FAROMOR

Vertical Insulated Panel



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Introduction

Faromor manufactures an **Insulated Wall Panel (VIP)** that is used in those applications when heat loss and freezing concerns outweigh the benefits of natural light. This could be the case in areas of extreme winter temperature and/or applications where the operator wishes to maintain warmer interior temperatures. These conditions can promote condensation & associated icing that can be objectionable or adversely affect panel operation.

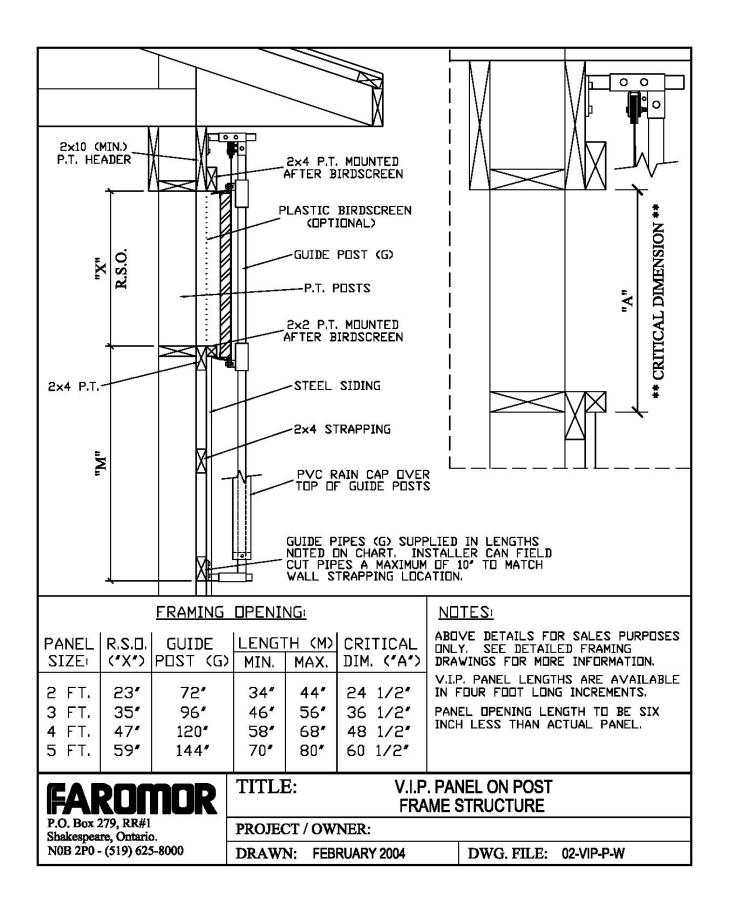
Should natural light still be desired these panels can be equipped with fixed thermal windows. Operating hardware and guide system is the same as used with the Solar and Clear-Vu products.

General Considerations

**Please read the following notes prior to installing the VIP panel:

- 1) Verify framing details are correct, as per page 4, to assure installation will work properly.
- 2) Read all instructions prior to beginning installation to familiarize yourself with parts and terminology.
- Confirm what appendixes are required for your specific installation (E.g. Manual vs automatic)
- 4) Watch for "Faromor Tips" on installation pages for pointers that will assist with installation.
- 5) Please read final page "Finishing Tips and Touches" before completing installation.

Framing Detail





Parts Listing

ltem #	Part #	Description	Picture
1	03-210-01	Top tubular stand-off	
2	03-340-01	Solar glide	
3	MDBLGRAY	Double finger rubber seal	
4	03-220-01	Top elbow	
5	03-230-01	Bottom elbow	
6	PCHJOIN	PVC "H" joiner	
7	02-200-01-05	PVC top channel x 8'	
8	02-200-01-10	Aluminum bottom channel x 8'	
9	03-240-01-01 03-240-02-01 03-240-03-01 03-240-04-01	Guide post for 2' panel Guide post for 3' panel Guide post for 4' panel Guide post for 5' panel	
10	PVCRAINCAP	PVC rain cap for guide system	B
11	03-250-01-01	Nylon rain cap bushing	\bigcirc

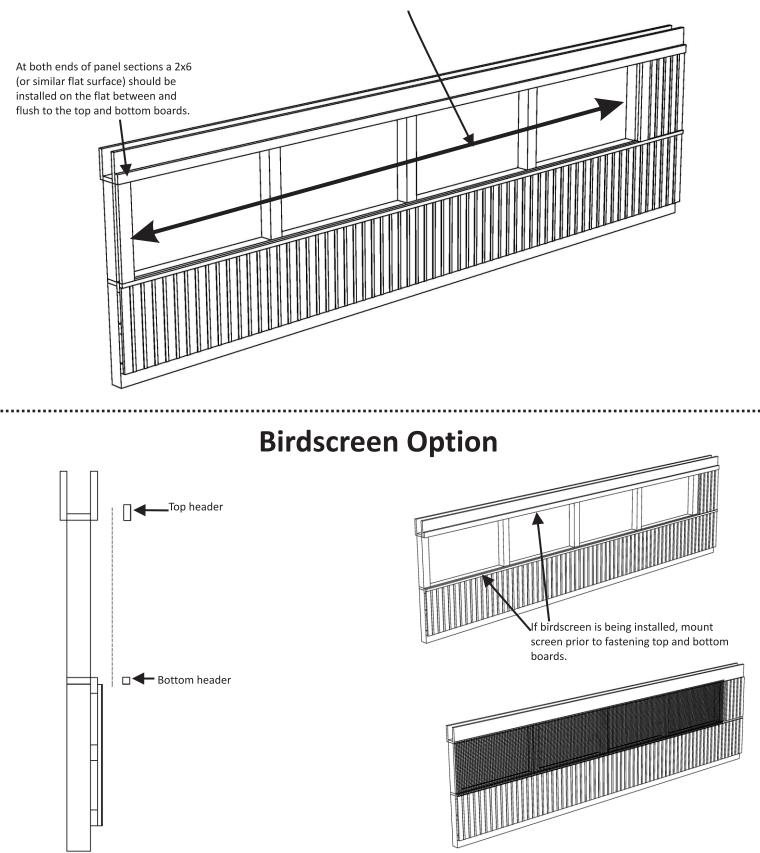


Parts Listing

ltem #	Part #	Description	Picture
12	02-301-01 02-301-03 02-301-04	Textured FRP panel - 2'/3'/4'	
13	08-210-24-11	Galvanized VIP panel joiner	0 0 0 0 0
14	08-100-28	Brake winch and bracket	
15	08-110-04	End pulley bracket	
16	03-320-01	Stainless steel reverse pull-up pulley	
17	BZHLB516112 SSMS812TAP SSMS1034TAP	5/16" x 1-1/2" hex head lag #8 x ½"s.s. self tapping screw #10 x 3/4" s.s. screw	
18	08-210-24-05 08-210-24-12	3/16" s.s. cable 7x19 flexible 3/16" s.s. cable 1x19 stiff	
19	08-200-17-04 08-210-24-04	1/8" cable clamp 3/16" cable clamp	
20	20-300-34	White caulking	
21	03-240-01-06	Aluminum joiner x 5″	lo
22	SZ10X58HWSD	#10 x 5/8 hex self screw	

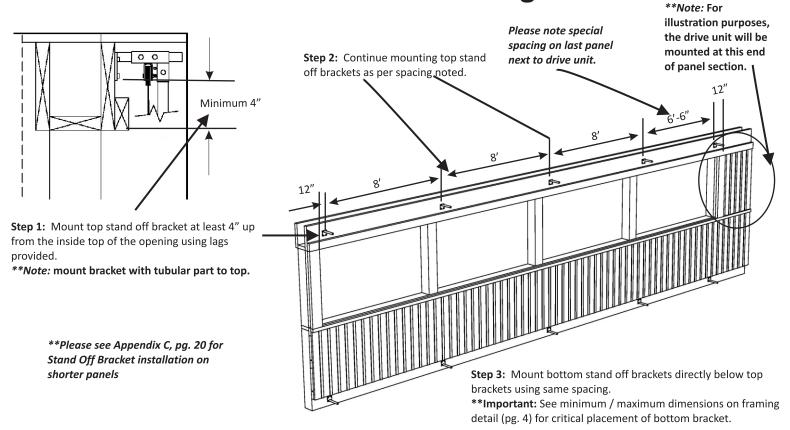
End of section framing

**Note: Finished opening size for length should be 6" less than actual panel size. i.e: 64' panel should have opening of 63'-6". This allows for 3" overlap on each end for full weather seal.



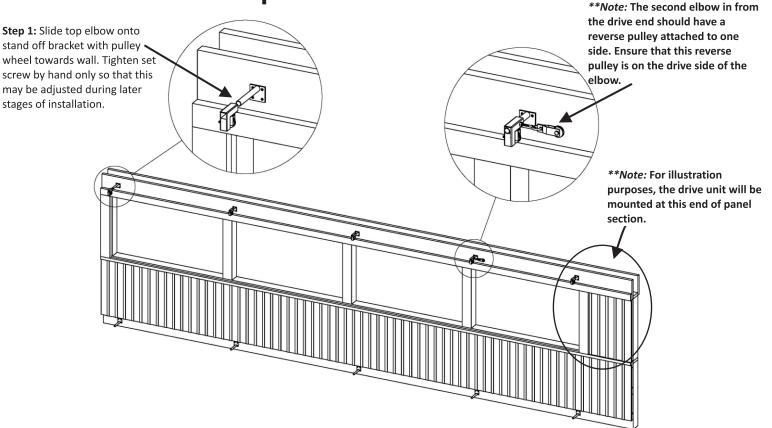
Faromor Tip: It is recommended that the birdscreen be mounted prior to framing panel openings so that the screen is sandwiched between boards.

Stand off bracket mounting detail

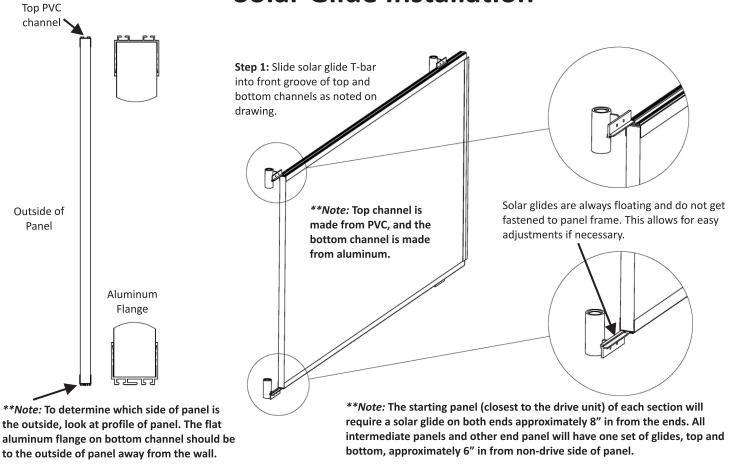


Faromor Tip: Ensure plumbness of top/bottom brackets to make sure guide posts are straight. If guides are not straight binding will occur.

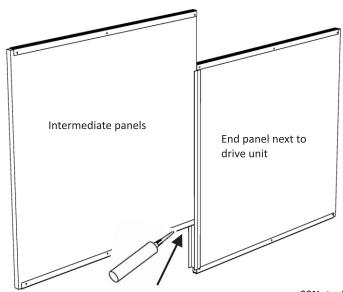
Top elbow installation



Solar Glide Installation



Panel Connection



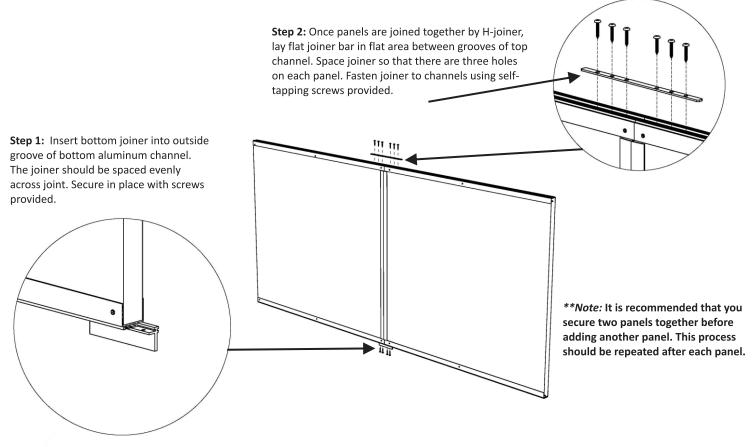
Step 3: Take next panel and slide open end into H-joiner of first panel. Start panel towards top and slide to bottom. Ensure that panels are level and pushed tight together.

Step 2: Caulk H-joiner on first panel with caulking provided, being sure to do both inside edges of H-joiner.

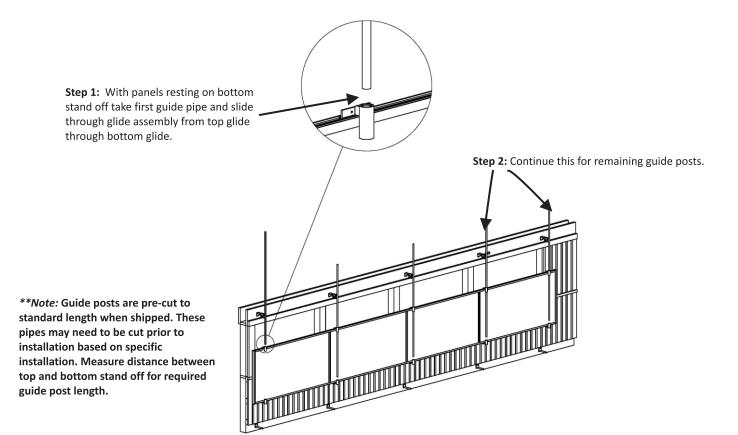
****Note:** It is recommended that you secure two panels together (see next page), before adding another panel. This process should be repeated after each panel.

Step 1: Take one of the end panels with solar glides already mounted and stand panel on stand off brackets at bottom of wall

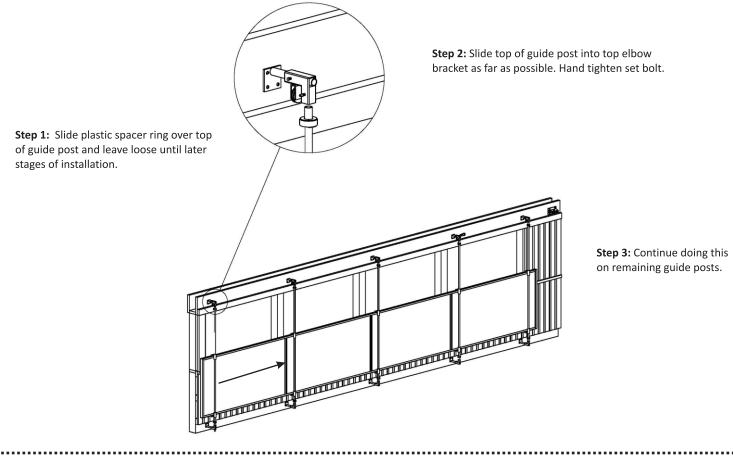
Securing Panel Joiner



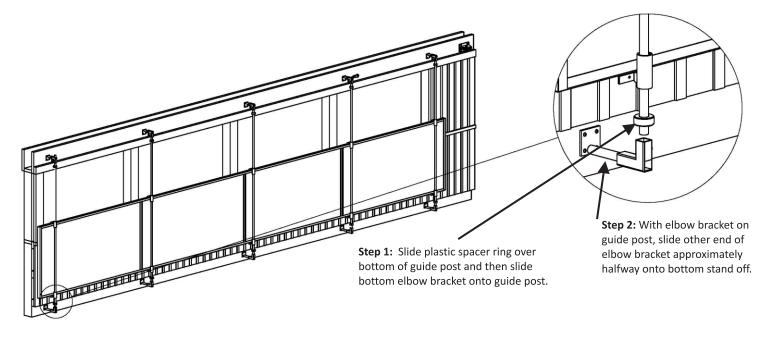
Guide Post Installation



Guide Post Installation - cont'd



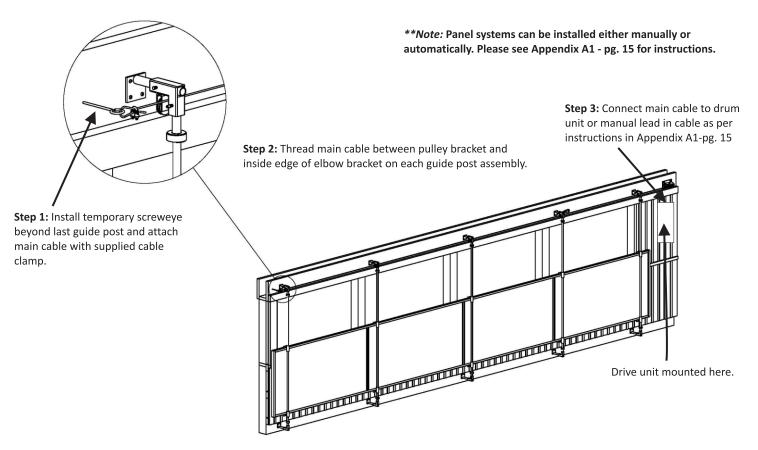
Guide Post Installation - cont'd



Step 3: Continue doing this on remaining guide posts.

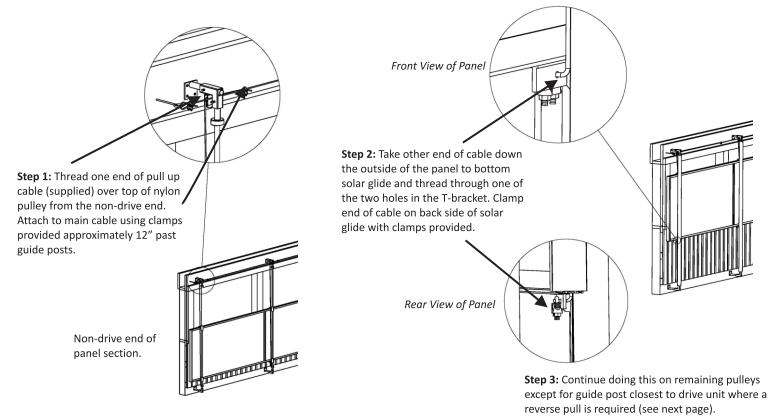
Faromor Tip: All set bolts should be hand tightened only. Final adjustments will be made upon completion of installation.

Main Cable Installation

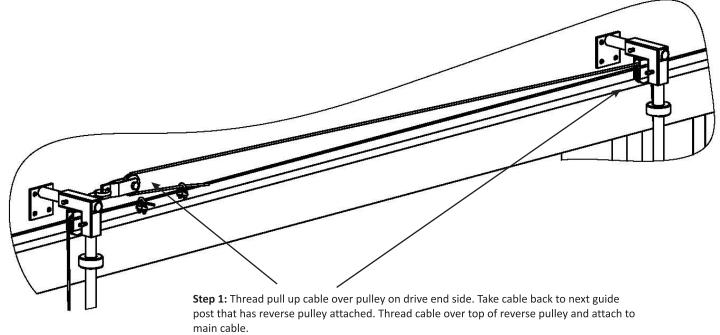


Pull Up Cable Installation

Panel should be in open position when connecting pull up cables. Final cable adjustment can be done at end of installation.

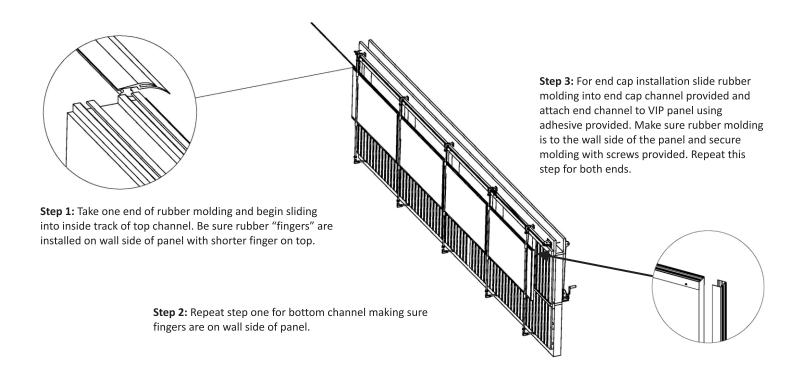


Reverse Pull Up Cable Installation



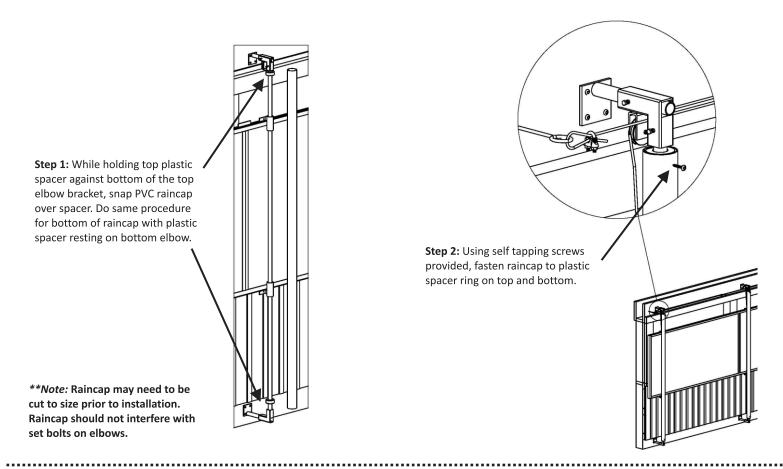
****Note:** Be sure this cable is attached in front of previous pull up cable.

Rubber Molding Installation



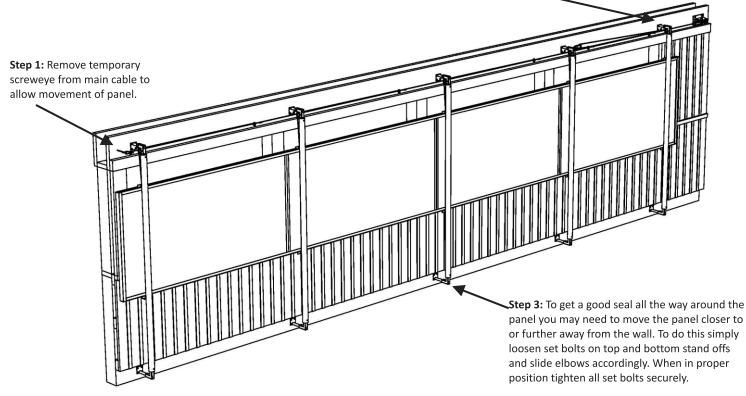
Faromor Tip: Where joint in rubber molding may occur, fasten end of molding to top or bottom channel using stainless steel screws provided. At ends of panels, cut off excess and screw down to hold in place.

PVC Raincap Installation



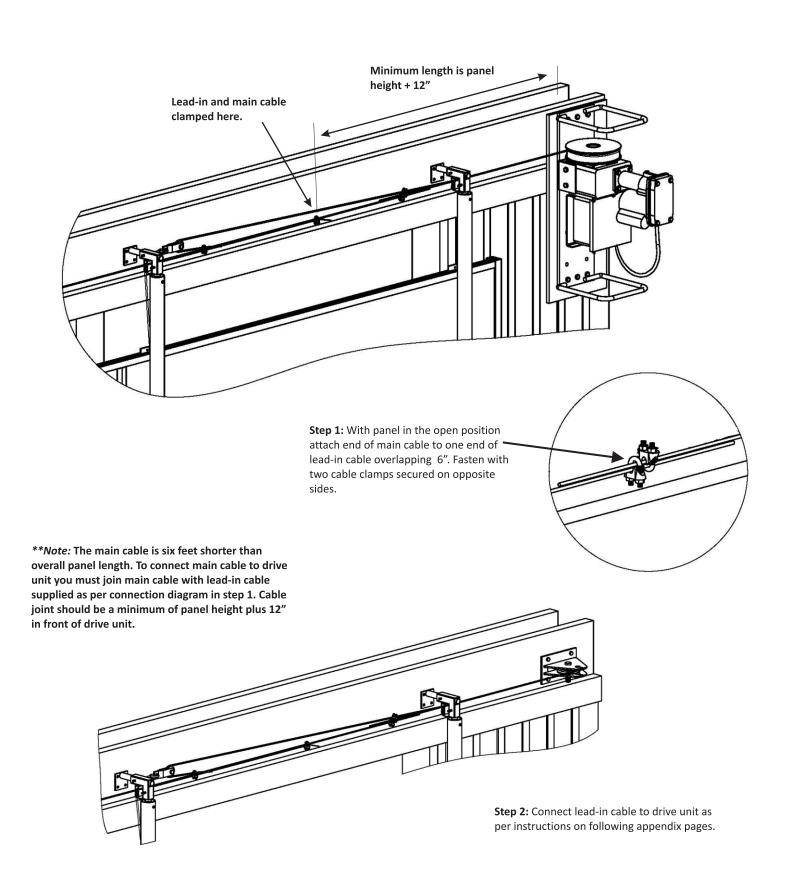
Installation Completion

Step 2: Adjust all pull up cable lengths so that panels are level with one another, and to permit seal closure at top of opening and bottom of opening when panel is in closed position.



Appendix A1 - Drive Unit Installation

Main cable to lead in cable connection

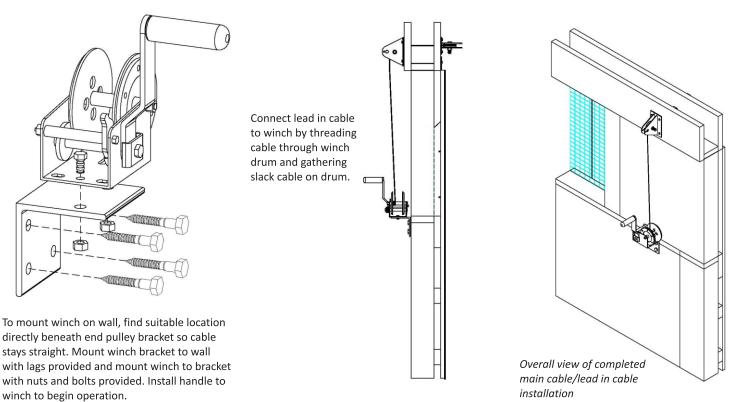


Appendix A2 - End Pulley Bracket Installation

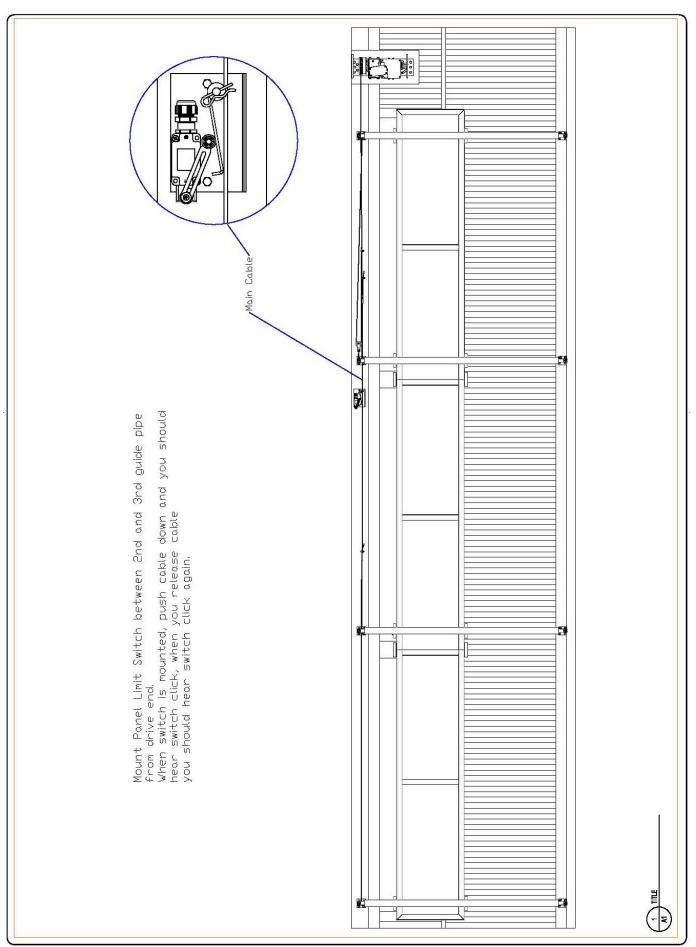
Block pulley should be mounted in line with top elbows. It should be mounted at least 6" past end of panel. *Note: pulley must be mounted horizontally so it turns cable into the wall. Interior block pulley A hole must be should be mounted The outside block pulley and inside block pulley must line up for proper drilled through vertically to direct cable main cable operation. header so the down towards winch. **See next diagram. cable can pass through the building. Brake winch and bracket should be mounted at suitable height for operator with handle facing away from wall. The main cable should wrap several times around drum and secured to drum. Outside Inside

Appendix A3 - Manual Winch Installation

Manual drive units are interchangeable from right-hand to left-hand. **Illustration is for a right hand drive unit

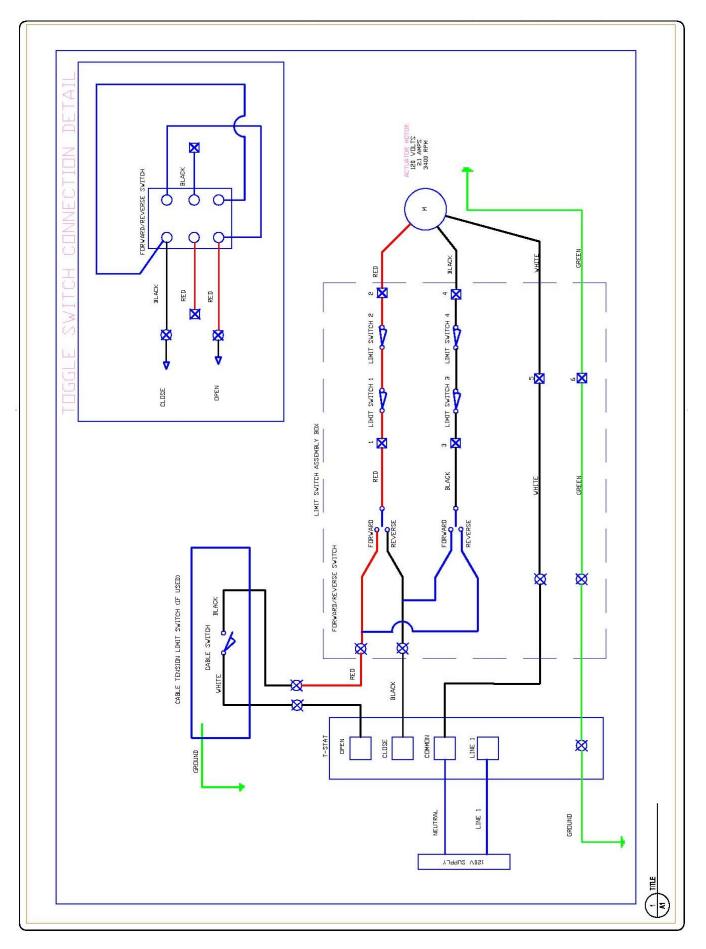


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Appendix A4 - Panel Switch Mounting

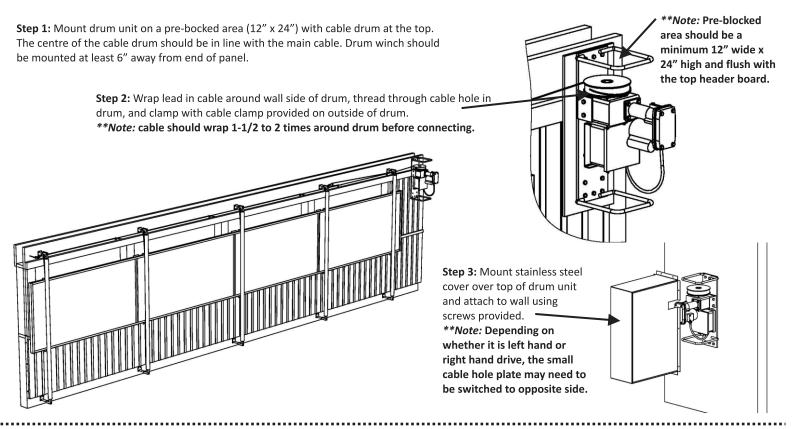
Appendix A5 - Panel Switch Wiring



Appendix A6 - Automatic Drive Unit Installation

Automatic drum winches can be a left or right hand drive unit.

**For illustration purposes, the diagram below depicts a right hand drive unit.



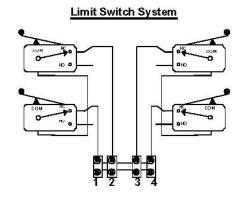
Appendix B1: Limit Switch System

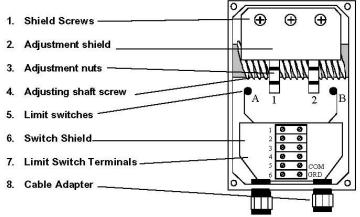
- a) Remove adjustment shield 2.
- b) Momentarily jog to verify that it is clockwise rotation. Adjusting nut 1 must be traveling towards limit switch A.
- c) If unit is rotating in the wrong direction, reverse motor leads or reverse limit switch connections such that wires 1 and 2 connect to terminals 3 and 4 and wires 3 and 4 go to terminals 1 and 2 respectively.

Note:

Depending on right hand or left hand positioning of drive requires opposite rotation.

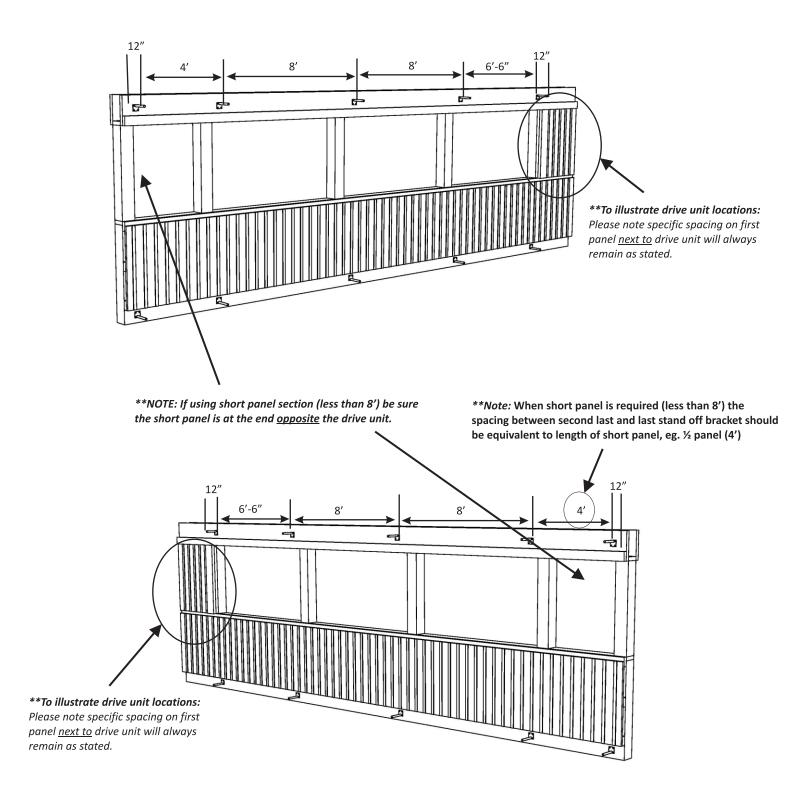
- d) While motor is running in the clockwise direction turn adjusting nut 1 with screwdriver or finger until desired vent location and the motor is stopped.
- While holding adjusting nut 1, adjust in the counter clockwise direction by repeating step d) using adjusting nut 2 and limit switch b.
- f) Replace adjustment shield 2 in reverse position from which you received it from the manufacturer ensuring that the shield edge retains the adjusting nuts in place.
- g) Replace cover to avoid dirt and humidity entering limit switch compartment.





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Appendix C: Bracket spacing on panel sections with one short panel (<8')



Faromor Tip: Be sure that last pull-up cable on short end panel does not interfere with second to last pull-up and pulley when attached to main cable.

Finishing Tips and Touches

- 1) It is very critical to make sure all guide posts are vertically straight to ensure panel does not bind while moving up and down the posts. In the closed position, adjustments can be made on pull up cables to ensure proper seal against top of opening and that the panel is level along the wall. Adjustments can also be made on elbow brackets to slide panel closer to or away from wall for proper weather seal. When closed, rubber molding should be partially folded over and touching bottom of top board and pulled up slightly on bottom of bottom board. These are the critical seal points for panel closure.
- 2) Double check all pull up pulleys and end pulleys (where required) to ensure smooth operation. Check all cable movements and ensure that no cables or clamps are getting caught or stuck which will result in panels not operating properly.
- 3) Make sure PVC raincaps are installed properly so they do not interfere with movement of panel glides on guide posts.
- 4) Check clamp connection between main cable and lead in cable to prevent separation of cables, which will result in panels falling.
- 5) Use a small piece of electrical tape to tape off all loose ends of pull up and main cables to prevent fraying of cable ends.

WARRANTY POLICY

Faromor Ltd. Warranty Policy covers all parts manufactured and supplied by Faromor. Warranty starts from date of initial installation of product and lasts one (1) year.

Faromor will also give full warranty on any installation labour we provide for a period of up to one (1) year from date of installation.

All digital thermostats have a two (2) year full warranty.



PANEL SYSTEM SAFETY

NOTE: ALL INSTALLATION OF ELECTRICAL CONTROLS SHOULD BE DONE BY A QUALIFIED ELECTRICIAN.

General Operation

AgSystems

- Panels should only be operated when the owner or other responsible persons are in the facility.
- Unauthorized persons or small children should not be near or have access to the outside or inside automatic/manual drive units as they may result in injury. Do not attempt to stop any automatic drive unit by hand while it is in operation.
- Do not attempt to adjust cables or pulleys while system is in operation.
- When making adjustments to automatic drive units, ensure that the override switch is in the "off" position so that the curtain cannot start while any work is being completed.

Protective Covering

- Ensure that all drive units (manual or automatic) have the covers installed where applicable.
- Electrical motors mounted on outside of building should be covered to prevent damage.

PANEL SYSTEM MAINTENANCE

SOLAR/CLEAR VU/VIP

- All cables (main and pull-ups) should be checked on a monthly basis to ensure proper operation. Over time, some cables may stretch causing uneven pull up of panel system. Where necessary, loosen cable clamp, pull cable tight and refasten clamp when panel is level.
- Ensure all cable clamps are tightly secured so it does not result in drop cables coming loose.
- · Check all pulleys for excess wear on wheels that may cause cable to get caught.
- Periodically check over aluminum panel joiners top and botom to ensure they are fastened tightly.

NOTE: FOR ANY SERVICE ON THERMOSTATS OR AUTOMATIC DRIVE UNITS, PLEASE CONTACT A SERVICE REPRESENTATIVE FOR ASSISTANCE. FOR ADJUSTMENT OF LIMIT SWITCHES SEE INSTALLATION MANUALS – ELECTRICAL SECTION.

General Cleaning:

- Use mild soap or detergents for cleaning any of our Faromor products do not use solvents or aggressive cleaning agents.
- High pressure washers can be used on all products but maintain a minimum distance from product of approximately 1m so as not to put too much pressure on the material especially fabric curtains.
- Ensure rolling curtains are in the fully closed position when washing so that excess water does not get caught in the rolls of the fabric allow the water to run completely off the curtains.
- Avoid direct pressure on any curtain area that has an existing hole or ClearVu panel that has an existing crack the added water pressure may cause more damage at those locations.
- FOR DRIVE UNITS it is recommended to do a simple hand cleaning of the units with warm water and avoid excess
 water around the motor, wiring or vent plugs so no water will enter the gears or damage the wiring this will cause
 premature failure.

NOTE: DO NOT USE HIGH PRESSURE WASHERS OR WATER OF ANY KIND TO CLEAN DRIVE UNITS OR THERMOSTATS – THIS WILL DAMAGE THE UNITS.

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