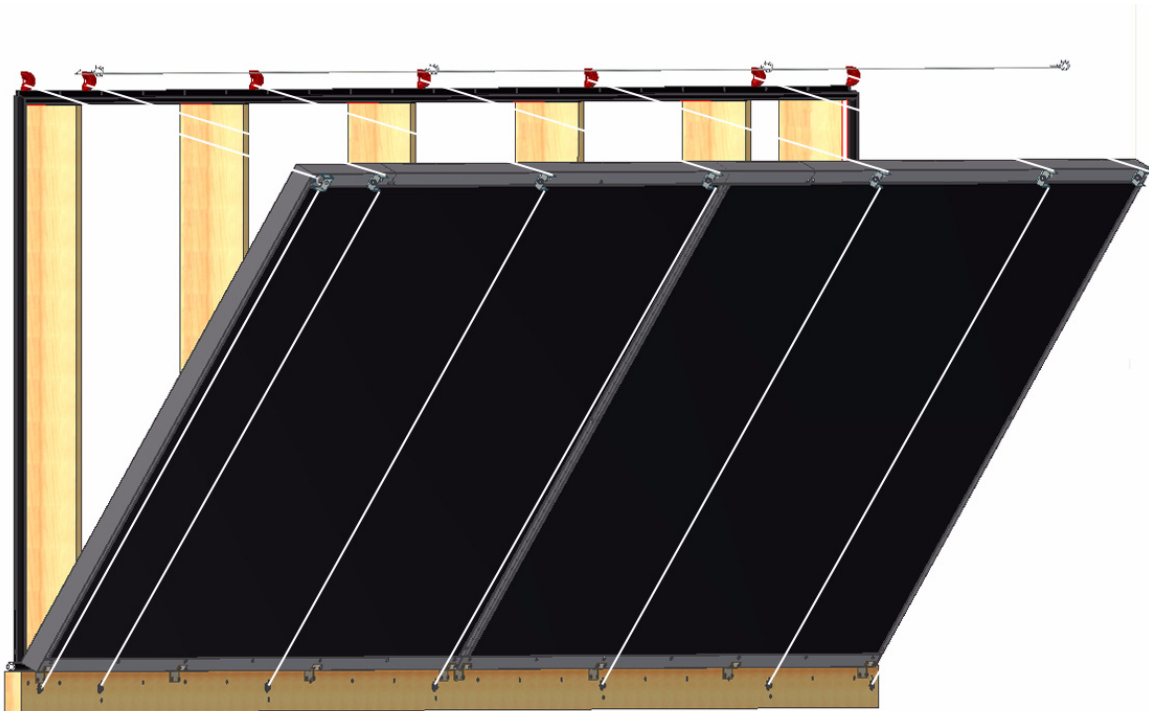


# **Tunnel Door**

## **Installation Instruction Manual**



## Chore-Time Warranty

**Chore-Time Equipment** ("Chore-Time") warrants each new Chore-Time product manufactured by it to be free from defects in material or workmanship for one year from and after the date of initial installation by or for the original purchaser. If such a defect is found by the Manufacturer to exist within the one-year period, the Manufacturer will, at its option, (a) repair or replace such product free of charge, F.O.B. the factory of manufacture, or (b) refund to the original purchaser the original purchase price, in lieu of such repair or replacement. Labor costs associated with the replacement or repair of the product are not covered by the Manufacturer.

### Conditions and Limitations

1. The product must be installed by and operated in accordance with the instructions published by the **Manufacturer or Warranty will be void.**
2. Warranty is void if **all components** of the system are not original equipment supplied by the **Manufacturer.**
3. This product must be purchased from and installed by an authorized distributor or certified representative thereof or the Warranty will be void.
4. Malfunctions or failure resulting from misuse, abuse, negligence, alteration, accident, or lack of proper maintenance shall not be considered defects under the Warranty.
5. This Warranty applies only to systems for the care of poultry and livestock. Other applications in industry or commerce are not covered by this Warranty.

The **Manufacturer** shall not be liable for any **Consequential or Special Damage** which any purchaser may suffer or claim to suffer as a result of any defect in the product. "**Consequential**" or "**Special Damages**" as used herein include, but are not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs and operational inefficiencies.

THIS WARRANTY CONSTITUTES THE MANUFACTURER'S ENTIRE AND SOLE WARRANTY AND THIS MANUFACTURER EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, EXPRESS AND IMPLIED WARRANTIES AS TO MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSES SOLD AND DESCRIPTION OR QUALITY OF THE PRODUCT FURNISHED HEREUNDER.

Chore-Time Distributors are not authorized to modify or extend the terms and conditions of this Warranty in any manner or to offer or grant any other warranties for Chore-Time products in addition to those terms expressly stated above. An officer of CTB, Inc. must authorize any exceptions to this Warranty in writing. The Manufacturer reserves the right to change models and specifications at any time without notice or obligation to improve previous models.

Effective: **March 2009**

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### Thank You

The employees of CTB Inc. would like to thank you for your recent Chore-Time purchase. If a problem should arise, your Chore-Time distributor can supply the necessary information to help you.

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## General

### Support Information

The Chore-Time Tunnel Door is to be used to control the airflow in a Tunnel Ventilated poultry house. Using this equipment for any other purpose or in a way not within the operating recommendations specified in this manual will void the warranty and may cause personal injury.

This manual is designed to provide comprehensive planning, installation, safety, operation, and parts listing information. The Table of Contents provides a convenient overview of the information in this manual. The Table of Contents also specifies which pages contain information for the sales personnel, installer, and consumer (end user).

## Safety Information

**Caution, Warning and Danger Decals** have been placed on the equipment to warn of potentially dangerous situations. Care should be taken to keep this information intact and easy to read at all times. Replace missing or damaged safety decals immediately.

Using the equipment for purposes other than specified in this manual may cause personal injury and/or damage to the equipment.

### **DANGER: Electrical Hazard**

Disconnect electrical power before inspecting or servicing equipment. Ground all electrical equipment for safety. All electrical wiring must be done by a qualified electrician in accordance with local and national electric codes. Ground all non-current carrying metal parts to guard against electrical shock. With the exception of motor overload protection, electrical disconnects and over current protection are not supplied with the equipment.



## Tools Needed

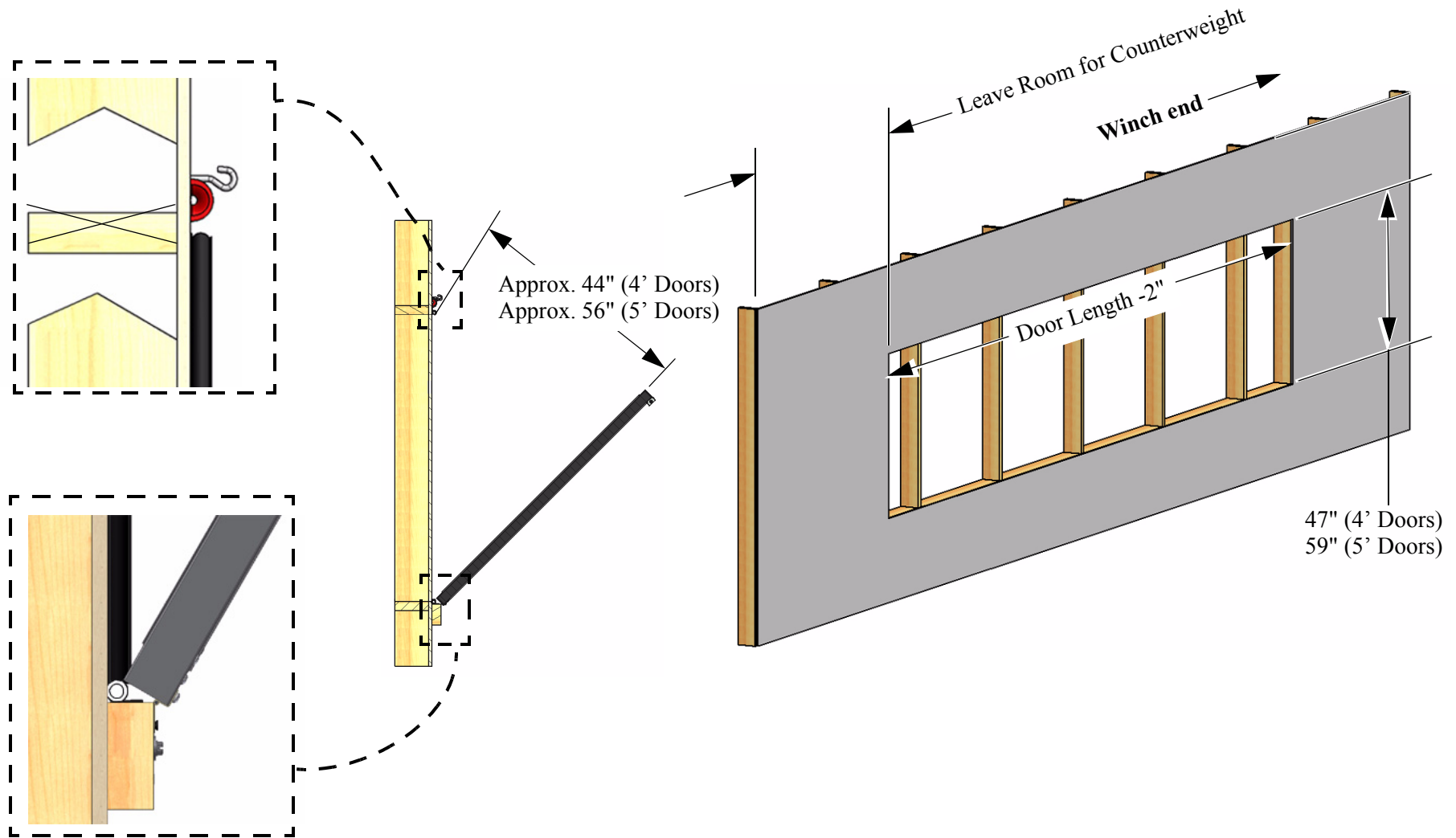
Tape Measurer  
Chalkline  
Electric Drill  
-Square Driver Bit  
-3/8" Hex Socket  
- Screwhook Driver Bit  
-1/2" Drill Bit (For Doors with Rope Suspension)  
Hammer  
Knife  
Tin Snips

# Installation Planning

## Framed Opening

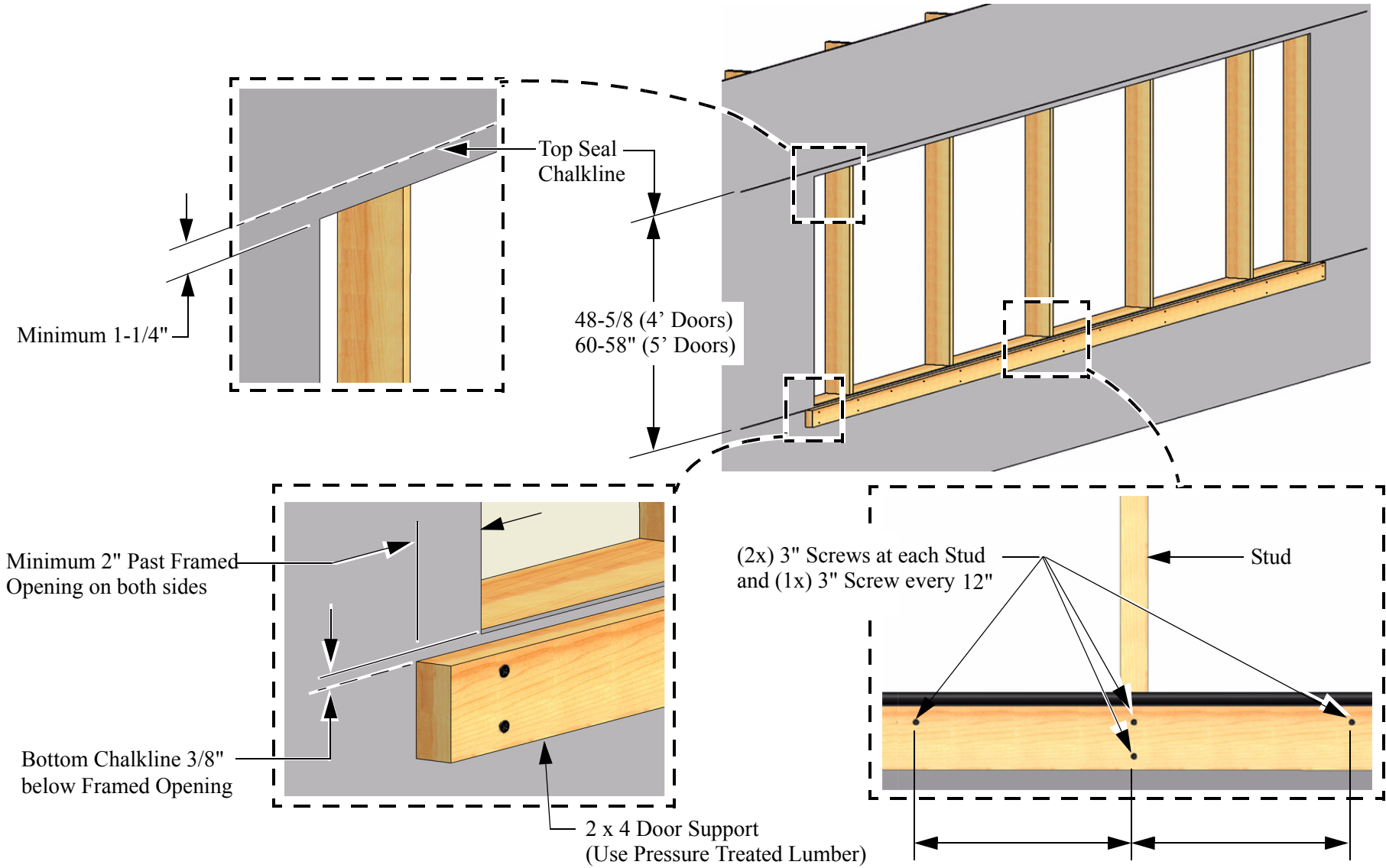
**Winch Capacity-** approximately 20 lbs/ft of Door length

Wall should be flat within 1/8" per 4' to ensure a good seal around the Doors

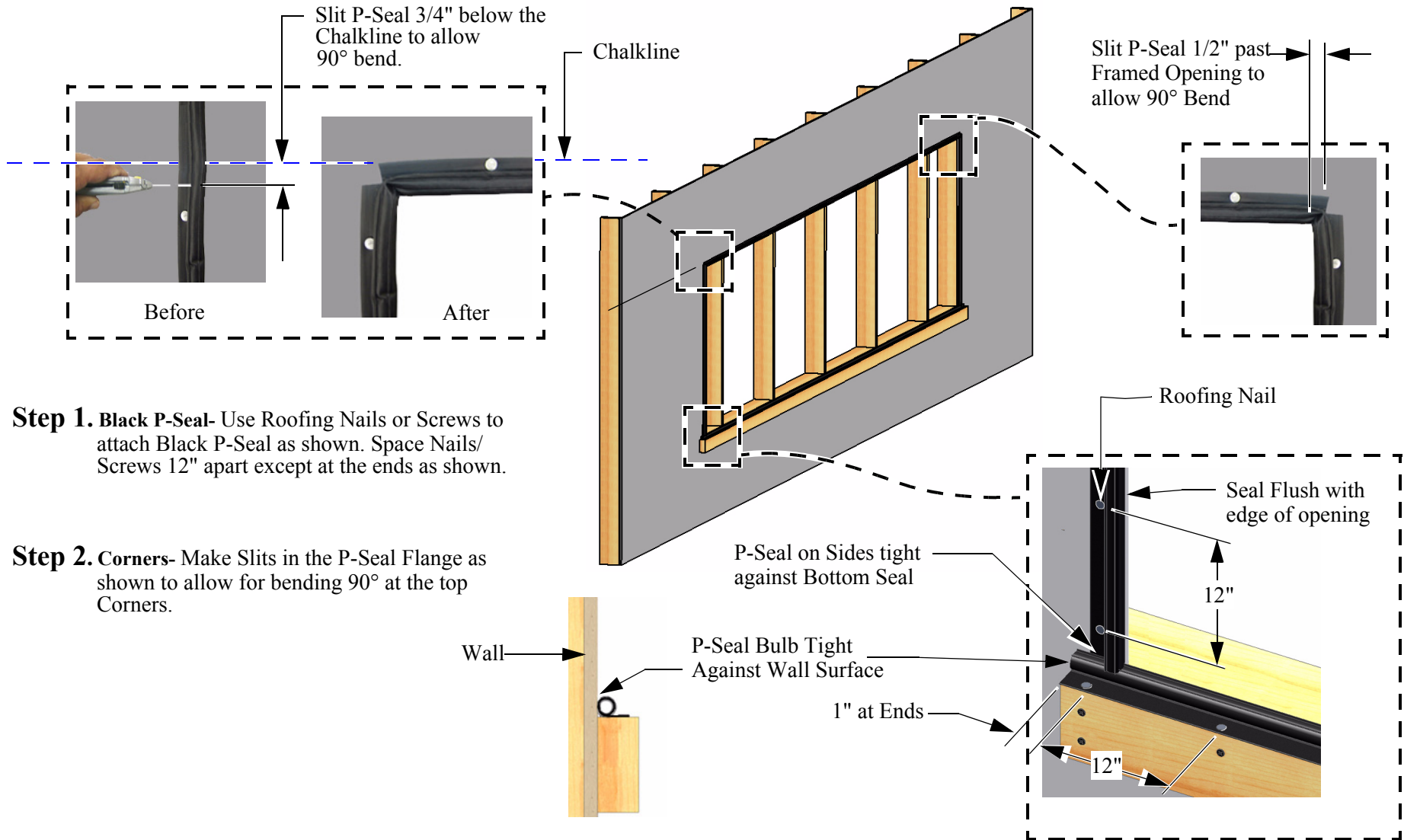


# Installation

## Top and Bottom Chalklines and 2 x 4 Door Support



## Black P-Seal Installation



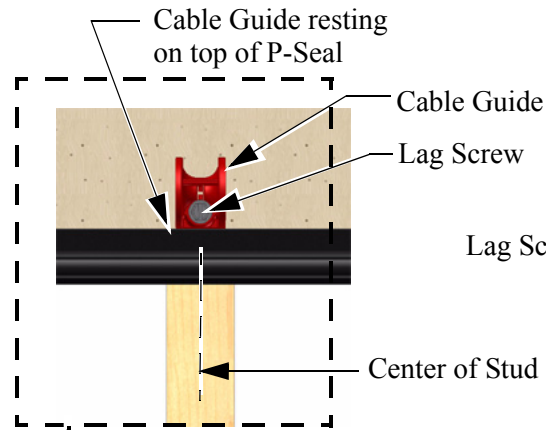
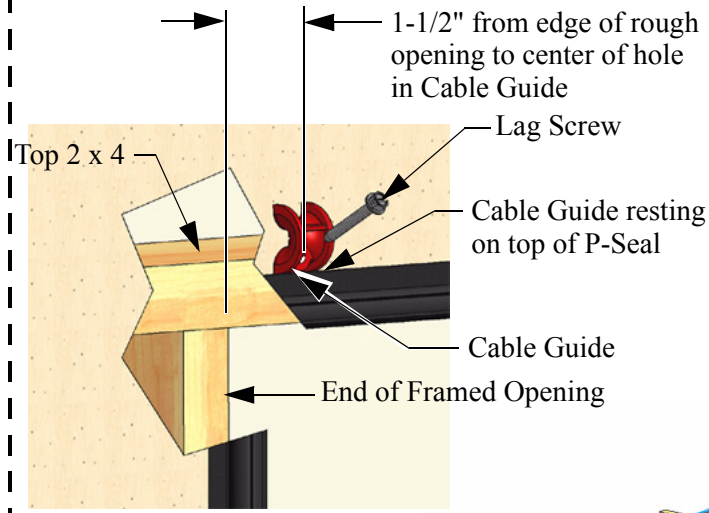
**Step 1. Black P-Seal-** Use Roofing Nails or Screws to attach Black P-Seal as shown. Space Nails/Screws 12" apart except at the ends as shown.

**Step 2. Corners-** Make Slits in the P-Seal Flange as shown to allow for bending 90° at the top Corners.

Tunnel Doors may be installed with either Rope or Cable Suspension  
**Cable Suspension (Cable Version Only)**

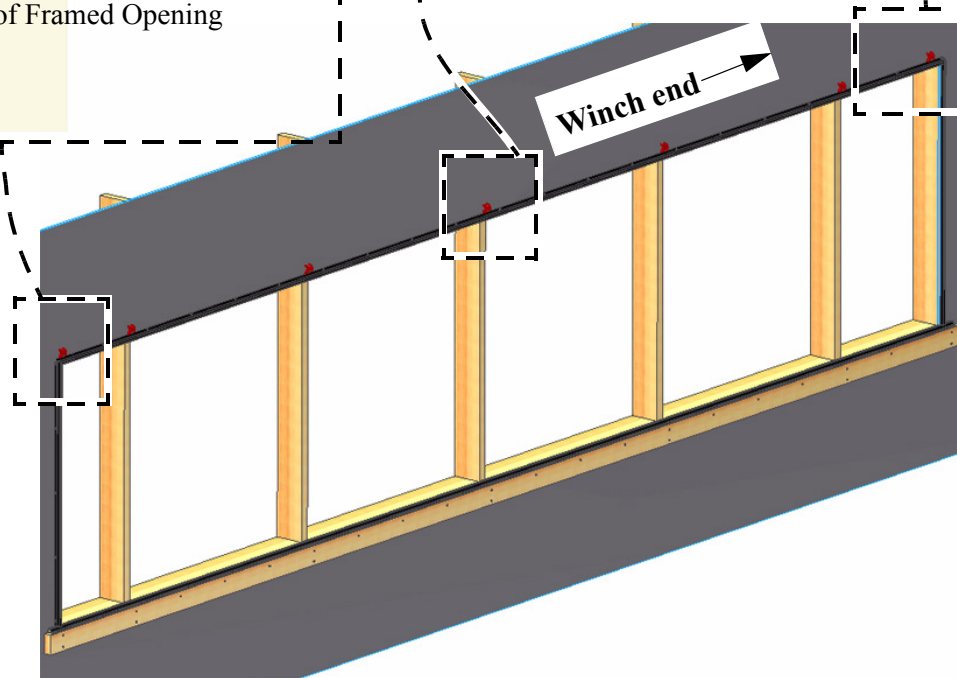
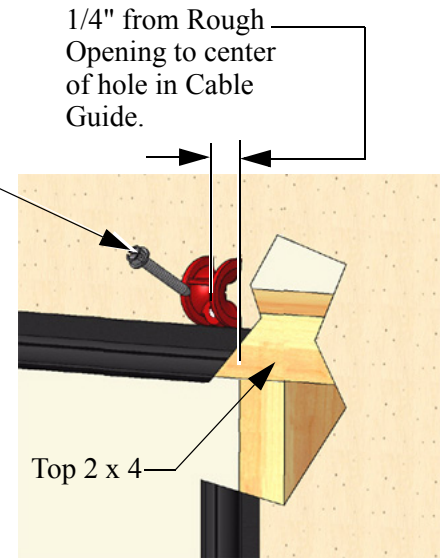
**Counter weight End**

At the End of the Doors Angle the 1/4 x 1-3/4 Lag Screw down into the Top 2x4 as shown.



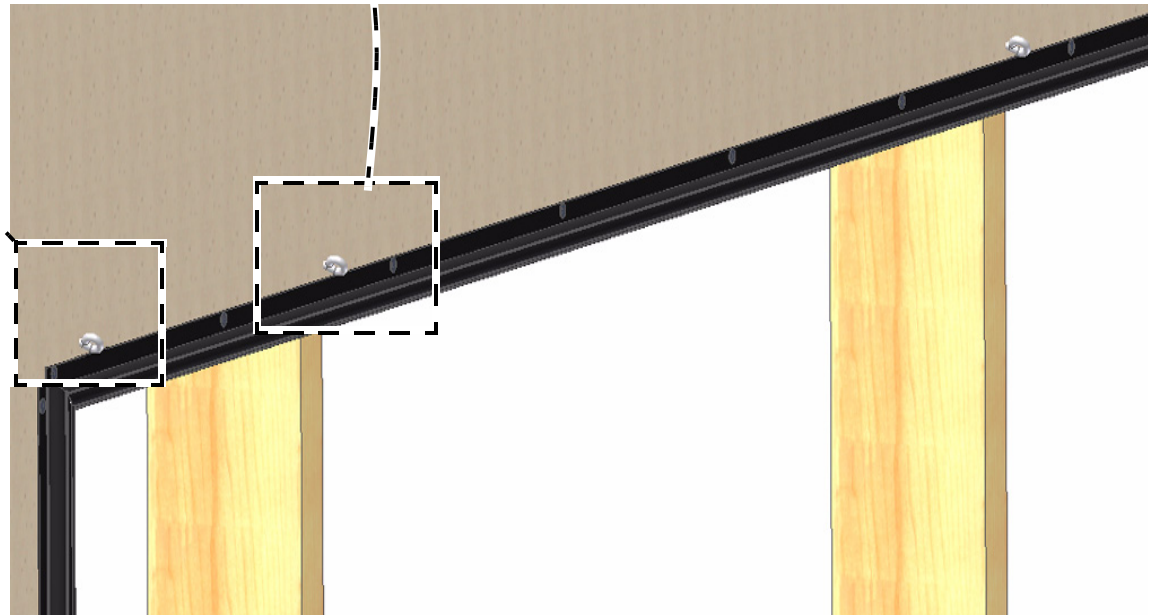
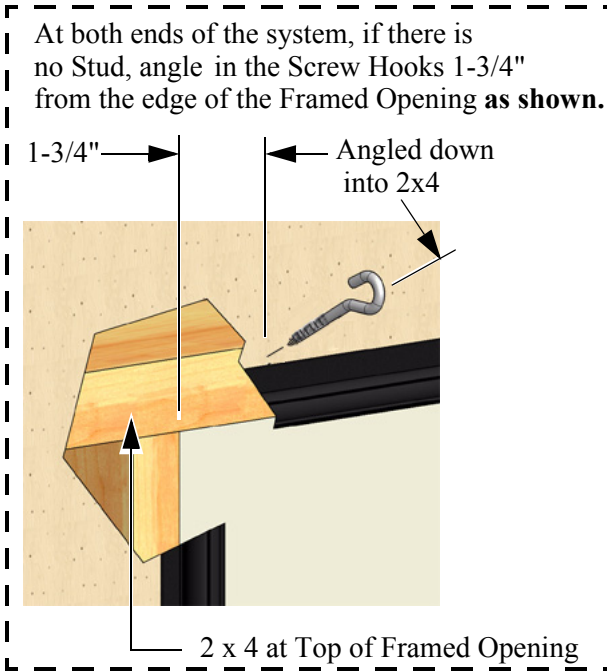
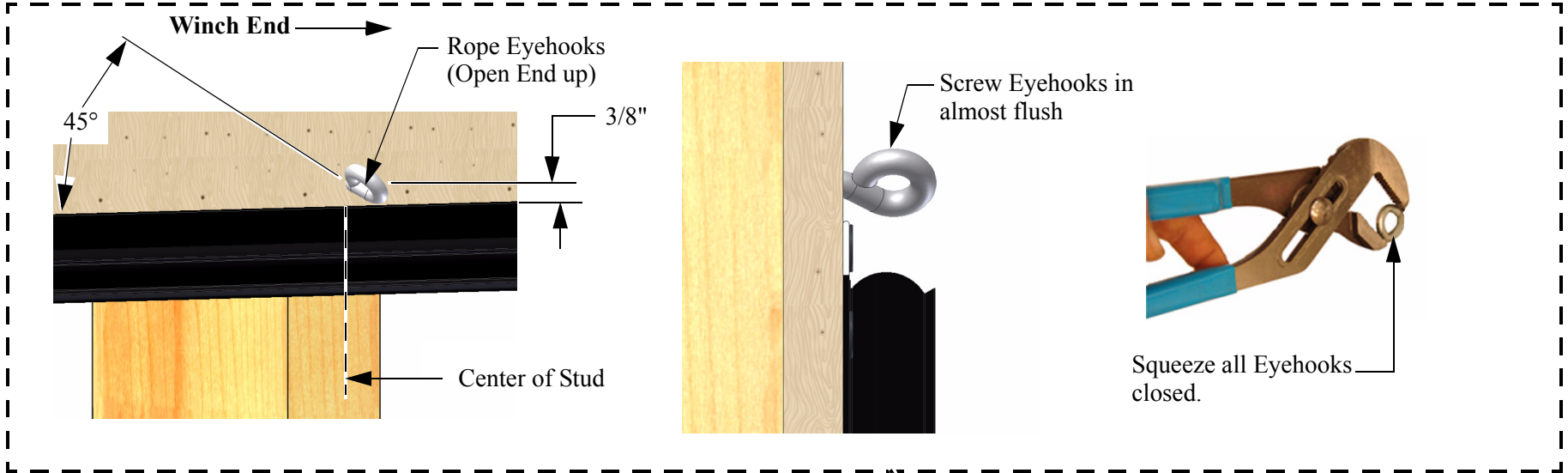
**Winch End**

At the End of the Doors Angle the 1/4 x 1-3/4 Lag Screw down into the Top 2x4.

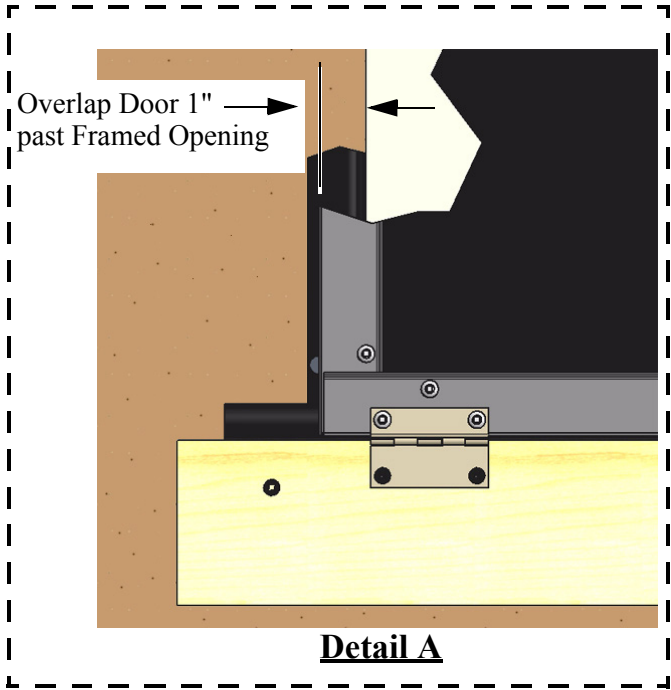




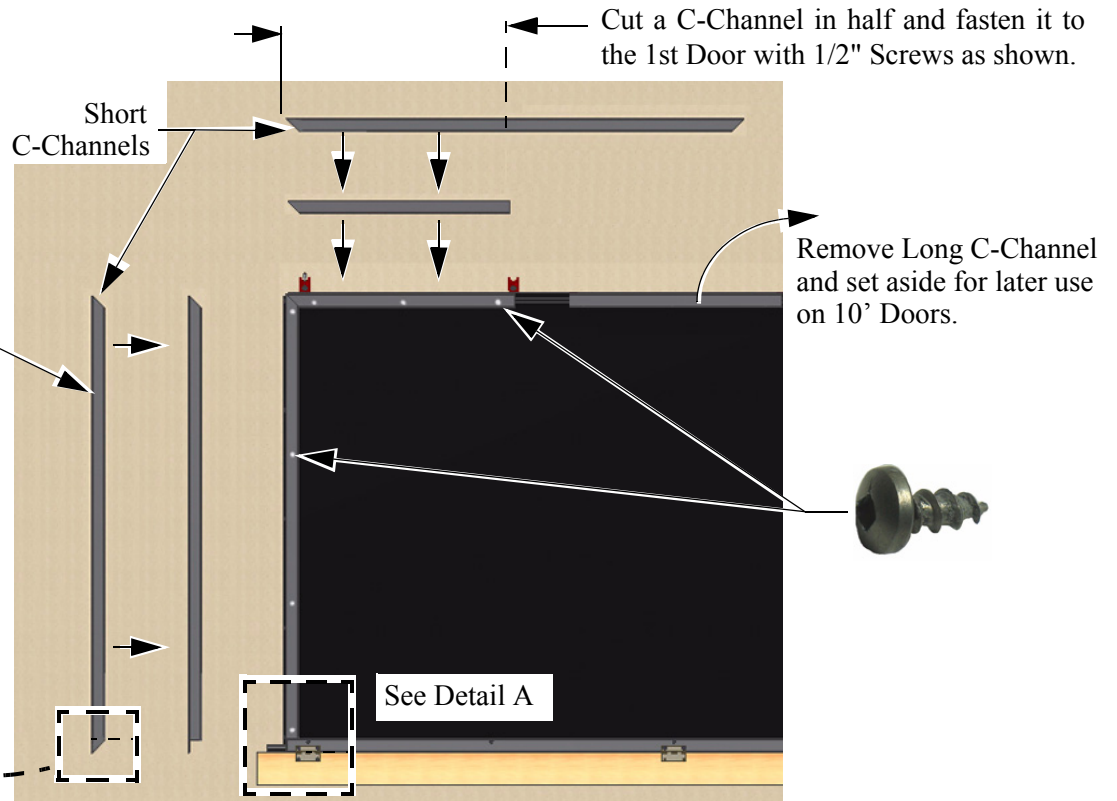
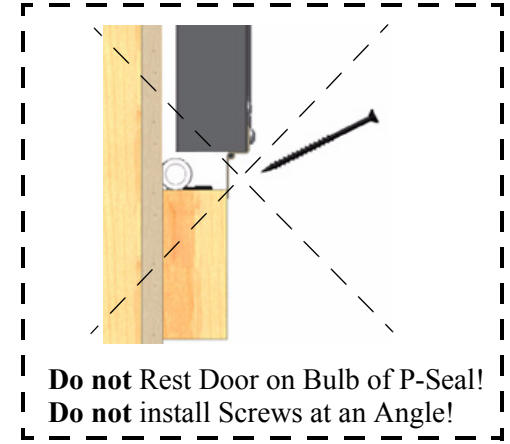
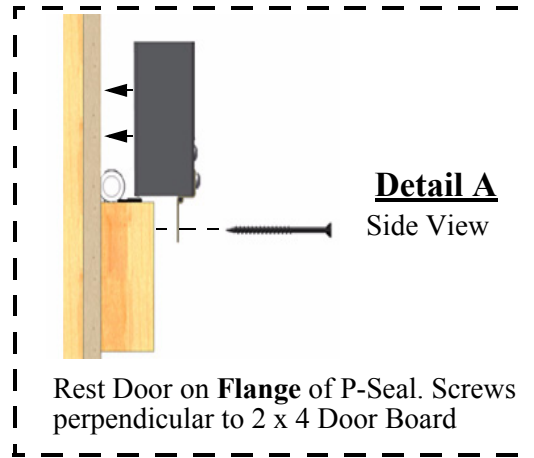
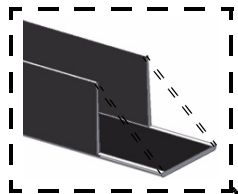
# Rope Screw Hook (Rope Version Only)



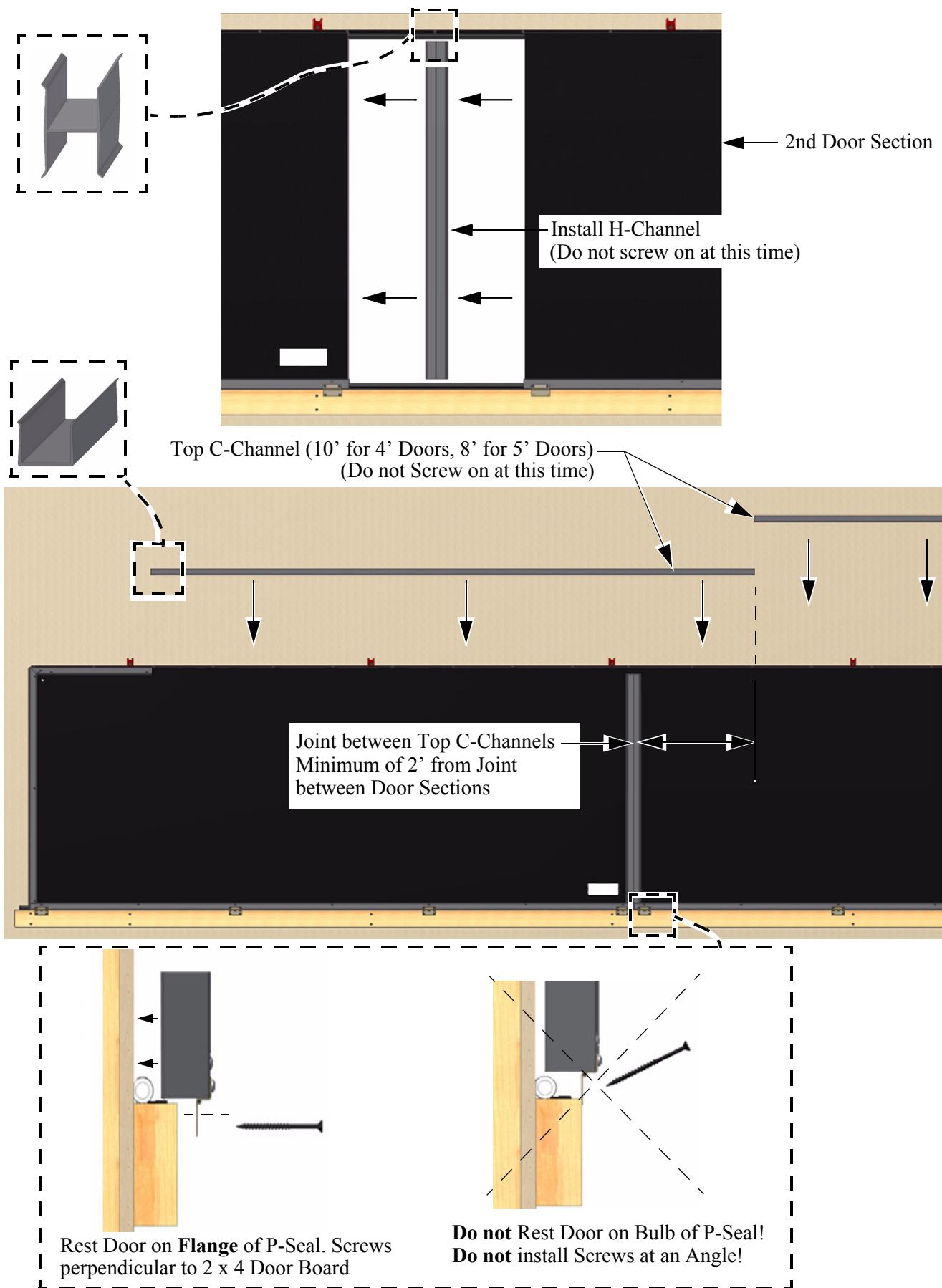
# Door Installation



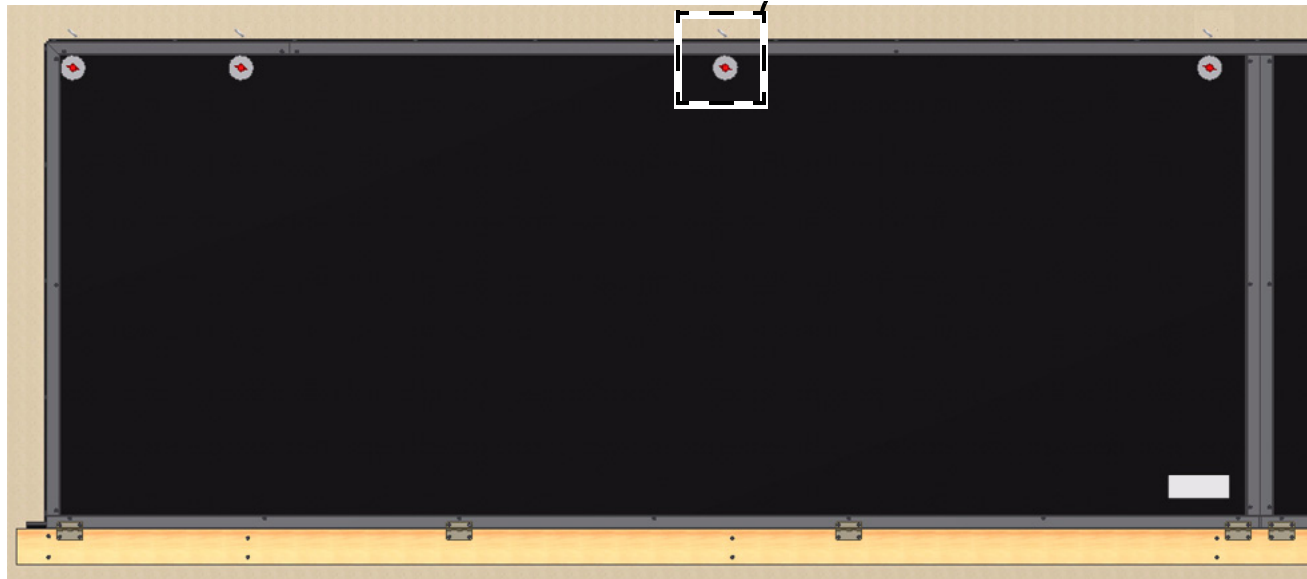
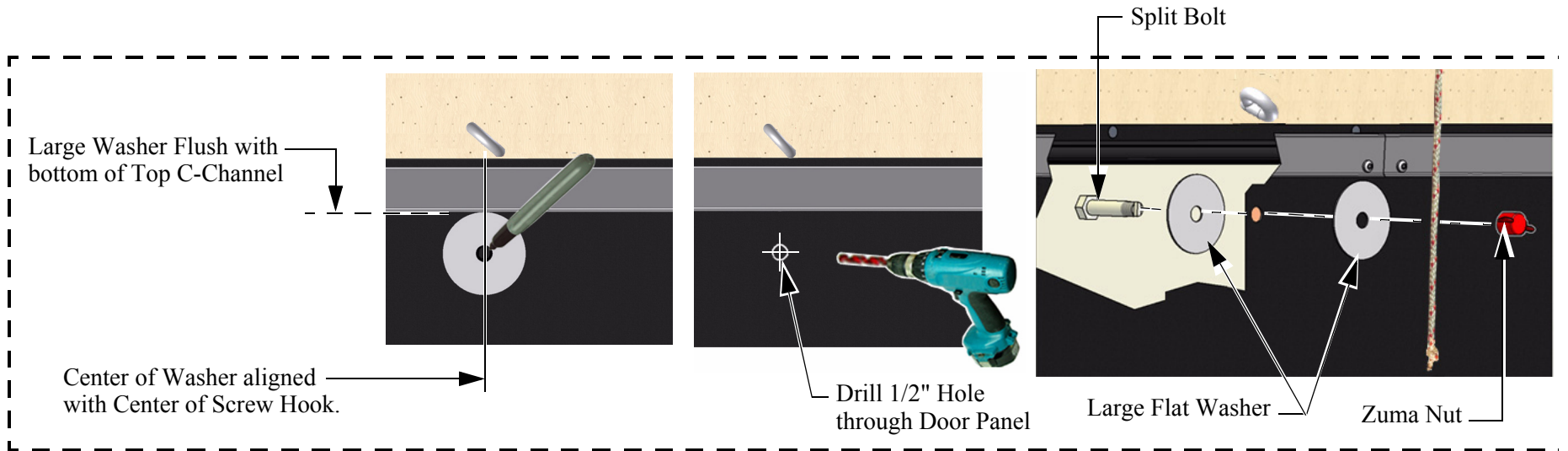
Notch one end of end C-Channel. Attach it to the End of the 1st Door with 1/2" Screws.



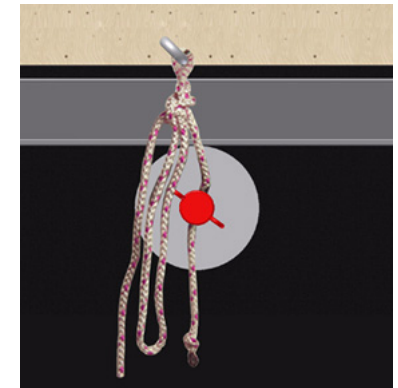
## Adding Door Sections



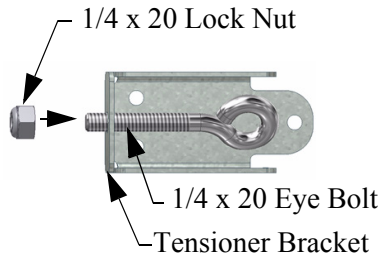
# Installation of Split Bolts for Rope Attachments (Rope Version only)



Cut Rope to length...  
 60" (4' Doors)  
 72" (5' Doors)  
 Tie off Doors at least every 30' while assembly is in process.



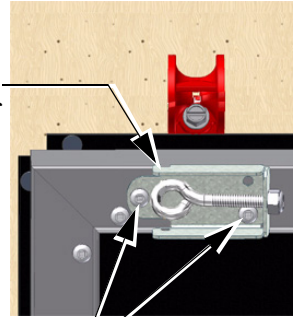
## Cable Tensioner and Cable Installation (Cable Version Only)



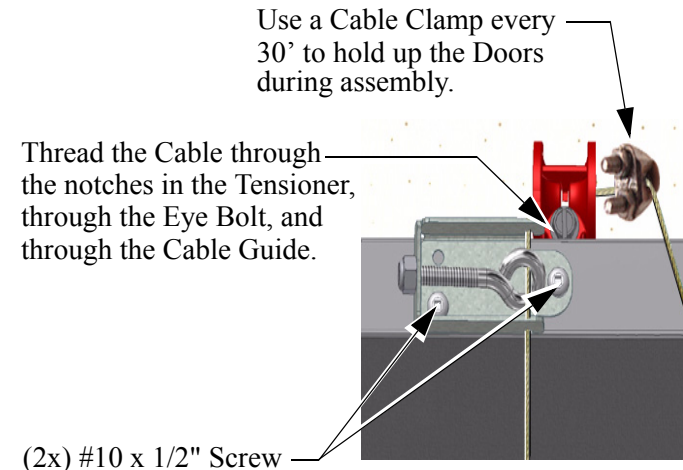
**Step 1**

### Door Ends

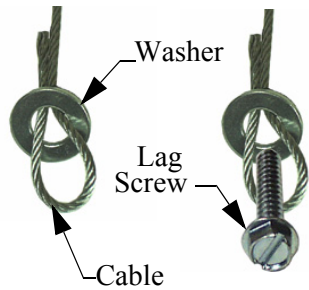
Notch in Tensioner lined up with edge of Cable Guide. Top of Tensioner Flush with Top of Top Channel.



**Step 2**

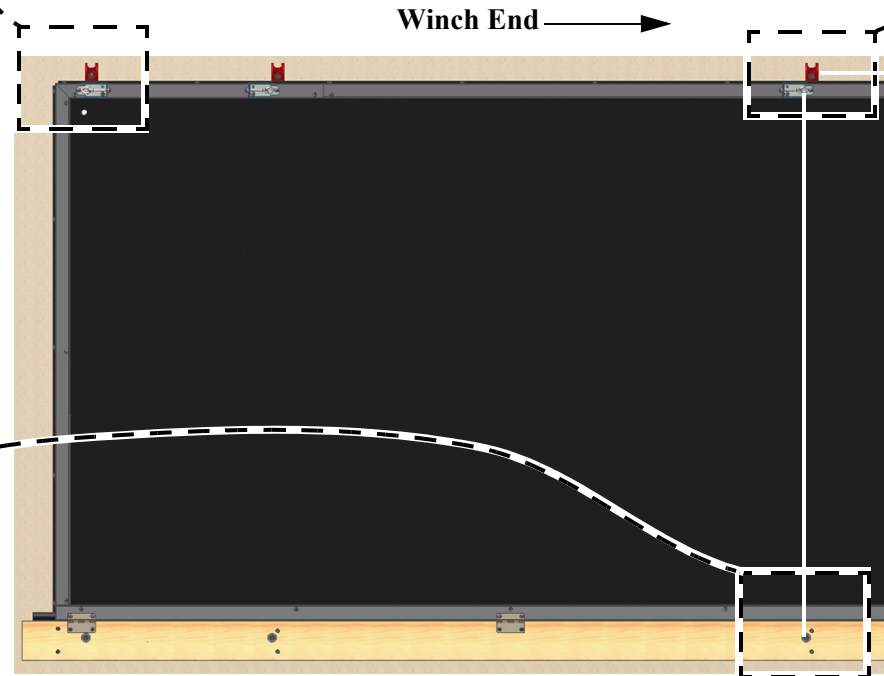


**Step 4**



Attach a Cable to the 2 x 4 Door Support with a Lag Screw as shown directly below the notch in each Cable Guide. Cable Length as follows:  
 4' Doors = 9' Cable  
 5' Doors = 10' Cable

**Step 3**





## Installing Remaining Door Sections

**Step 1.** Cut the last Door and Bottom C-Channel off 1" past Black P-Seal Bulb. Remove the last Hinge and Re-attach it as shown if necessary.

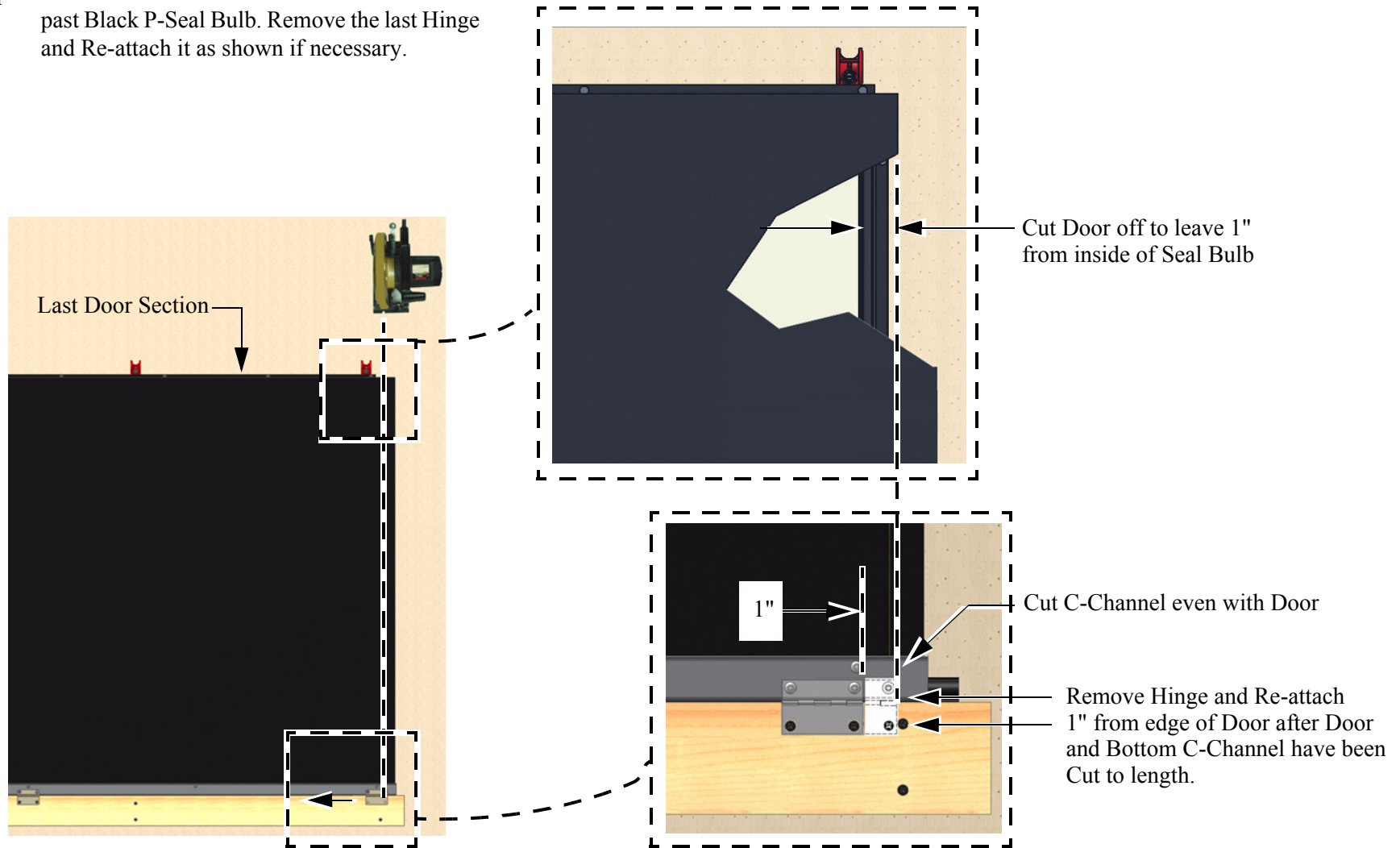


Figure 10. Installing last Door Section

## Last Door Section (Continued)

**Step 2.** Attach all of the Top C-Channels and H-Channels with 1/2" Screws **as shown**.

**Step 3.** Miter and Attach the last Top C-Channel with 1/2" Screws.

**Step 4.** Notch the end, and attach it to the end of the last Door with 1/2" Screws

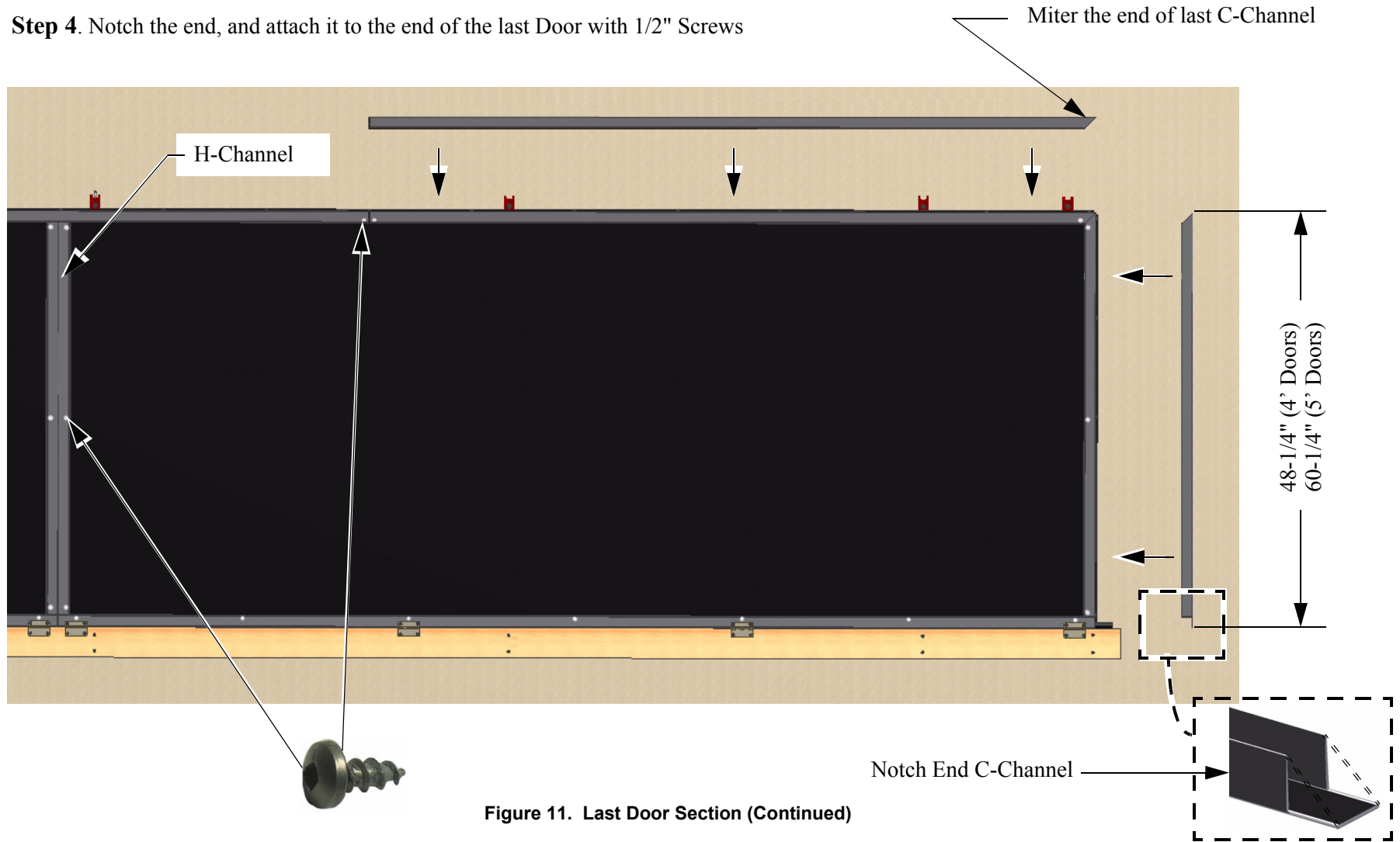
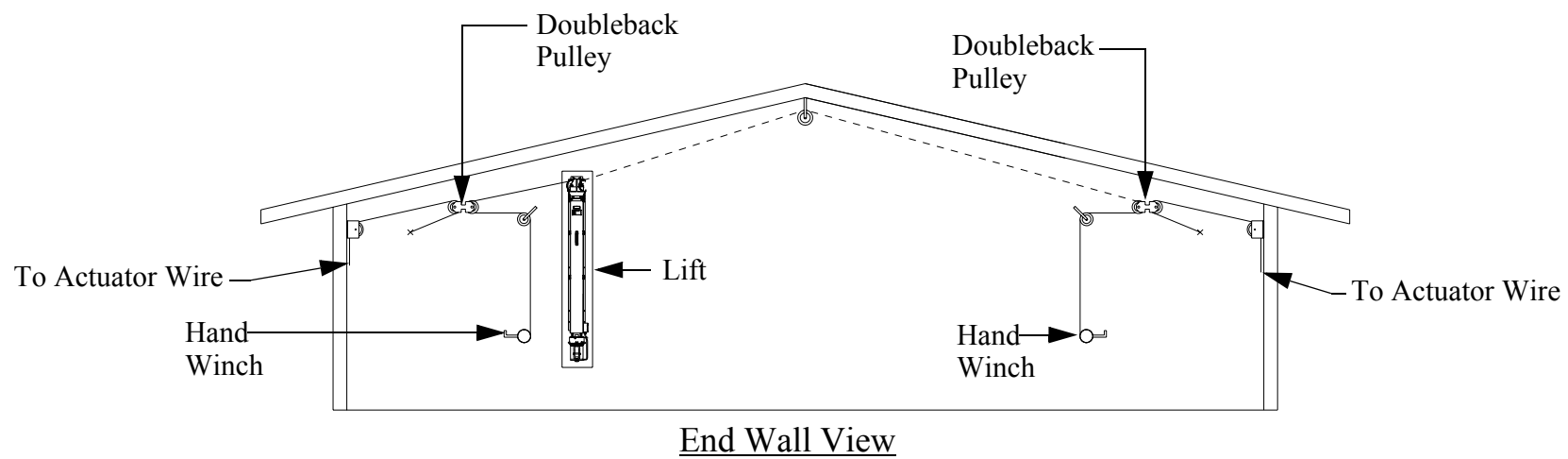


Figure 11. Last Door Section (Continued)

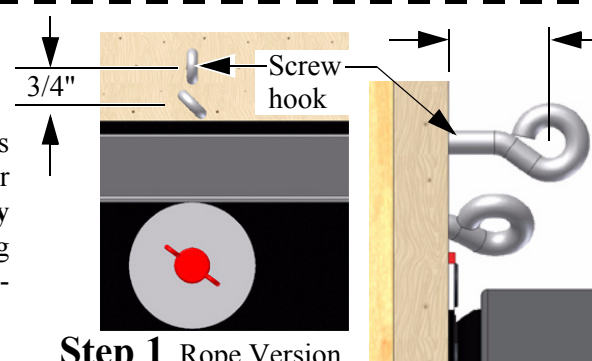
## Winch Installation





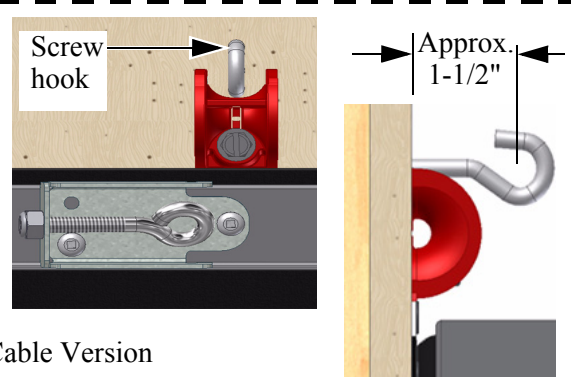
# Door Suspension Installation

Install Screw-hooks 3/4" above the lower Screw-hooks at **every other** drop starting with the 2nd drop opposite the Winch.



**Step 1. Rope Version**

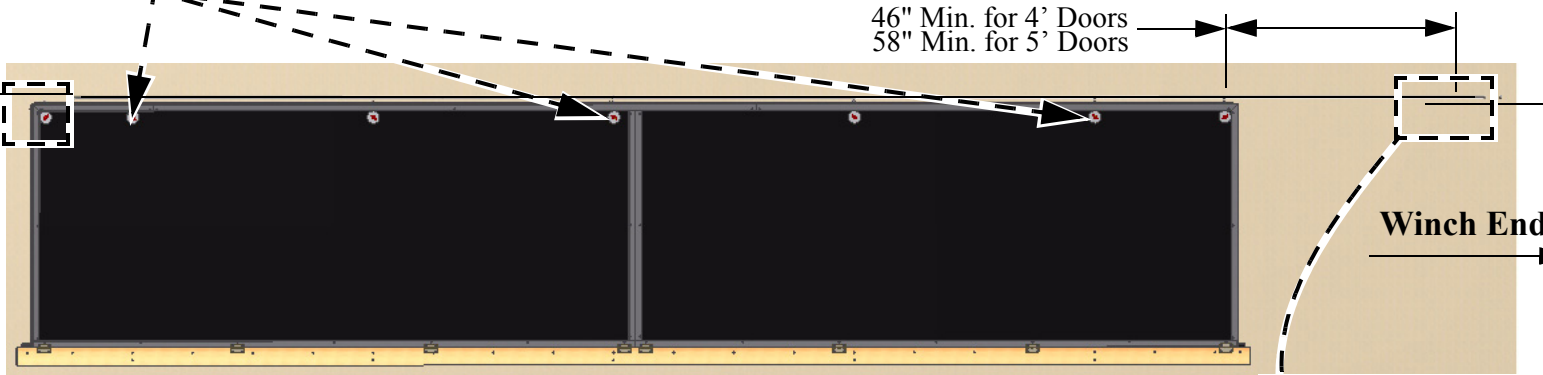
Approx. 1-1/2" Install Screw-hooks flush with the top of the Cable Guides at every other drop starting with the 2nd drop opposite the Winch end.



**Step 1. Cable Version**

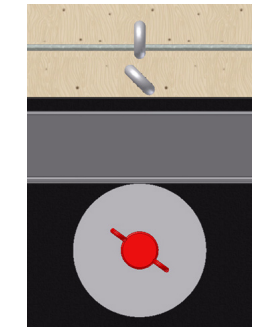
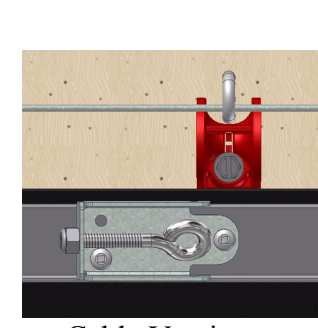
46" Min. for 4' Doors  
58" Min. for 5' Doors

**Counterweight installation shown on next page.**




**Winch End**

String Actuator Wire through the Eyehooks from one end of the System to the other. At the Winch End extend the Wire past the edge of the Door


**Step 2.**



Squeeze the Screw-hooks closed.

**Step 3.**

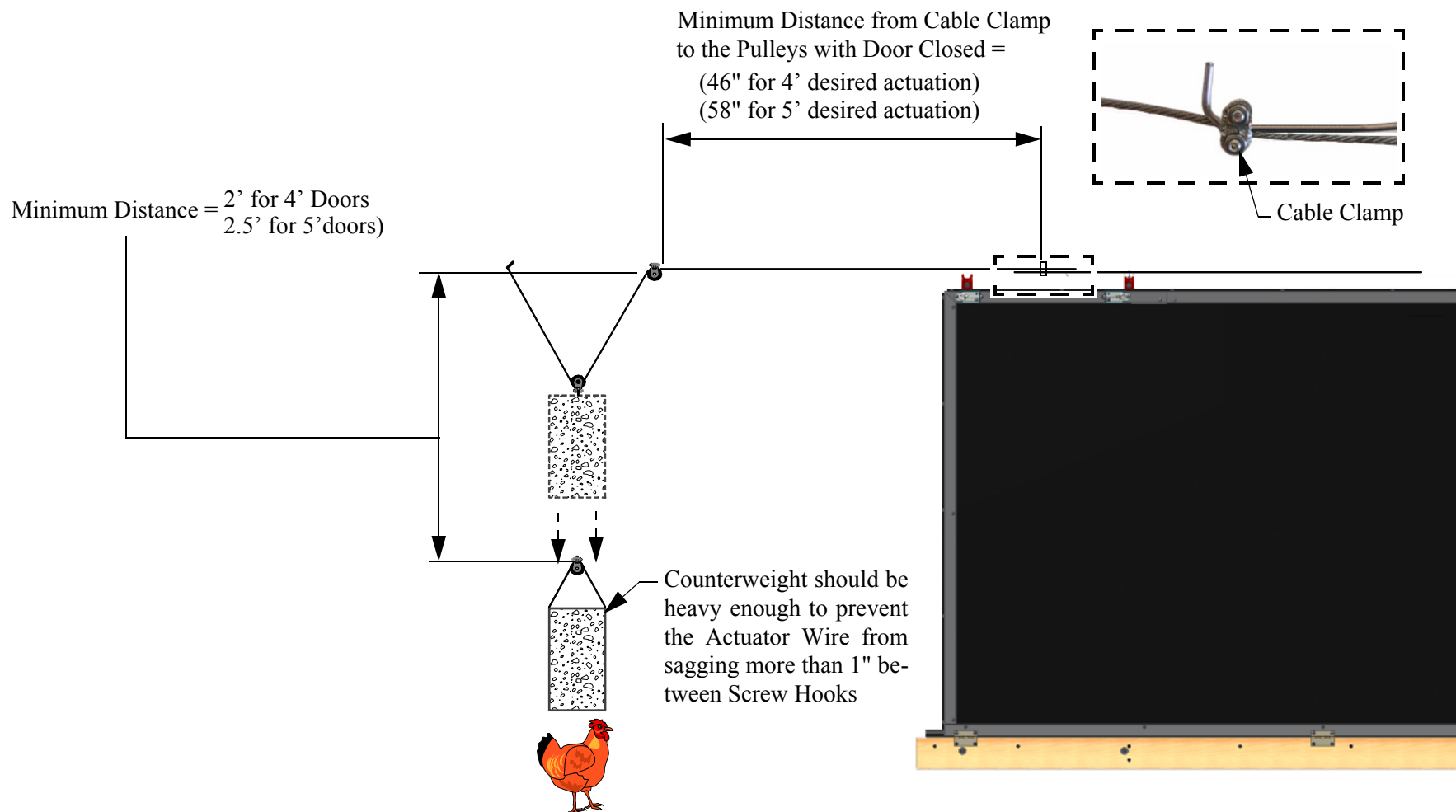
Bend the Actuator Wire 1/2", 90° at both ends



Attach Main Cable to the Actuator Wire with Three Cable Clamps alternated 180° as shown

**Step 4.**

## Installing Counter Weight

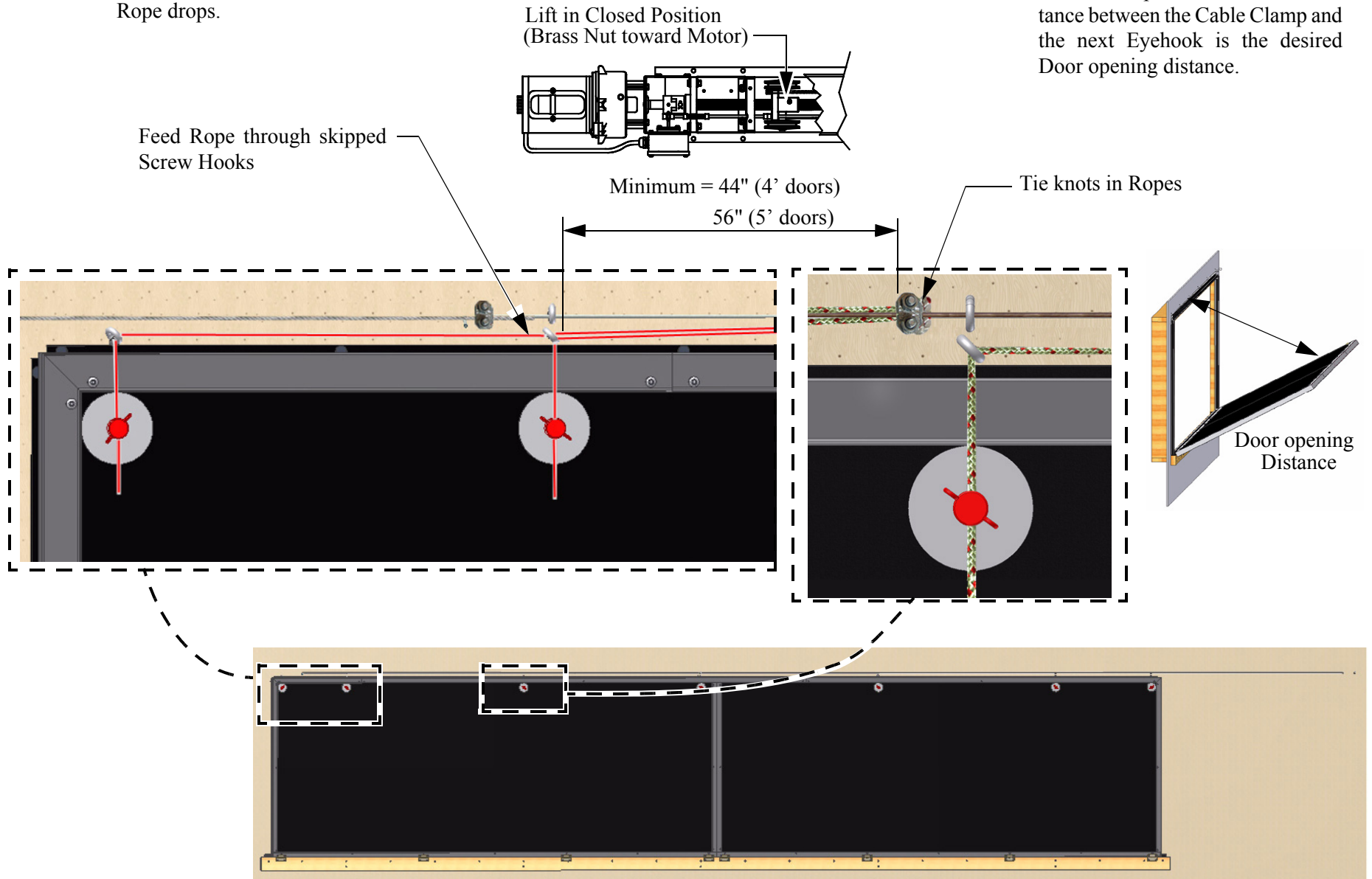


## Rope Attachment

**Step 1.** Use the Hand Winch to pre-stretch the Main Cable before installing Rope drops.

**Step 2.** Run Lift to the fully closed position.

**Step 3.** Attach Ropes to Door Wire with a Cable Clamp. The Minimum distance between the Cable Clamp and the next Eyehook is the desired Door opening distance.

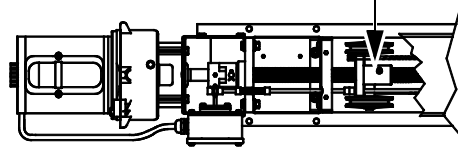


## Cable Attachment

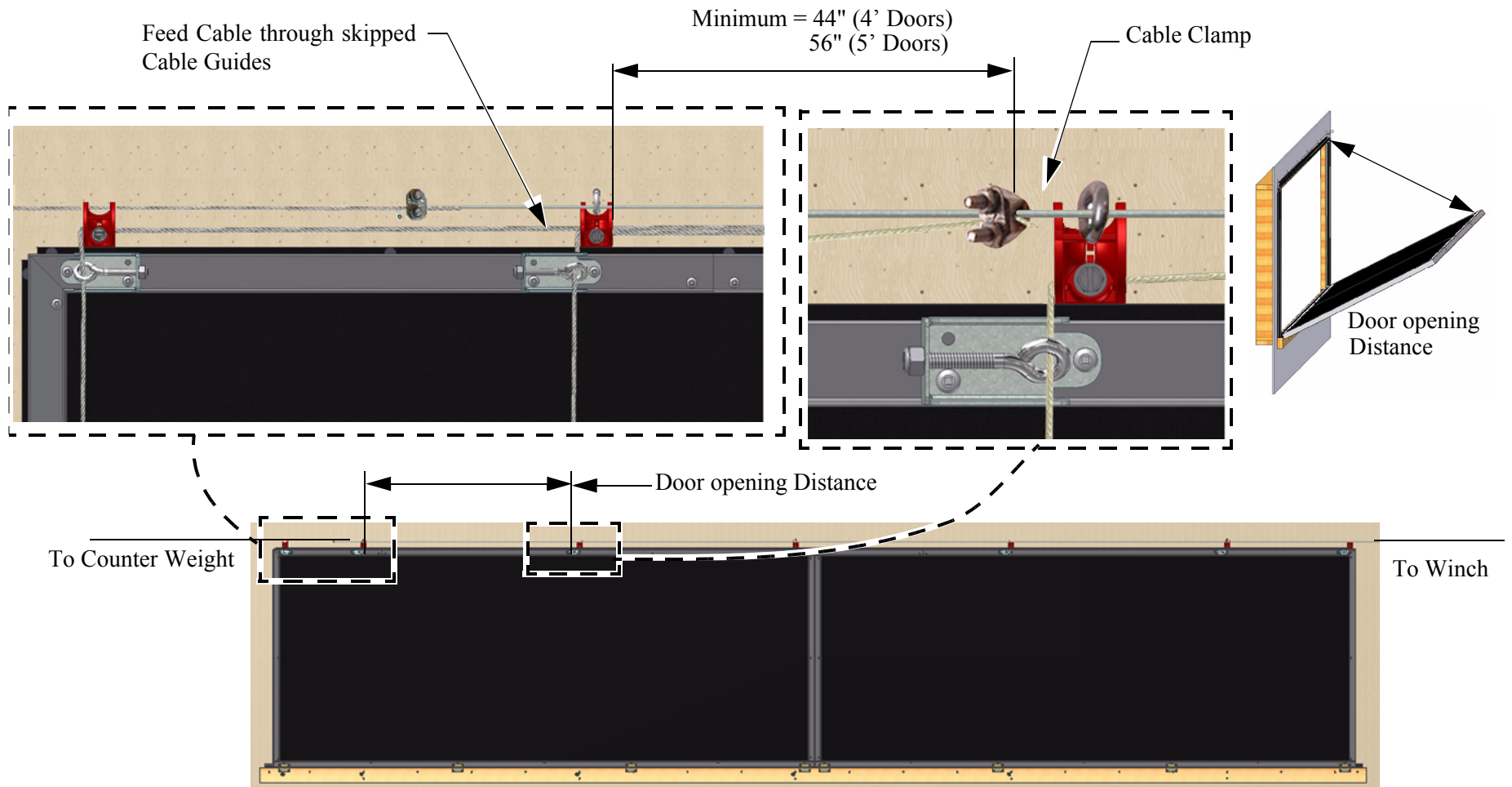
**Step 1.** Use the Hand Winch to pre-stretch the Main Cable before installing Cable drops.

**Step 1.** Run Lift to the fully closed position.

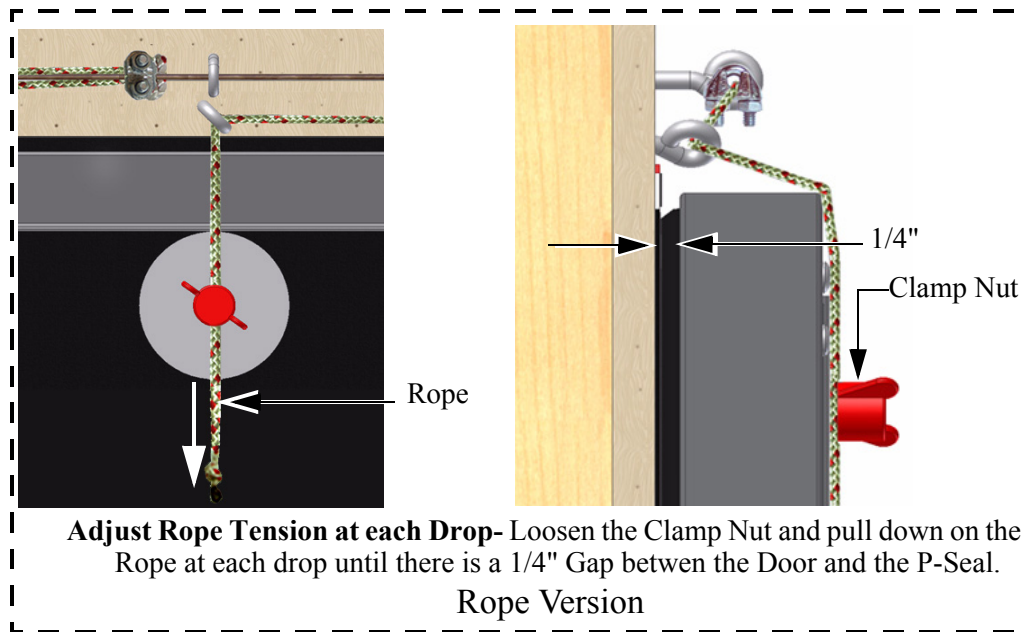
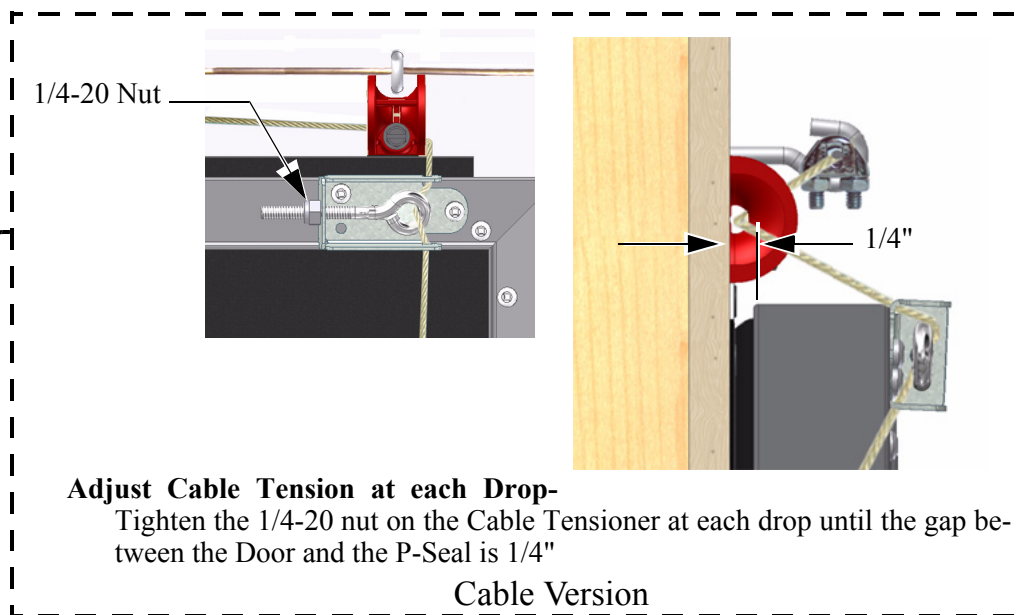
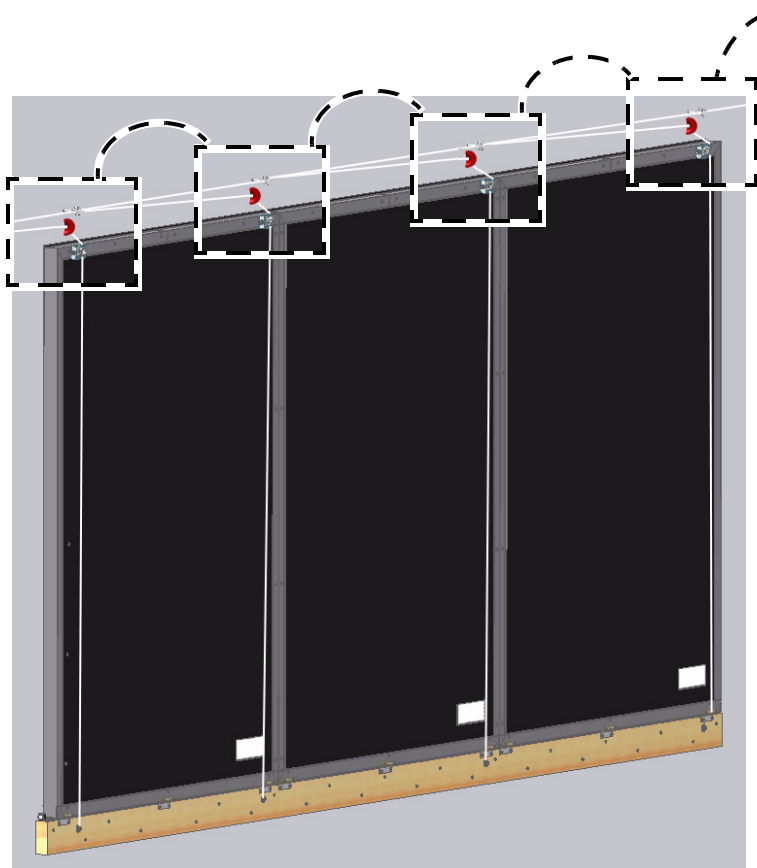
Lift in Closed Position  
(Brass Nut toward Motor)



**Step 3.** Attach Cables to Door Wire with a Cable Clamp. The Minimum distance between the Cable Clamp and the next Eyehook is the desired Door opening distance.



## Final Door Adjustment





# Itemized Parts

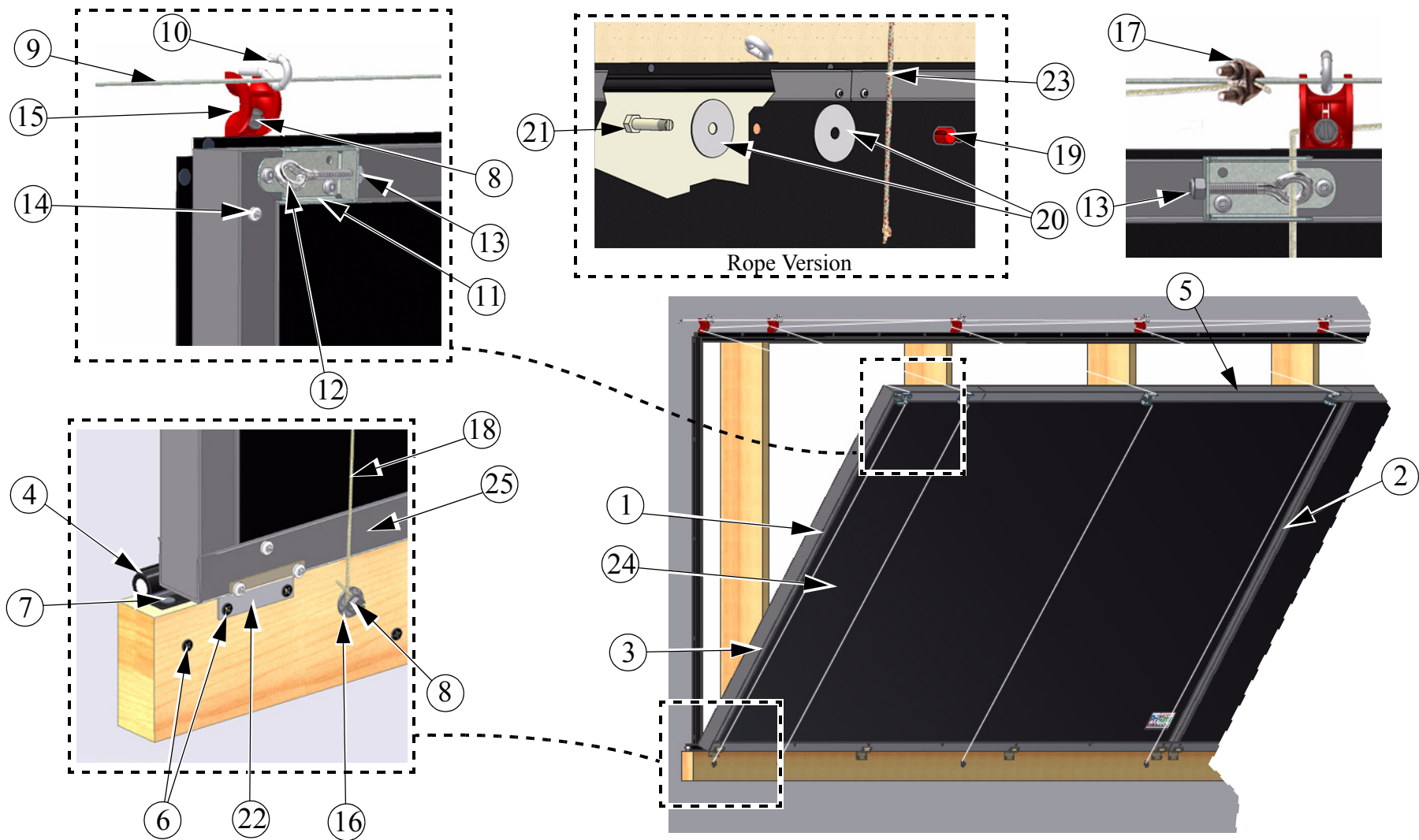


Figure 45. Part Numbers

# Part Numbers

Item	Description	Models	
		4' Door	5' Door
		Part No.	Part No.
1	48" Tall x 120" Blk Tunnel Door Section	51345 <sup>5</sup>	--
	60" Tall x 48" Blk Tunnel Door Section	--	51528 <sup>6</sup>
2	45.63" Blk. H-Channel (Sq. ends)	51153-7	--
	57.63" Blk. H-Channel (Sq. ends)	--	51153-8
3	48.32" Blk C-Channel 45° Ends	51152-1	--
	60.32" Blk C-Channel 45° Ends	--	51152-2
4	3/4" Bulb Seal (Blk. with Flange)	51488	51488
5	96.55 C-Channel (Blk. w/ Sq. Ends)	--	51152-9
6	#9-9x3Quadrex Drive Wood Screw	50241 <sup>2</sup>	50241 <sup>2</sup>
7	2D x 1 11 Gauge Roofing Nail	50239 <sup>2</sup>	50239 <sup>2</sup>
8	1/4 x #10 x 1.75 Lag Screw	51039	51039
9	Actuator Wire (500')	48530A <sup>3</sup>	48530A
10	Screw Hook	1214	1214
11	Cable Tensioner Bracket	51489	51489
12	1/4 x 20x 1.625 Eyebolt	1928	1928
13	1/4-20 Hx Lock Nut (Nyl. Insert)	8159	8159
14	#10 x 1/2" Sq. Drive Panhead Screw	52102 <sup>2</sup>	52102 <sup>2</sup>
15	Cable Guide	51173 <sup>2</sup>	51173 <sup>2</sup>
16	.406 x .812 x .065 Washer	4967	4967
17	.125 Cable Clamp	14898	14898
18	3/32-7x19 Aircraft Cable	28394	28394
19	Split Bolt Cap	40788	40788
20	Large Washer for Split Bolt	50234	50234
21	Split Bolt	50236	50236
22	1.5 x 2.5 SS Hinge	51917	51917
23	Rope	5-37173 <sup>4</sup>	5-37173 <sup>4</sup>
<b>Available Replacement Panels</b>			
24	1.5 x 48 x 120 Blk FRP Panel	51344	
	1.5 x 48 x 60 Blk FRP Panel		51344-6
25	48.55 C-Channel (Blk. w/ Sq. Ends)	--	51152-7
	120.55 C-Channel (Blk. w/ Sq. Ends)	51152-10	

<sup>1</sup> Seal must be ordered in increments of 200'

<sup>2</sup> Must be ordered in increments of 100 pieces

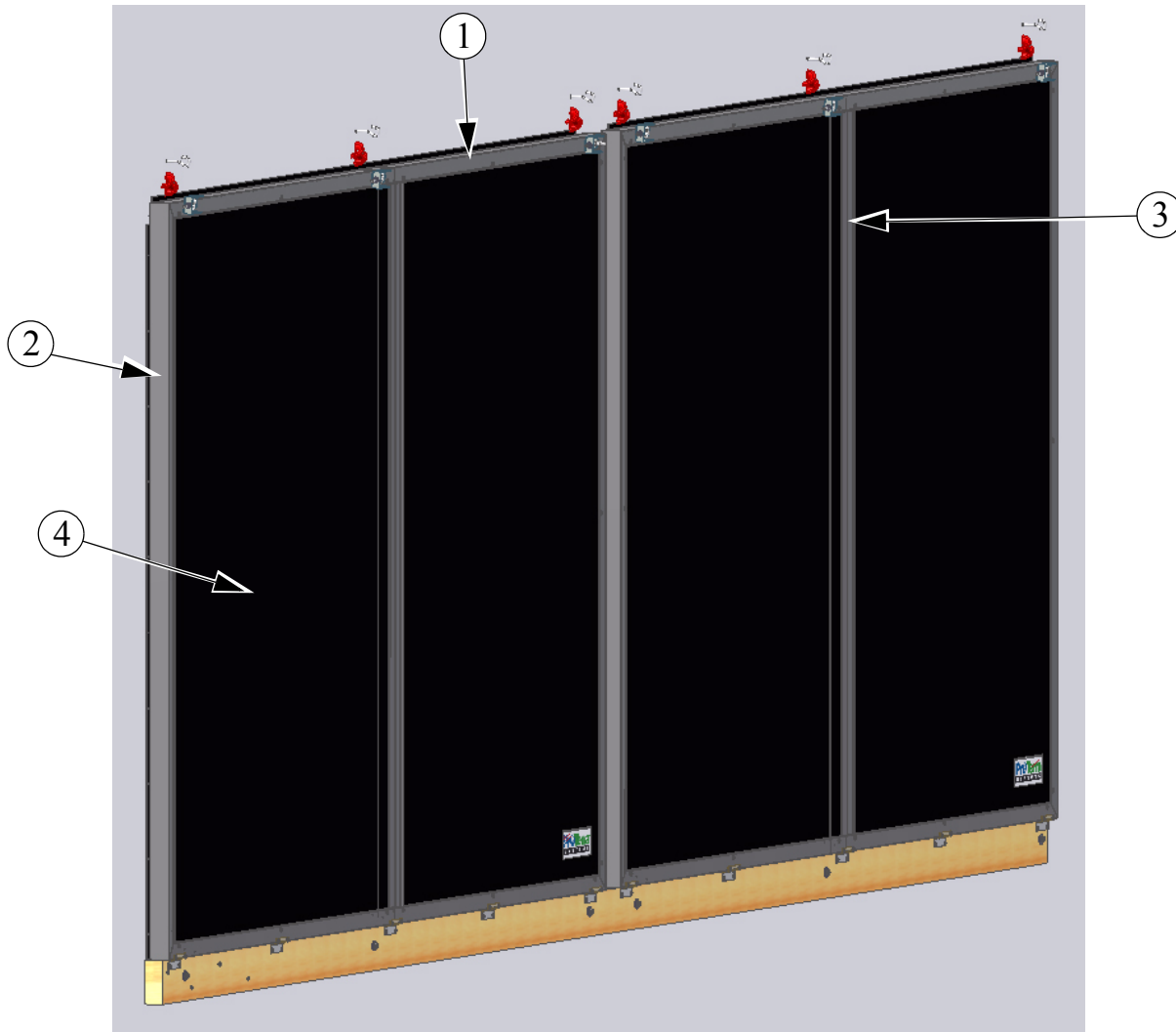
<sup>3</sup> Actuator wire must be ordered in increments of 500' coils under part number 48530

<sup>4</sup> Rope must be ordered in increments of 1000' 5-37173-1000

<sup>5</sup> Section includes 51344 Panel with 51152-10 Top and Bottom C-Channels and 51917 Hinges assembled

<sup>6</sup> Section includes 51344-6 Panel with 51152-7 Bottom C-Channel and 51917 Hinges assembled

## Itemized Parts (Individual Doors)



Item	Description	Size, Assembly Part No. and Component Part Numbers					
		4' x 48"	4' x 93"	4' x 115"	5' x 48"	5' x 93"	5' x 115" Door
1	Top and Bottom C-Channel (45° ends)	51152-1	51152-3	51152-5	51152-1	51152-3	51152-5
2	Side C-Channel (45° ends)	51152-1	51152-1	51152-1	51152-2	51152-2	51152-2
3	H-Channel	--	--	--	--	51153-8	51153-8
<b>Available Replacement Panel Sizes</b>		<b>Part No.</b>					
4	Panel, 1.5" x 48" x 60" Black FRP	51344-6					
	Panel, 1.5" x 48" x 96" Black FRP	51344-8					
	Panel, 1.5" x 48" x 120" Black FRP	51344					



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### Revisions to this Manual

Page No.	Description of Change
Various	New Manual

Contact your nearby Chore-Time distributor or representative for additional parts and information.

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