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Global Presence - Local Commitment



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Operation Instructions

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1. Safety

This chapter contains an overview of the Tunnel Door safety concerns and includes:

- Safety Overview
- Safety Conventions
- Cautions and Warnings
- Storage, Transport, and Installation
- EMC Safety

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Safety Overview 1.1

Plasson's Tunnel Door has been designed to meet all known safety requirements. During normal operation, the Tunnel Door presents no hazards to the operator or other personnel. However, in certain circumstances, the following potential hazards to operators and maintenance team personnel exist:

- Electrical shock (220 VAC)
- Mechanical hazard (moving parts, pinch points, etc.)
- Overhead hazard
- Heavy object hazard

The information and instructions presented in this document are intended to help personnel work with Tunnel Door in a safe, effective, and efficient manner.

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1.2 Safety Conventions

Safety information is presented as follows:

Caution is the signal word used to indicate a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also be used alert against unsafe practices.

Warning is the signal word used to indicate a potentially hazardous situation which, if not avoided, could result in death or severe injury.

Danger is the signal word used to indicate an imminently hazardous situation which, if not avoided, will result in death or severe injury. This signal word is limited to the most extreme situations.

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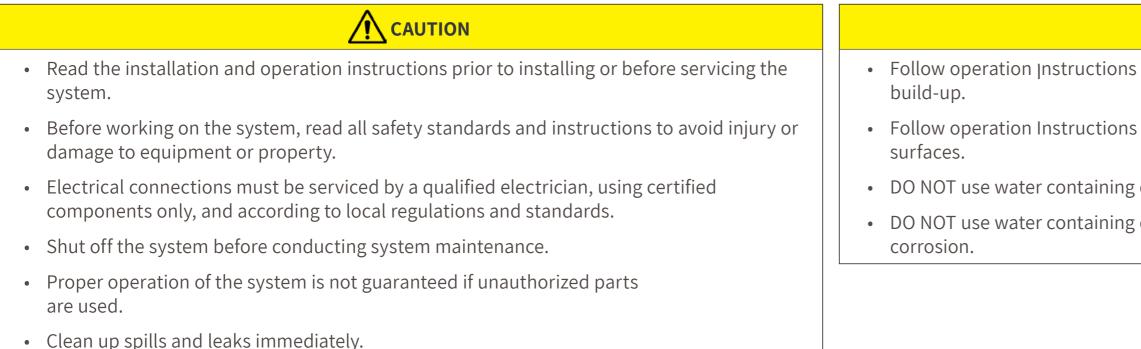
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Cautions and Warnings 1.3

The following instructions and guidelines are necessary to ensure safe operation and long system life. Before performing any work on the system, become familiar with the following safety sections:

General Safety Cautions 1.3.1



• In case of unusual or irregular noise or vibration, it is necessary to switch off the system.

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• Follow operation Instructions and maintenance procedures to prevent mineral and scale

• Follow operation Instructions and maintenance procedures to prevent algae growth on wet

• DO NOT use water containing chlorine as it will cause corrosion.

• DO NOT use water containing chlorides content higher than 200mg/l as it will cause



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General Warnings 1.3.2

• Hazardous Voltage: Contact with electrical equipment can cause electric shock or burn if the power supply is turned on. Before starting any work on electrical equipment, disconnect the machine from the power socket.

1.4 Storage, Transport, and Installation

Storage safety:

- Ambient temperature must be between 5°C and 60°C.
- System must not be exposed to humidity, rain, condensation, dust, or direct sunlight during storage.

Transport safety:

- Move the system only when empty of water.
- Move the system using appropriate lifting equipment.
- Avoid heavy vibration during transport.

Installation safety:

- use the system or be in its vicinity.

- serious injury and even death.

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• The operator is responsible for the equipment and must not allow unauthorized persons to

• Whenever you handle or repair the equipment, turn off the power supply first.

• Maintenance and repairs must be carried out by qualified technicians authorized by Plasson.

• Always use Plasson components when replacing any defective components.

• All electrical parts must be grounded and installed by a qualified electrician.

• Pay close attention to the safety symbols on the components, as carelessness can lead to



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EMC Safety 1.5

All Tunnel Door components comply with IEC EN 61000-6-3, the emission standard for residential, commercial, and light industrial environments.

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2. Introduction

This chapter introduces the Tunnel Door system and includes:

- System Concept
- System Overview
- Optional Models
- Typical Installation Layout

The Tunnel Door system must be installed by a trained and qualified personnel authorized by Plasson.

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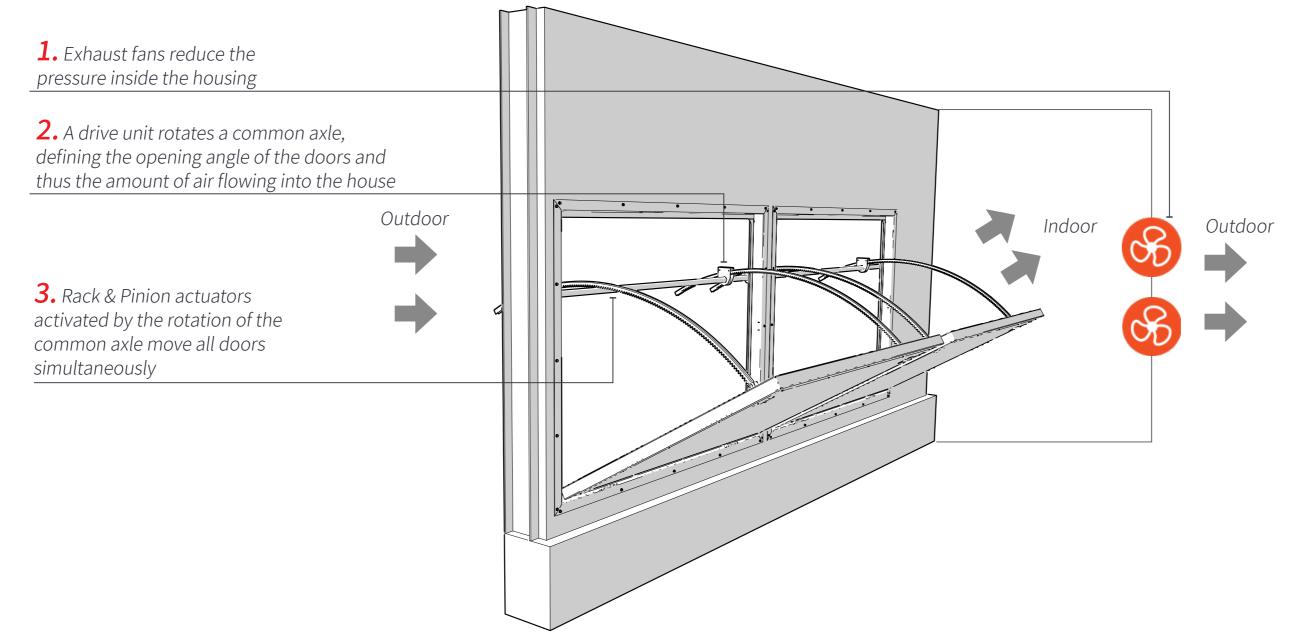
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System Concept 2.1

The tunnel door is a sub-system of the cooling and ventilation system of the chicken house. The sub-system links between the cooling pad (or other cooling system) located in the dog house, and the indoor.



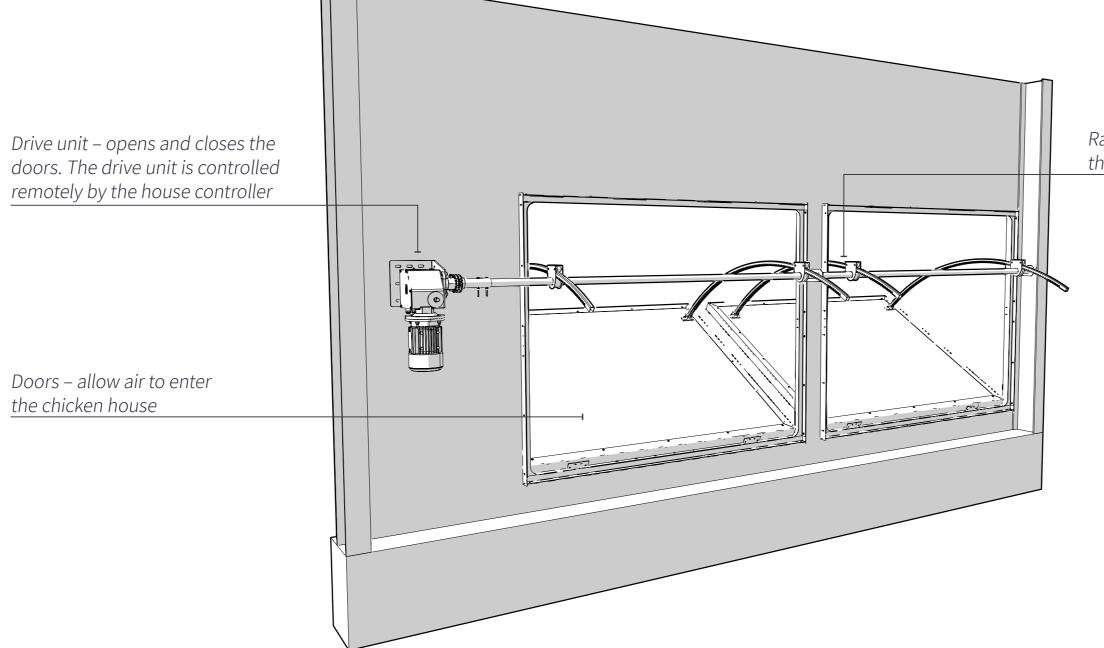
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23	PLASSON [®] Livestock	Safety	Introduction	Preparations for Installation	Installation	Operation Instructions
2.2	System Overview					
The Tu	innel Door system consists	of the follov	ving:			



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Rack and pinion – connects the drive unit to the doors



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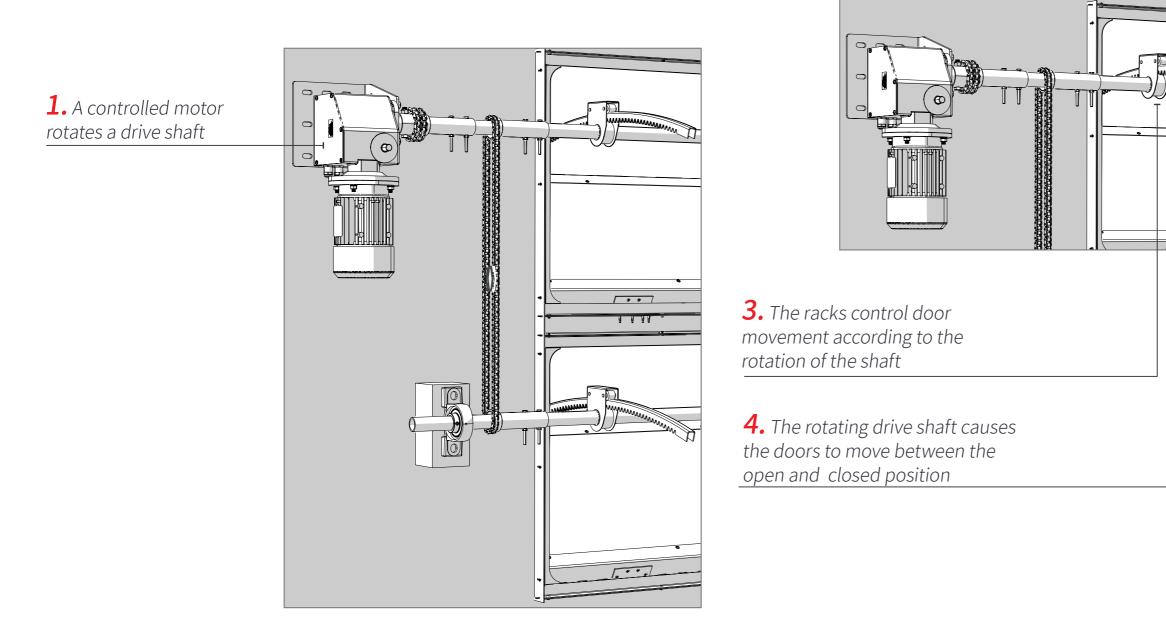
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Motion Sub-System 2.2.1

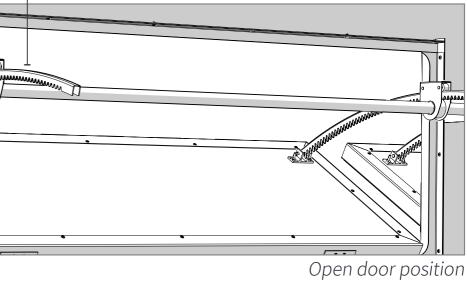
The motion sub-system consists of the drive unit and the racks and pinions. It operates as follows:

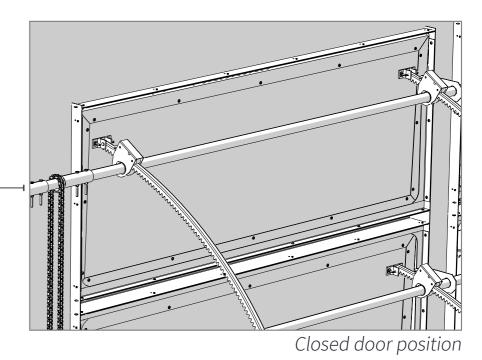
2. Pinions attached to the shaft drive the racks



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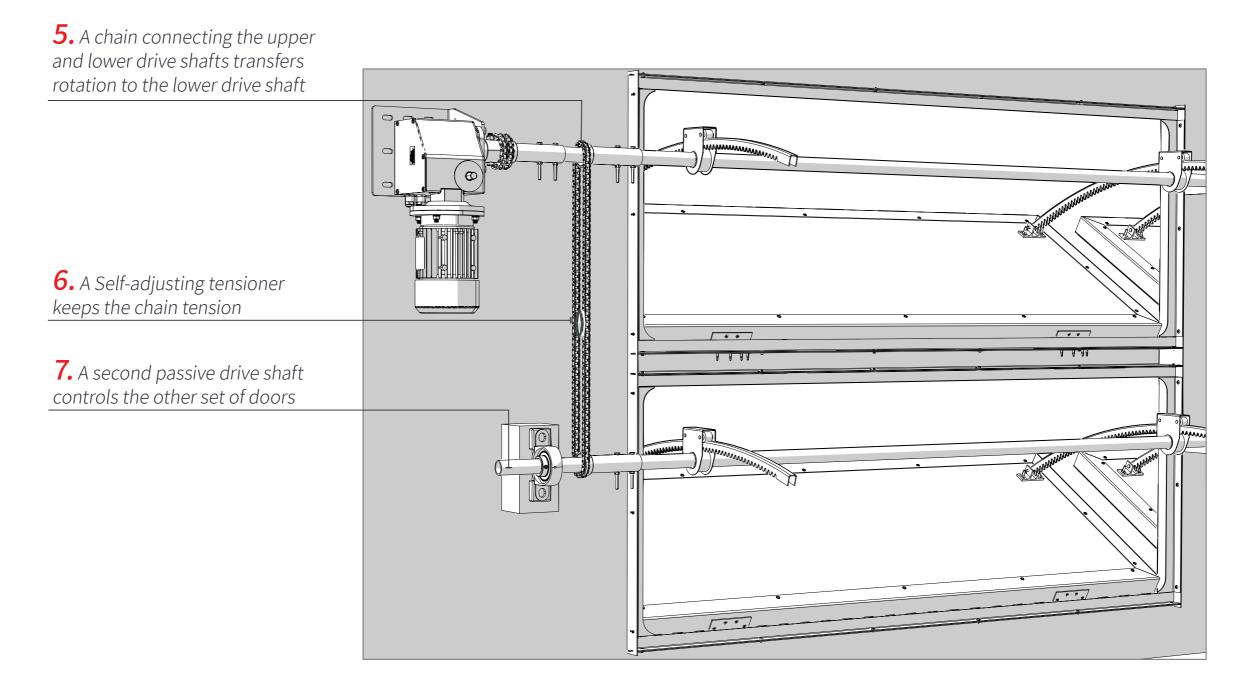
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For the double door model only:



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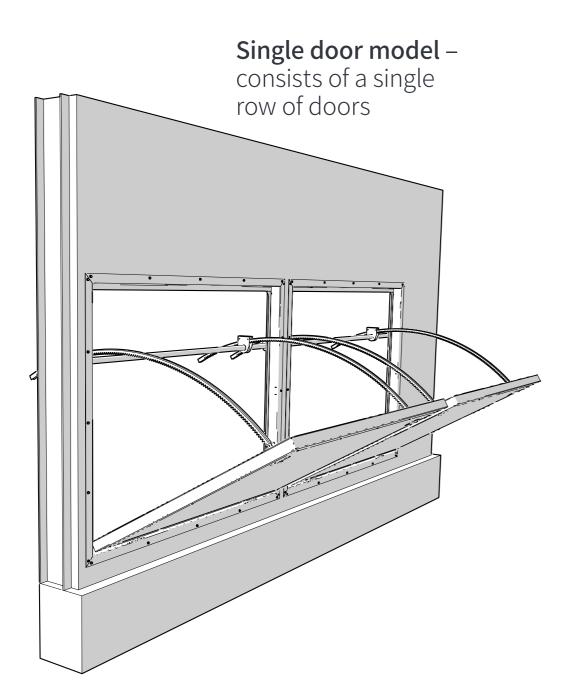
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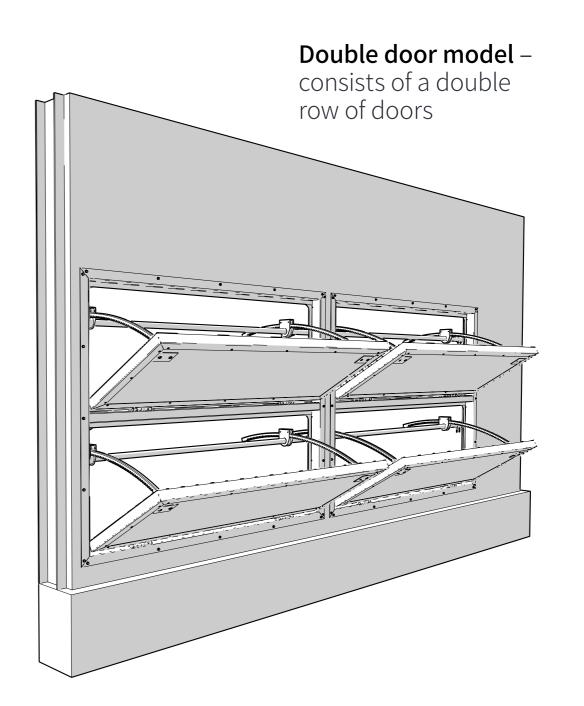
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Optional Models 2.3

The Tunnel Door system has two layouts:





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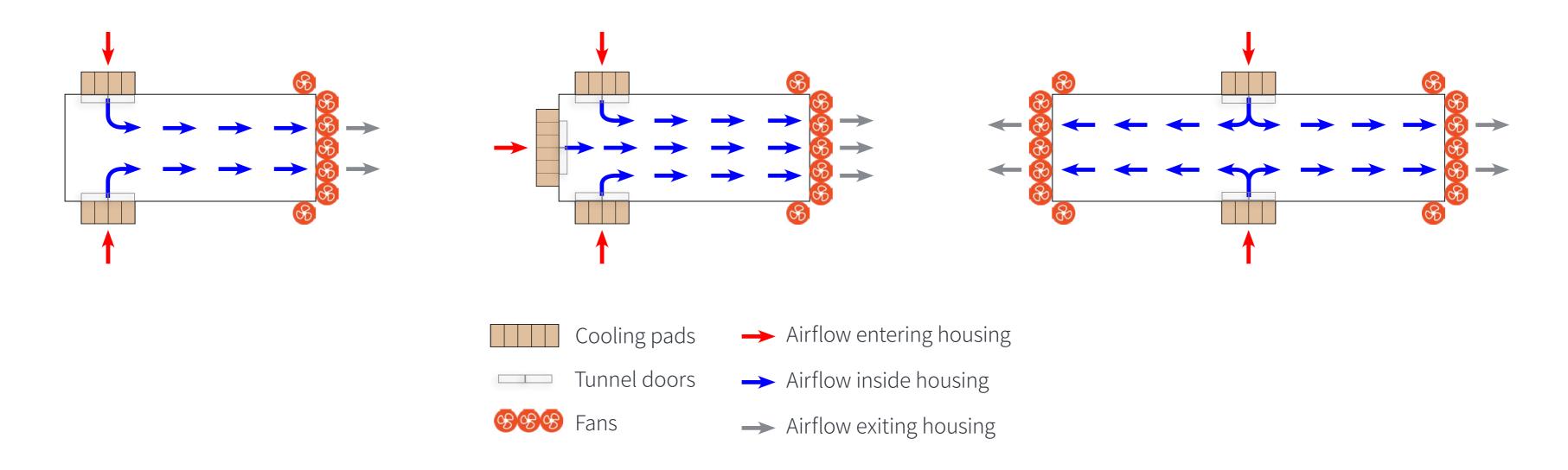
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Typical Installation Layout 2.4

The following are typical methods for installing the tunnel doors:



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3. Preparations for Installation

This chapter reviews the tasks associated with preparing the site for installation and includes:

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4. Installation

This chapter reviews the tasks associated with installing the cooling pad system and includes:

- System Unpacking
- Bill of Materials (BOM)
- Assembly Instructions
- Power and Control Connections
- Final Checkup

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System Unpacking 4.1

Open the system package and verify that all the parts listed in the BOM are located in the package and are intact. If any part is missing or damaged, contact Plasson.

NOTE:

Unpack the system in a clean and dry area.

4.2 Bill of Materials (BOM)

The following table displays the list of parts required to assemble one standard configuration of the tunnel door:

ID#	P/N	Description	QTY.
1	02381202	1650 Curve rack	2
1	02381203	1050 Curve rack	2
2	02381205	Pinion	2
3	02381200	Bearing plate	1
4	02381208	Back plate	2
5	02381251	Rack bracket	2
6	02381213	Screw M6x65	4
7	02320019	Screw M6x20	2

ID#	P/N	Description	QTY.
8	02310459	Washer 6 mm	8
9	02310428	Nut M6	6
10	02381185	Frame 1700 ¹	2
10	02381186	Frame 2700 ²	2
11	02381184	Side frame 650 ³	2
11	02381183	Side frame 1400 ⁴	2
10	02381187	L frame 1400 ⁴	2
12	02381188	L frame 650 ³	2
12	02381189	L frame 1700 ¹	2
13	02381190	L frame 2700 ²	2
14	02381215	Rubber seal (per meter)	
15	02381211	Screw M4x13	
16	02310472	Rivet M4x12	
17	02381219	Drilling screw 4.8x32	
18	02381199	Hinges	2

¹ For door width of 1700 mm

² For door width of 2700 mm

³ For door height of 650 mm

⁴ For door height of 1400 mm



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ID#	P/N	Description	QTY.
19	02382099	U profile 1700 ¹	2
19	02387101	U profile 2700 ²	2
20	02381195	U profile 1400⁴	2
20	02381196	U profile 650 ³	2
21	02382083	Drive shaft and motor mounting kit for single/double door	1
22	02381230	Chain 0.5	1
23	02381228	Sprocket	2
24	02381229	Omega Bearing	1
25	02381231	Lock 1/2	1
26	02381232	Halflink	1
27	02381233	HEX SHEET METAL SCREW 1/4"*3/4	
28	02382099	U MIDDLE FRAME 1720	1
20	02387101	U MIDDLE FRAME 2720	1
29	02310487	Screw M8x60	
30	02323069	Nut M8	
31	02381242	CLEVIS PIN	
32	02381243	SAFETY PIN (COTTER)	
33	02350160	Drive Shaft	

	la construction de la constructi
34 02381234 Chain Tensioner	

¹ For door width of 1700 mm

² For door width of 2700 mm

³ For door height of 650 mm

 $^{\scriptscriptstyle 4}\,$ For door height of 1400 mm

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Assembly Instructions 4.3

This section reviews the steps required to assemble the system and includes:

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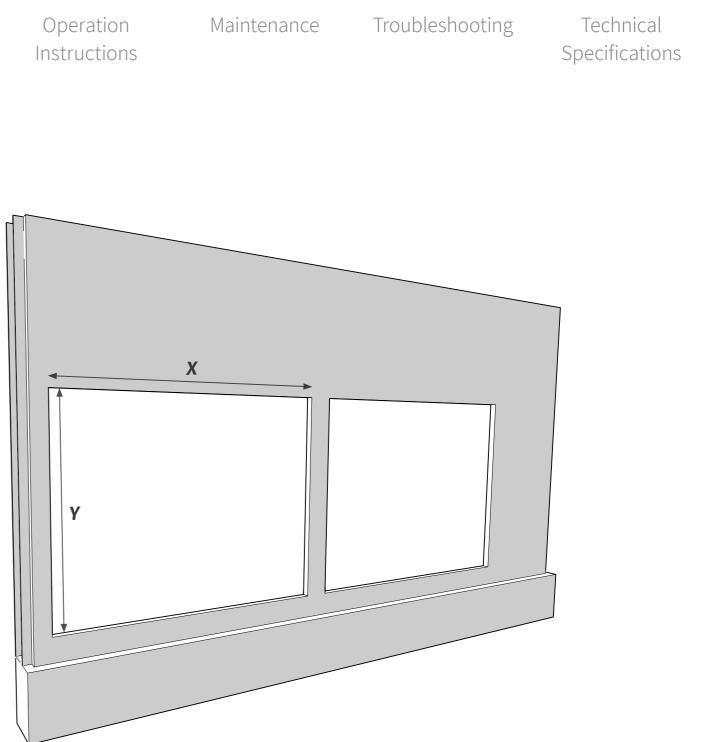
Step 1: Preparations for Installation

Prepare the wall opening according to the following table:

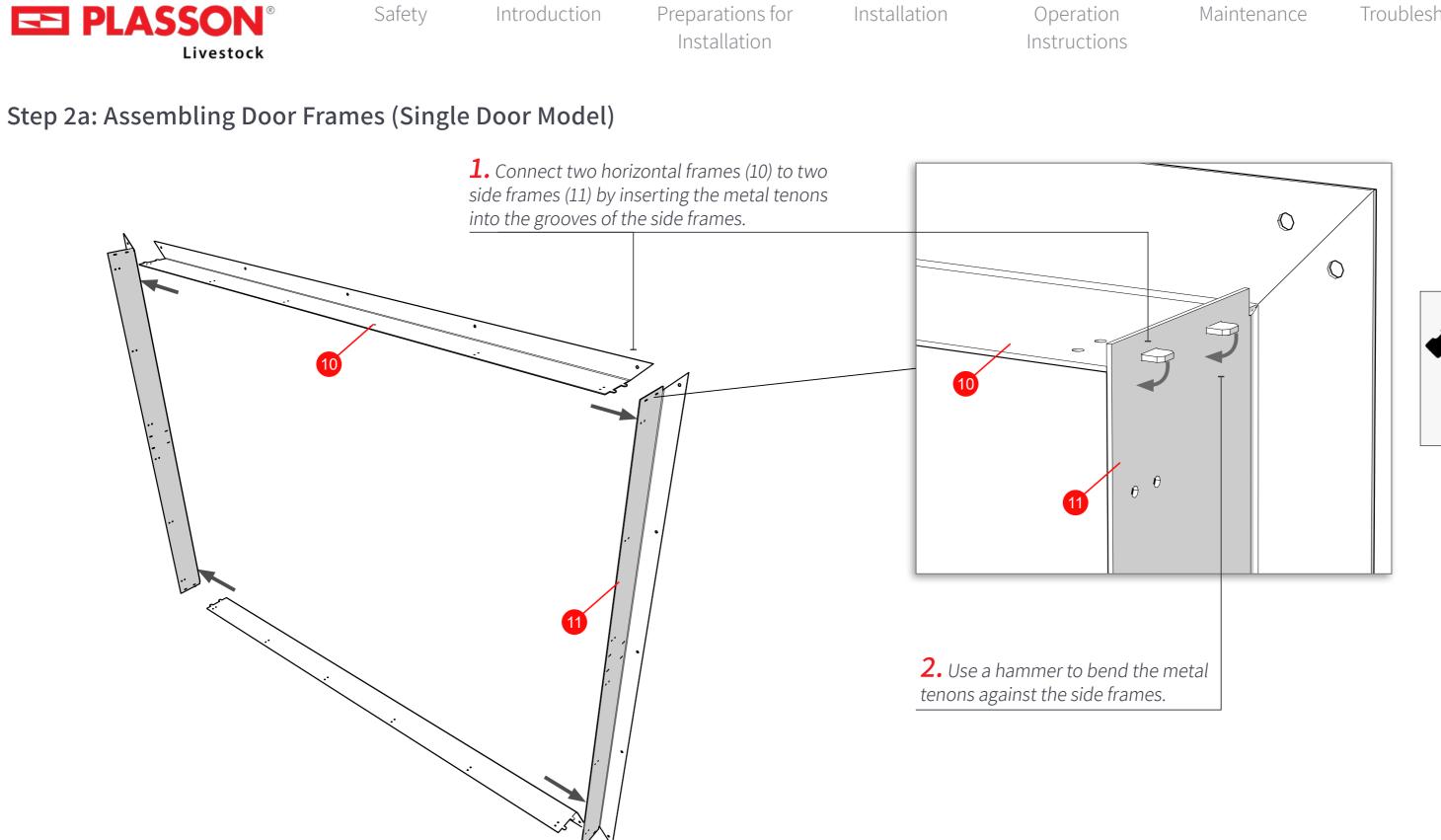
Model Type	Door Size (in mm)	Width of wall opening (X)	Height of wall opening (Y)	Number of Openings
Single door	1700 x 650	1740 mm	680 mm	1
п	2700 x 650	2740 mm	680mm	1
п	1700 x 1400	1740mm	1390mm	1
п	2700 x 1400	2740 mm	1390mm	1
Double door	1700 x 650x2	1740 mm	1390mm	2
П	2700 x 650x2	2740 mm	1390mm	2

NOTE:

The double model type frame has a middle beam (see Step 1b) which results in four openings







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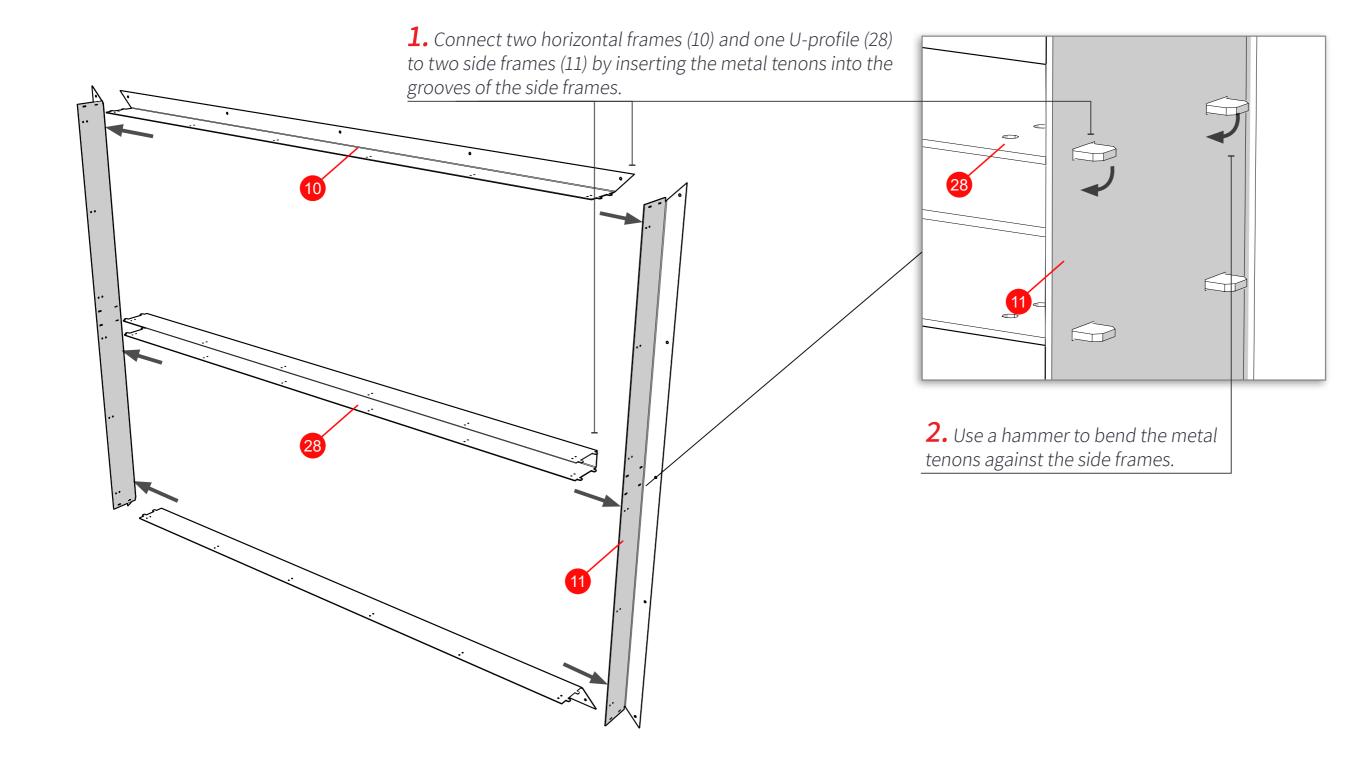
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Step 2b: Assembling Door Frames (Double Door Model)



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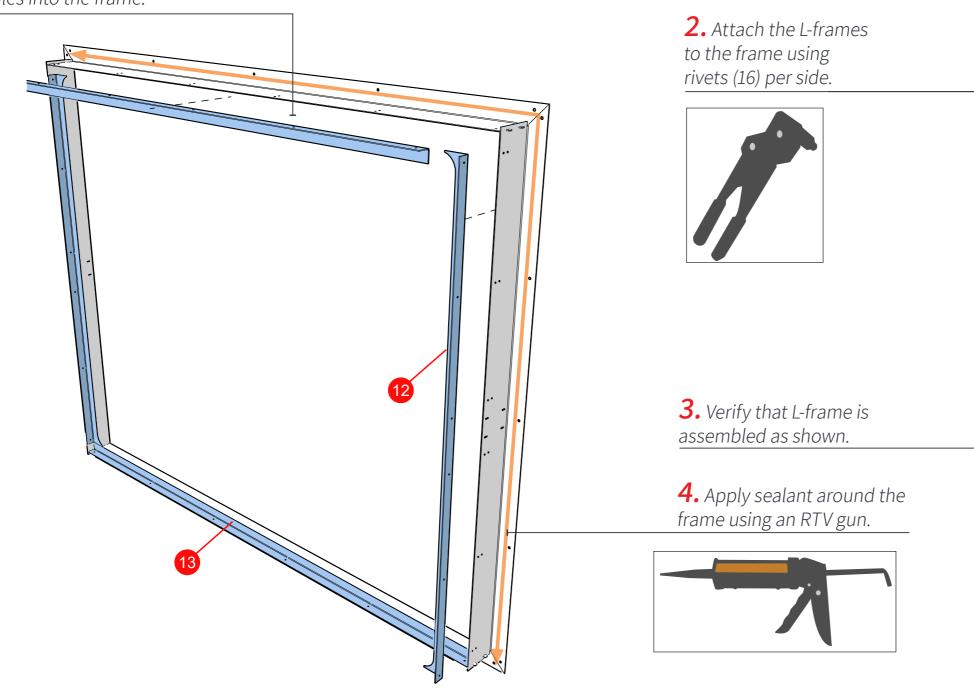
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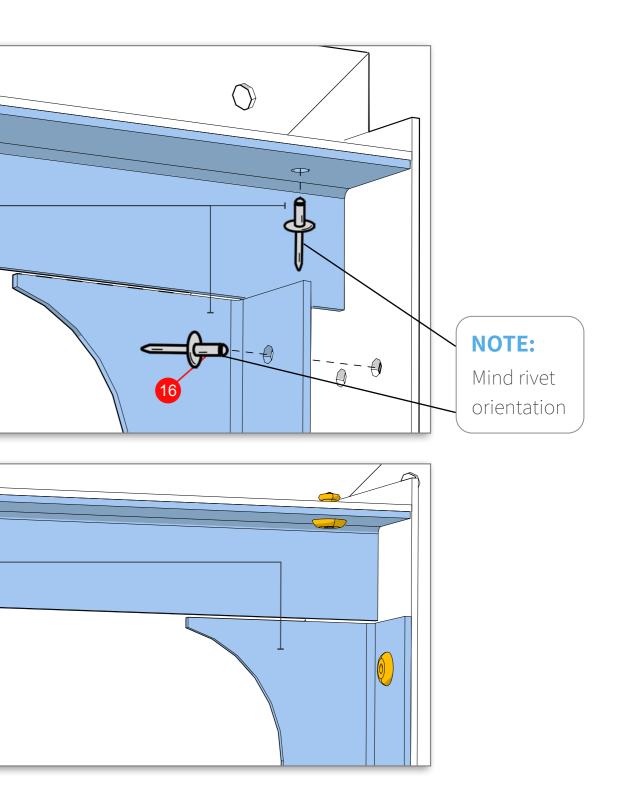
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Step 3: Assembling L-frames and Applying Sealant

1. Insert horizontal (13) and vertical (12) L-profiles into the frame.



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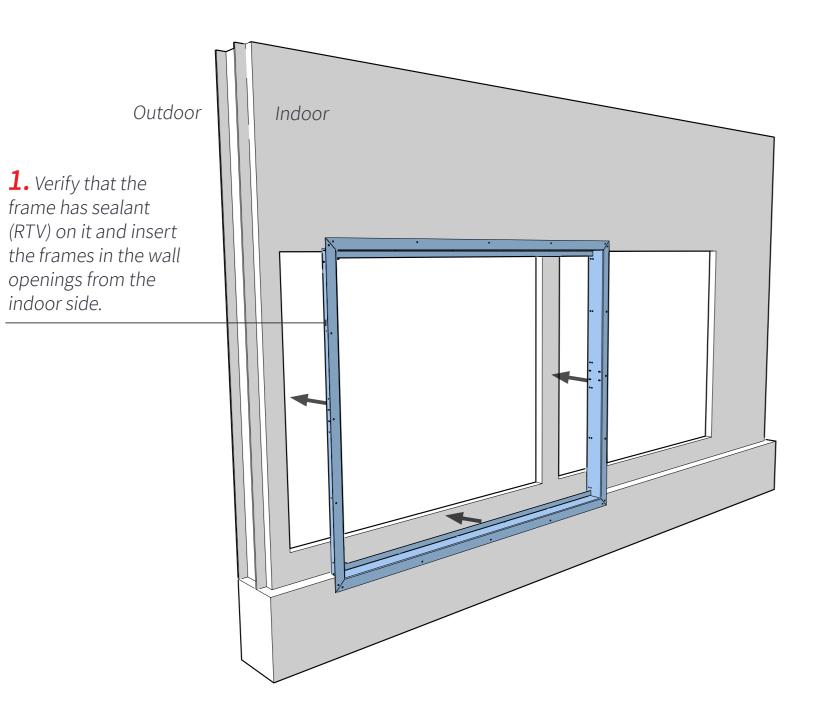
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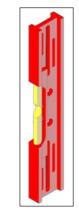
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Step 4: Placing Frames and Measuring





2. Verify that the vertical and side frames are level.

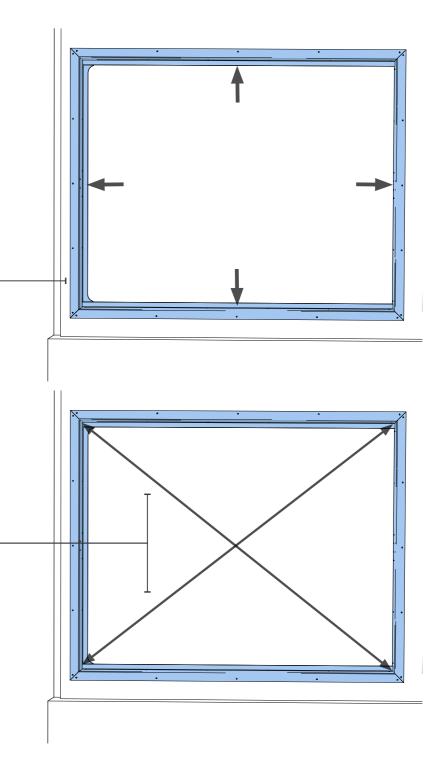
3. Ensure diagonal distances are equal.



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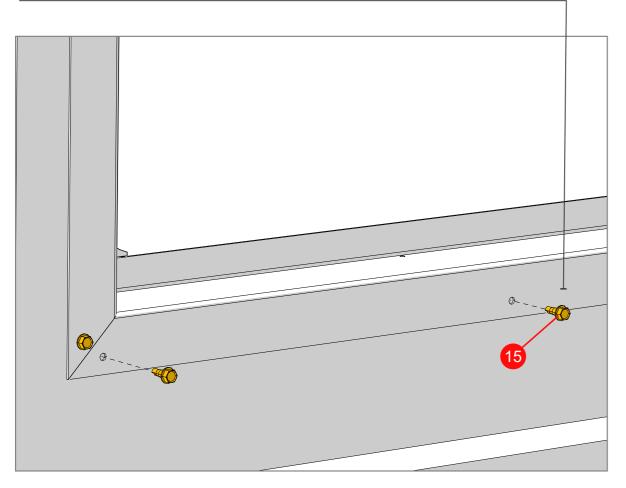
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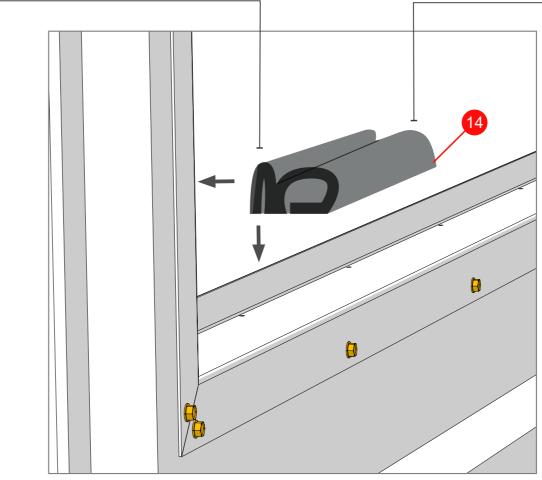
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Step 5: Mounting Frames and Attaching Rubber Seal

1. Mount the frames to the wall using screws (15).



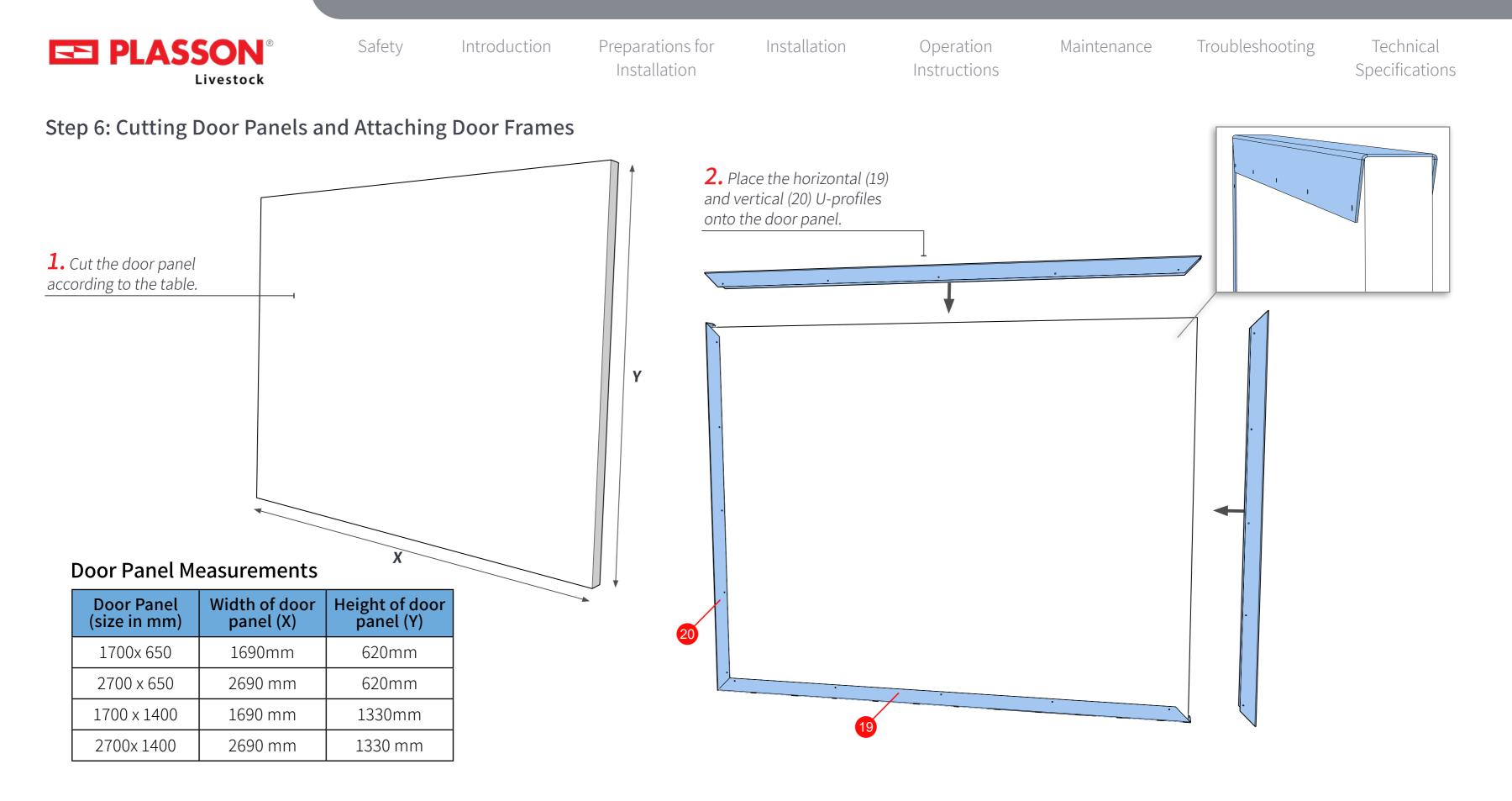
2. Attach the rubber seal (14) to the horizontal and vertical L-frames.

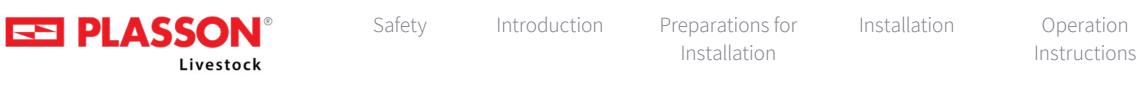


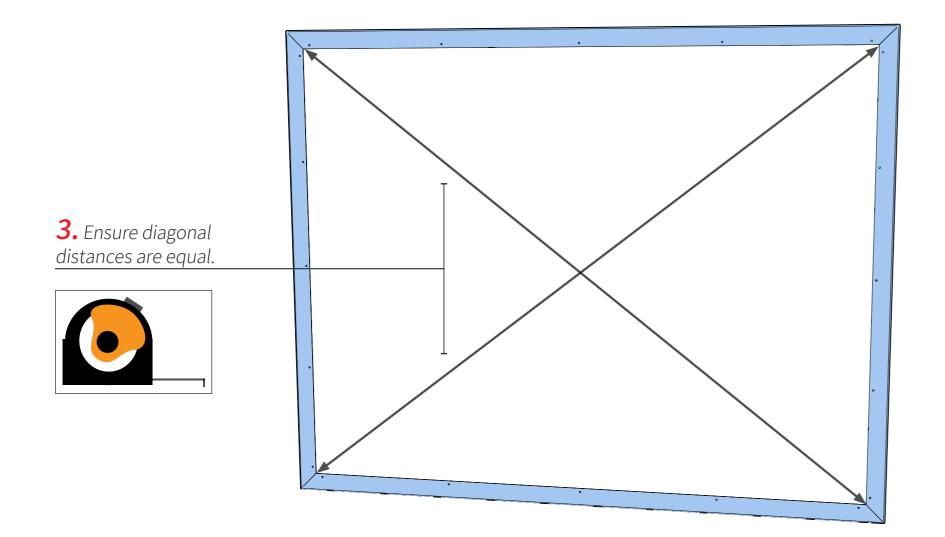
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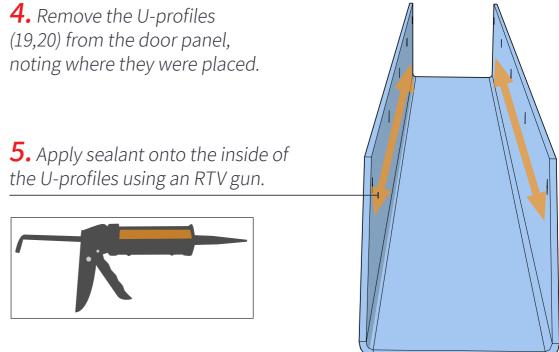
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3. Verify that the wider end of the rubber seal is placed on the frame ledge.









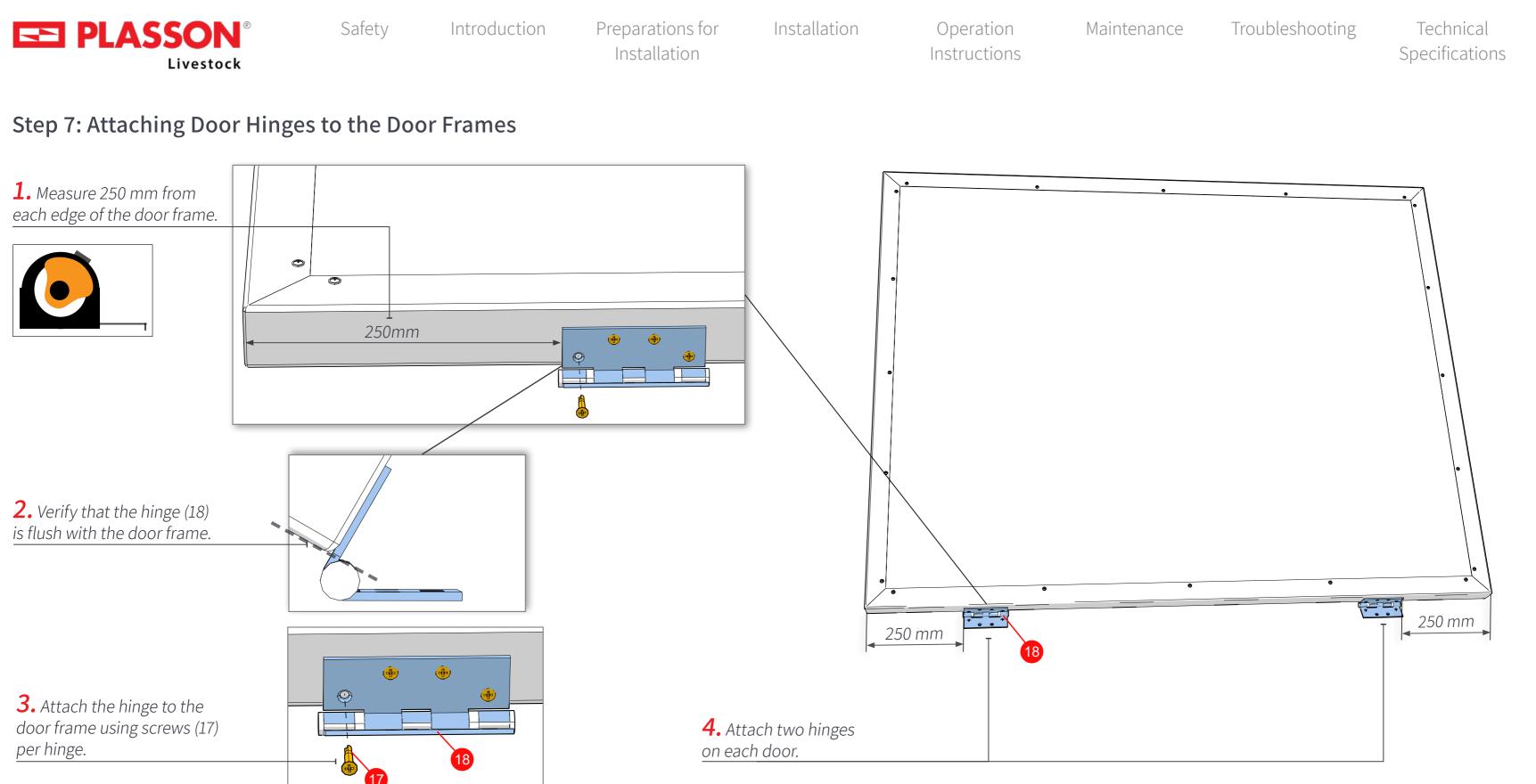
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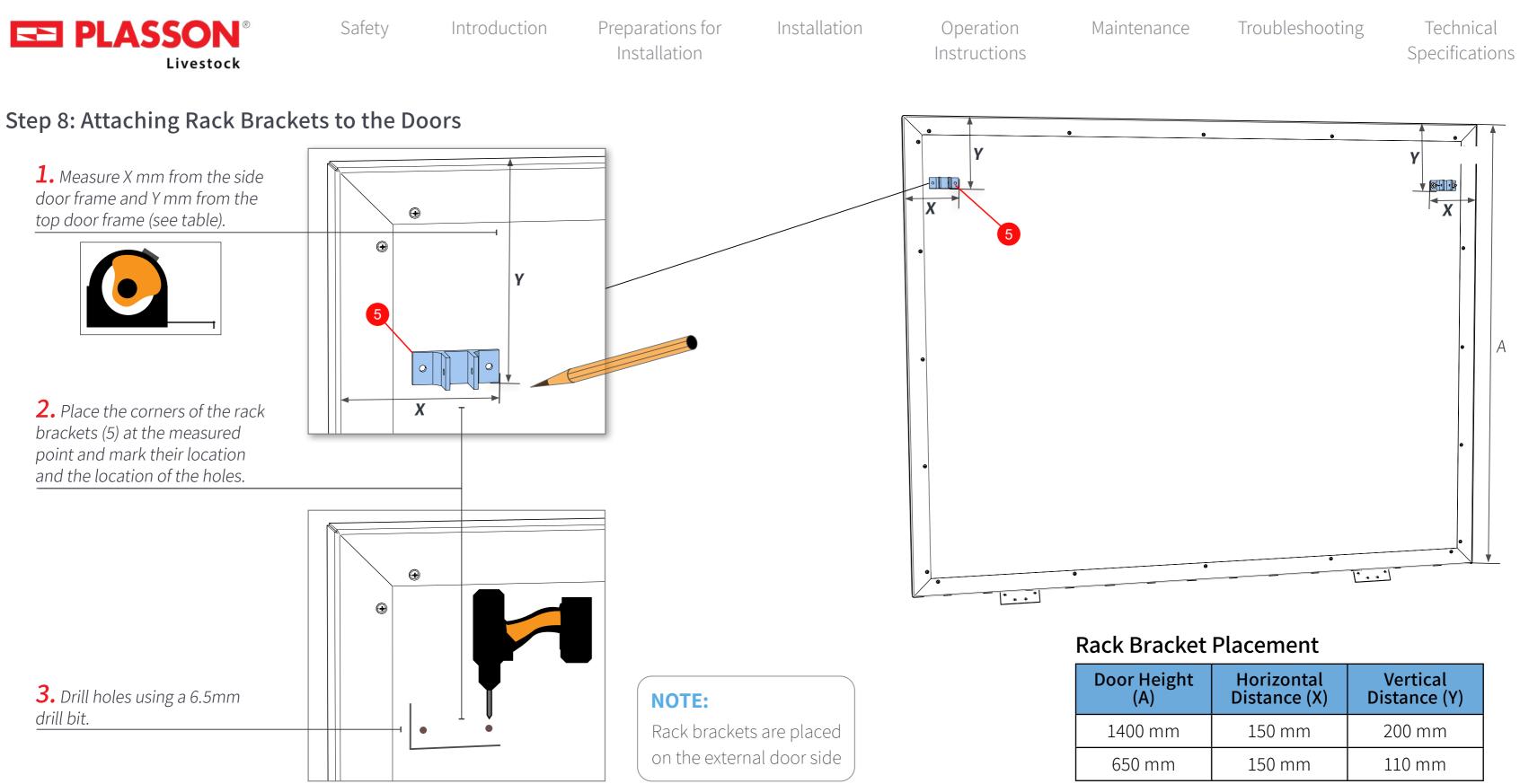
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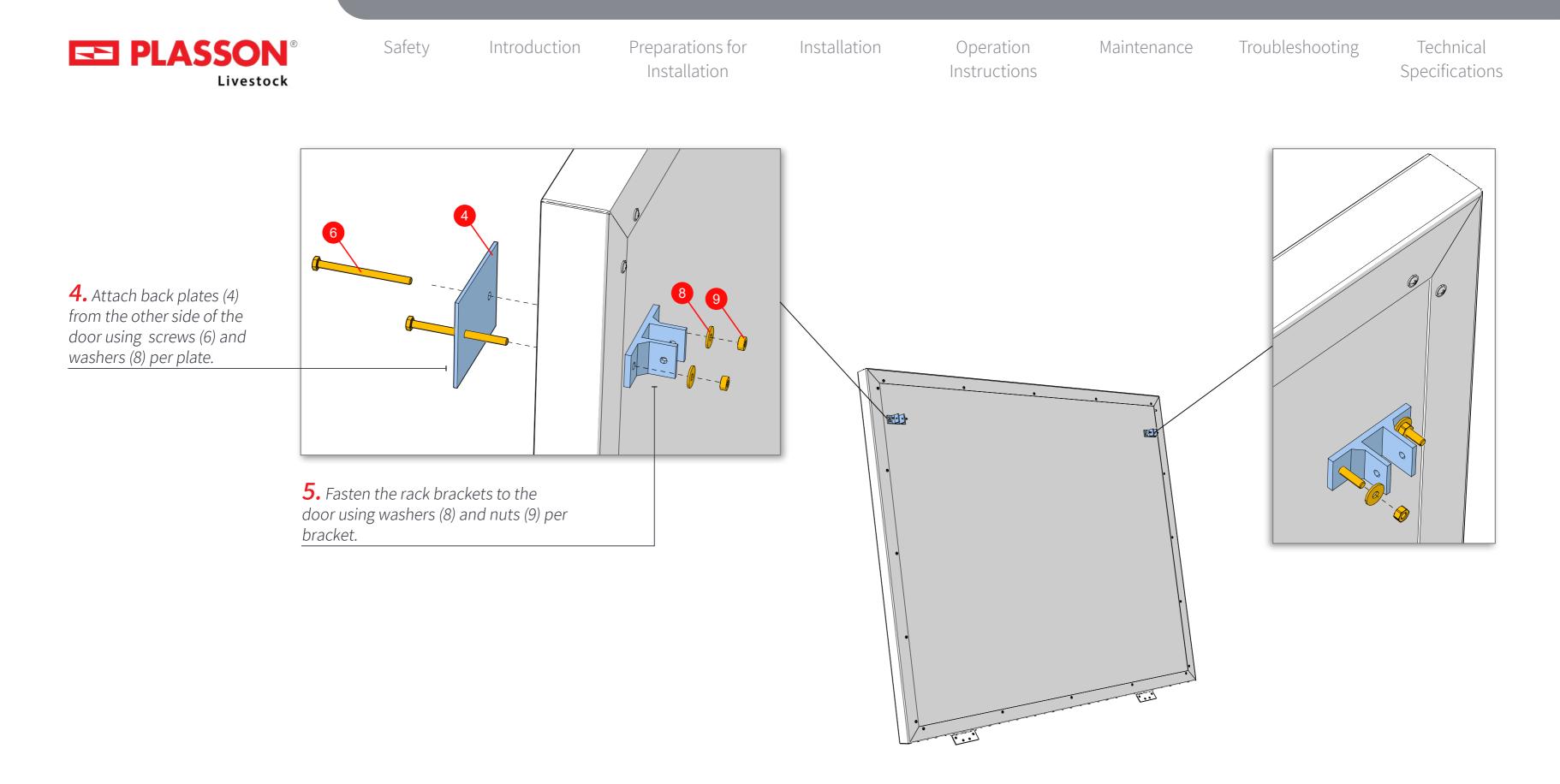








Door Height (A)	Horizontal Distance (X)	Vertical Distance (Y)
1400 mm	150 mm	200 mm
650 mm	150 mm	110 mm



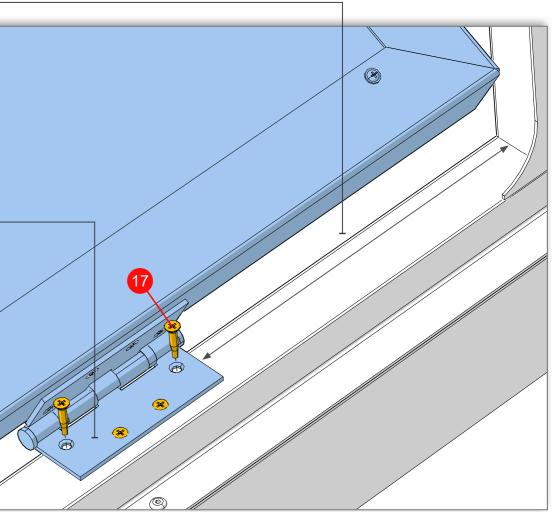
E PLASSON [®] Livestock	Safety	Introduction	Preparations for Installation	Installation	Operation Instructions
Step 9: Mounting the Doors					
1. Place the doors on the frame, verifying they open towards the inside of the chicken house.					2. Ve betw of hir
		Ou	itdoor	3. Attach the door hing loor frame using screws	es to the ; (17).

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Verify that the distances tween the frame and the edge hinge are equal on both sides.





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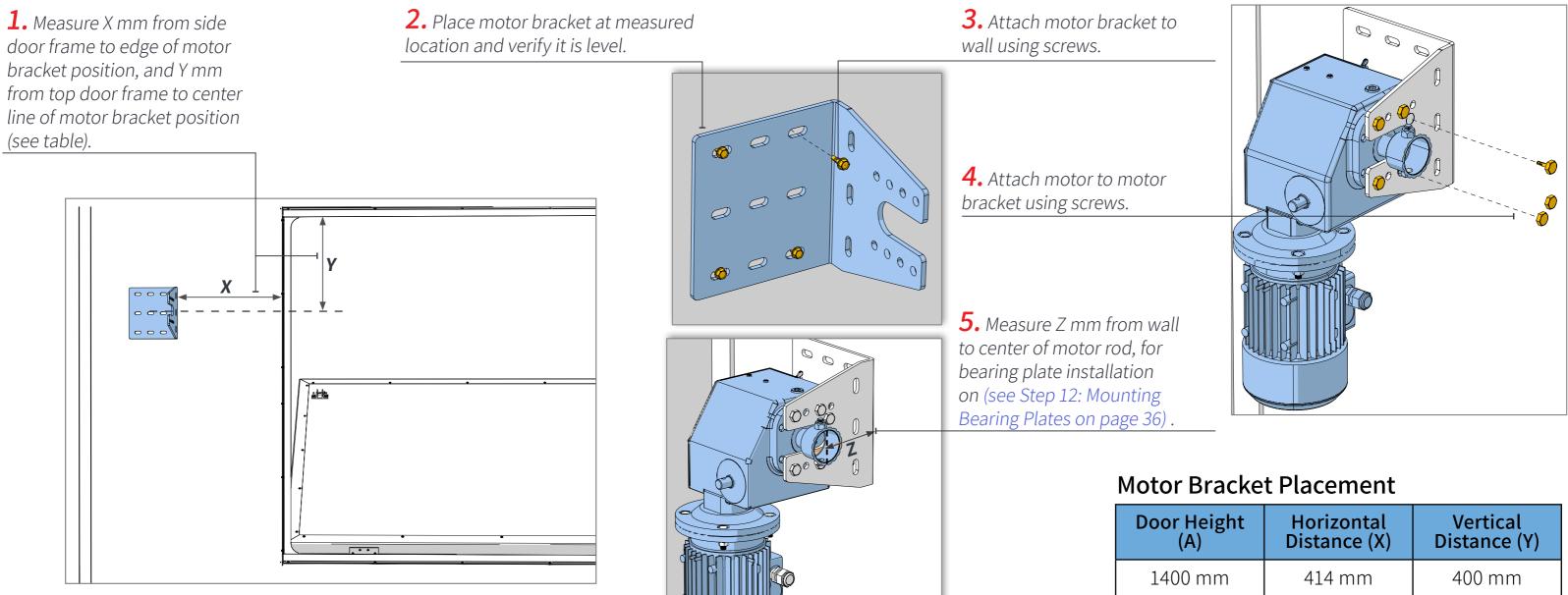
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Step 10: Mounting Motor Bracket and Motor

Open the motor mounting kit (21) and perform the following steps:



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Door Height (A)	Horizontal Distance (X)	Vertical Distance (Y)	
1400 mm	414 mm	400 mm	
650 mm	414 mm	150-200 mm	



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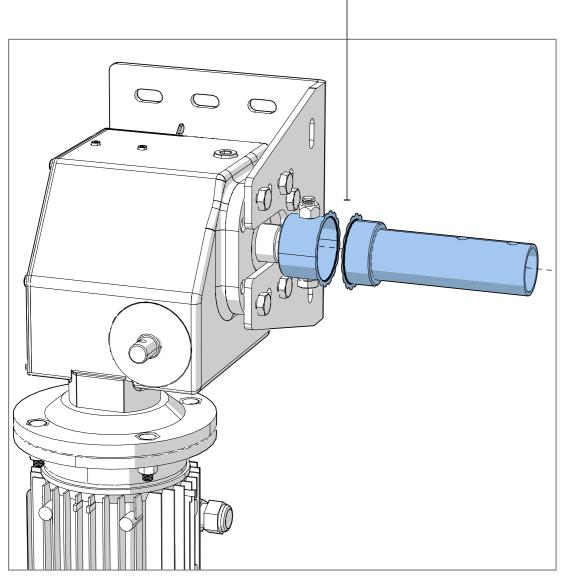
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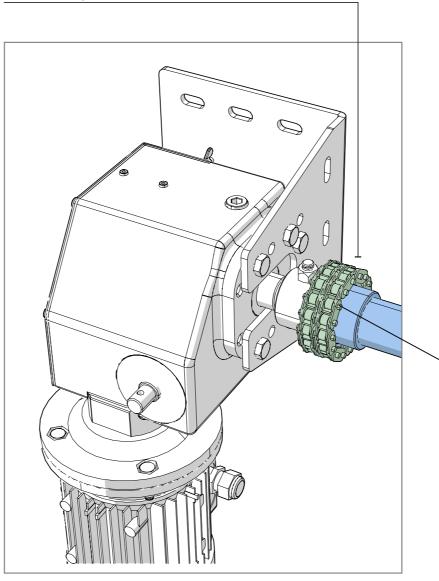
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Step 11: Attaching Sprocket to Motor

1. Hold the two sprockets against each other.



2. Wrap the chain around the two sprockets.

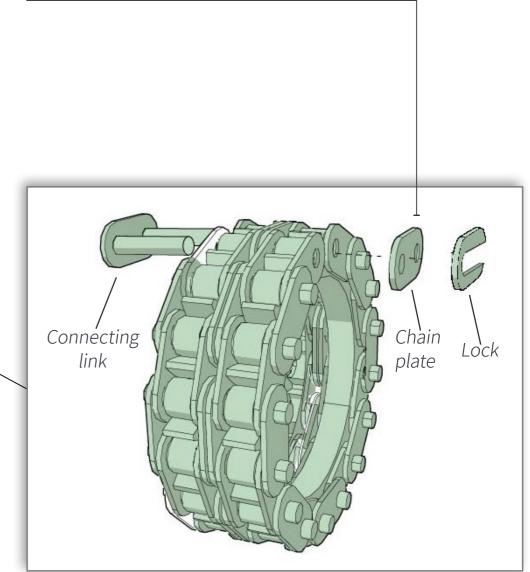


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3. Connect the ends of the chain together using a connecting link, chain plate and lock.





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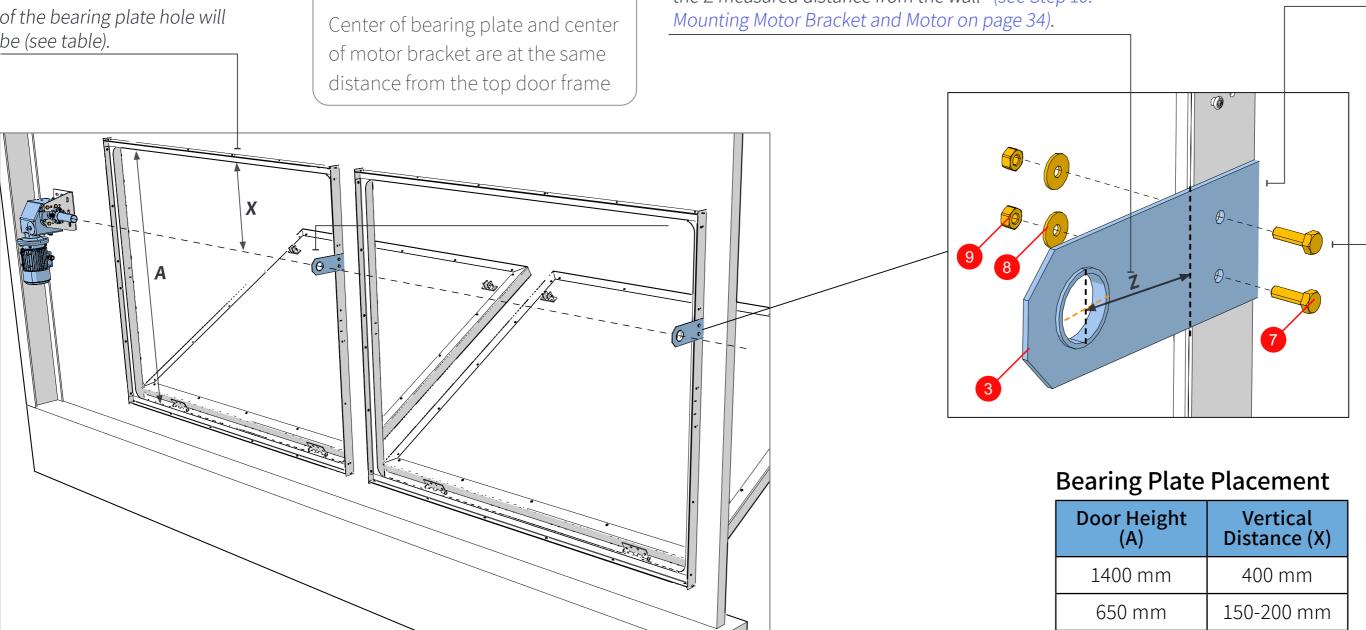
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Step 12: Mounting Bearing Plates

1. Measure X mm from the top door frame to where the center of the bearing plate hole will be (see table).

NOTE:

2. Place bearing plates (3) so that center of hole is at the Z measured distance from the wall (see Step 10:



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3. Verify that the edge of the plate is flush with the frame.

4. Attach bearing plates to the door frames using screws (7), washers (8) and nuts (9).

Height (A)	Vertical Distance (X)
0 mm	400 mm
) mm	150-200 mm

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Livestock

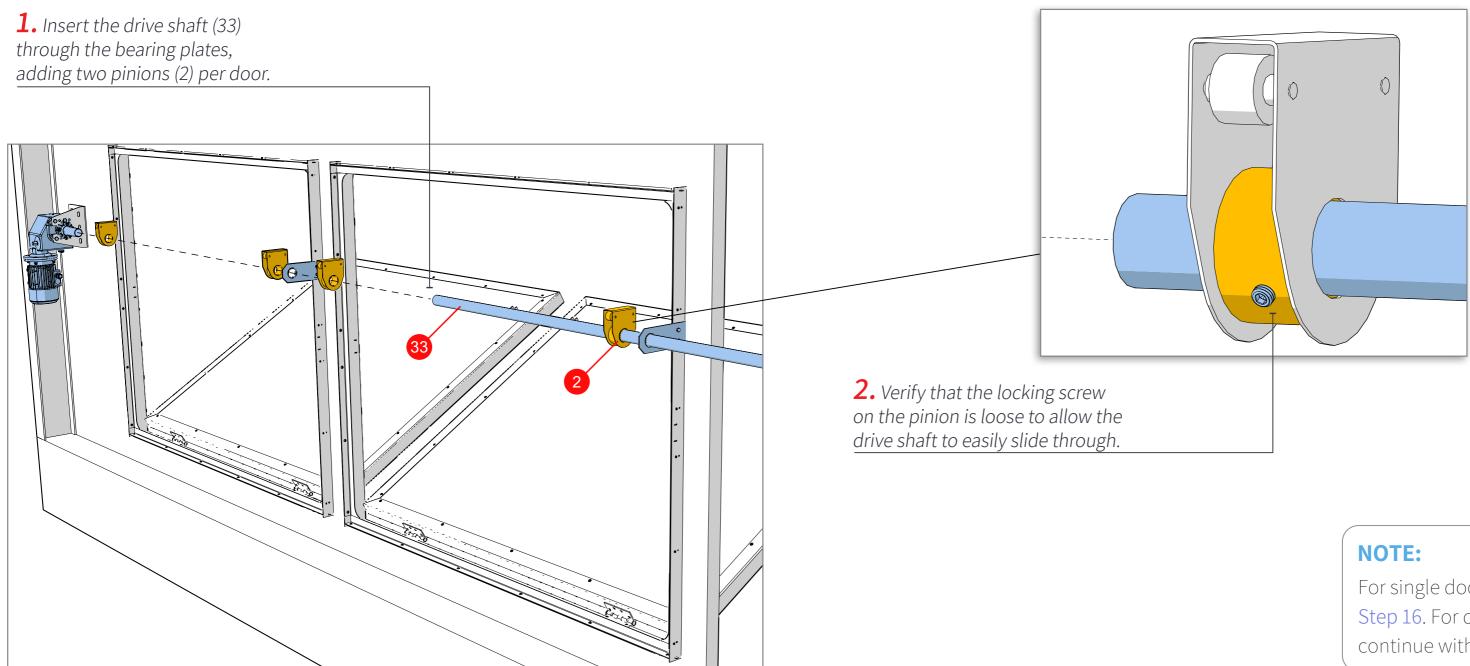
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Step 13: Inserting the Drive Shaft



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For single door model, proceed to Step 16. For double door model, continue with Step 14



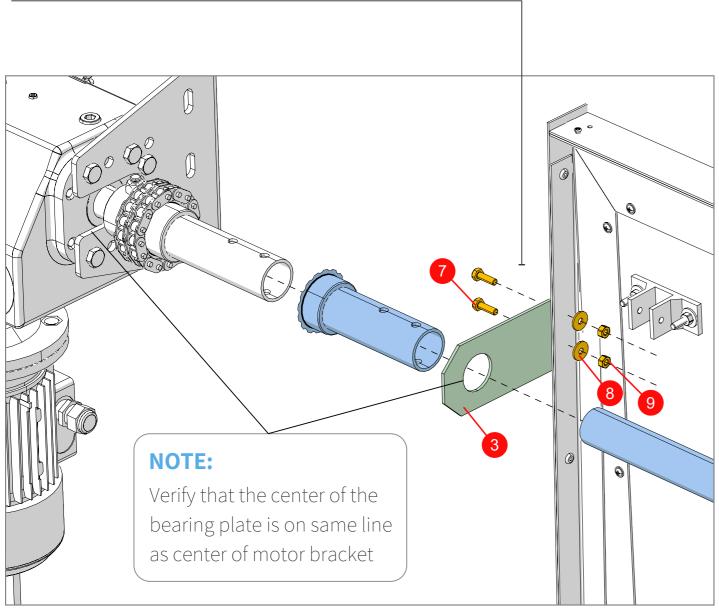
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Step 14: Mounting Extra Bearing Plate and Top Sprocket (Double Door Model Only)

When installing the double door model, perform the following steps:

1. Attach a bearing plate (3) to the door frame closest to the motor using screws (7), washers (8) and nuts (9).



2. Insert the drive shaft through the sprocket (2) and into the motor coupler.

3. Verify the drive shaft is pushed all the way into the coupler.

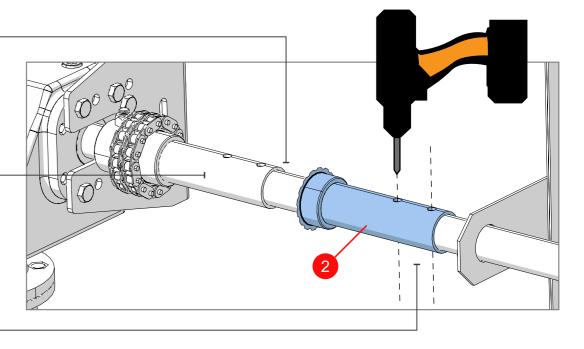
4. Drill two holes through the chain sprocket and drive shaft using a 8.5 mm drill bit.

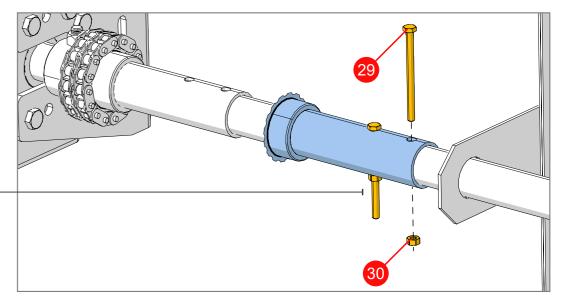
5. Attach the chain sprocket to the drive shaft using screws (29) and nuts (30).

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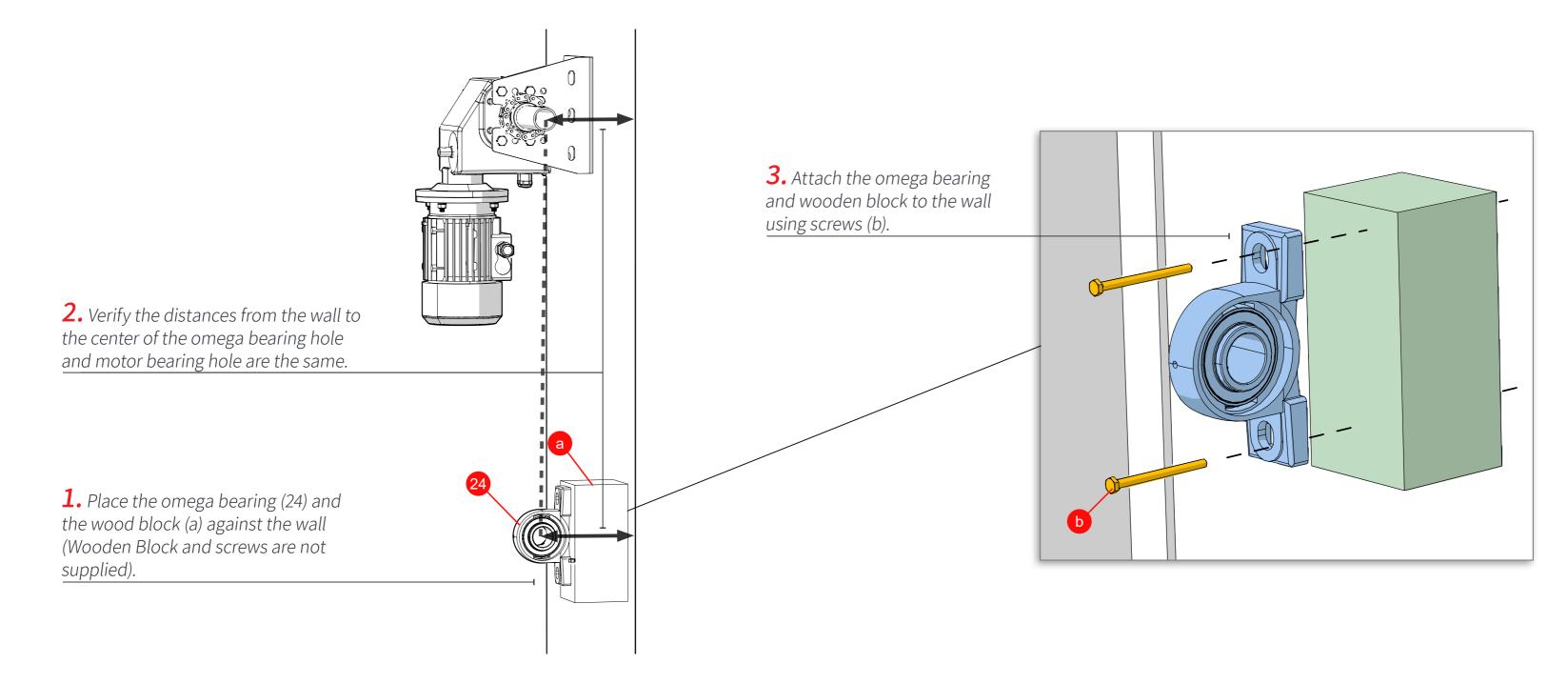






E PLASSON [®] Livestock	Safety	Introduction	Preparations for Installation	Installation	C In
Step 15: Mounting Omega Bearing	ng and Bott	om Sprocket (Double Door Mod	lel Only)	

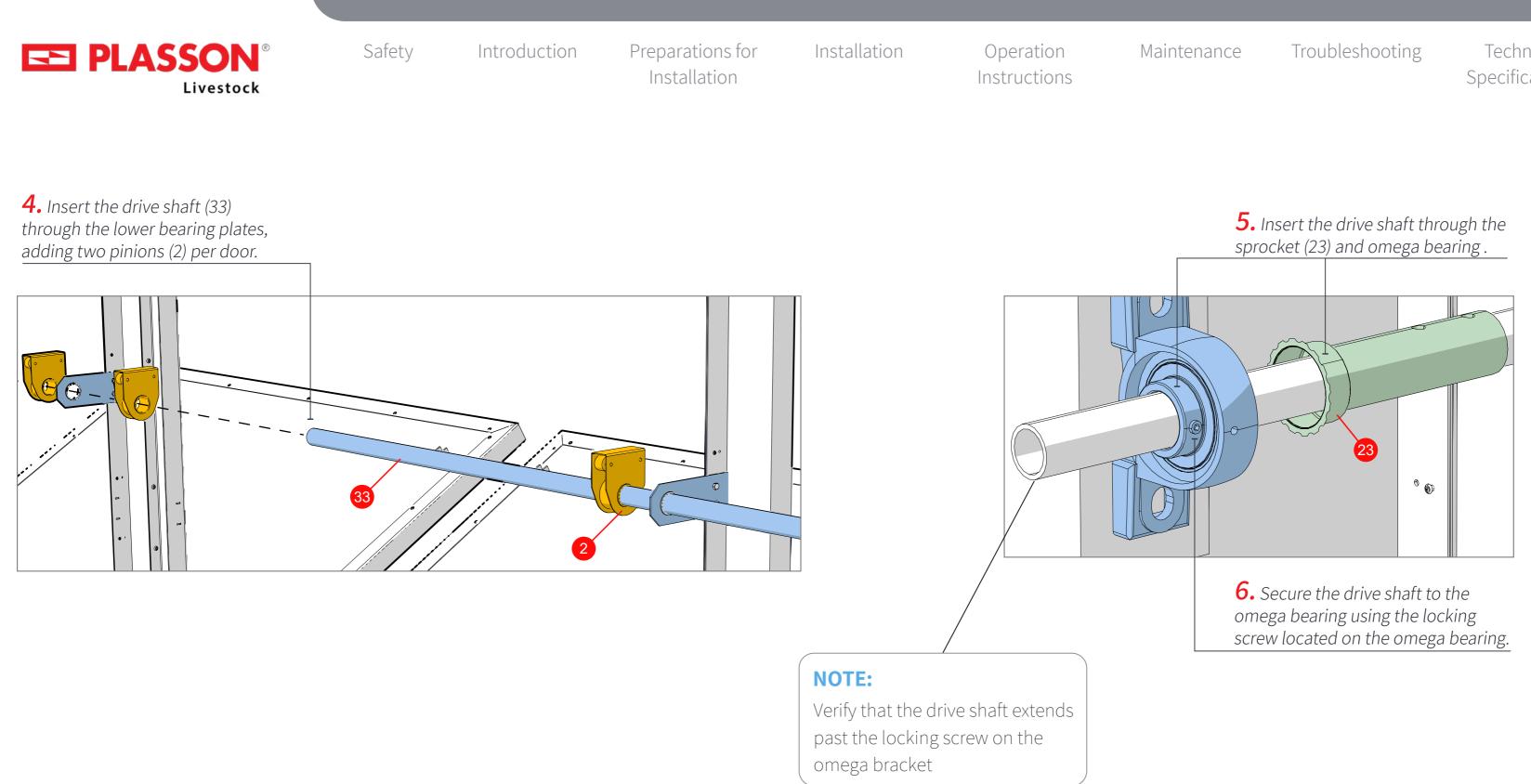
When installing the double door model, perform the following steps:



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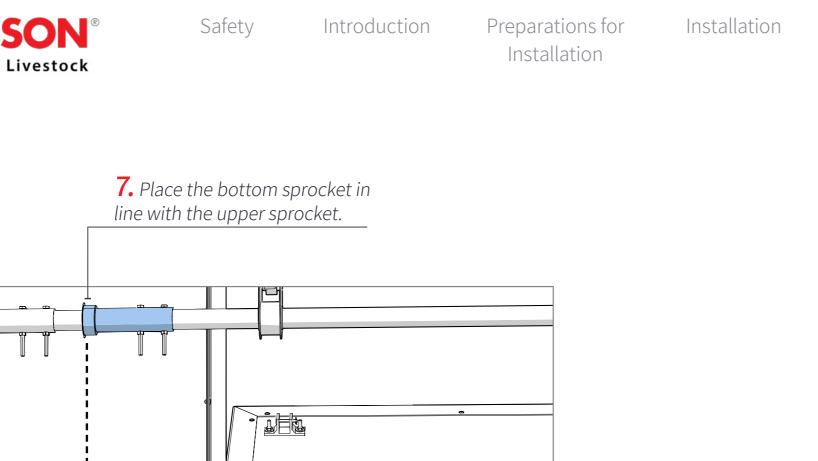
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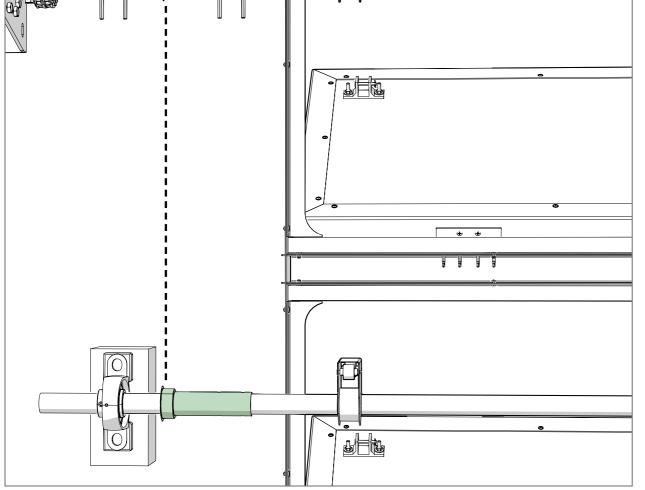
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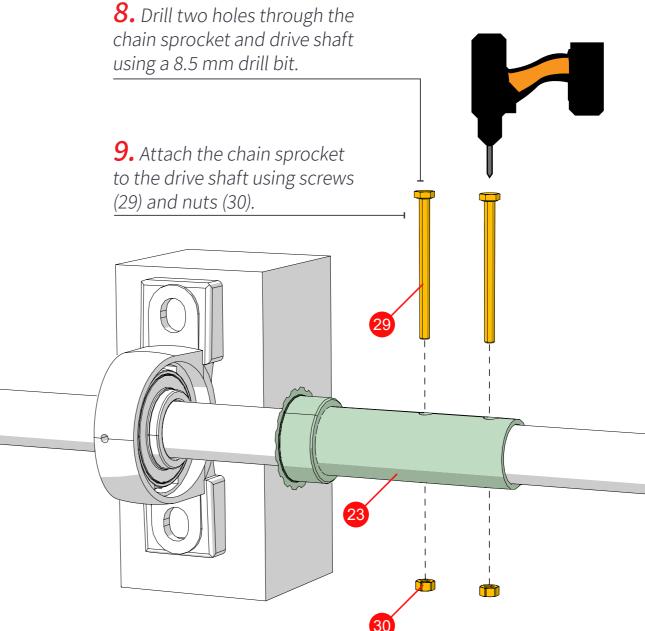


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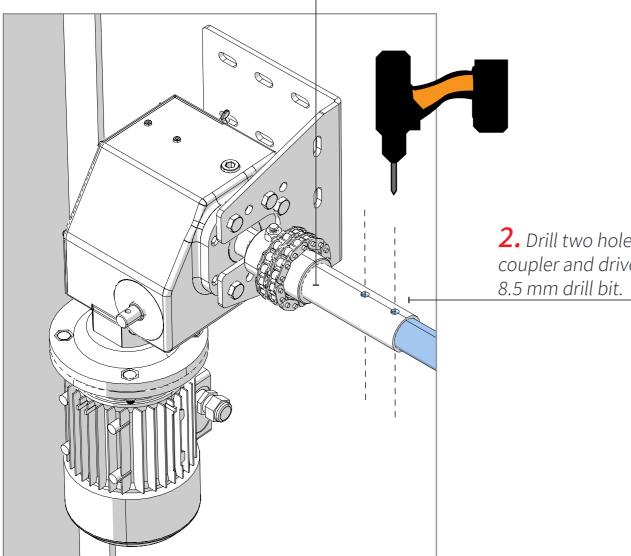
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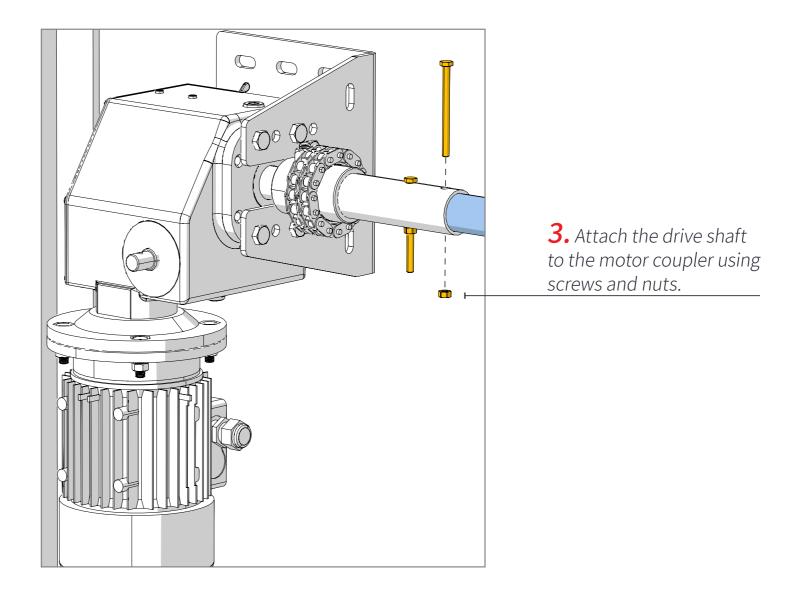
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Step 16: Attaching Drive Shaft to Motor

1. Verify the drive shaft is pushed all the way into the motor coupler.



2. Drill two holes into the motor coupler and drive shaft using a



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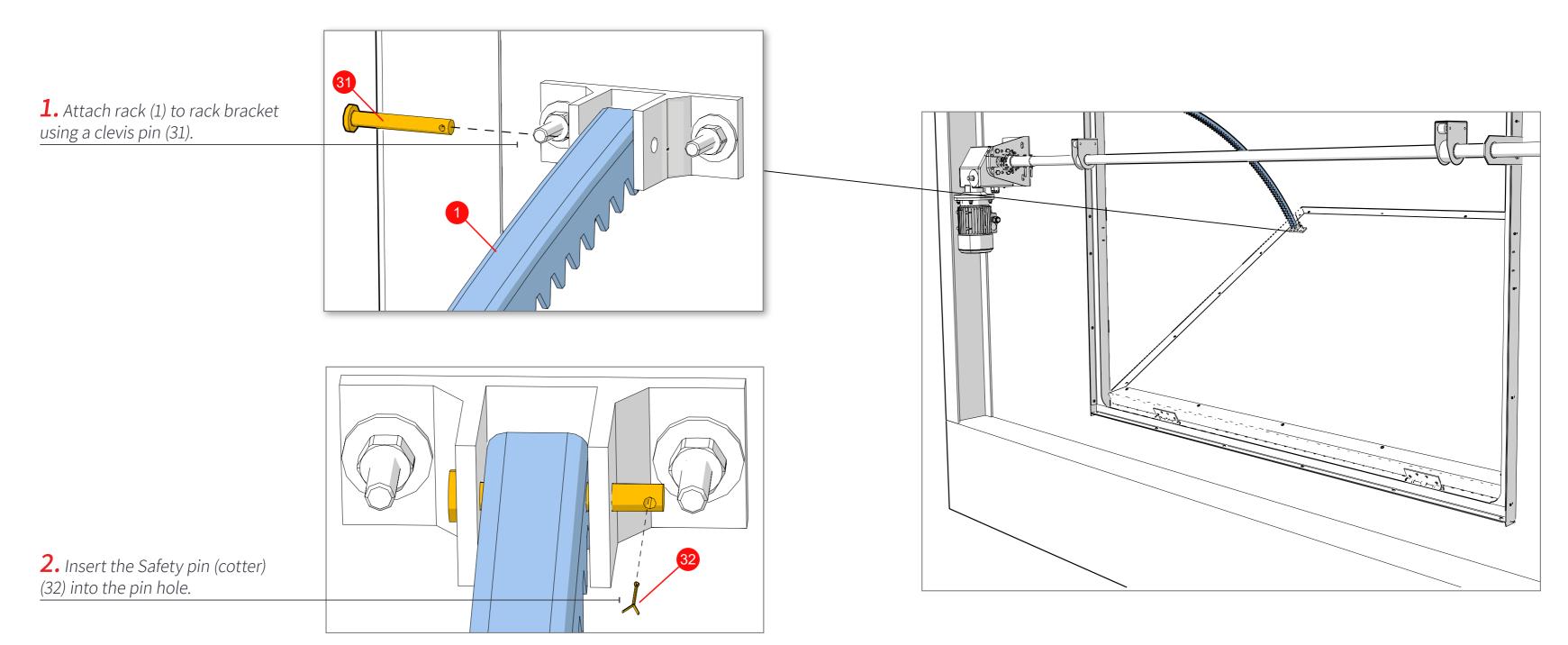
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Step 17: Attaching Curve Racks to Rack Brackets



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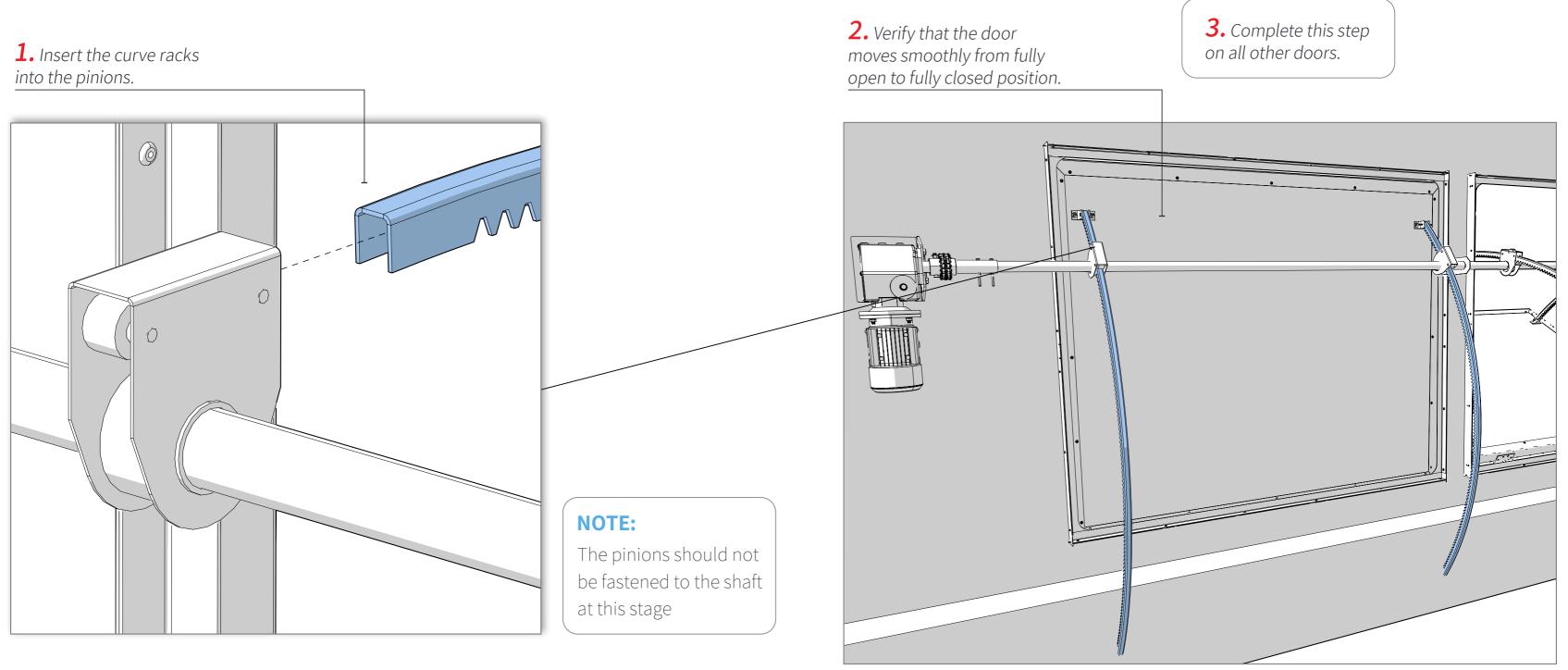
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Step 18: Inserting Curve Racks into Pinions



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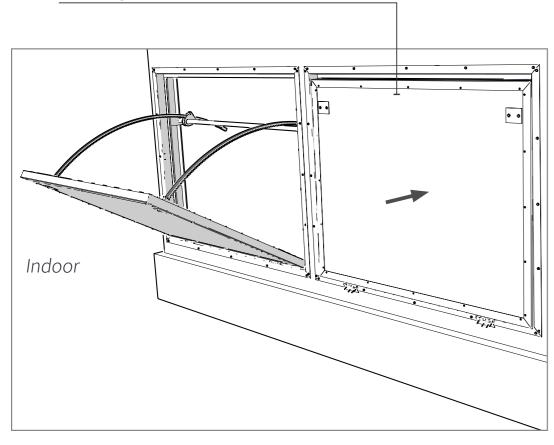
Preparations for Installation

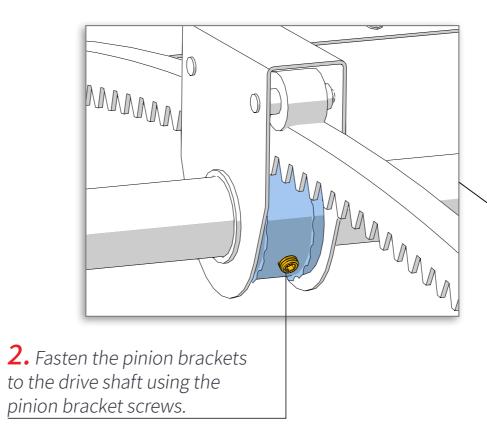
Installation

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Step 19: Fastening Pinions to Drive Shaft

1. Verify the door closes firmly against the door frame.

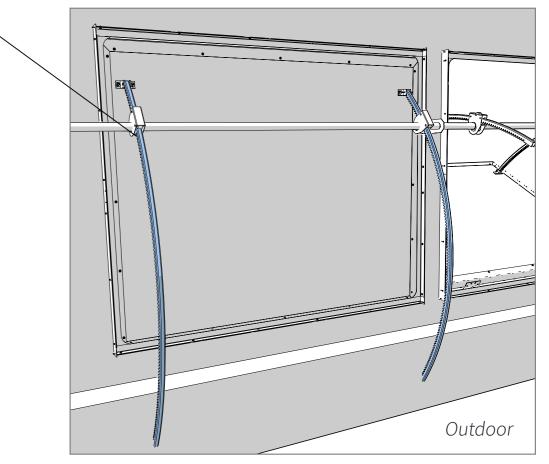




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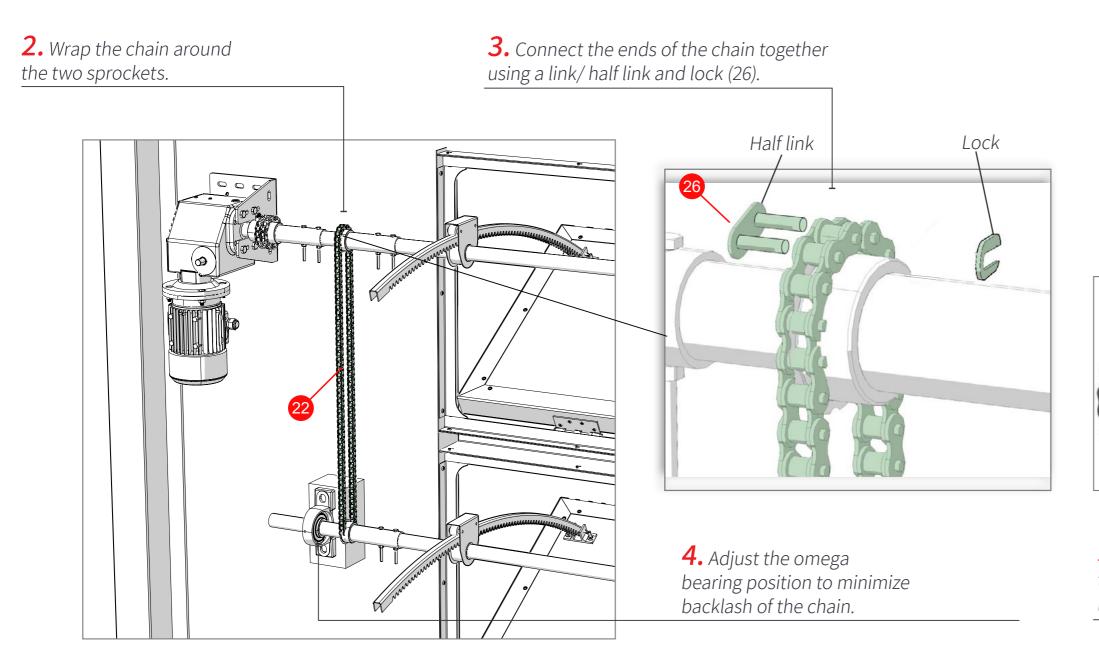
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Step 20: Joining Drive Shafts with Chain (Double Door Model Only)

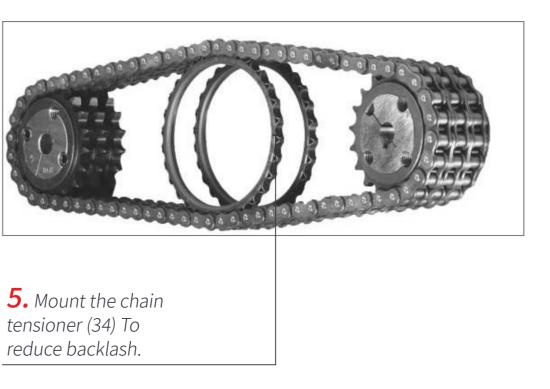
1. Cut the chain (22) to the required length.



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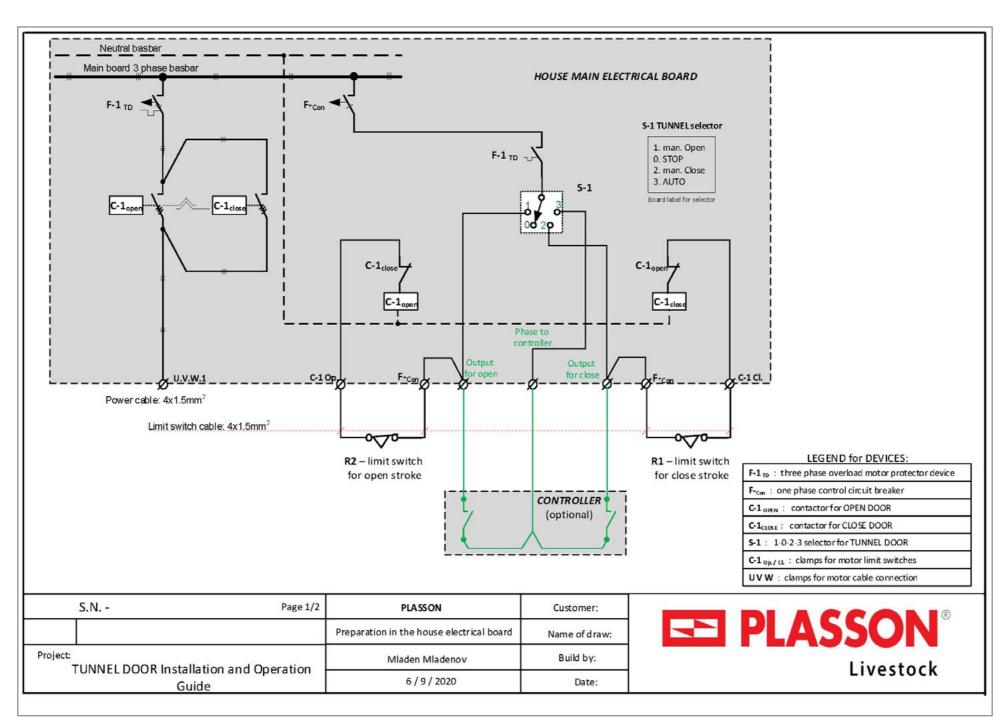




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Preparations for Installation

4.4 Power and Control Connections



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PLASSON [®]
Livestock

Introduction

GEAR BOX Clamps for connection of the cab TN ZN D D D D	
Adjust the required open/close stroke, by using the axis nipples	

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vdtage are : 3x380-415Vac / 50 Hz
Volage ale : 57580-4 13Vac / 50 Hz
voltage are : 3x210- 230Vac / 60 Hz
SSON®
Livestock



ASSON®	Safety	Introduction	Preparations for	Installation	Operation
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Final Checkup 4.5

TBD

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Safety Introd	duction
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Preparations for Installation

5. Operation Instructions

This chapter reviews the tasks associated with first-time operation of the system after installation and includes:

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6. Maintenance

This chapter reviews the tasks associated with preventive maintenance of the system and includes:

- Maintenance Checklist
- Preparations for Maintenance
- Visual Inspection
- Tunnel Door System Maintenance
- Parts Replacement

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		Installation		Instru

Maintenance Checklist 6.1

Task Name	Daily	Weekly	Monthly	Quarterly	Annually
Visual Inspection					
Tunnel Door System Maintenance					
Parts Replacement					

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6.2 **Preparations for Maintenance**

Do the following prior to conducting maintenance on the tunnel door system:

- Read the installation and operation instructions
- Read all safety standards and instructions to avoid injury or damage to equipment or property

- Electrical connections must be serviced by a qualified electrician, using certified components only, and according to local regulations and standards
- Assembly, maintenance, and replacement of spare parts must be done by Plasson authorized technicians only
- Proper operation of the system is not guaranteed if unauthorized parts are used

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Tunnel Door System Maintenance 6.4

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SON [®]	Safety	Introduction	Preparations for	Installation	Operation
Livestock			Installation		Instructions

7. Troubleshooting

This chapter reviews issues that may appear during operation of the system and suggests steps to resolve these issues: TBD

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ock			Installation		Instructions

9. Warranty

9.1 **Limited Warranty**

9.1.1 Plasson Ltd ("PLASSON") warrants Tunnel Door products sold by Plasson or authorized representatives or distributors to be free of defects in material and workmanship, under normal usage and conditions, for a period of twelve (12) months from the date the Product was sold to its original purchaser, as evidenced by the original invoice.

* The warranty does not include or cover media pads which are considered disposable and should be replaced periodically.

- This Limited Warranty extends only to the original purchaser of the product and is not transferable in any manner. 9.1.2
- PLASSON shall have no obligation under this Limited Warranty until invoices for the products are fully paid. 9.1.3
- This Limited Warranty extends solely to products sold by PLASSON. 9.1.4
- Under this Limited Warranty, PLASSON reserves the right to inspect the Product to determine the validity of buyer's claim and PLASSON, in its sole 9.1.5 discretion, shall have the option of:

(a) Replacing warranted PLASSON Product (F.O.B. point of purchase) without charge.

(b) Repairing the warranted Product without charge for Products returned to point of purchase. No warranty extension will be granted for any replacement part(s) furnished to the purchaser in fulfillment of this warranty.

This Limited Warranty shall not apply to Product that has failed due to or been damaged by (a) accident, misuse, abuse, improper application, 9.1.6 negligence, alteration, force majeure occurrence(s), transportation, improper storage or installation or handling, failure to operate products in accordance with manufacturer instructions, or failure to maintain the recommended operating, charging, or storing environments in accordance with manufacturer instructions; (b) unauthorized repair, maintenance, service, or modification of product by the purchaser or a third party or attachment to or use of non-PLASSON supplied equipment; (c) disasters such as fire, flood, lightning or improper electric current, or other casualty

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or physical damage, acts of aggression or terrorism by any person or entity, corrosion or excessive dirt, dust or other foreign material; (d) failure to perform reasonable maintenance, normal wear and tear, nor where the connected voltage is more than 5% above the nameplate voltage and (e) any damage from the use of water softeners or treatments, chemicals or descaling materials.

Claims under this Limited Warranty must be made to PLASSON representative/distributor in writing. The Product must be returned to the point of 9.1.7 purchase with documentation and appropriate packing. PLASSON reserves the right of inspection to determine validity of purchaser's claim of defective product under the terms of this Limited Warranty.

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9.2 Limitation of Liability

- 9.2.1 This limited warranty constitutes the only warranty made by Plasson concerning the product and it hereby excludes any and all other warranties, expressed or implied, including any warranties of merchantability or fitness for a particular purpose.
- Under no circumstances shall Plasson be liable to the purchaser or any user for consequential, indirect, special, punitive, or incidental damages of 9.2.2 any kind, including loss of use or profits.
- In no event will Plasson be liable for damages or losses that exceed, in the aggregate, the amount paid by purchaser for the product. 9.2.3

Governing Law 9.3

This Limited Warranty shall be governed by and construed in accordance with the laws of the State of Israel. Any action brought relating to this Limited Warranty shall be instituted and litigated in the competent courts of Tel-Aviv-Jaffa, Israel

Edited: May 2019



Troubleshooting



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Revision History

Revision	Date	Description	Approval
А		Initial release	

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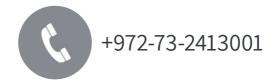




PLASSON Ltd. Maagan Michael, D.N. Menashe, 3780500, Israel

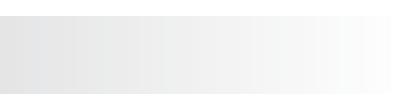


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