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Equipment required

- a. Drill
- b. Tape measure
- c. Quick clamps
- d. Rivet gun (1/8")
- 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 ½" 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.
Note: Suggest using a center head square for a square line to cut.
 - 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. **Hint:** Leave slight 1/16" on either side to allow easier removal when installing grille.
 - 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 ½" from the end and vertically centered as shown in **Figure 3**.

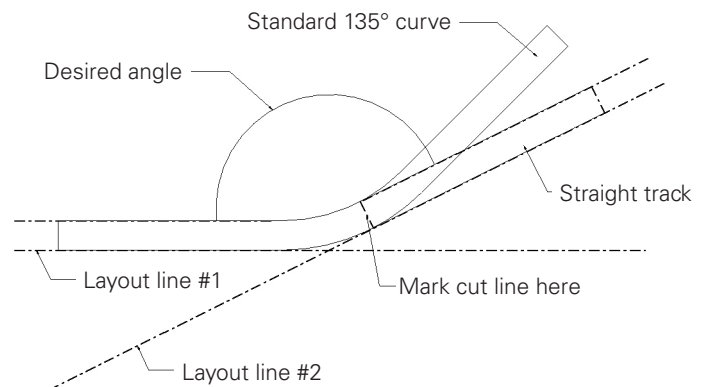


Figure 1: Cut curve to desired angle

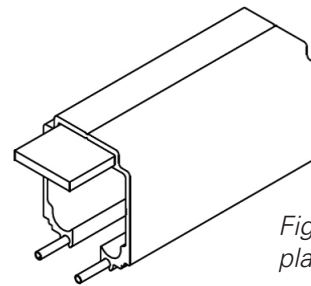


Figure 2: Track with pins and plate for alignment

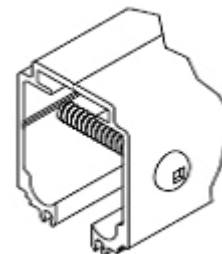


Figure 3: Track stop

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:** Verify hinge lines up on top/bottom with post. 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. Vertical position is very important for the latch to work properly, verify top of grille to bottom of track is approximately 1.5"
- iii. Take off the drilled post cap from the striker piece.
- iv. Line up the predrilled post cap with the track and top post.
 1. Put the top of the post cap just under the bottom of the track or roughly 1.75" from header.
 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 striker piece into the fixed post cap
- vii. Use 1/8" x 5/16" rivets provided in the predrilled holes to secure the strike post to the post cap.
- viii. Slide the mating end post into the mounted strike and secure the latch
- ix. Follow steps ii and iii from **c. End Post** (page 4) 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 new 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.
 - a. Account for wall base molding, if needed.
 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. Floating End Post

- i. Fully extend the grille with ends in proper locations without tensioning the grille. The grille needs to be positioned so it locks where there is still overlap with the parallel wall.
 1. Verify that the perpendicular panel is in the proper orientation to mostly close off the gap to the wall.
 2. Verify there is no more than 3/4" from the end of the perpendicular panel to the wall.
- ii. Follow steps ii and iii from c. End Post to set the lock rods.

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**.

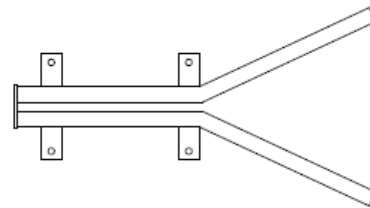


Figure 5: V guide bracket bent

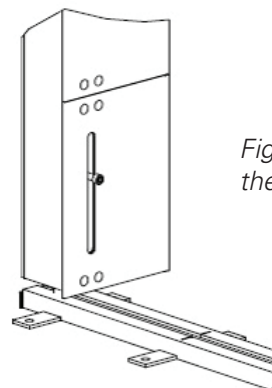


Figure 6: Cap screw on the Pocket retained post

Side-Folding Grille Installation Instructions

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.

f. 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** (page 4).

g. 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** (page 4) for each middle post.

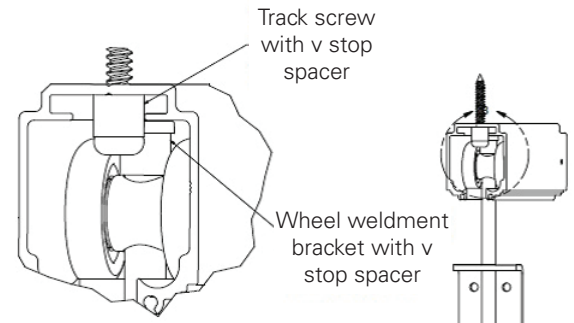


Figure 7: Pocket retained post top stop

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 WALL STRIKE POST

- Latch to wall strike.
- Wall strike secured to wall, 2X backing by others required.
- Cylinders(s) for shootbolt to floor and track, as well as for the hook lock.

2 END POST

- Cylinders(s) for shootbolt to floor and track.

3 MIDDLE POST

- Cylinders(s) for shootbolt to floor only.

4 BI-PART POST

- Latch to strike.
- Cylinders(s) for shootbolt to floor and track.

5 POCKET RETAINED POST

- No locks.
- Stop at floor and track in closet.

6 FIXED END POST

- No locks.
- Secured to wall, 2X backing by others required.

7 FLOATING END POST

- Cylinders(s) for shootbolt to floor and track.
- Plate on back to take up the open space from post to wall.

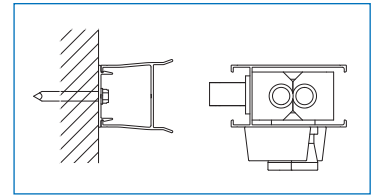
Side-Folding Grille Installation Instructions

Post Options:

1 WALL STRIKE POST

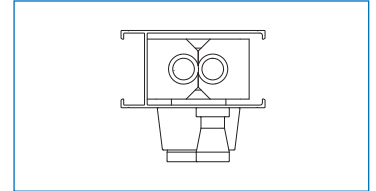
This allows a travelling end of a grille to be locked to a wall. The wall strike is secured to the wall (*2x backing by others required*), while the mating post on the end of the grille has shoot-bolts to the floor and track, as well as a hook lock which latches to the wall strike.

TOP VIEW



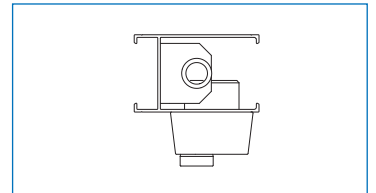
2 END POST

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.



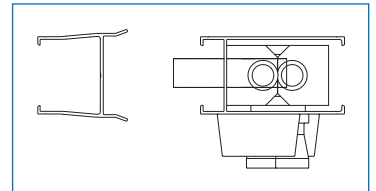
3 MIDDLE POST

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.



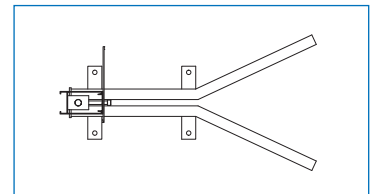
4 BI-PART POST

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.



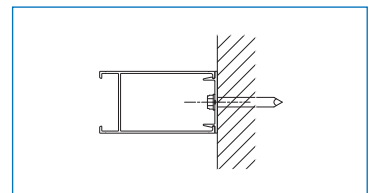
5 POCKET RETAINED POST

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



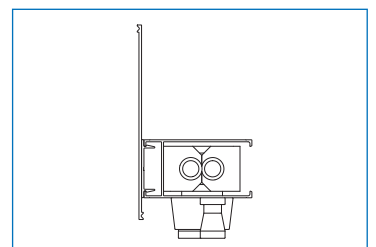
6 FIXED END POST

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. (*2x backing by others required*).



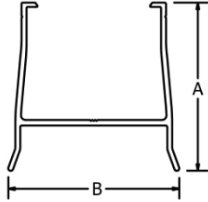
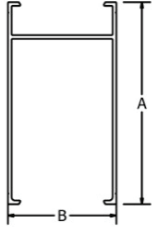
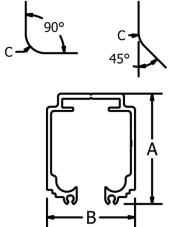
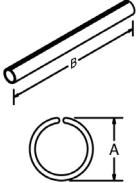
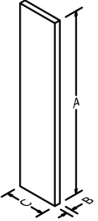
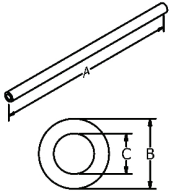
7 FLOATING END POST

An end post that does not have a wall to lock against but instead a wall or permanent structure running parallel to the grille. To help reduce the gap between the wall and grille, a perpendicular plate is used on the end

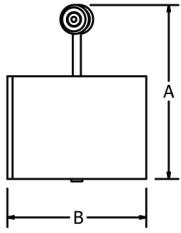
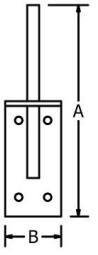
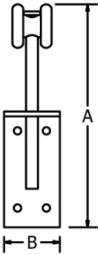
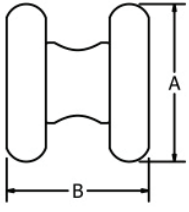
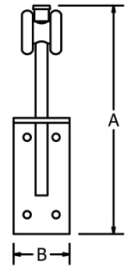
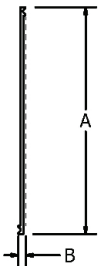


Side-Folding Grille Installation Instructions


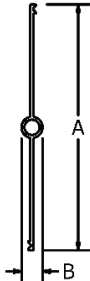
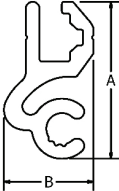
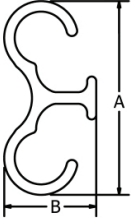
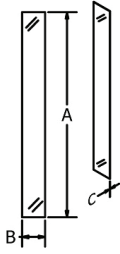
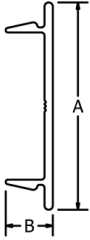
APPENDIX B (Components)

Number	Image	Part name	A (in.)	B (in.)	C (in.)
1		Bi-part	1.849	1.865	-
2		End post	3.000	1.610	-
3		Track	1.720	1.375	14 or 24
4		Track Pin	0.094	1.000	-
5		Track plate	4.000	0.125	0.875
6		Panel Roller Stem	6.500	0.313	0.188

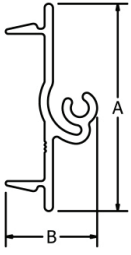
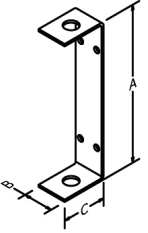
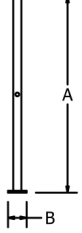
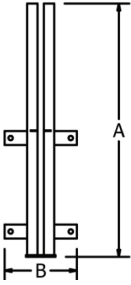
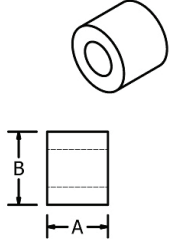
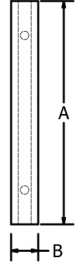
Side-Folding Grille Installation Instructions

Number	Image	Part name	A (in.)	B (in.)	C (in.)
7		Upper panel roller assembly	6.771	5.404	-
8		Post Roller Stem Bracket	5.500	1.450	-
9		Wheel bracket weldment	5.776	1.450	-
10		Roller	1.128	1.016	-
11		Wheel bracket weldment with v stop spacer	5.906	1.450	-
12		Panel full segment	5.404	0.169	-

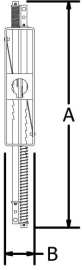
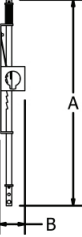
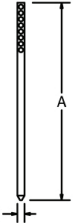
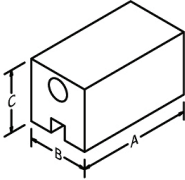
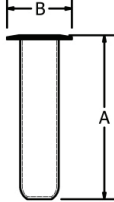
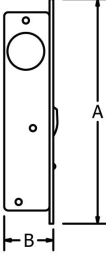
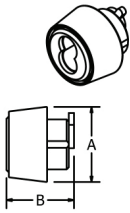
Side-Folding Grille Installation Instructions

Number	Image	Part name	A (in.)	B (in.)	C (in.)
13		Panel half segment	2.907	0.410	-
14		Panel Hanger	5.404	0.465	-
15		Panel Hinge	0.704	0.402	-
16		Knuckle	1.079	0.511	-
17		Polycarbonate	Max: 48" Min: 12"	5.375	0.08
18		Post Cap	1.615	0.368	-

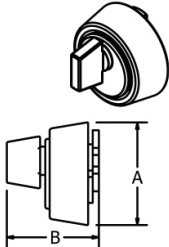
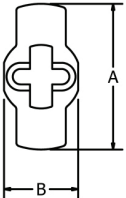
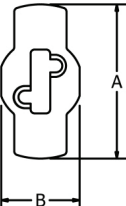
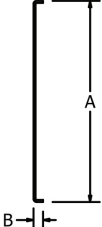
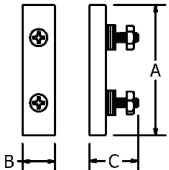
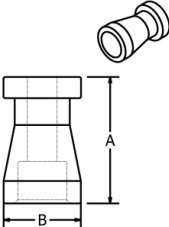
Side-Folding Grille Installation Instructions

Number	Image	Part name	A (in.)	B (in.)	C (in.)
19		Post Hinge	1.615	0.713	-
20		V Post Bracket	5.250	1.000	1.500
21		V Post Bracket Lock Rod	10.500	1.000	-
22		V Guide Bracket	18.125	5.200	-
23		V Stop Spacer	0.313	0.375	-
24		Pull Across Handle	4.700	0.475	-

Side-Folding Grille Installation Instructions

Number	Image	Part name	A (in.)	B (in.)	C (in.)
25		Double Lock	20.264	2.125	-
26		Single Lock	16.000	2.000	-
27		Lock Pin	12.000 (modified for double locks over counters)	0.375	-
28		Lock Pin Guide	2.750	1.475	1.490
29		Floor Socket	2.735	1.235	-
30		Hook Lock	6.813	1.495	-
31		Lock Cylinder Assembly	1.740	1.635	-

Side-Folding Grille Installation Instructions

Number	Image	Part name	A (in.)	B (in.)	C (in.)
32		Thumb Turn Assembly	1.678	1.810	-
33		Wide Tab Double Can for Thumb Turn	1.184	0.600	-
34		Wide Tab Double Cam for Cylinder Core	1.184	0.600	-
35		Extension Rod	Varies	1.125	-
36		Magnet Assembly	2.000	0.500	0.750
37		Revolving Handle	1.125	0.690	-

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1661 GLENLAKE AVE • ITASCA, IL. 60143

(800) 446-2500 • International: 00 1 630 529 7111

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