

## Single (Moni-Flo) Door Installation

1. Frame in opening 12" x 46-1/2". (See Figure 1 below and Figure 4 on Page 2.) See Figure 11 on Page 5 for one possible layout to integrate an inlet within a system.
2. Staple the insulation stop to the frame's opening, making sure it is flush with the bottom side of trussing as shown in Figure 1. The ends of the insulation stop on single units overlap as shown in Figure 2.
3. Center the inlet within the framed opening. Attach inlet to framed opening using flat head screws, so not to interfere with ceiling. (Doors may be removed for this step.) (See Figure 4 on Page 2.)

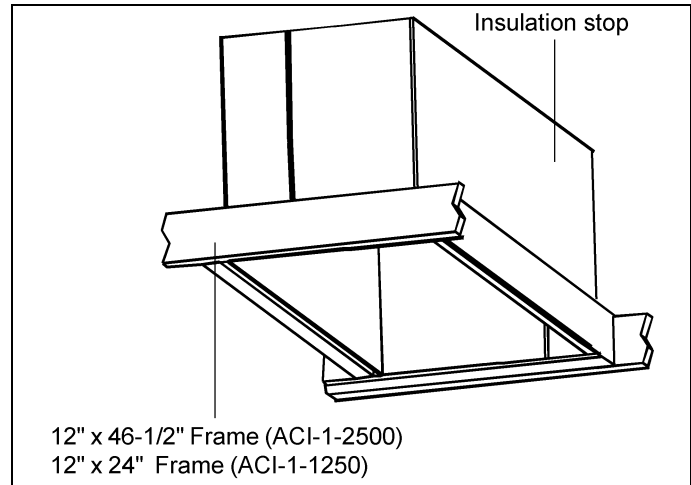


Figure 1

4. Run the 1/8" stainless steel rod through the inlet. (See Figure 5 on Page 2.)
5. Remount the door by holding it vertically and hooking it into the body hinge as shown. (See Figure 3.)
6. Measure 18" from center of pulleys and fasten the nylon cord to the 1/8" rod using a 1/8" cable clamp. (See Figure 10 on Page 5.)

**NOTE:** Cable clamp must be at least 18" from center of pulleys to allow for full range of operation.

7. Thread nylon cord through pulley then down through door. Close the door and slide plastic ball onto cord, then fasten closed with azuma nut. (See Figure 5 on Page 2.)

8. Cut off excess cord, leaving 3"-4" below the azuma nut for adjustment.

**NOTE:** The cord will stretch. Re-adjust azuma nut as needed to keep door closed.

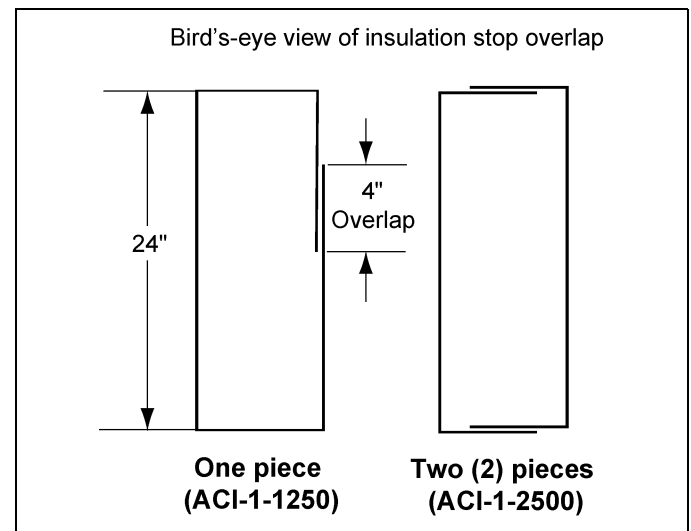


Figure 2

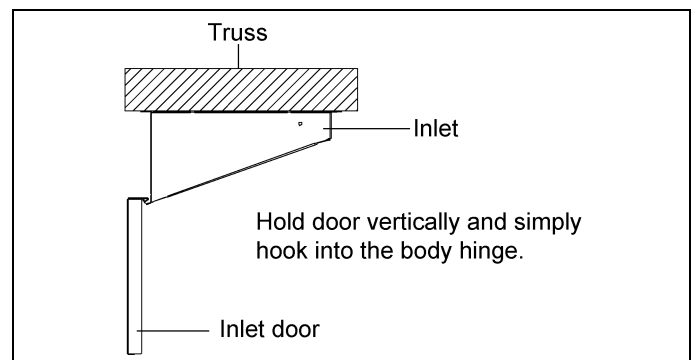
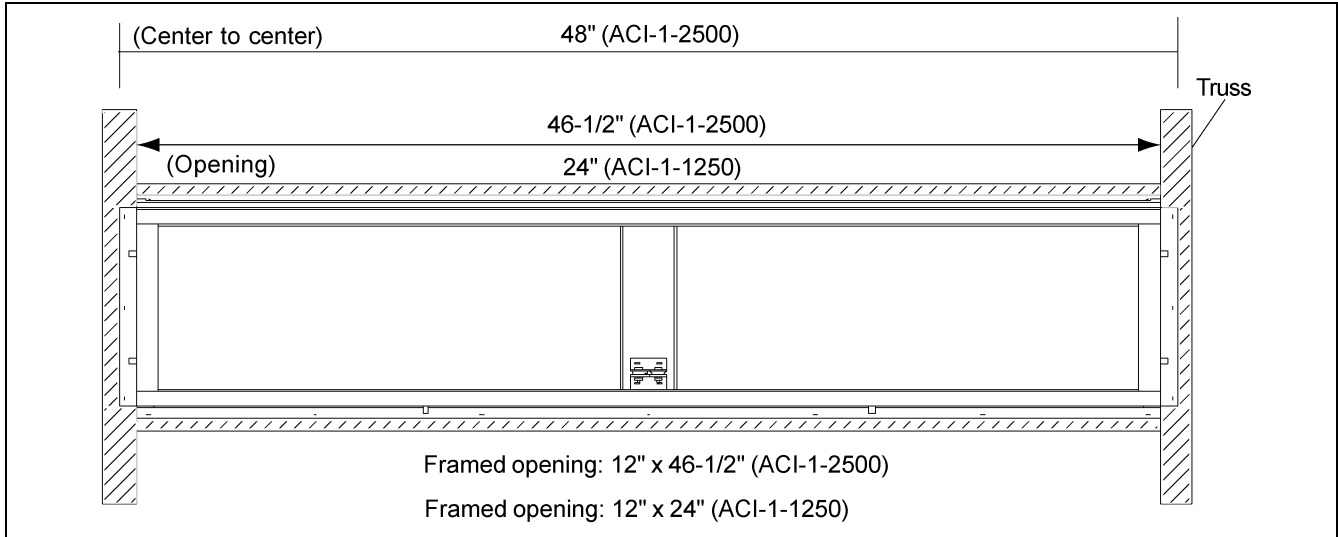
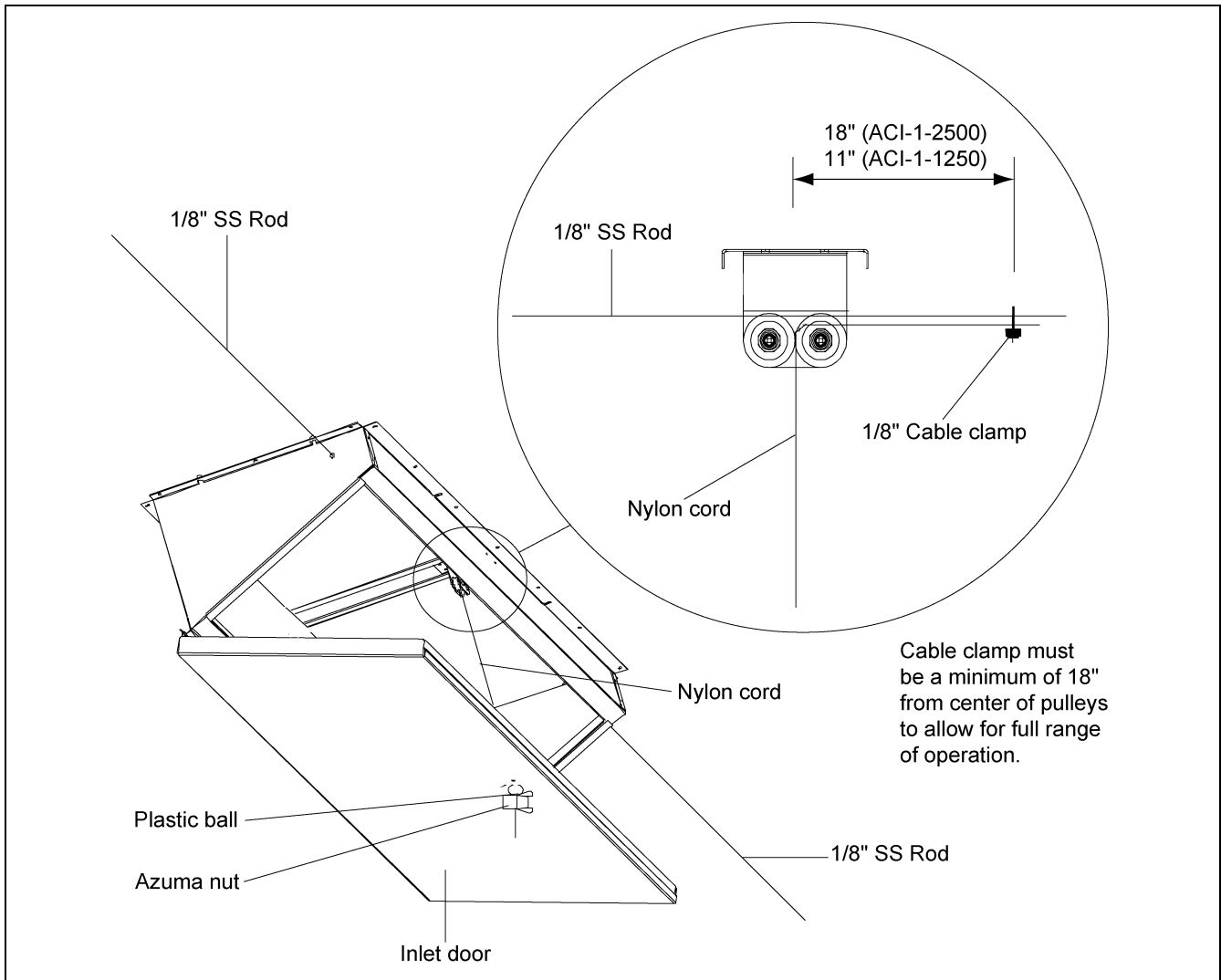


Figure 3

## Bottom View of Inlet on Frame with Door Removed



**Figure 4**



**Figure 5**

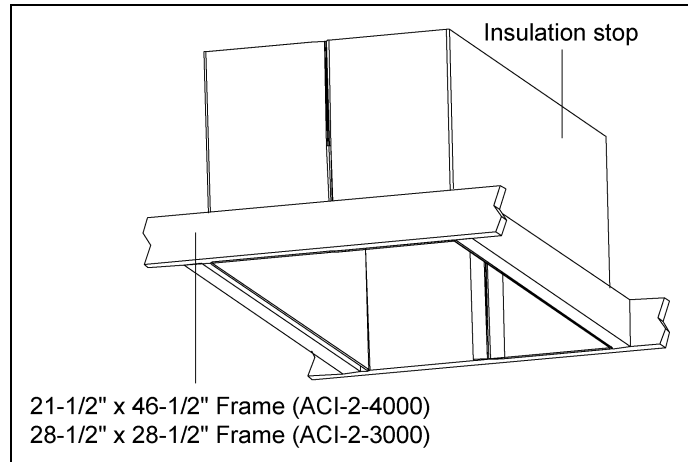
## Double Door Installation

1. For inlet ACI-2-3000, frame in 28-1/2" x 28-1/2" opening. For inlet ACI-2-4000, frame in 21-1/2" x 46-1/2" opening. (See Figure 6.) See Figure 11 on Page 5 for one possible layout to integrate an inlet within a system.
2. Staple the insulation stop to the frame's opening, making sure it is flush with the bottom side of trussing. The ends of the insulation stop on double units should overlap with lock tabs as shown in Figure 6 and Figure 7.
3. Attach inlet to framed opening using flat head screws, so not to interfere with ceiling. (Doors may be removed for this step.)
4. Run the 1/8" stainless steel rod through the inlet. Use one rod to actuate the doors simultaneously as shown in Figure 8 on Page 4. Use two (2) rods to actuate the doors independently as shown in Figure 9 on Page 4.
5. Remount the door by holding it vertically and hooking it into the body hinge.
6. Measure 18" from center of pulleys and fasten the nylon cord(s) to the 1/8" rod(s) using a 1/8" cable clamp(s). (See Figure 10 on Page 5.)

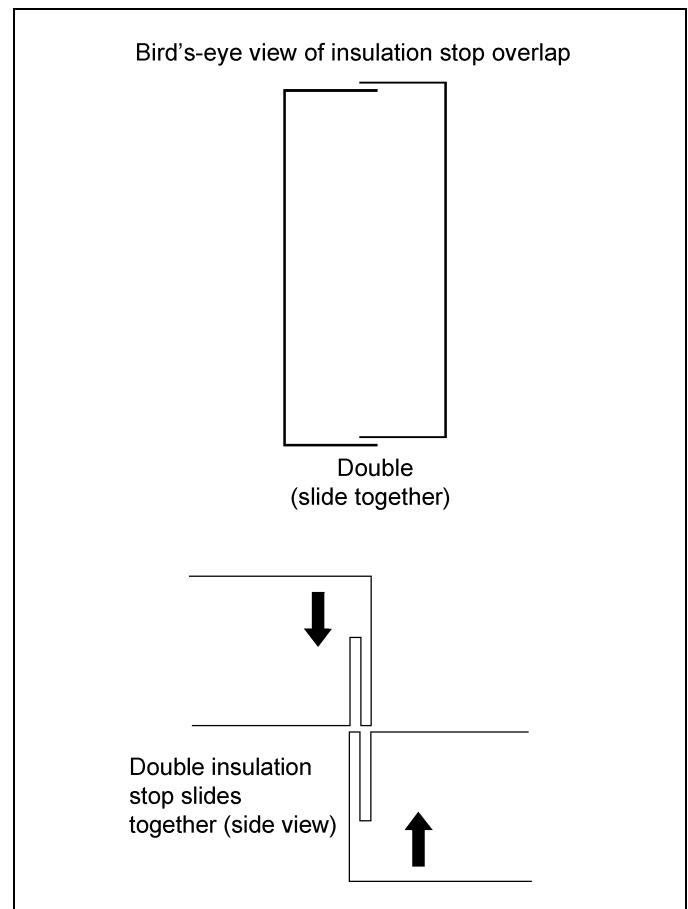
**NOTE:** Cable clamp must be at least 18" from center of pulleys to allow for full range of operation.

7. Thread nylon cord through pulley then down through door. Close the door and slide plastic ball onto cord, then fasten closed with azuma nut. (See Figure 9 on Page 4.)
8. Cut off excess cord, leaving 3"-4" below the azuma nut for adjustment. (See Figure 8 and Figure 9 on Page 4.)

**NOTE:** The cord will stretch. Re-adjust azuma nut as needed to keep door closed.

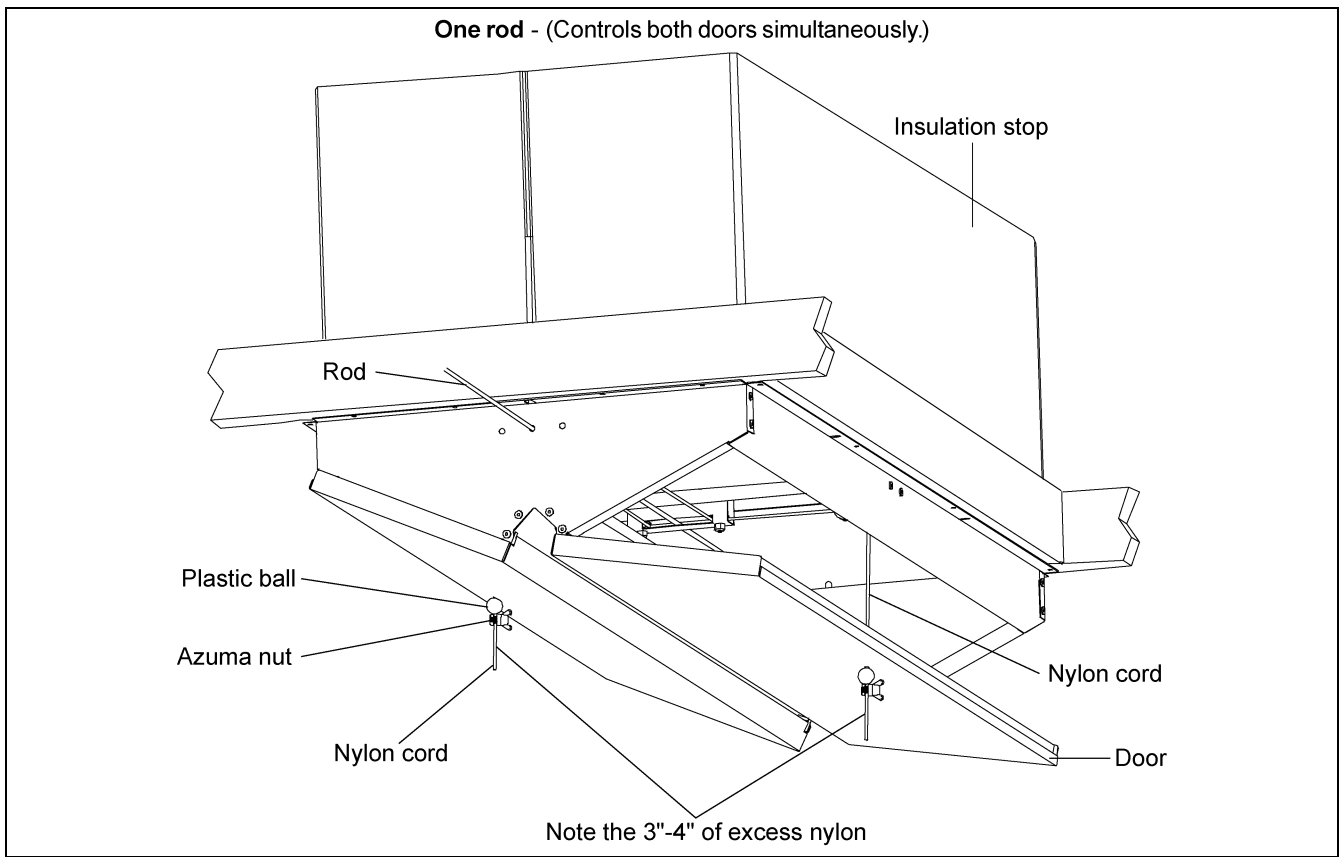


**Figure 6**

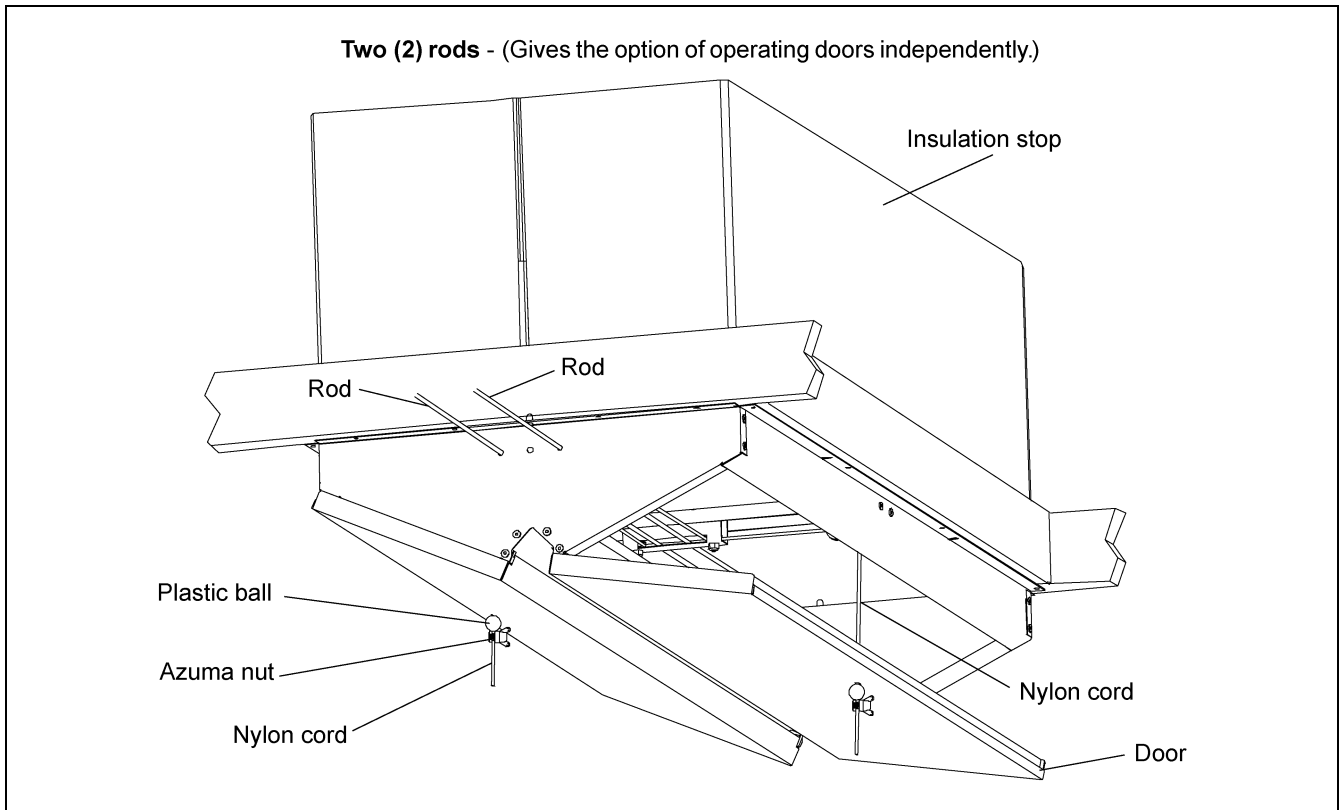


**Figure 7**

# Single and Double 65° Actuated Ceiling Inlet Installation Guide



**Figure 8**



**Figure 9**

# Single and Double 65° Actuated Ceiling Inlet Installation Guide

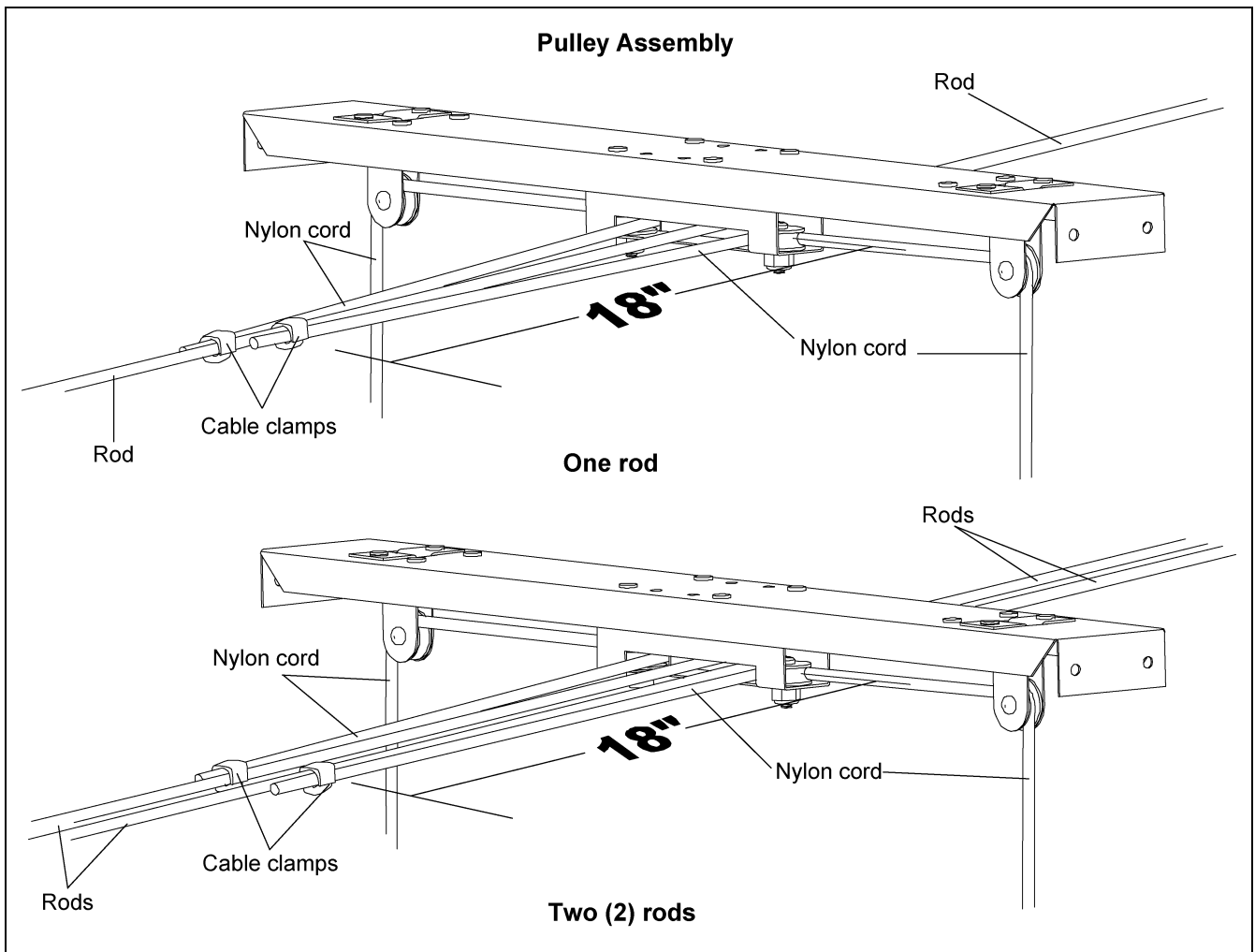


Figure 10

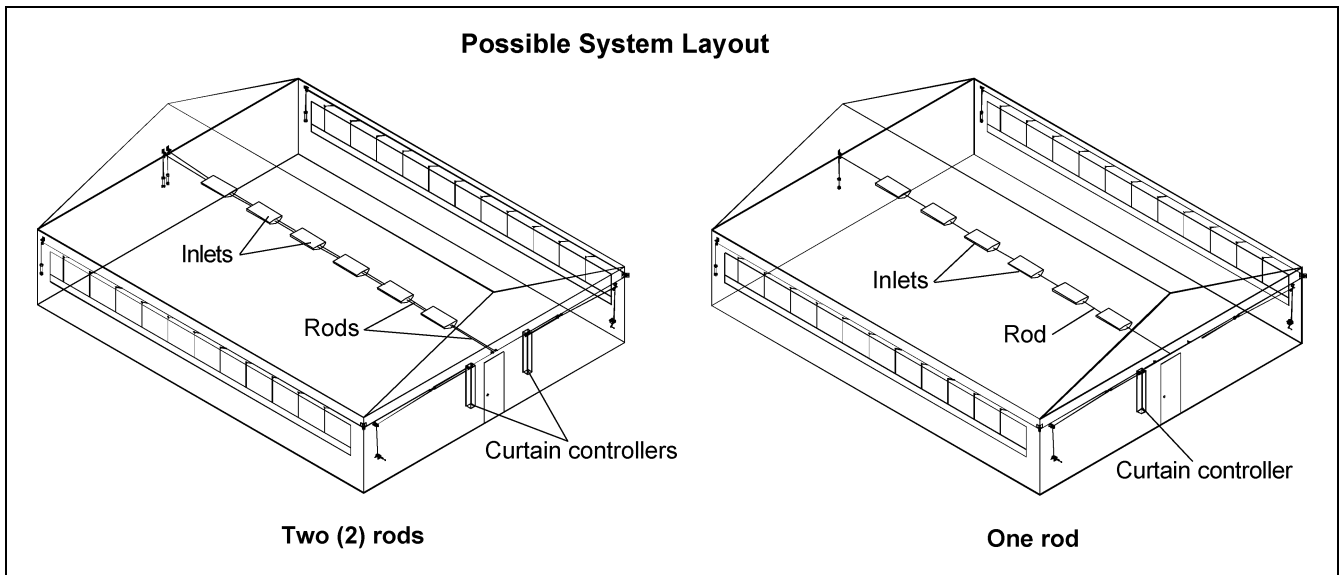


Figure 11

End Installation - One Row of Inlets (2 to 1)

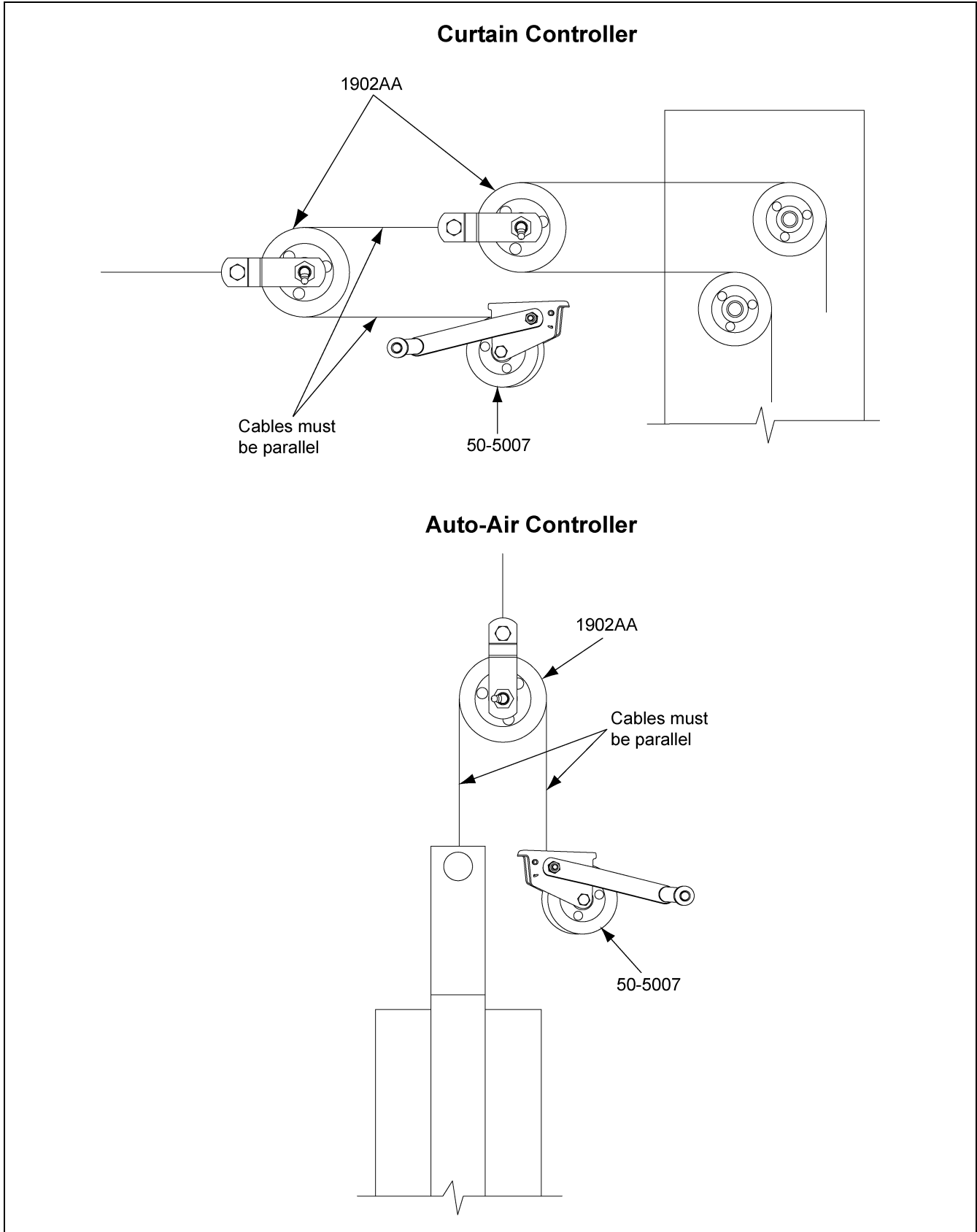


Figure 12

Middle Installation - One Row of Inlets (2 to 1)

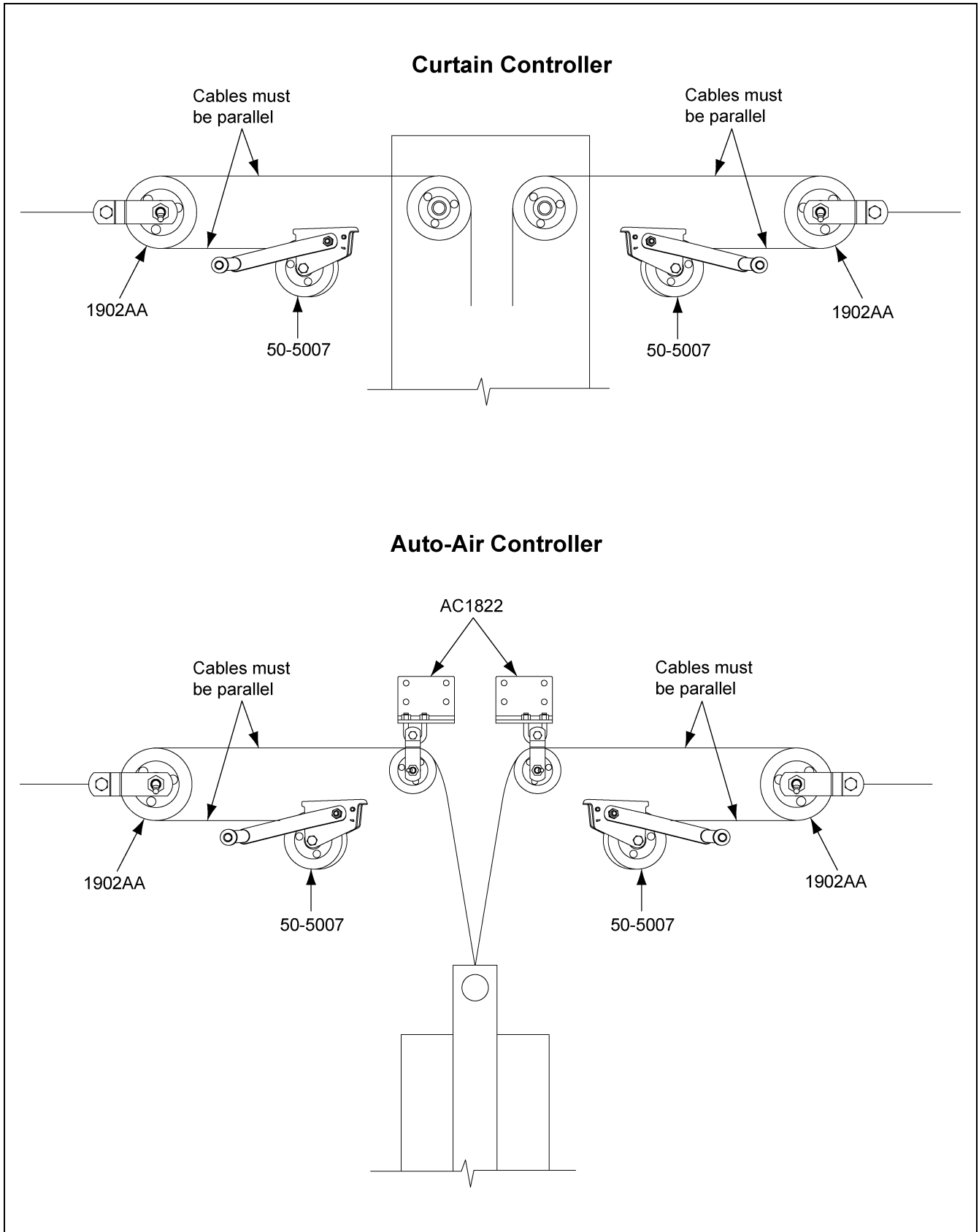


Figure 13

End Installation - Two (2) Rows of Inlets (2 to 1)

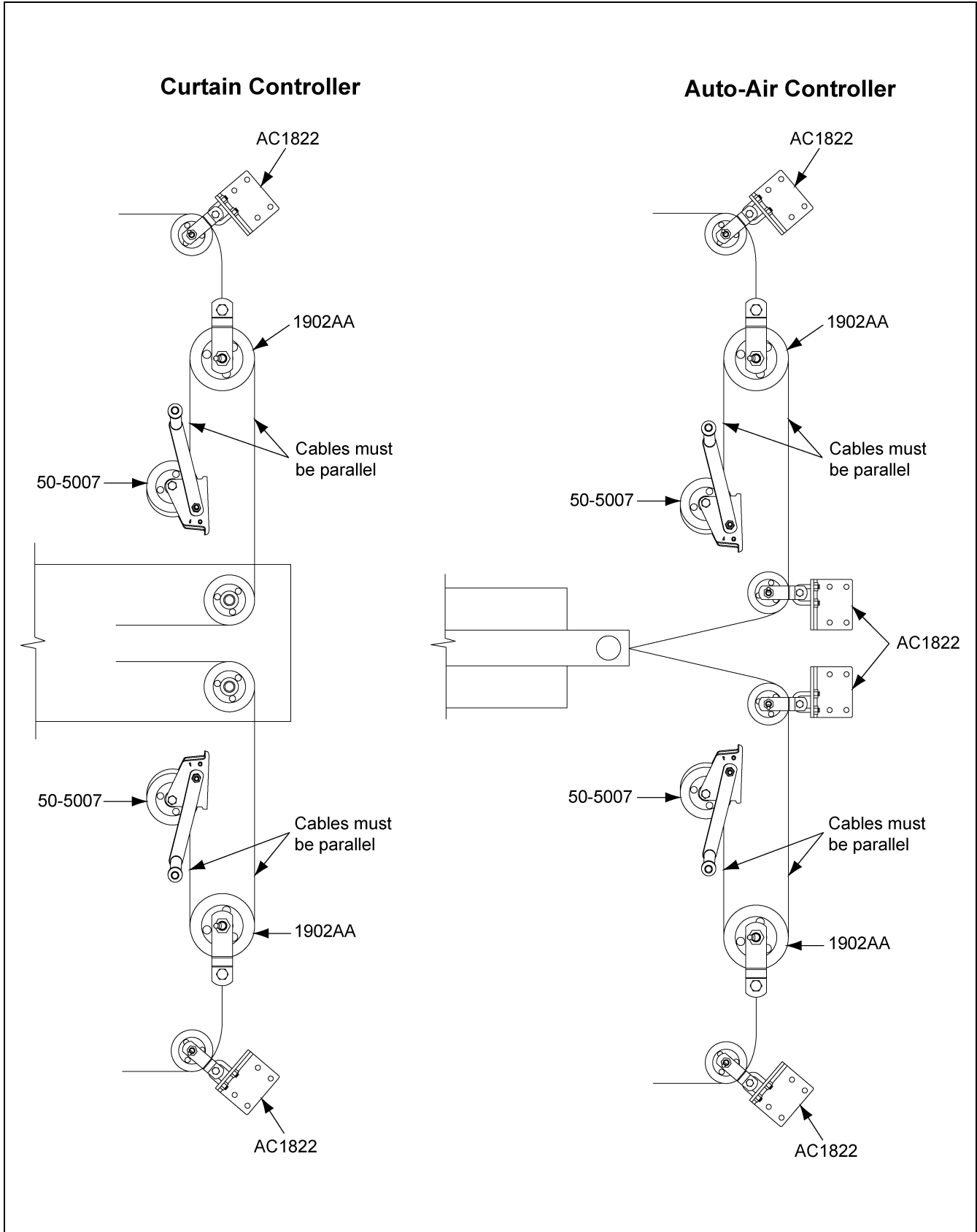


Figure 14



Middle Installation - Two (2) Row of Inlets (2 to 1)

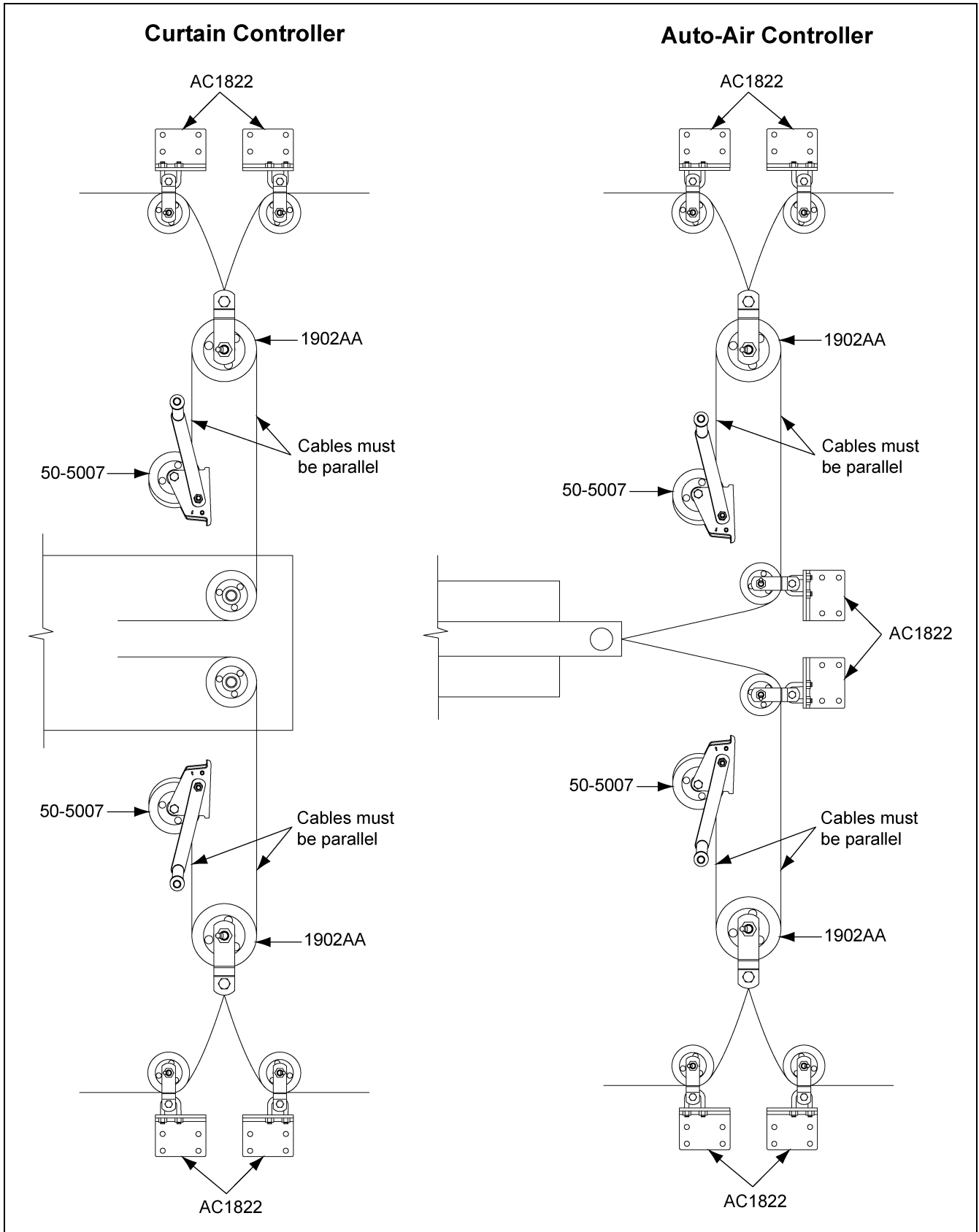


Figure 15

# Single and Double 65° Actuated Ceiling Inlet Installation Guide

## Maximum Inlets per Actuator - Maximum Run Length

Actuator Type	Maximum Number of Inlets per Controller		Maximum Run Length (Feet)
	1:1 Pulley Ratio	2:1 Pulley Ratio	
Auto-Air Controller	16	24	150
Curtain Controller	48	72	150

\* For maximum accuracy limit run length to 150'.

## Rated Airflow - Door Opening - Actuator Travel

Inlet Model	Door Position not Restricted		Door Position Restricted to Horizontal	
	Rated CFM at 0.10 Static Pressure	Maximum Opening (in.)	Rated CFM at 0.10 Static Pressure	Maximum Opening (in.)
ACI-2-4000	4000	7-1/2	2500	4-1/2
ACI-2-3000	N/A	N/A	N/A	N/A
ACI-1-2500	N/A	N/A	N/A	N/A

\* Refer to actuator manual to set limit switches in the actuator for the proper amount of travel needed.

\* If the pulley ratio is 1:1 the travel needed in the actuator is the same as the maximum opening listed above.

\* If the pulley ratio is 2:1 the travel needed in the actuator is twice the maximum opening listed above.

## Actuator Run Times (Seconds)

Inlet Model	Horizontal Restriction	Curtain Controller 30 RPM 1 to 1 Pulley Ratio (6 in./min.)	Curtain Controller 30 RPM 2 to 1 Pulley Setup (3 in./min.)	Auto-Air Controller 1 to 1 Pulley Setup (15 in./min.)	Auto-Air Controller 2 to 1 Pulley Setup (7.5 in./min.)
ACI-2-4000	No	75	150	30	60
ACI-2-4000	Yes	45	90	18	36
ACI-2-3000	No	N/A	N/A	N/A	N/A
ACI-2-3000	Yes	N/A	N/A	N/A	N/A
ACI-1-2500	No	N/A	N/A	N/A	N/A
ACI-1-2500	Yes	N/A	N/A	N/A	N/A

\* Actuator run times in this table are approximate. Actual run times may vary slightly. To determine the most accurate time manually run the inlets open and/or closed and time with a stop watch.

\* For 15 RPM curtain controllers multiply run times by 2.

\* For 60 RPM curtain controllers multiply run times by 1/2.

## Tension Spring Specifications (AP-2877)

Initial Length	31"	Full Extension Length	57"
Initial Load	19 Lbs.	Full Extension Load	81 Lbs.