Your customer must be given a copy of the completed 'Maintenance Log Book' along with the 'Installation Instructions' supplied by Galebreaker. These should be stored adjacent to the door controls for reference purposes.
- e) Finally, ask your customer to sign the 'Declaration of Conformity' (Installer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



*Figure 15, CE Label Location*

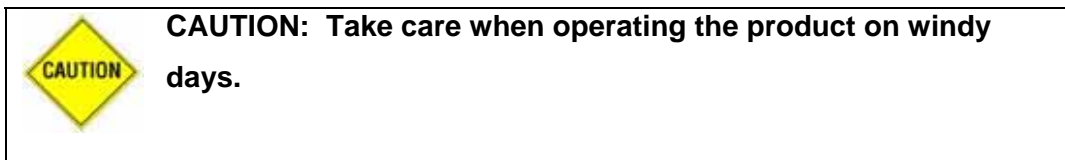
**YOUR DOOR IS NOW READY TO USE.**

## OPERATION AND MAINTENANCE OF DOOR

### ***How to use your door***

From the open position, lower the bottom tube to beneath the 'J' brackets (M). Backwind the motor to raise the bottom tube into the cup of the brackets. Continue to operate the motor until the screen is taut and the motor cuts out.

To open, lower the bottom tube to beneath the 'J' brackets. Pull bottom tube clear of 'J' Brackets (M) and drive motor to raise door to upper limit of door.



### ***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 'J' brackets 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.

### ***Maintenance of 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
- The safety spring (doors above 5.5m in width) has a design life of 10,000 operations, which equates to using the door approximately 3 times a day for 10


years. After 10 years we recommend a replacement spring be fitted, or following the dismantling instructions given below remove the spring annually to ensure it has not broken.

- Should Screen material be damaged, repair with special repair kit (code SPS-99) available from your Galebreaker dealer, importer or head office.
- Keep the instructions supplied for reference purposes.

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***How to dismantle your door***

Follow the installation instructions in reverse order.

	<p><b>CAUTION:</b> For doors over 5.5m in width, ensure all spring tension is removed before unbolting the top brackets to remove the roller assembly and safety spring.</p>
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<p><b>NOTE:</b> This product has been tested to European Standard EN 12424 with a Resistance to Wind Load rating of Class 5. Tried and tested in the harshest weather conditions, a summary of our guarantee is listed below, see our website for full details:</p> <ul style="list-style-type: none"> <li>• <b>Mechanical components:</b> 100% guarantee for two years, followed by an eight year graduated guarantee.</li> <li>• <b>Electrical components:</b> 100% guarantee for two years, followed by a four year graduated guarantee.</li> </ul>
--

<p><b>RAIN INGRESS:</b> Please note that in extreme weather conditions some moisture will penetrate a mesh material.</p>
--

**Wind Load Resistance:**

**Mesh 75% Solid**

**Up to 25sqm = Class 5**

**Solid Material**

**Up to 25sqm = Class 5**



**Manufacturer:** GBR Industries Ltd  
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**[www.galebreaker.com](http://www.galebreaker.com)**

Designed and Manufactured in the UK by GBR Industries Ltd.,

Original Instructions

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**Model No: RDE/Mk1/12/04**

**Instruction Ver: 2012/04/ENG**