

# Rollerdoor with 'J' Brackets



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## Installation Instructions



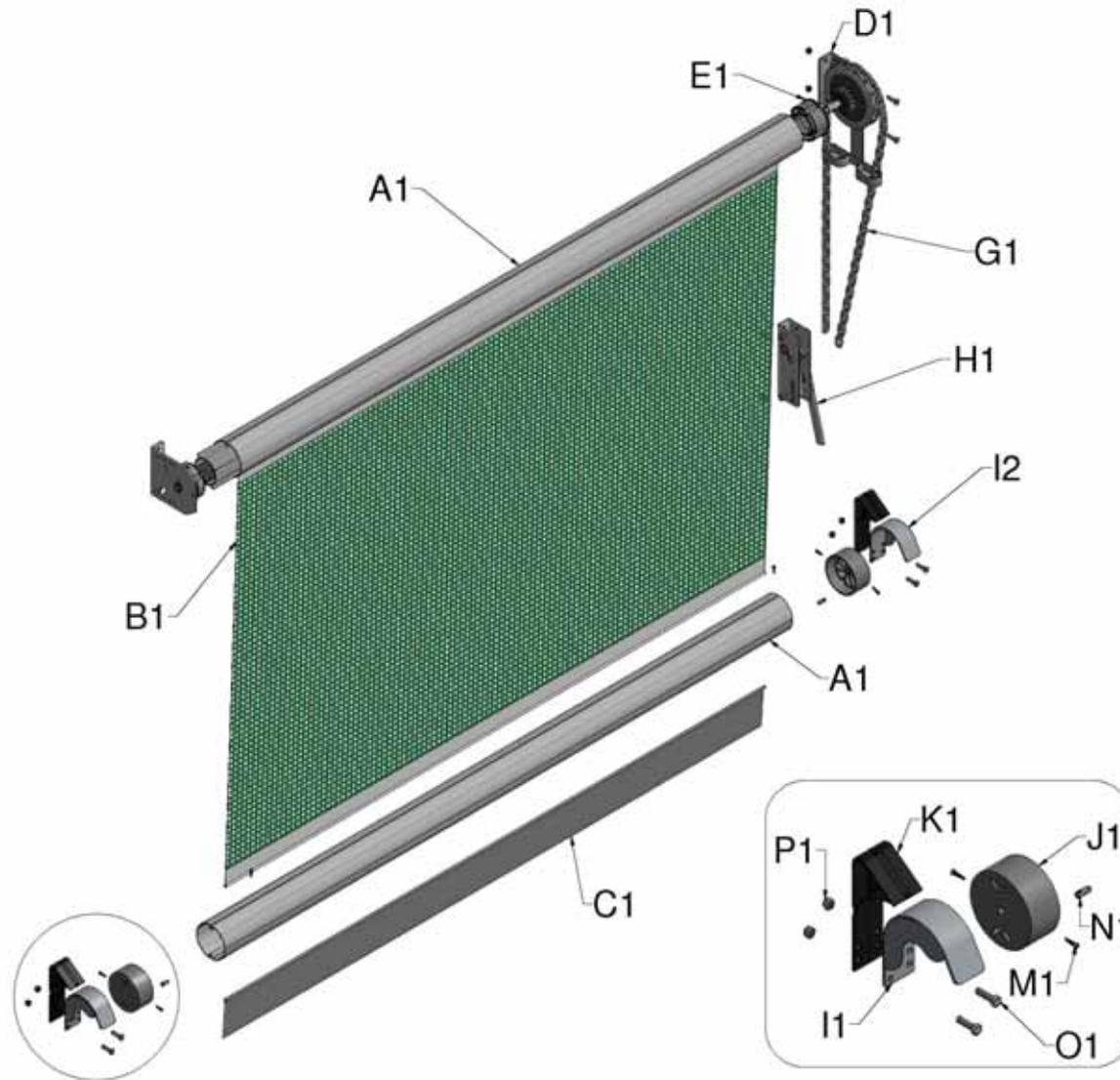


Figure 1, System Overview and Individual Components

**INTRODUCTION**

**Parts List**

REFERENCE:	QTY	PRODUCT DESCRIPTION
A1	2	Top and Bottom Tubes
B1	1	Screen Material
C1	1	Bottom Flap
D1	1	Drive Bracket
E1	1	Drive Collar
F1	1	Spring Assembly (Left-Hand Insertion Shown)
G1	1	Operating Chain
H1	1	Chain Tensioner
I1	1	Left Hand 100mm Dia J Bracket BZP
I2	1	Right Hand 100mm Dia J Bracket BZP
J1	2	End Caps
K1	2	100mm J Bracket Guide
L1	1	6mm Nylon Insert for Bottom Flap (not shown)
M1	8	M4 x 19 Self Drilling Screws for Fixing Screen and End Caps
N1	2	Insert Lockers, Screws and Allen Key to Hold Flap
O1	12	M8 x 30 bolts for Fixing Brackets to a Steel Building
P1	12	M8 Nylocs
Y1	1	140 x 45mm Yellow Template (not shown)

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**Your Safety**

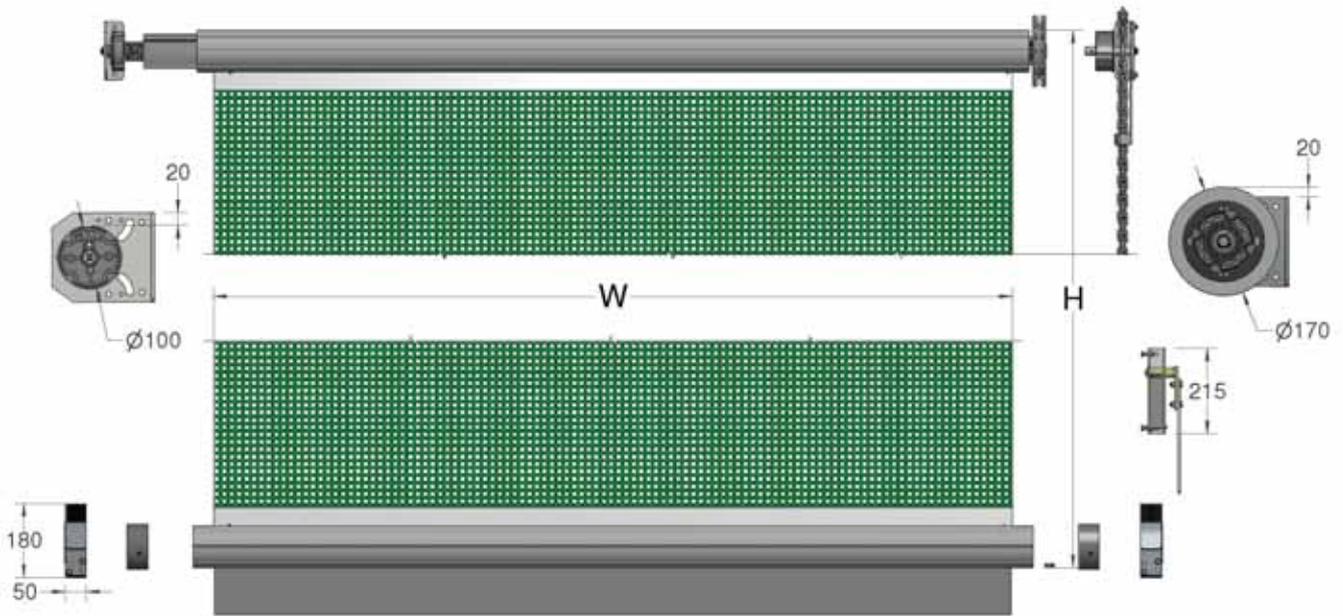
The larger doors will require a mechanical lift to mount the roller assembly onto the top brackets. The respective weights are given in the table below based on standard material. Add 5% to this figure for doors supplied with ‘HP’ fabric, and 15% for doors supplied with black Stockscreen and solid fabrics.

WIDTH	HEIGHT		
	2.1m	3.1m	4.1m
2.5m	39kg	39kg	40kg
3.0m	43kg	43kg	44kg
3.5m	47kg	47kg	48kg
4.0m	51kg	51kg	59kg
4.5m	61kg	62kg	64kg
5.0m	65kg	67kg	68kg
5.5m	69kg	71kg	72kg
6.0m	74kg	75kg	76kg

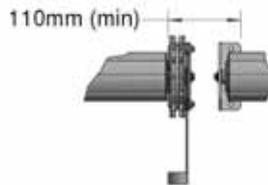
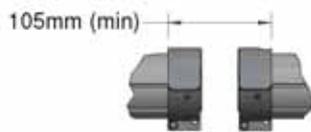
**Pre-Installation Check**

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

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Adjacent Systems



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 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 km/hr	= W x H x 233	= W x H x 24
100 km/hr	= W x H x 481	= W x H x 49
140km/hr	= W x H x 933	= W x H x 95

*\*No allowance made for safety margins*

### **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**

This door is a manually 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.

### **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.

**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)

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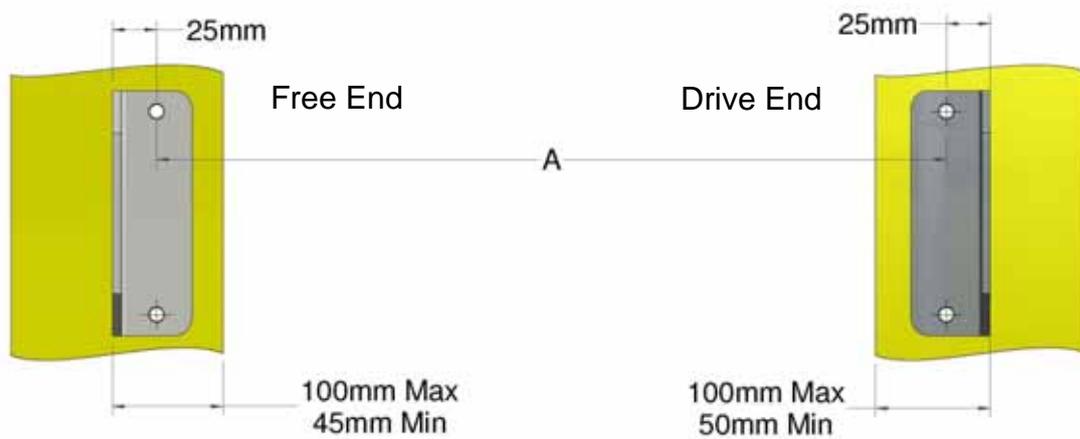
**INSTALLATION**

**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.
2. Using the yellow template (Y1), drill M8 holes for the two top brackets. The maximum recommended overlap for Post Fixing = 100mm, 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

	<p><b>ATTENTION:</b> 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.</p>
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- Slide drive collar (E1) onto chain wheel gear attached to drive bracket (D1) and bolt assembly to the building with M8 fixings supplied, Figure 4a. The orientation of the drive bracket is as specified when you ordered your door, see Figure 4b and 4c, the spring is situated on the opposite side. If you wish to fit the drive bracket to the opposite side to that ordered, refer to instructions in Appendix I.

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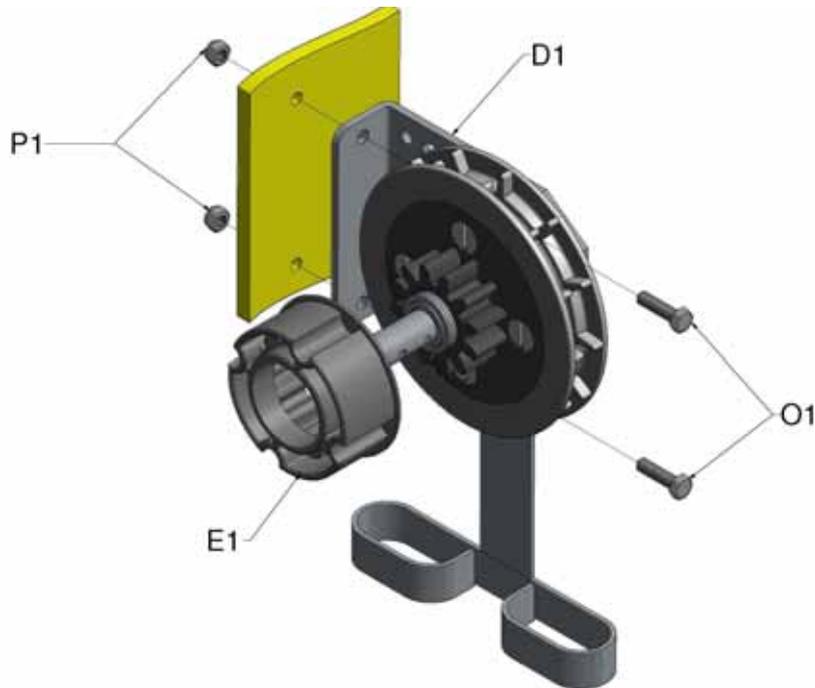


Figure 4a, Attach Drive Bracket to Building

	<p><b>CAUTION:</b> Only use M8 bolts or greater to fit the door. Ensure all brackets are securely fastened to the building. Failure of these fixings will result in your door falling off the building, potentially injuring operators and bystanders.</p>
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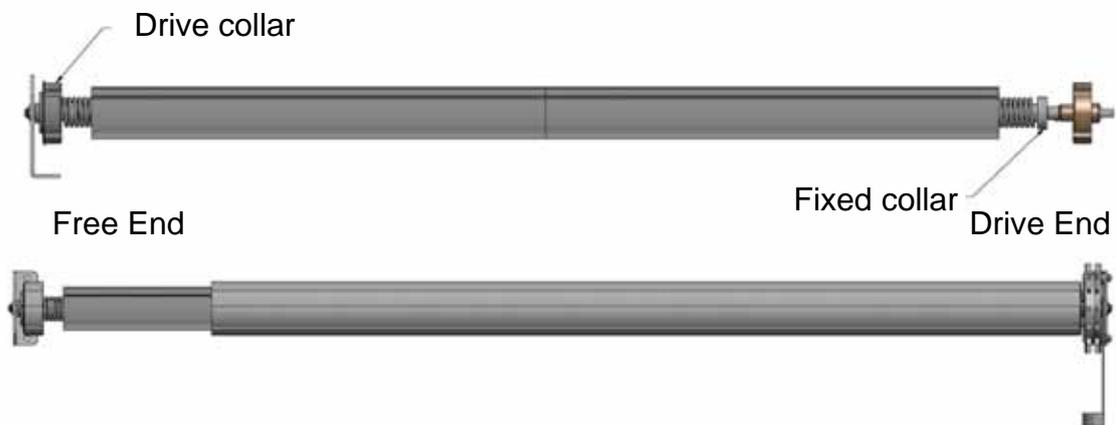
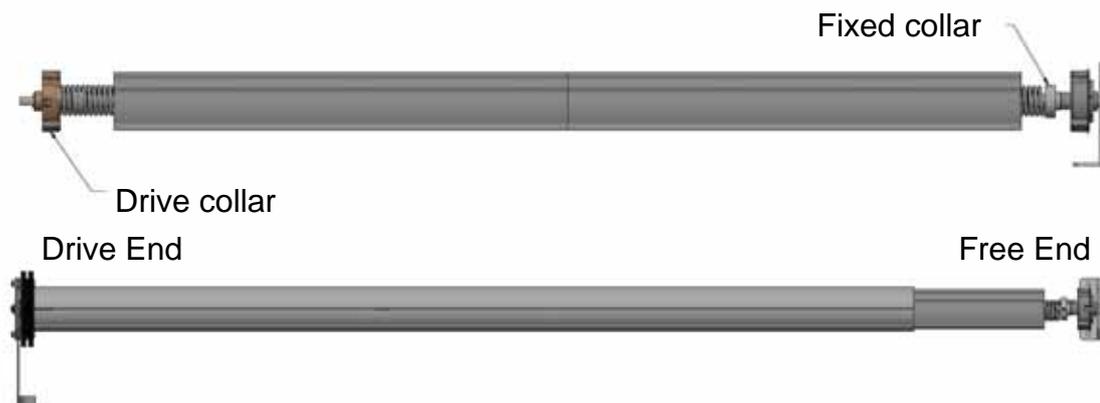


Figure 4b, RH door, Drive Bracket on the Right



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Figure 4c, LH door, Drive Bracket on the Left

 **ATTENTION:** It is vital that the spring is fitted in accordance with these instructions; otherwise it will suffer terminal damage, for which Galebreaker is not liable.

**NOTE:** If you wish to fit the spring to the opposite side to that ordered, refer to instructions in Appendix I.

4. Cutting lengths (Figure 5a and 5b):

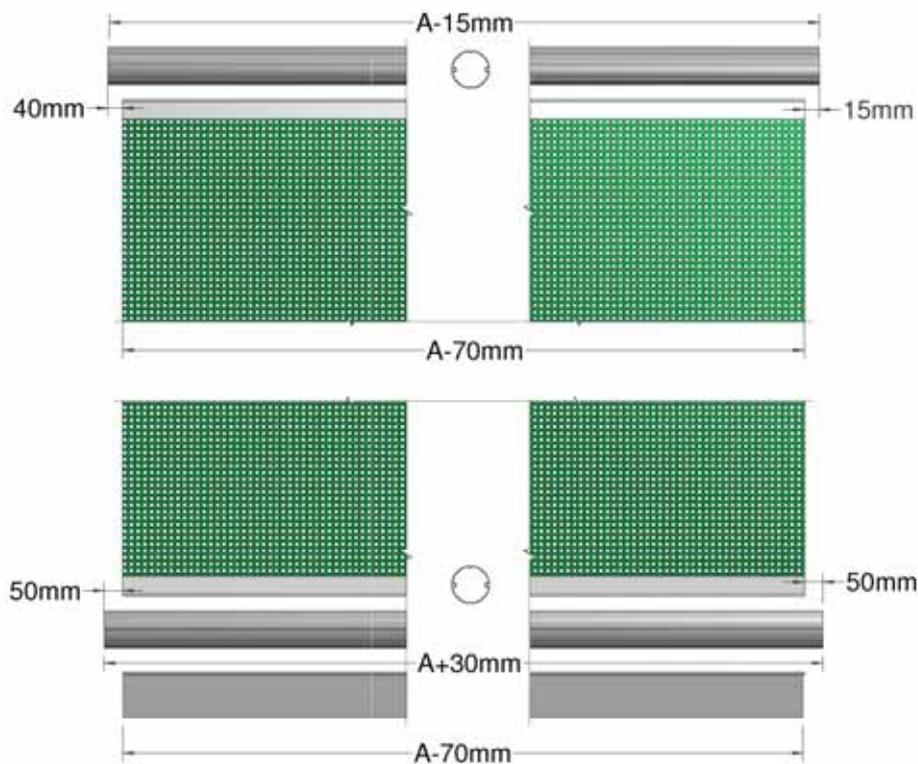


Figure 5a, Standard Cutting Lengths of Tubes and Fabric

Top Tube	=	Distance between centre of drilled holes -15mm (-0.015m)
Screen	=	Distance between centre of drilled holes -70mm (-0.070m) (55mm shorter than top tube)
Bottom Tube	=	Distance between centre of drilled holes +30mm (0.030m) (45mm longer than top tube)
Bottom Flap	=	Distance between centre of drilled holes +70mm (0.070m)

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**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 5b). This configuration however results in a 5mm gap between the fabric and the door opening**

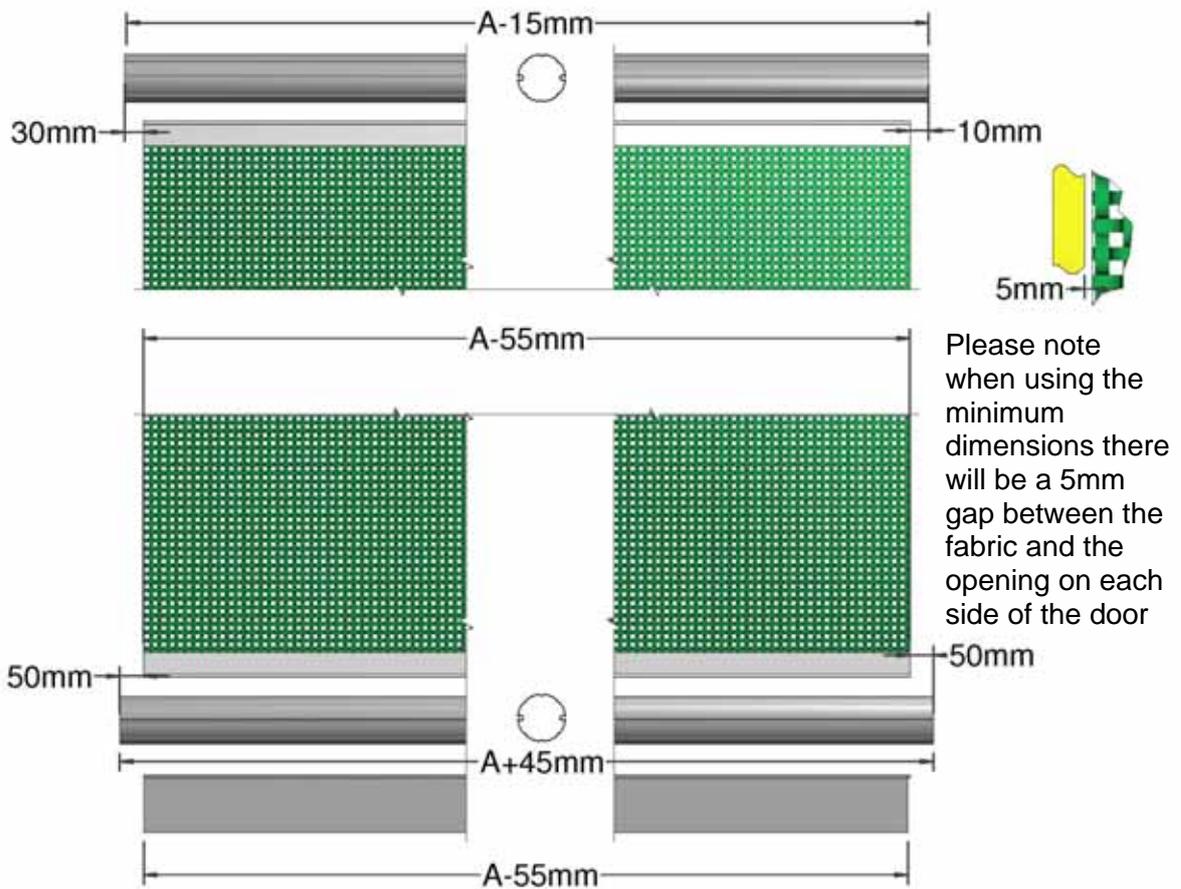
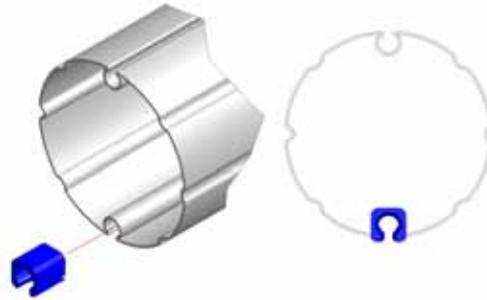


Figure 5b, Minimum Cutting Lengths of Tubes and Fabric



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 screen material (B1) into the flute of the top tube and fully roll up. Tie up the roller assembly (Figure 6a).

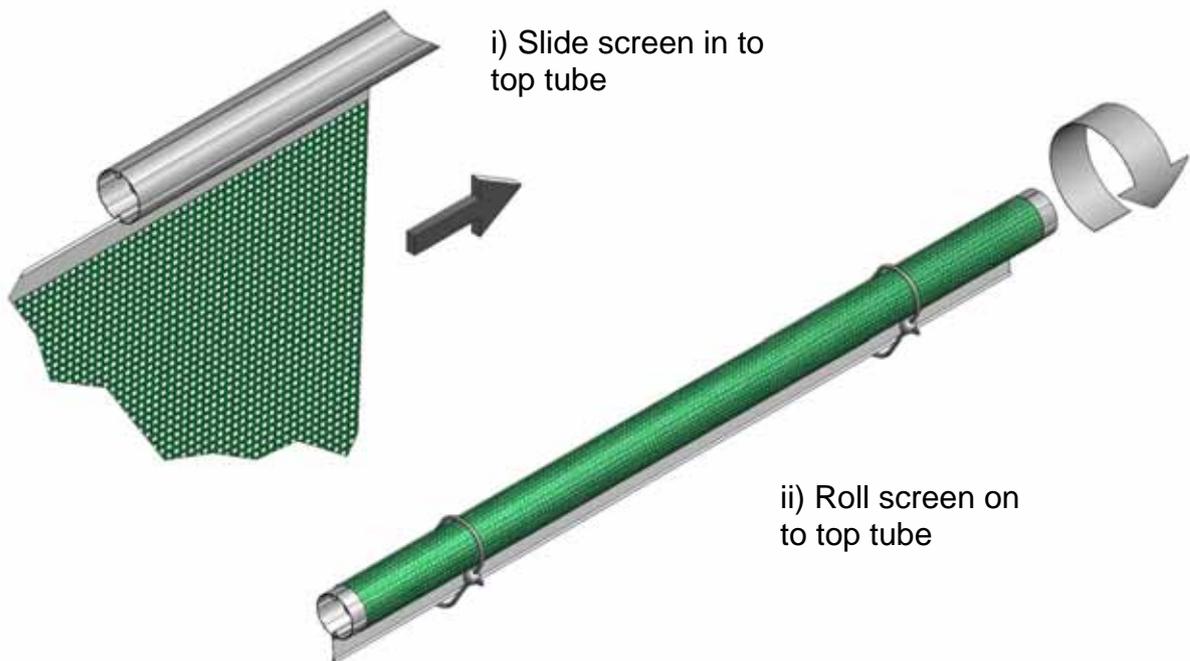
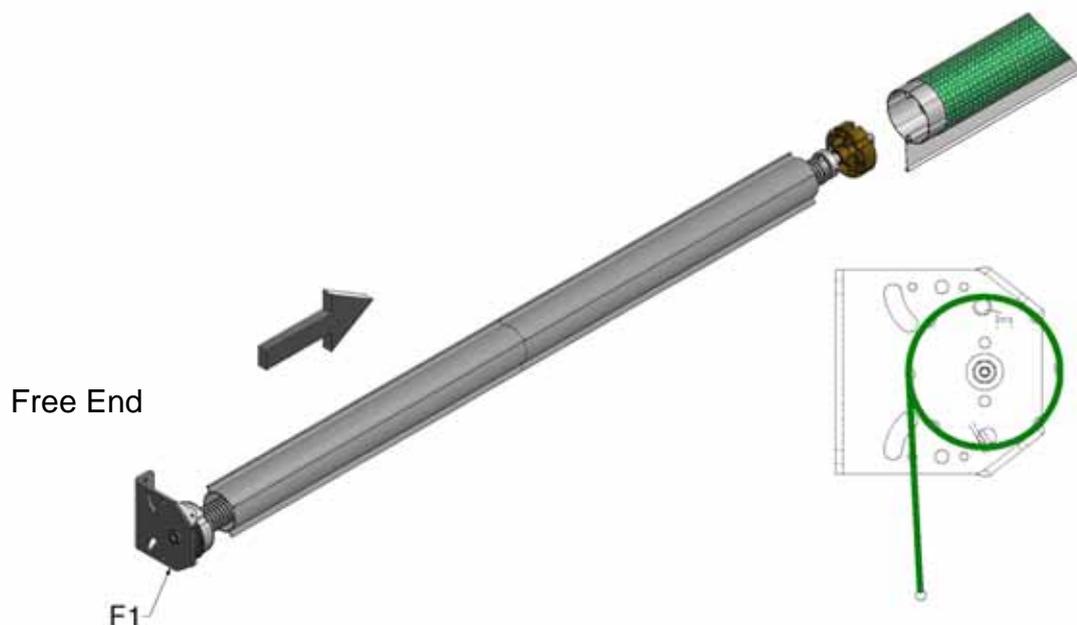


Figure 6a, Fabric Attached to Top Tube and Rolled Up

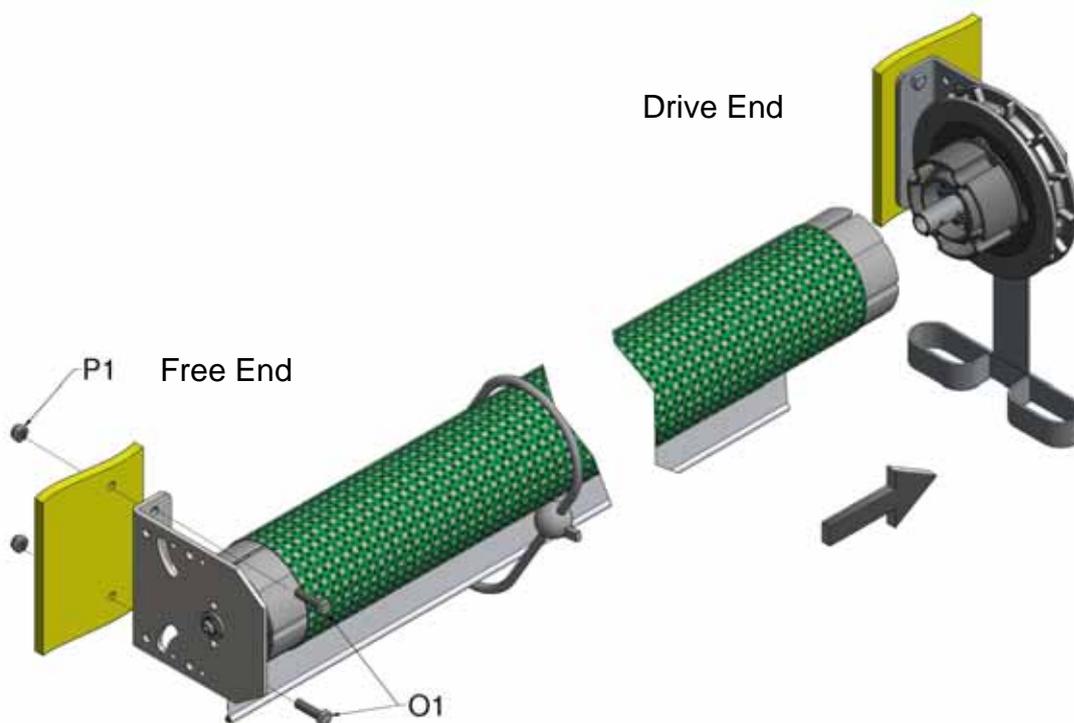
Slide spring assembly (F1) into opposite end to the drive bracket (D1). Lift assembly into position, checking that the fabric rolls off the back of the top tube (Figure 6b).



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*Figure 6b, Insert Spring Assembly Into Top Tube*

Locate top tube on the drive collar and bolt the free end (spring) bracket to building with M8 fixings supplied (Figure 6c). If optional cowling has been supplied, fit cowling brackets at this stage, see Point 11.



*Figure 6c, Bolt Free End Bracket to Building*

	<p><b>ATTENTION:</b> Check the material rolls off the back of the top tube and the spring is in correct position. It is vital these instructions are followed correctly; otherwise the spring will be damaged.</p>
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6. Feed the operating chain (G1) around the chain wheel, through the chain guide and trim to length if required. Make chain into a continuous loop by cutting through one link, bending open and rejoining the ends. After closing, file away any sharp edges to ensure the chain does not injure operators; it is unnecessary to weld the link shut. Install the chain tensioner (H1) with two M8 fixings. The height of the chain tensioner depends upon your installation, but is typically 1.5m high.

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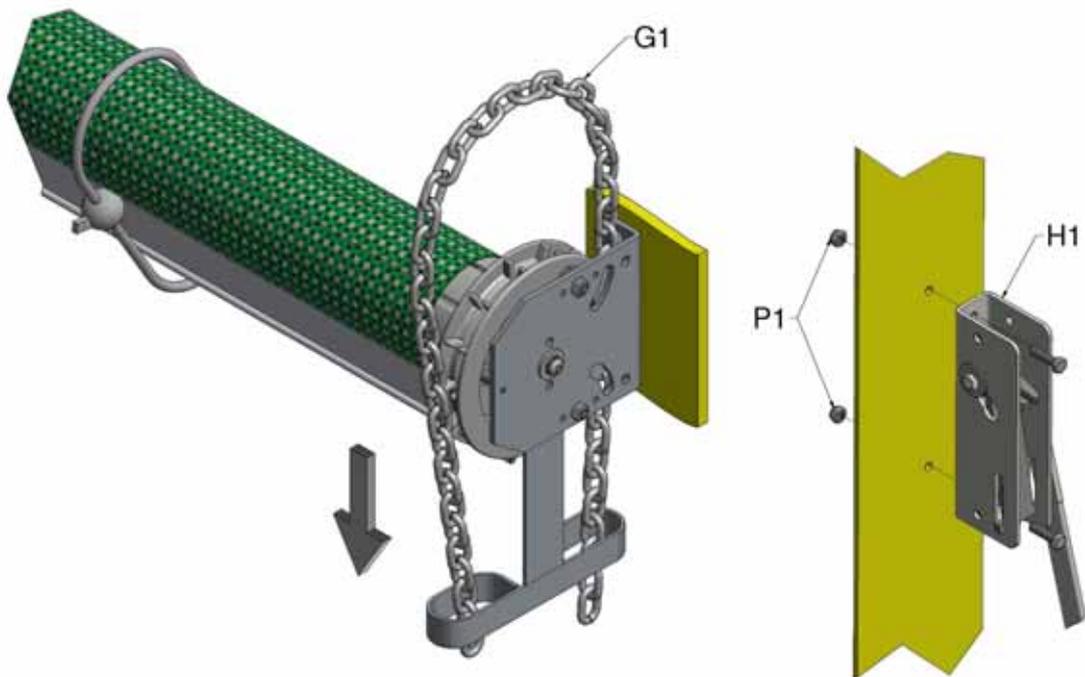


Figure 7, Installation of Operating Chain and Chain Tensioner

<p><b>NOTE:</b> If you wish to fit the chain tensioner to the Left Hand side, refer to instructions in Appendix II.</p>
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7. Pre-tension the spring mechanism by rotating the roller assembly in the direction shown in Figure 8, this is done by pulling down on the inner chain as shown. The number of pre-tension turns is given in the table below. When the required number of turns has been reached, lock the operating chain into the chain keep.

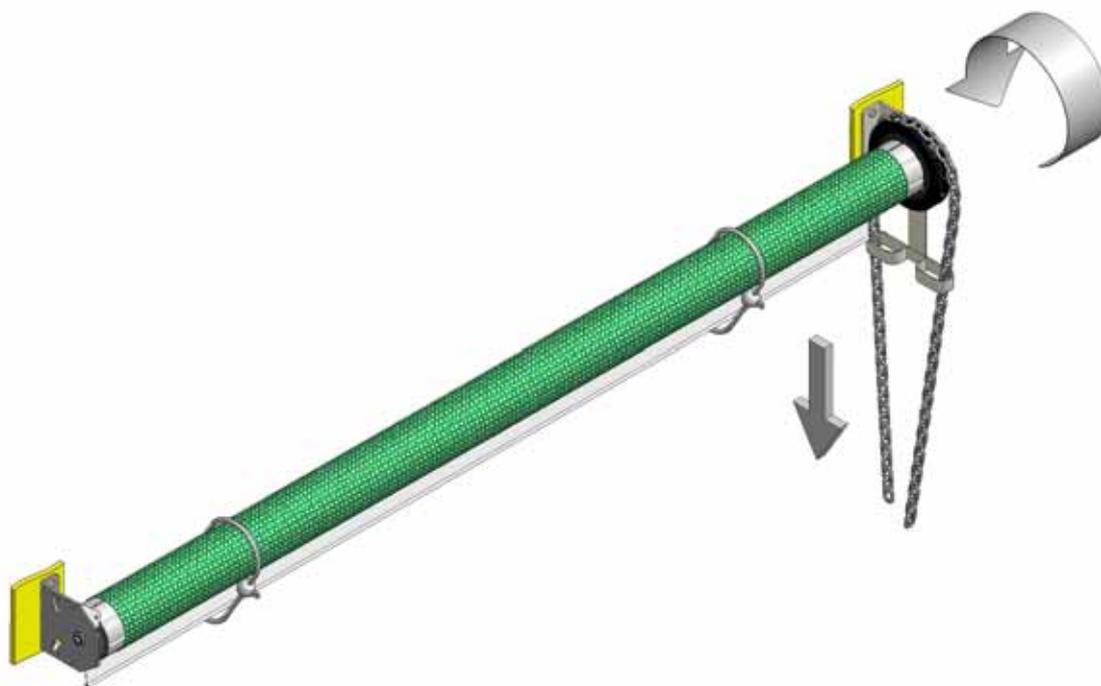


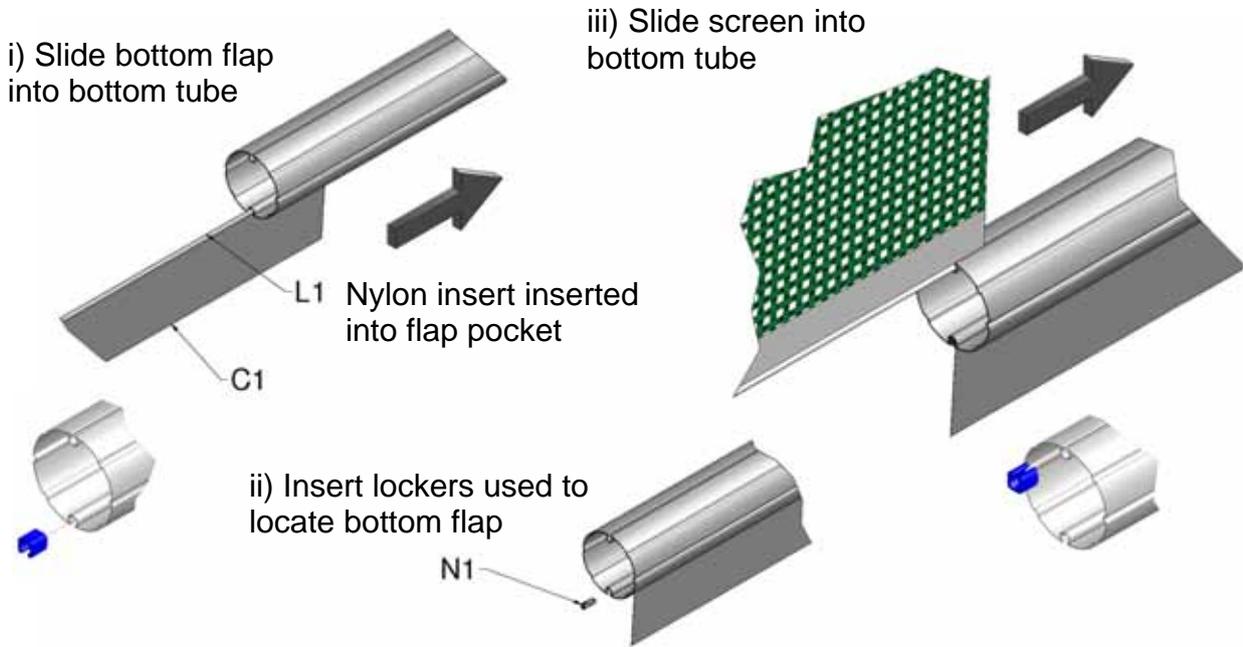
Figure 8, Tensioning of Spring

WIDTH	HEIGHT & No. OF TURNS		
	3.1m	4.1m	5.1m
2.5m	8 (2.32m spring	8	8
3.0m	9 with red tag)	9	9
3.5m	10	10	10
4.0m	11	11	7
4.5m	8 (2.97m spring	8	8
5.0m	9 with blue tag)	9	9
5.5m	9	9	N.A.
6.0m	10	10	N.A.

**NOTE:** Additional pre-tension: Add one extra for doors supplied with 'HP' fabric, and two extra for doors supplied with black Stockscreen and solid fabrics.

 **ATTENTION:** To prevent spring damage, do not over-tension.

8. Untie the top tube assembly and roll the door down. Cut to suit and slide nylon insert (L1) into pocket of flap (C1), Figure 9a. Slide flap into bottom tube and secure each end with insert lockers (N1). Slide the bottom tube onto the screen material.



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Figure 9a, Attaching Bottom Tube

Push end caps (J1) onto bottom tube making sure the drainage holes are located vertically. Fix with 2 no. self-drilling screws to each cap (Figure 9b).

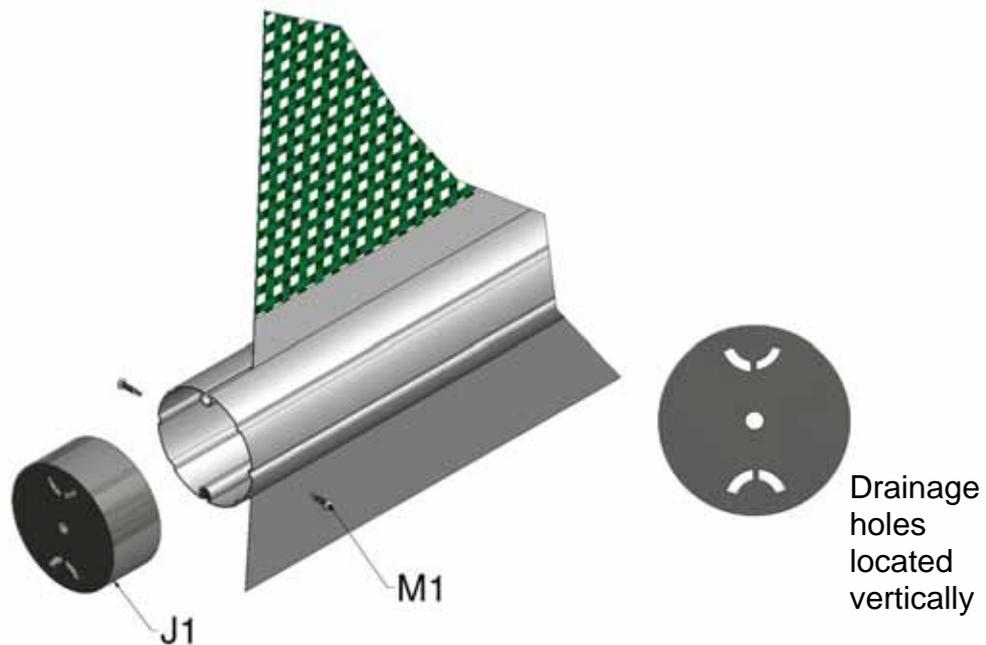
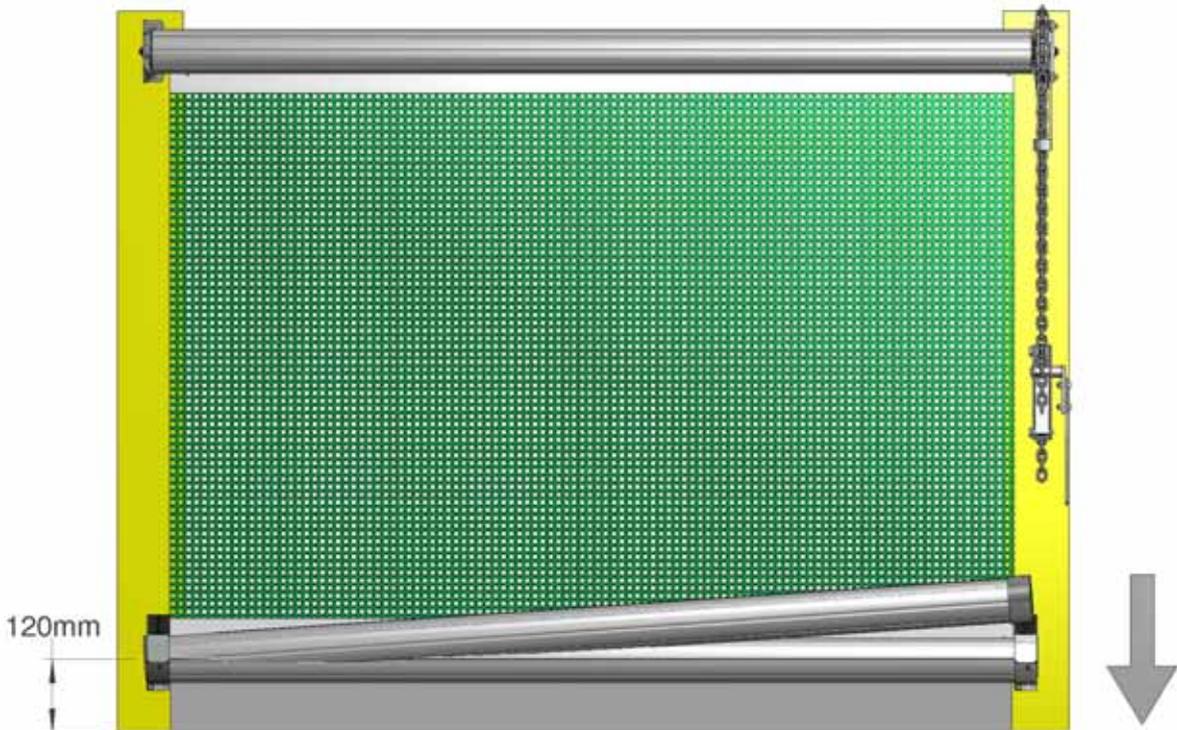


Figure 9b, Attach End Caps to Bottom Tube

***'J' Bracket Installation***

9. Fit one 'J' bracket (I1 and I2) at the desired level with the M8 fixings supplied. 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.

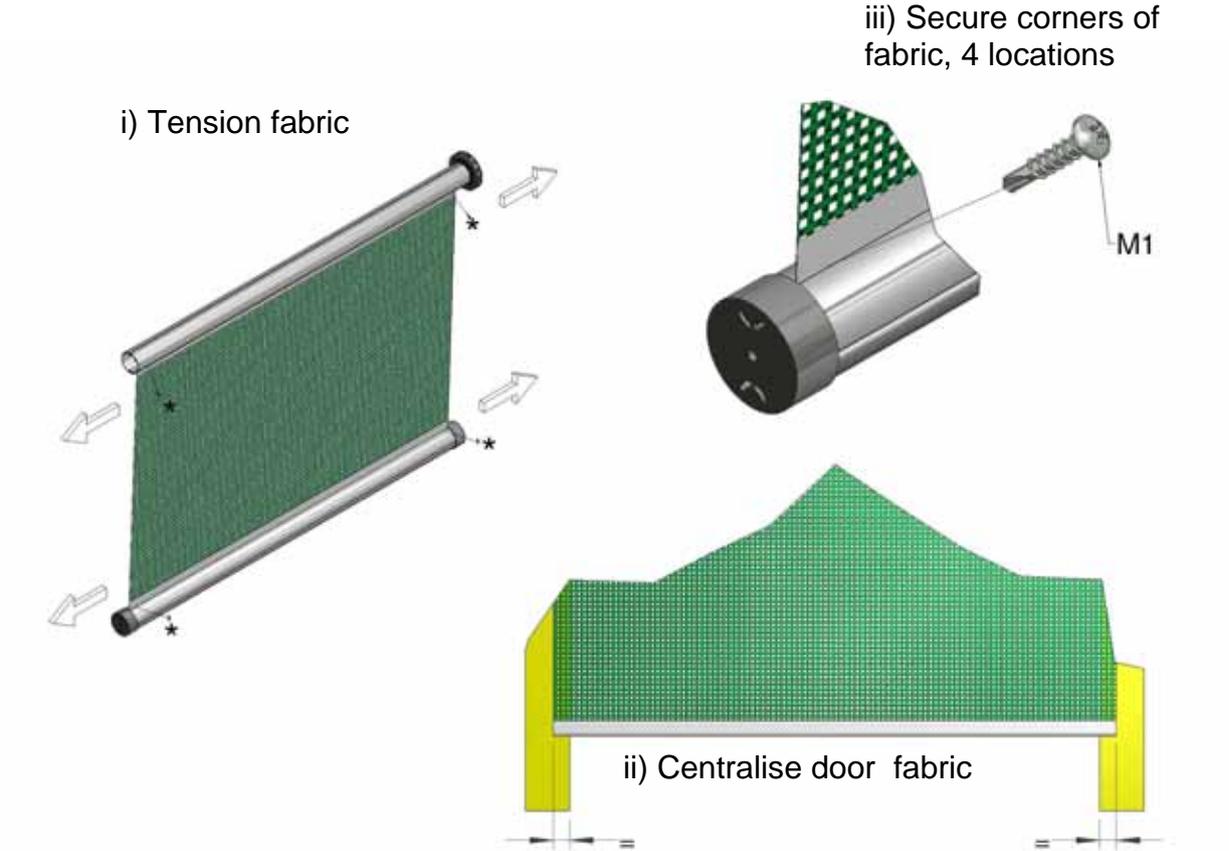
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*Figure 10, Attaching 'J' Bracket to Building*

***Securing Fabric***

10. Lower your door fully, check position of the screen and secure each corner using 19mm self-drilling screws supplied (M1). It is important to tension sheet sideways before fixing to remove creases (Figure 11). Finally adjust the operating chain such that when the door is lowered the joining link is situated below the chain keep. During high winds there is considerable force on the chain between the wheel and the keep and there is the risk that the joint would fail in these circumstances.

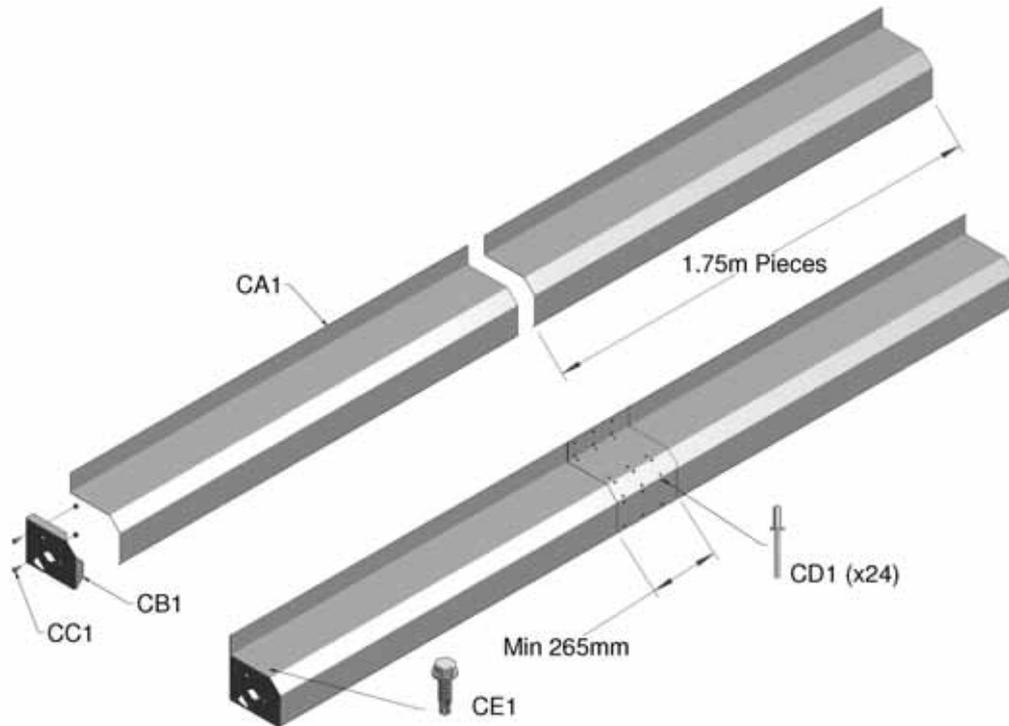


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Figure 11, Centralising Screen

**Installing Door Cowling (Optional)**

11. Door Cowling (Optional at extra cost)



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	6	M5.5 x 19 Self Drilling Screws
CF1	1	5mm Drill for rivets (not shown)

Figure 12, Door Cowling Assembly

- C1. Fit the cowling ends (CB1) to the outsides of the drive & free end brackets using the M8x20 hex bolts and nuts.
- 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, Figure 17.

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

12. CE Marking Products under Construction Products 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 product under the Construction Products Directive 89/106/EEC.** 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 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 /     RR            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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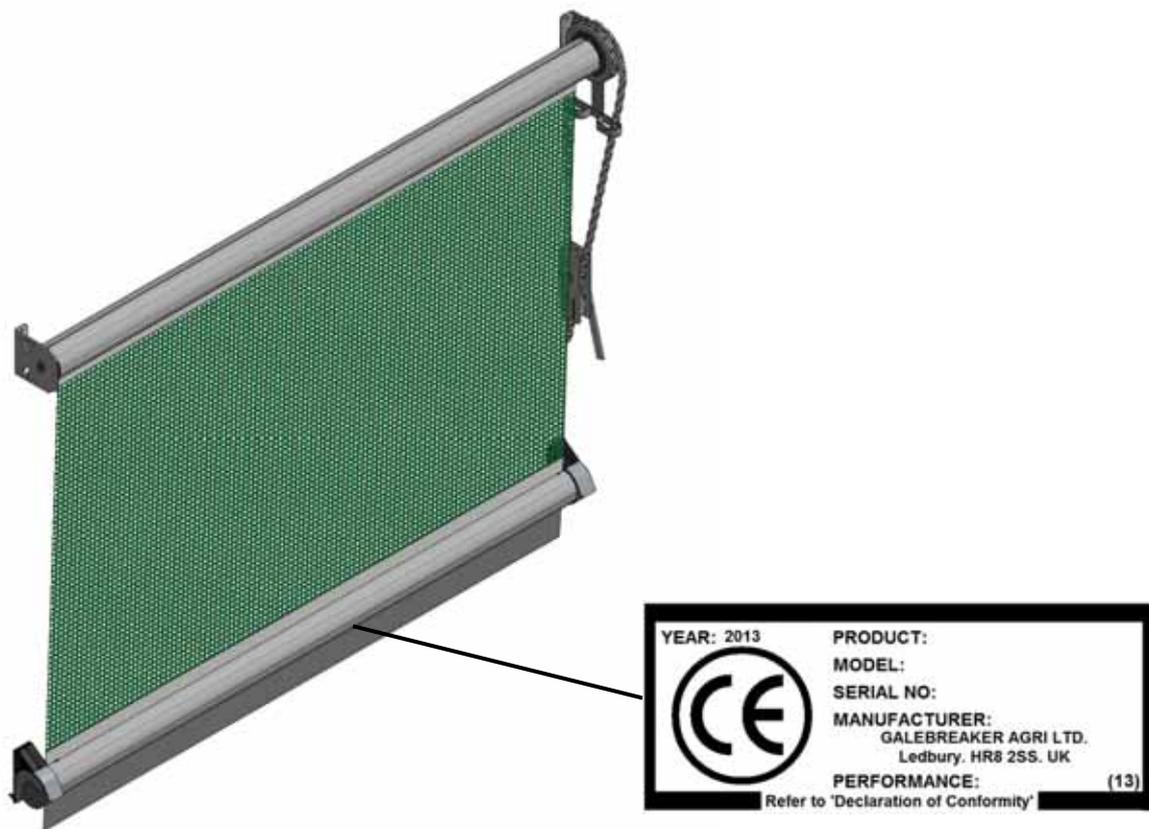


Figure 13, CE Label Location

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

## **OPERATION AND MAINTENANCE**

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

From the open position, pull down on inner chain until the lower tube is below the 'J' brackets (M1). Pull down on outer chain to raise the screen into the cup of the 'J' brackets. Continue to pull on the chain until the screen is taut. Raise the handle of the chain tensioner and insert the nearest link of the outer chain into the hook slot. Push the lever fully down to tension the door. To open, lower the bottom tube to beneath the 'J' brackets. Pull bottom tube clear of 'J' Brackets (M1) and pull chain to raise door.



**CAUTION: The chain must be secured using the chain tensioner to prevent the screen unwinding from the top tube. Take care when operating the product on windy days.**

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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 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.
- 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.

- If the chain tensioner becomes stiff to operate apply a thin layer of grease to either end of the pivot shaft and to the outer walls of the two slots.
- 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. In particular ensure all spring tension is removed before unbolting the top brackets to remove the roller assembly and recoil spring.



**CAUTION:** To prevent injury ensure spring has no residual tension before removal.

**NOTE:** 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 two years, followed by a three year graduated guarantee.**

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

**Wind Load Resistance:**

**Mesh 75% Solid**

**Up to 25sqm = Class 5**

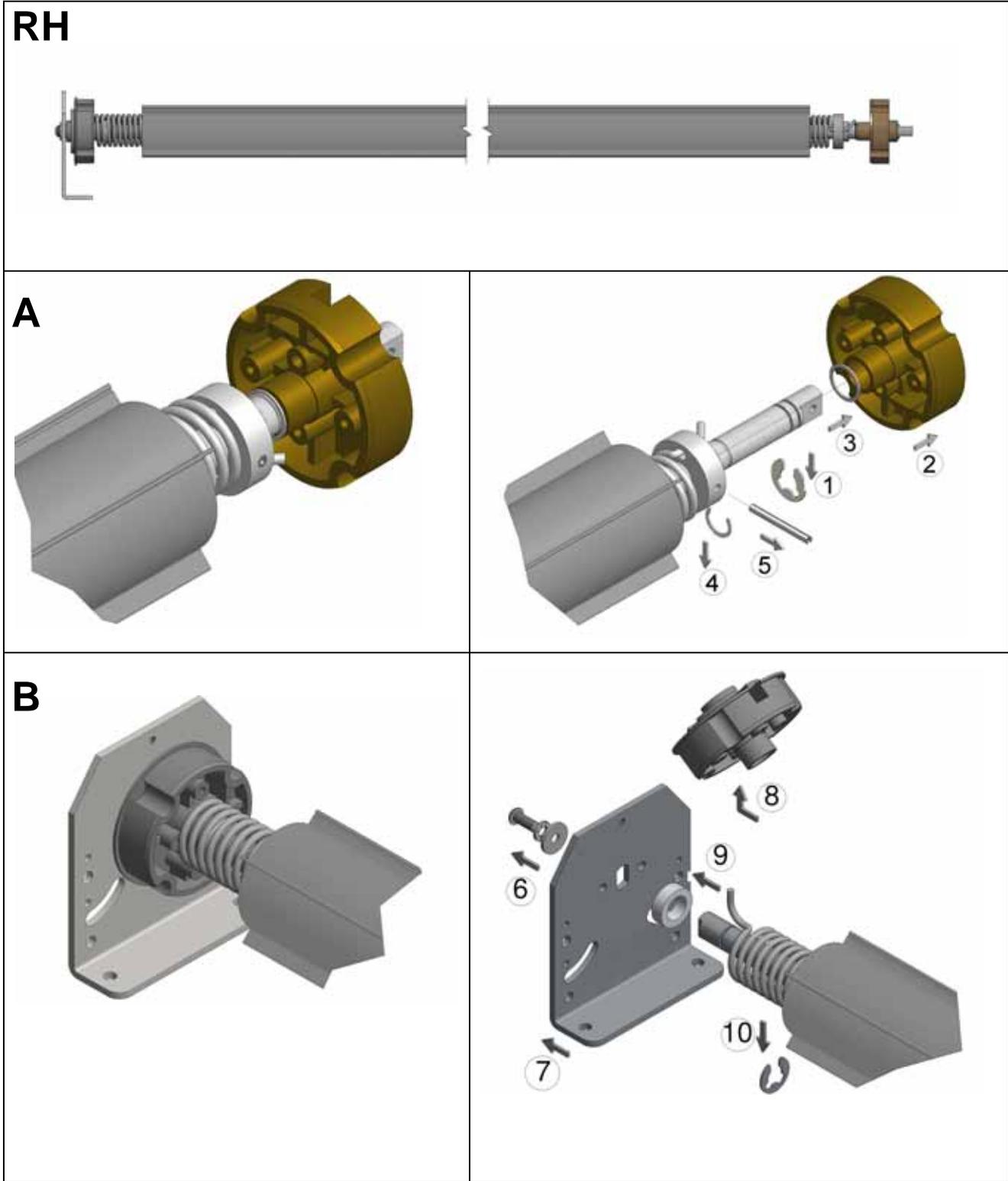
**Solid Material**

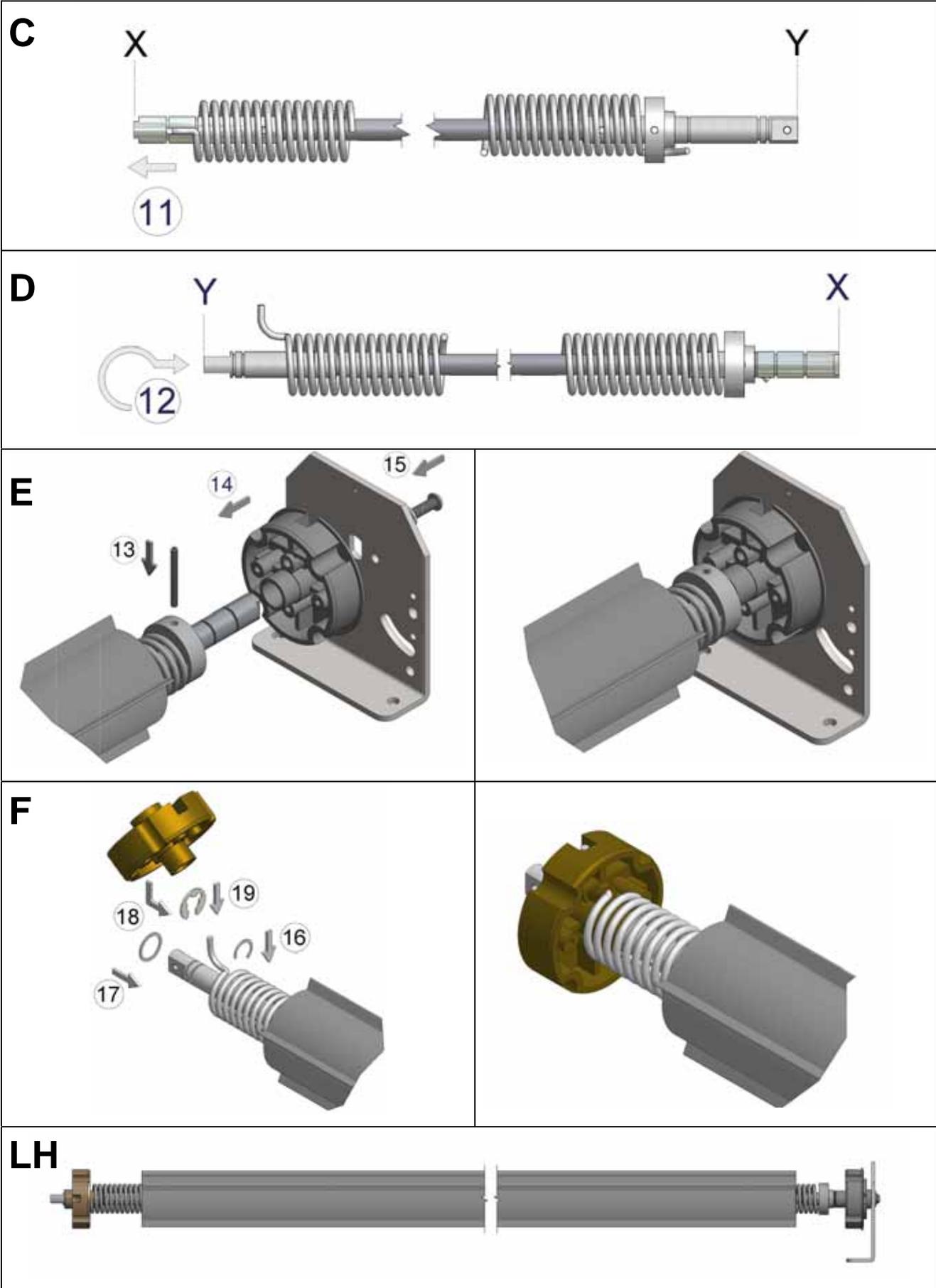
**Up to 25sqm = Class 5**

**RIGHTHAND TO LEFTHAND SPRING CONVERSION**

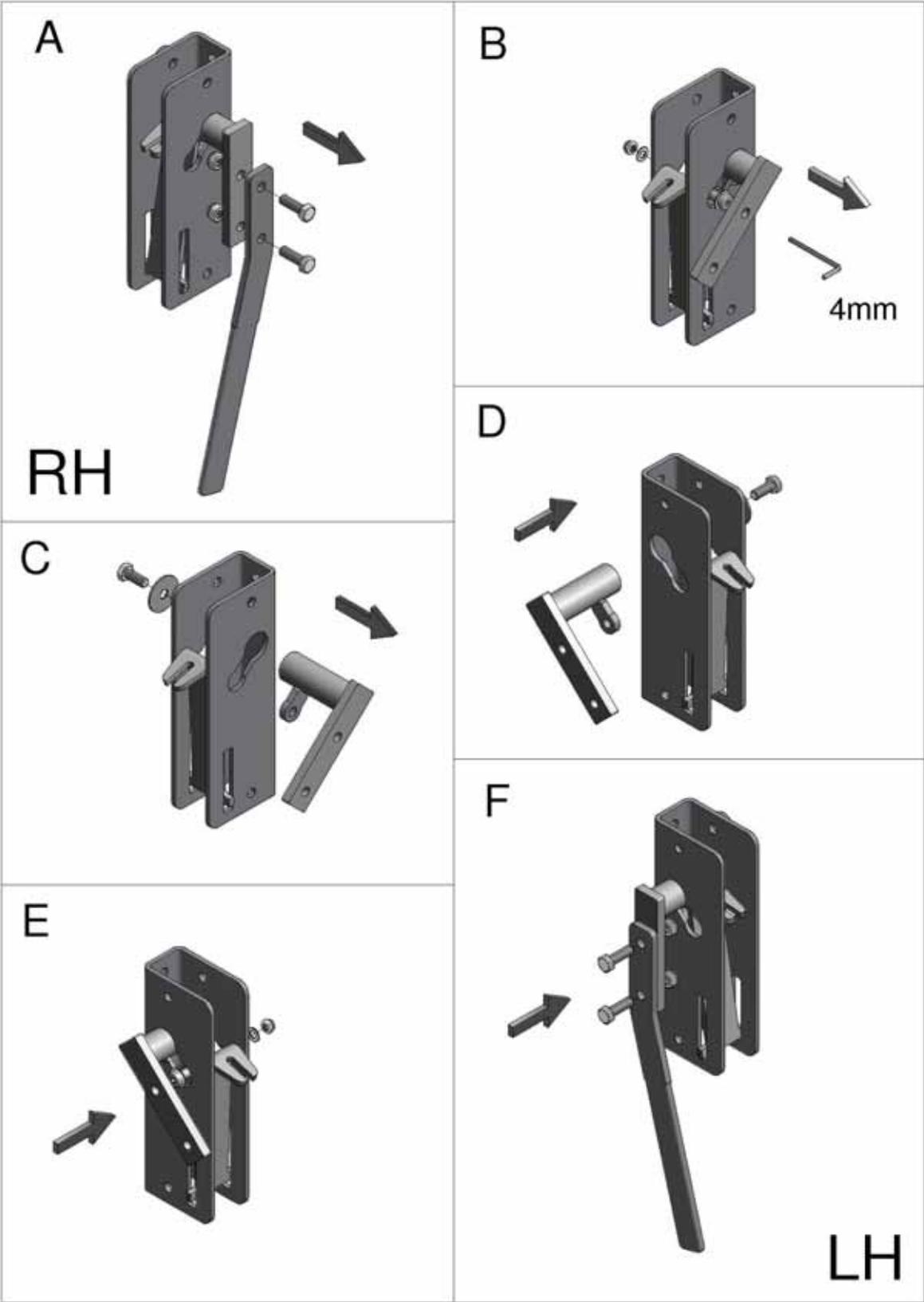
RH = Drive bracket on the right with spring bracket on left

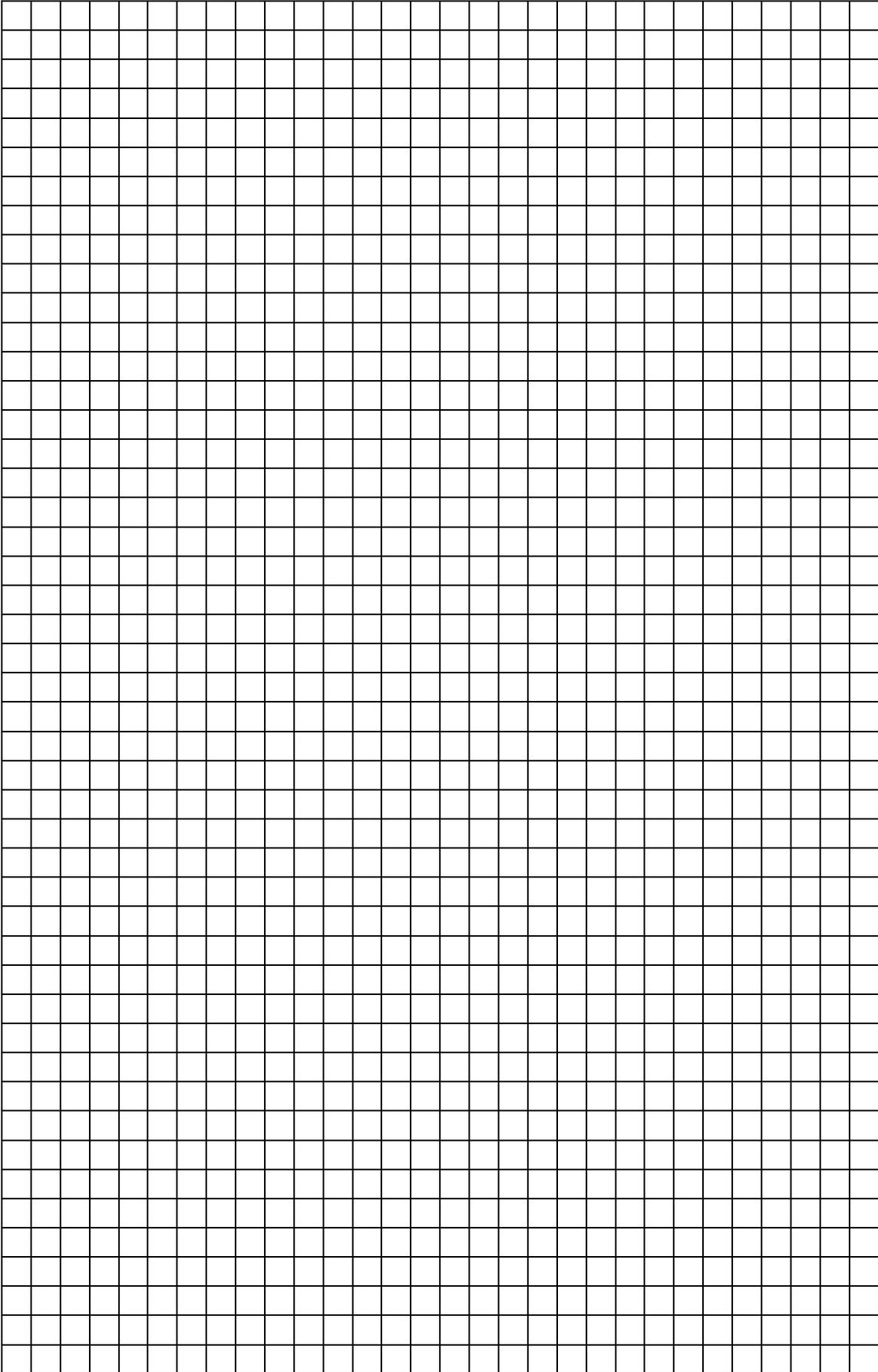
For LH to RH conversion, follow instructions in reverse order

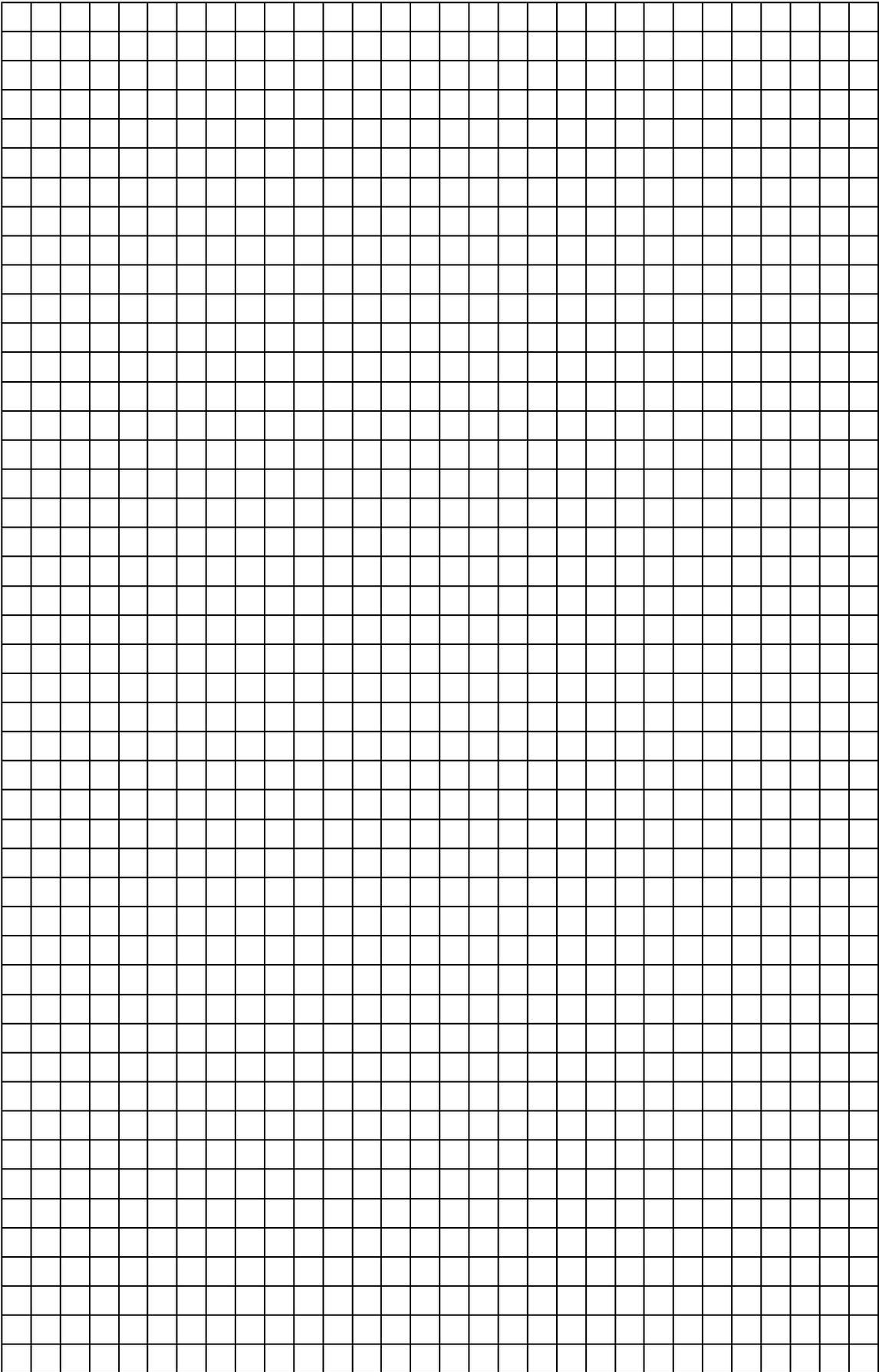




**RIGHTHAND TO LEFTHAND CHAIN TENSIONER CONVERSION**









**Manufacturer:** Galebreaker Agri Ltd  
Galebreaker House  
New Mills Industrial Estate  
Ledbury  
Herefordshire, UK  
HR8 2SS

**Tel:** +44 (0) 1531 637 900

**Fax:** +44 (0) 1531 637 901

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

Designed and Manufactured in the UK by Galebreaker Agri Ltd.,

Original Instructions

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

**Instruction Ver: 2013/07/ENG**