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## Equipment required

- a. Drill
- b. Tape measure
- c. Quick clamps
- d. Rivet gun
- e. 3/16" Allen wrench
- f. Drill bits
  - i. 1/8" diameter
  - ii. 3/16" diameter
  - iii. 7/16" diameter
  - iv. 3/16" Masonry bit
  - v. 3/4" Masonry bit
- g. Flat head screw driver
- h. 5/16" hex nut driver
- i. Hammer
- j. Ladder
- k. Chalk line / laser level
- l. Chop saw
- m. Level
- n. Lacquer thinner/any other cleaner
- o. Razor knife
- p. Pencil/Pen
- q. Compressed air/pipe cleaner

# Side Folding Grille Installation Instructions

## Verification

- Confirm the opening size (width and height) corresponds to the shop drawings.
- Confirm configuration of the curtain matches the shop drawings.
- Check the header to verify it will support the load of the grille, especially near the pocket. It needs to be a minimum 1 1/2" thick continuous wood support attached to sufficient structure. Refer to shop drawings for min load support.
- Make sure there is a minimum of 10" of pocket width and 8" of clear path.
- Approximately 2" depth of pocket is required per linear foot of curtain (e.g. 30' wide opening = 60" min. of pocket depth).

## Track Installation

- Mark the centerline of the pocket on the support header (note: the centerline of the header may not necessarily be the center line of the pocket)
  - Install the curves first if applicable.
    - Drill curved track 6" on center along demarcation line in back of track using 3/16" drill bit. Avoid marring the visible face of the track.
    - Refer to Figure 1 to cut curve to desired angle.
    - Use a file to remove burr particularly on the inside of the track.
  - Join the straight track with the curve using pins and plate as shown in Figure 2.
    - Use #10 x 1 1/2" pan head screws supplied, align curved track to layout lines and attach to header 6" on center.
  - Install straight sections
    - Use longest track first.
      - Don't leave a section of track less than 2'. If possible divide a longer piece into two sections.
    - If the straight section is inside the pocket use mounting screws every 6", otherwise every 12".
    - Align the tracks using pins and plate as shown in figure 2 before securing the track with screws.

*Note: Pins and plate can be fully inserted into one track section, flush with the end, then pushed into the adjoining track section with the blade of a flat tip screw driver.*
  - Leave a 2 – 4 ft section of straight track to remove during grille install.
  - At the end of a track run, if the end of the track does not butt up to a wall, put a #10 x 1.5" long mounting screw through the track 1/2" from the end and vertically centered as shown in Figure 3.
- hint: (leave slight 1/16" on either side to allow easier removal when installing grille)*

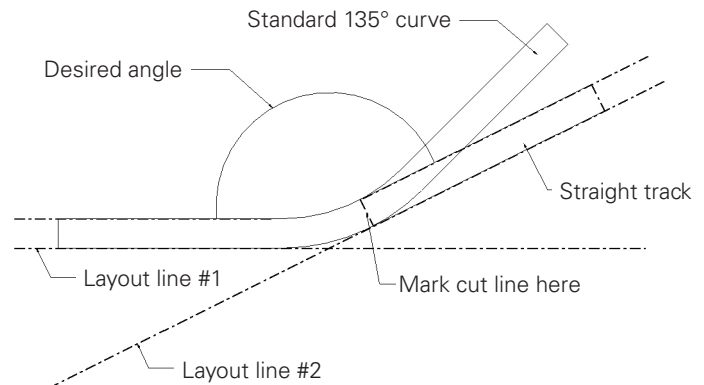


Figure 1: Cut curve to desired angle

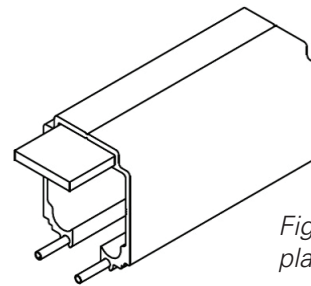


Figure 2: Track with pins and plate for alignment

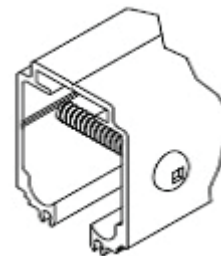


Figure 3: Track stop

# Side Folding Grille Installation Instructions

## Grille Installation

- a. Remove the 2'-4' section of straight track from the track installation left to install grille.  
*Note: Boxes should have round, colorful # stickers for the section number.*
- b. Use the shop drawings to identify the order and orientation to insert sections.
- c. Load sections one by one and make sure the rollers are oriented in the right direction (Will need the help of another person to orient the wheels into the track while the other person lifts the grille).
- d. Install the section of the track removed.

## Combining the sections

- a. Use quick clamps as shown in Figure 4 to snap the post hinges to the post, thereby, joining the sections.
- b. Use an 1/8" bit to drill through the post hinge using the pilot holes on the post (Note: Holes on top, middle and bottom on both sides of the post).
- c. Use 1/8" x 5/16" rivets provided to secure the post hinge to the post.
- d. Slide the grille across the track to make sure it runs smoothly.



Figure 4: Use of quick clamps to join the post hinge to the post

## Post Installation

- Latch all bi-part posts before starting.
- Reference the corresponding post installation from the post detail on the print
- Posts are listed below in the suggested order of installation; skip any that are not applicable.

### a. Fixed End Post

- i. Fully extend the grille with ends in proper locations.
- ii. Slide the end post to the wall and mark the location of the post top.
- iii. Take off the drilled post cap from the end post
- iv. Line up the predrilled post cap with the track and top of post.
  1. Use mark from step ii to line up the top of the post cap.
  2. Make sure it is vertical and centered with the track.
- v. Fasten post cap using 1/4" x 1 3/4" hex head tapcons provided in the predrilled locations.
- vi. Snap the post into the fixed post cap
- vii. Use 1/8" x 5/16" rivets provided in the holes predrilled to secure the post to the post cap.

### b. Wall Strike

- i. Fully extend the grille with ends in proper locations.
- ii. Slide the post to the wall and mark the location of the post top.
  1. Vertical position is very important for the latch to work properly.
- iii. Take off the drilled post cap from the bi-part piece.
- iv. Line up the predrilled post cap with the track and top of post.
  1. Use mark from step ii to line up the top of the post cap.
  2. Make sure it is vertical and centered with the track.
- v. Fasten post cap using 1/4" x 1 3/4" hex head tapcons provided in the predrilled locations.
- vi. Snap the bi-part piece into the fixed post cap
- vii. Use 1/8" x 5/16" rivets provided in the predrilled holes to secure the post to the post cap.
- viii. Slide the mating end post into the mounted wall strike and secure the latch
- ix. Follow steps ii and iii from c. End Post to set the lock rods in the mating end post.

# Side Folding Grille Installation Instructions

## c. End Post

- i. Fully extend the grille with ends in proper locations.
- ii. Using blue tape, cover a 3" diameter section of floor around hole location. This will prevent the face of the finished floor from chipping and provide a surface for marking.
  1. Extend bolt until it contacts the floor.
  2. Using a level, plumb the post in both directions.
  3. Mark floor and drill a 3" deep hole using a 3/4" masonry bit.
    - a. Make sure the hole is plumb otherwise the floor socket will not sit flush.
  4. Insert floor socket and tap it flush against the floor.
  5. Lock the bottom bolt into the floor socket.
- iii. Shoot the top bolt and mark the spot on the track if applicable.
  1. Plumb post in both directions before marking. Make sure that if the post sits against a wall, force is not required to hold it against the wall
  2. Predrill track on the marked spot with a 3/16" drill 4" deep.
    - a. Use die mark to align with the center of track.
  3. Drill a 7/16" hole 4" deep through the header.
  4. Clean aluminum shavings and chips from track.
  5. Mark the spot on the track with an arrow sticker provided.

## d. Pocket Retained Post

- i. Extend the assembled grille, positioning pocket retained post as deep into the pocket as it will go without tensioning grille.
  1. Pry open V guide bracket (Appendix B #29) at cuts so tips extend towards pocket walls as shown in Figure 5.
  2. Place closed end of V guide bracket on the floor directly below the V post bracket lock rod (Appendix B #27) and mark the fastening locations.
    - a. Move the grille out of the pocket.
    - b. Drill using a 3/16" masonry bit.
    - c. Fasten V guide bracket using 1/4" x 1 3/4" hex head tapcons provided.
  3. Loosen cap screw on the back of pocket retained post. Lift the lock rod up and bring grille back into pocket. Slide the lock rod into the guide bracket, adjust the height so it catches the bracket and clears the floor then tighten the cap screw. Refer to Figure 6.
  4. Mark the corresponding location for the top stop. Push the grille all the way into the pocket and screw top stop into place as shown in Figure 7. It should be directly above the closed end of the V guide bracket.
- ii. Repeat for all pocket retained posts.
- iii. Use compressed air or pipe cleaner to ensure track is completely free of metal chips or shavings.

## e. Bi-Part Post

- i. Verify that the latch is engaged.
- ii. Fully extend the grille with ends secured in proper locations and position the intermediate posts such that the slack in the grille is evenly distributed.
- iii. Follow step ii and iii from c. End Post.

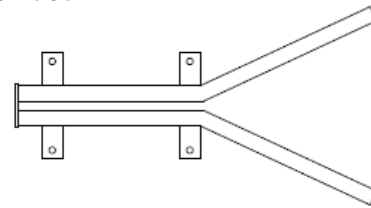


Figure 5: V guide bracket bent

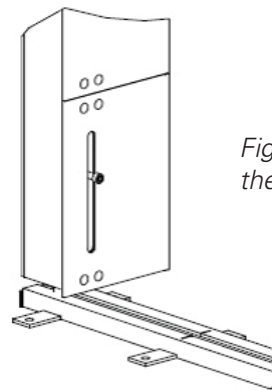


Figure 6: Cap screw on the Pocket retained post

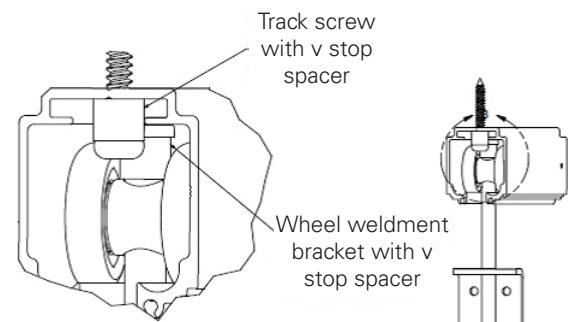


Figure 7: Pocket retained post top stop

# Side Folding Grille Installation Instructions

## f. Middle Post

- i. Fully extend the grille with ends secured in proper locations and position any intermediate posts such that the slack in the grille is evenly distributed.
- ii. Follow step ii from c. End Post for each middle post.

## **Clean and Inspect**

- a. Collect all the tools.
- b. Clean the area and the grille of any debris and/or marks.
- c. Make sure the track is clear of any debris and roller wheels run smoothly.
- d. Check all the locks and make sure they operate properly.
- e. If advised, remove protective film from polycarbonate. (Q-Clear style)
- f. Go through the check list with the general contractor or supervisor and get it signed.

***See Side Folding Grille Check List  
on page 6, please complete this  
single form and return.***

**Store Name:** \_\_\_\_\_ **Store Number:** \_\_\_\_\_

## **SIDE FOLDING GRILLE CHECK LIST (reviewed with store personnel)**

Opening widths & heights are the same as shown on shop drawings, if different:

*Note:* \_\_\_\_\_

Clearance is at least 1" at the closest point from bottom of grille to floor.

There is a minimum of 8" clear path and 10" pocket width. If less:

*Note:* \_\_\_\_\_

All post locks operate freely without an excessive amount of force being required to lock and unlock.

All track seams have been aligned and pins are installed. There are no visible indication of warps or damage to track.

The grille runs smooth and to your satisfaction. If not:

*Note:* \_\_\_\_\_

Floor sockets for lower post lock rods are installed in floor and drilled holes in track and header. for upper post lock rods

If there is a pocket retained post, ensure the grille does not hang up on the bottom V-angle at the pocket base.

Grille is free of dents, scratches or other damage.

If applicable, remind the general contractor that lock cores need to be installed in the lock mortise cylinder. *Note: Most national chain - sent without cores.*

## **SECURITY GRILLE IS INSTALLED AND FUNCTIONING WELL!**

---

Date: \_\_\_\_\_ Job name: \_\_\_\_\_

Location (store name/store number/city, state): \_\_\_\_\_

Customer Representative's Signature: \_\_\_\_\_

Installer's Signature: \_\_\_\_\_

**QMI Contractor:** Following the completion of the QMI installation, please review the following items with the store manager/ site super and sign below. **Please fax the completed form to QMI at 630-980-6364** within 24 hours of completion. This document must be completed and sent to QMI in order to process all installation invoices. Failure to do so will delay and or stop payment .

# Side Folding Grille Installation Instructions

## APPENDIX A (Posts)

1



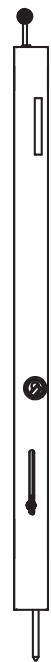
#1 WALL STRIKE  
 - LATCH TO WALL STRIKE.  
 - WALL STRIKE SECURED TO WALL. 2X BACKING BY OTHERS REQUIRED.  
 - CYLINDER(S) FOR SHOOTBOLT TO FLOOR AND TRACK, AS WELL AS FOR THE HOOK LOCK.

2



#2 END POST  
 - CYLINDER(S) FOR SHOOTBOLT TO FLOOR AND TRACK

3



#3 MIDDLE POST  
 - CYLINDER(S) FOR SHOOTBOLT TO FLOOR ONLY

4



#4 BI-PART  
 - LATCH TO STRIKE  
 - CYLINDER(S) FOR SHOOTBOLT TO FLOOR AND TRACK

5



#5 POCKET RETAINED POST  
 - NO LOCKS  
 - STOP AT FLOOR AND TRACK IN CLOSET

6

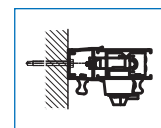


#6 FIXED END POST  
 - NO LOCKS  
 - SECURED TO WALL, 2X BACKING BY OTHERS REQUIRED

### Post Options:

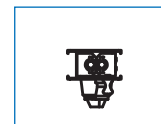
#### 1 Wall Strike:

This allows a travelling end of a grille to be locked to a wall. The wall strike is secured to the wall (requires 2x backing by others), while the mating post on the end of the grille has shoot-bolts to the floor and track, as well as a hook lock which latches to the wall strike.



#### 2 End Post:

This allows a travelling end of a grille to be pushed flush to a wall and locked into place without any work being done to that wall. This post has shoot-bolts to the floor and track.



#### 3 Middle:

Max span of grille without a post to secure it is 120"; these posts provide a locking point for longer grilles. Middle posts have shoot-bolts to the floor only.



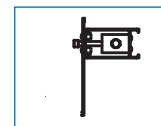
#### 4 Bi-Part:

This allows a grille to be opened from the middle, and also allows for longer grilles to be stored in two pockets. The leading edge of one half has a post with shoot-bolts to floor and track as well as hook lock which latches to a strike on the leading edge of other half of the curtain.



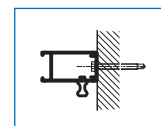
#### 5 Pocket Retained:

This post remains retained within the pocket and requires no locks.



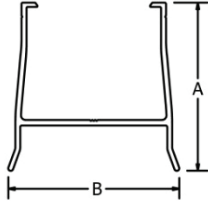
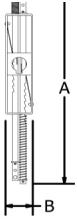

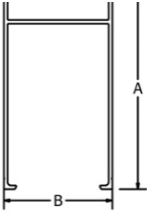
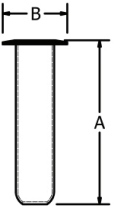
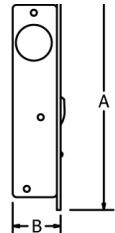
#### 6 Fixed:

Used to anchor the end of a grille, usually when there is no pocket. The Fixed post is secured to the wall and has no locks. (requires 2x backing by others)



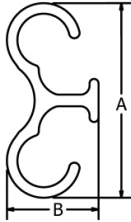
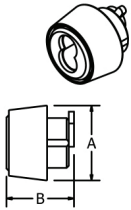
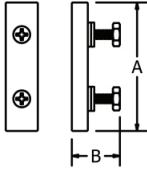



# Side Folding Grille Installation Instructions

## APPENDIX B (Components)

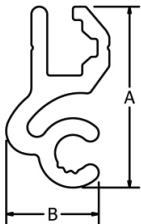
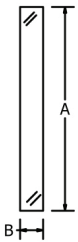
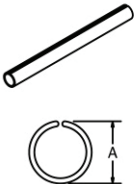
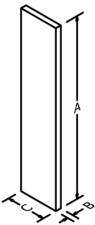
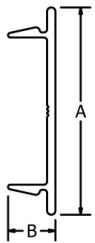
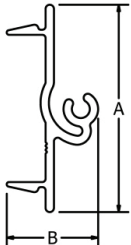
Number	Image	Part name	A (in.)	B (in.)	C (in.)
1		Bi-part	1.906	1.868	
2		Double lock	16.264	2.124	
3		Single lock	16.000	2.000	
4		End post	3.000	1.610	
5		Floor socket	3.183	1.260	
6		Hook lock	6.813	1.495	



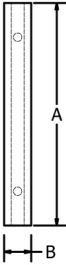
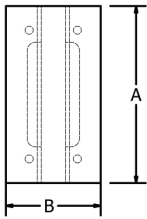

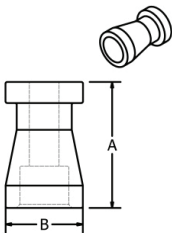
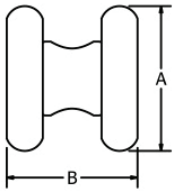
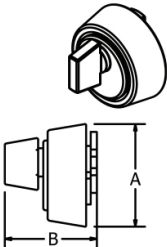
# Side Folding Grille Installation Instructions

Number	Image	Part name	A (in.)	B (in.)	C (in.)
7		Knuckle	1.079	0.511	
8		Lock cylinder assy.	1.719	1.553	
9		Magnet assy	2.000	0.750	
10		Panel full segment	5.404	0.121	
11		Panel half segment	2.907	0.410	
12		Panel hanger	5.404	0.465	

# Side Folding Grille Installation Instructions

Number	Image	Part name	A (in.)	B (in.)	C (in.)
13		Panel hinge	0.704	0.402	
14		Polycarbonate	Var	5.380	
15		Track pin	0.094		
16		Track plate	4.000	0.125	0.875
17		Post cap	1.615	0.368	
18		Post hinge	1.615	0.713	

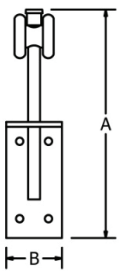
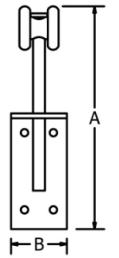
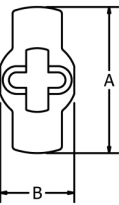
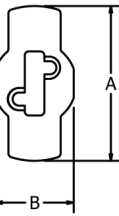
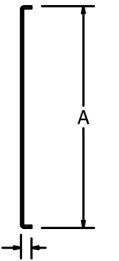
# Side Folding Grille Installation Instructions

Number	Image	Part name	A (in.)	B (in.)	C (in.)
19		Pull across handle	4.335	0.530	
20		Lock pin guide	2.750	1.475	
21		Lock pin	12.000	0.438	
22		Revolving handle	1.125	0.690	
23		Roller	1.128	1.016	
24		Thumb turn assy.	1.992	1.795	

# Side Folding Grille Installation Instructions

Number	Image	Part name	A (in.)	B (in.)	C (in.)
25		Track	1.720	1.375	14 or 24
26		Upper panel roller assembly	6.771	5.404	
27		V post bracket lock rod	10.500	1.000	
28		V post bracket	5.250	1.000	
29		V guide bracket	18.125	5.200	
30		V stop spacer	0.313	0.375	

# Side Folding Grille Installation Instructions

Number	Image	Part name	A (in.)	B (in.)	C (in.)
31		Wheel bracket weldment with v stop spacer	5.906	1.450	
32		Wheel bracket weldment	5.776	1.450	
33		Wide tab double cam for thumb turn	1.184	0.600	
34		Wide tab double cam for cylinder core	1.184	0.600	
35		Extension rod	Var	1.125	

## QMI Security Solutions

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