

COLUMN CLADDING Installation Guide

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Question? 1-800-634-8471
8:30am - 5:00pm EST, Monday-Friday

SK-04015F

Column Cladding with Standard Brackets

Item	Qty	Part Number			Description
		18" Dia.	20" Dia.	24" Dia.	
1	14	P-10474-MFB	P-10474-MFB	P-10474-MFB	Standard "U" bracket
2	28	P-10475-MFB	P-10475-MFB	P-10475-MFB	Bracket extension plate
3	28	H-11036D	H-11036D	H-11036D	#12 x 1¼" TEK screw
4	56	H-11043S	H-11043S	H-11043S	#10 x ½" thread cutting screw
5	6	D-03275-M72	D-03275-M72	D-03275-M72	72" rear cladding extrusion
6	108	H-11042S	H-11042S	H-11042S	#10 x ½" TEK screw
7	2	BP-01477-X122F	BP-01487-X122F	BP-01488-X122F	30" panel
8	16	H-10951X	H-10951X	H-10951X	#10 x ¾" Philips head screw
9	2	BP-01484-X148F	BP-01490-X148F	BP-01491-X148F	92" panel
10	2	SA-13180	SA-13181	SA-13182	92" panel with stripe
11	8	BP-01410-WF	BP-01413-WF	BP-01414-WF	Back-up strip
12	100	P-10843	P-10843	P-10843	Retaining pin
13	4	P-10863-X148F	P-10863-X148F	P-10863-X148F	92" trim extrusion
14	2	SA-13179	SA-13179	SA-13179	92" trim with stripe
15	4	P-11144-FX148	P-11144-FX148	P-11144-FX148	J-bracket
16	4	P-11212-MF	P-11212-MF	P-11212-MF	Back-up J-bracket
17	2	P-10877-X122F	P-10877-X122F	P-10877-X122F	30" trim extrusion
18	2	P-11648-MFB	P-11648-MFB	P-11648-MFB	Trim cap stop
19	16	H-10030R	H-10030R	H-10030R	1/8" rivet

Optional Kits

NOTE: Optional kits may be specified for this installation. Please see specific instructions in *separately ordered* option kits before proceeding with installation.

Description / Function (installation instructions included in separate kit)	Part Kit Number
Optional "U" Bracket Extension Plates	X-15228
Optional "U" Bracket Extension Plate Kit(add if also installing X-15228 and X-22969)	X-15228A
Intercom Face Plate Kit ..	X-23151A
Access Plate Kit	X-23040A

Tools & Materials

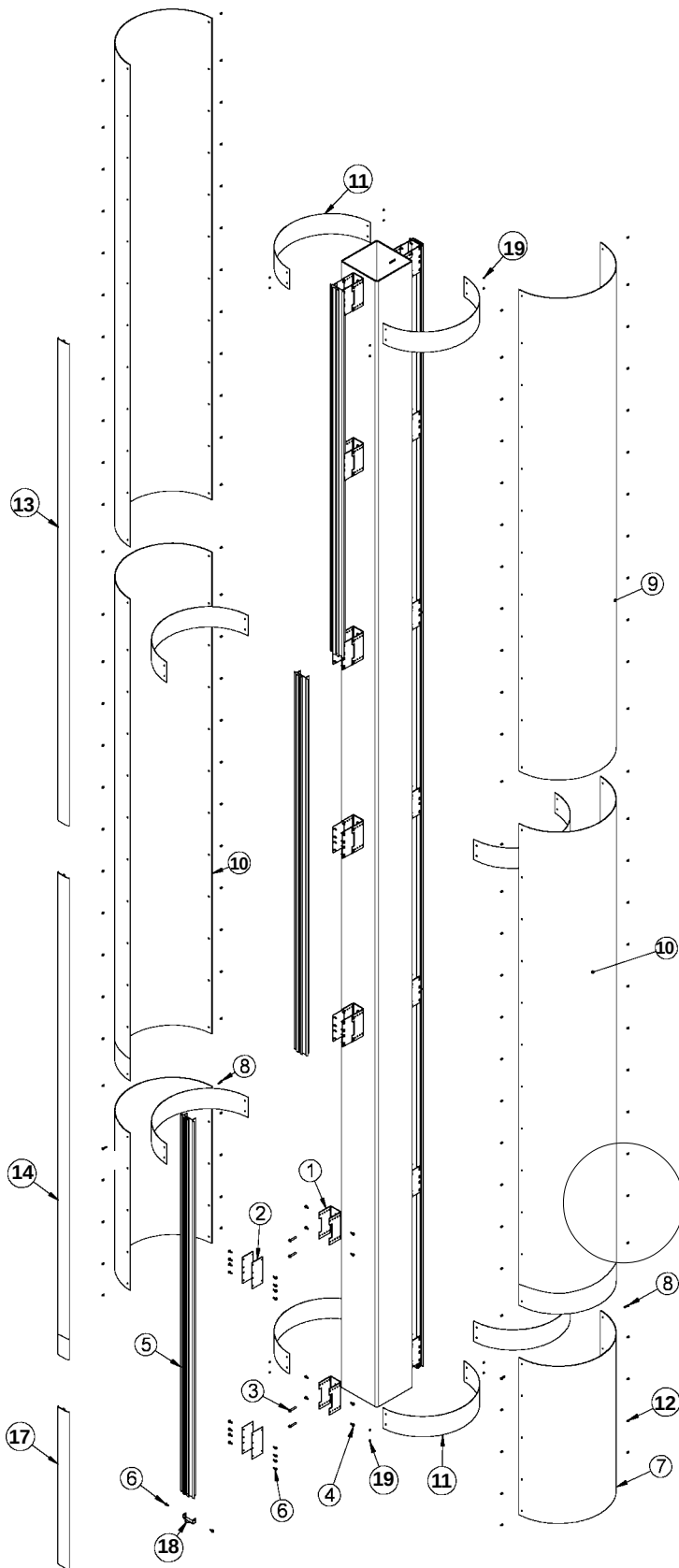
(1) Rivet Gun	(1) Rolling scaffolding or scissors lift
(1) Tape measure - 16' with 1" wide blade	(1) Heavy scissors or tin snips
(2) High-power screwdrivers with 5/16" hex tip	(1) Marking pencil or non-permanent pen
(1) Saber saw or Sawzall (for metal cutting only)	(1) WD-40 lubricant spray
(1) Power drill with 1/4" and 3/8" drill bits	(1) Rubber mallet
(1) 5/16" nut driver	(1) Circular saw with metal cutting blade (optional)
(1) #2 Philips screwdriver	(1) Suction cup for panel installation (optional)
(1) Chalk and chalk line	(2) Step ladders: 8' and 14' (optional)
(1) Carpenter square - 20" minimum	(1) Linoleum knife (optional)
(1) Carpenter level - 20" minimum	(1) Ratchet-type tie-down straps (optional)

Figure 1. Column cladding parts assembly

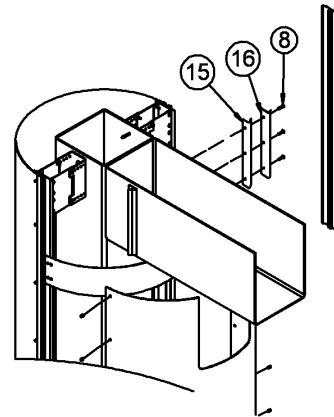
Exploded view

18", 20" & 24" Diameter Cladding Kit Instructions and Guidelines

IF OPTIONAL KITS ARE SPECIFIED, PLEASE SEE
OPTION KIT INSTRUCTIONS BEFORE PROCEEDING
WITH INSTRUCTION BELOW.



Under-canopy obstruction parts
(including new under-canopy
back-up strip).



Obstruction trim
instructions,
see Steps 7 and 8..

← Factory
pre-drilled
openings to
accommodate
retainer pins.

Retainer Pin



Column Cladding Assembly

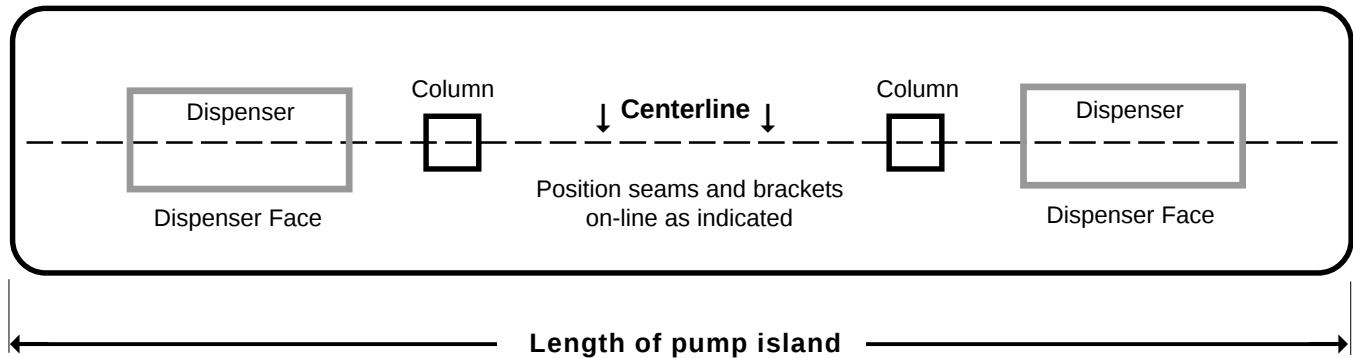
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Step 1. Determine cladding seam locations

"U" brackets must position on centerline, with pump island length.

Figure 2. Plan view of pump island



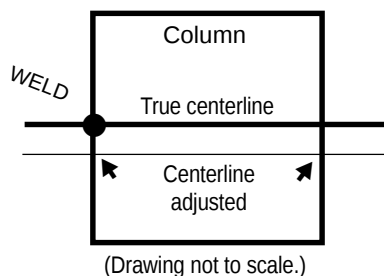
- Mark vertical centerlines on both sides of each column, using a chalk line.
- These lines will be used to position "U" brackets.
- If centerline falls on a welded column seam, move both chalk lines $\frac{1}{2}$ " off-center; equally and in the same direction on both sides, as illustrated in Figure 3 (below).
- See Figure 4 (right) for other conditions requiring seam position adjustments.

Figure 3. Offset seam positioning method*

Example: Welded seams are difficult to drill with TEK screws, thus centerline should be offset.

OBSTACLE:

True centerline obstructed by weld.



SOLUTION:

Weld obstruction CORRECTION:
Move both chalk lines $\frac{1}{2}$ " equally
in same direction.

* Prevents out-of-round columns;
preserves product warranty and
guarantee.

Please review Figures 3 through 5, prior to:

- Finalizing seam positions, including offset options to avoid obstacles.
- Determining need for optional extension bracket kit.

Figure 4. Determine standard extension bracket offset requirements

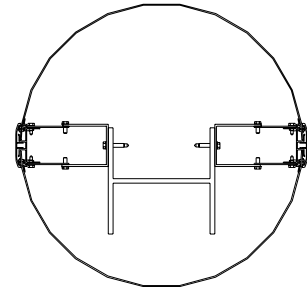
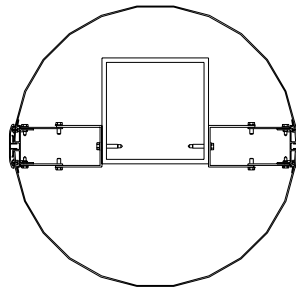
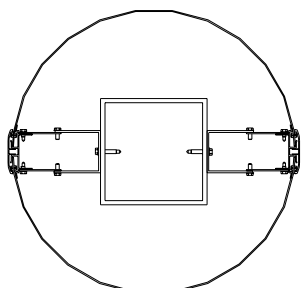
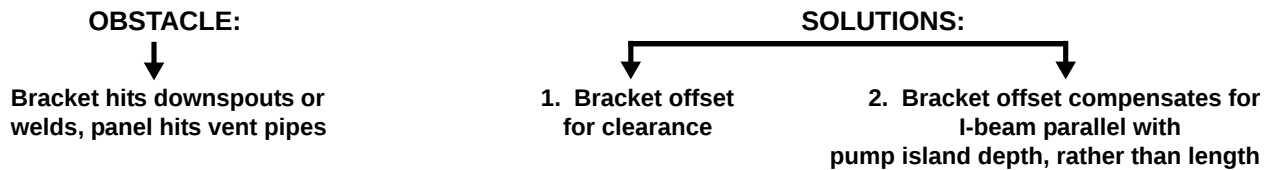
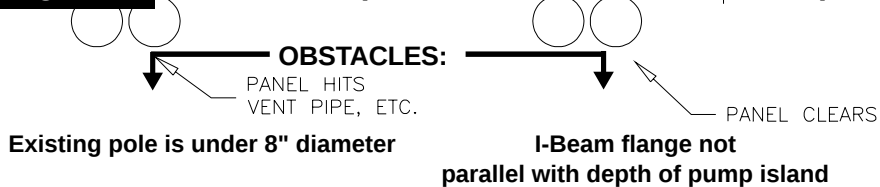
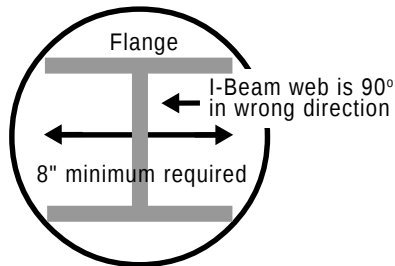
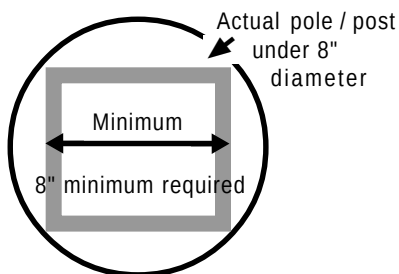


Figure 5. Determine optional extension bracket requirements



Optional Extension Bracket Kit includes longer-than-standard extension plates which attach to "U" brackets.



Parts List

Optional Extension Bracket Kit

Part Number: X-15228

NOTE: Use four (4) additional optional extension brackets (X-15228A) if also installing 30" extension kit.

NOTE: 18" diameter cladding is not compatible with square columns larger than 12".



Step 2. Install "U" brackets to column centerline

18", 20" & 24" Diameter Cladding Kit Instructions and Guidelines

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"U" brackets required

- Fourteen (14) "U" brackets per column
[seven (7) "U" brackets per side].



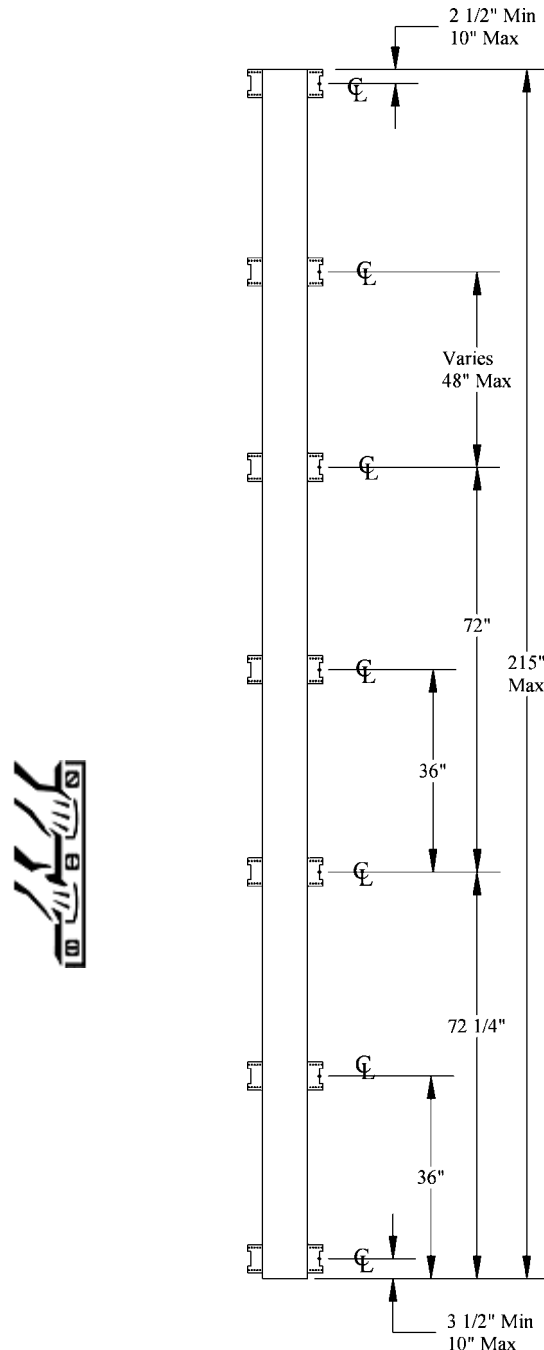
**Measure "U" bracket positions
on both sides of pole** (See Figure 6.)

- Follow vertical chalk lines established in Step 1.
- Set "U" bracket position measurements at
chalk lines, exactly according to increments
at right (Figure 6.)

Install "U" brackets

- Fasten all "U" brackets on-center of column
chalk line using two (2) #12 x 1¼" TEK screws
per bracket.

Figure 6. "U" bracket locations
(One side shown)



Step 3. **Install bracket extension plates to "U" brackets**

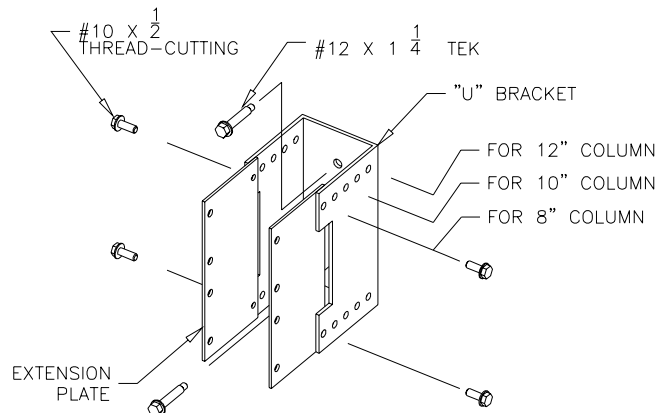
Extension plates required

- Twenty-eight (28) extension plates required [two (2) plates per "U" bracket].

Fastening extension plates

- Use four (4) #10 x $\frac{1}{2}$ " thread-cutting screws [two (2) thread-cutting screws per plate], as shown in Figure 7 for all diameters.

Figure 7. Standard "U" bracket / extension plate assembly

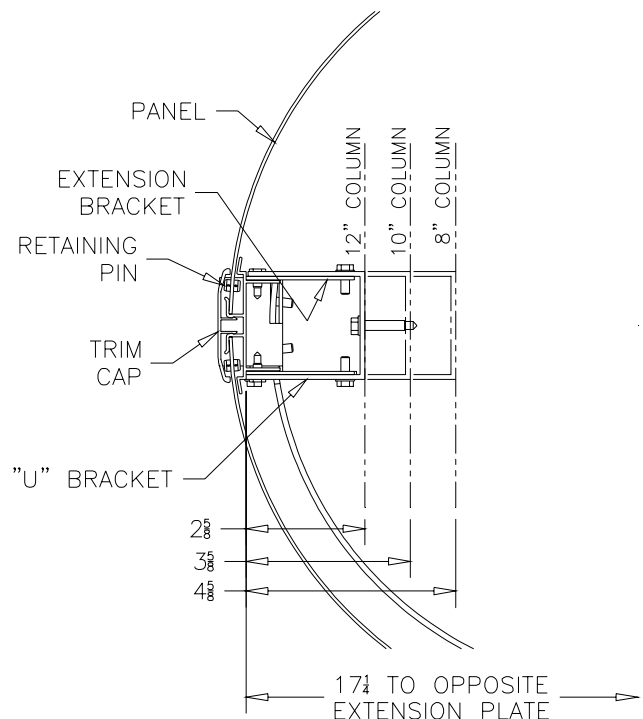


Measure edge-to-edge span of:

Pole (or I-beam) plus installed left and right "U" brackets with extension plates

- Overall distance should be $\frac{3}{4}$ " less than diameter of column cladding; i.e. 17 $\frac{1}{4}$ " for 18" column cladding diameter. (See Figure 8.)

Figure 8. Relationship of "U" bracket assembly to final installation



Step 4. Mount rear cladding extrusion to "U" bracket extension plates

18", 20" & 24" Diameter Cladding Kit Instructions and Guidelines

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Start installation at grade level. (See Figure 9C.)

Rear extrusions required

- Six (6) 72" lengths — three (3) per side.

Trim cap stop

- Two (2) trim cap stop brackets [one (1) per side].

Install trim cap stop

- Prior to installing rear extrusions to column, install one trim cap stop bracket to bottom end of two (2) 72" rear extrusions (one per side), as shown in Figures 9A. (exploded) and B. (assembled).



**Before fastening rear extrusion...
verify fit & alignment**

- Prior to driving screws, push extrusion tightly against "U" bracket extension plate assembly to ensure tight fit.

Position rear extrusion for installation

- First, install one (1) 72" rear extrusion with attached trim cap stop, to both sides of pole / beam, as shown in Figure 9C.
- Repeat installation procedure for middle 72" and upper 72" rear extrusion lengths as diagrammed in Figure 9C.

Fastening method for rear extrusions

- Fasten rear extrusions to "U" bracket assemblies with #10 x ½" TEK screws; [four (4) screws per extension plate].
- Do not over-tighten screws.
- Remove and replace any stripped screws.

**Join rear extrusions end-to-end; no gaps.
Position on-center of "U" bracket assembly.**
(Unless otherwise specified, e.g. top extrusion.)

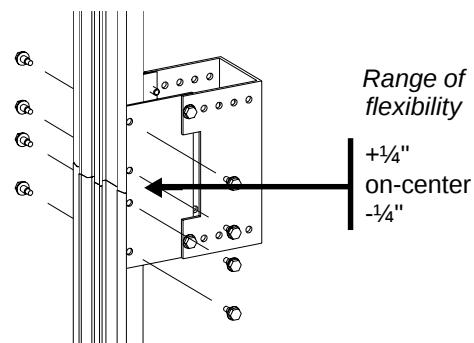


Figure 9A. Install trim cap stop

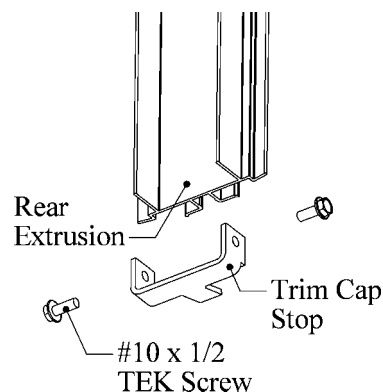


Figure 9B. Assembled trim cap stop

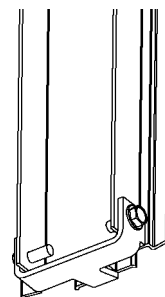
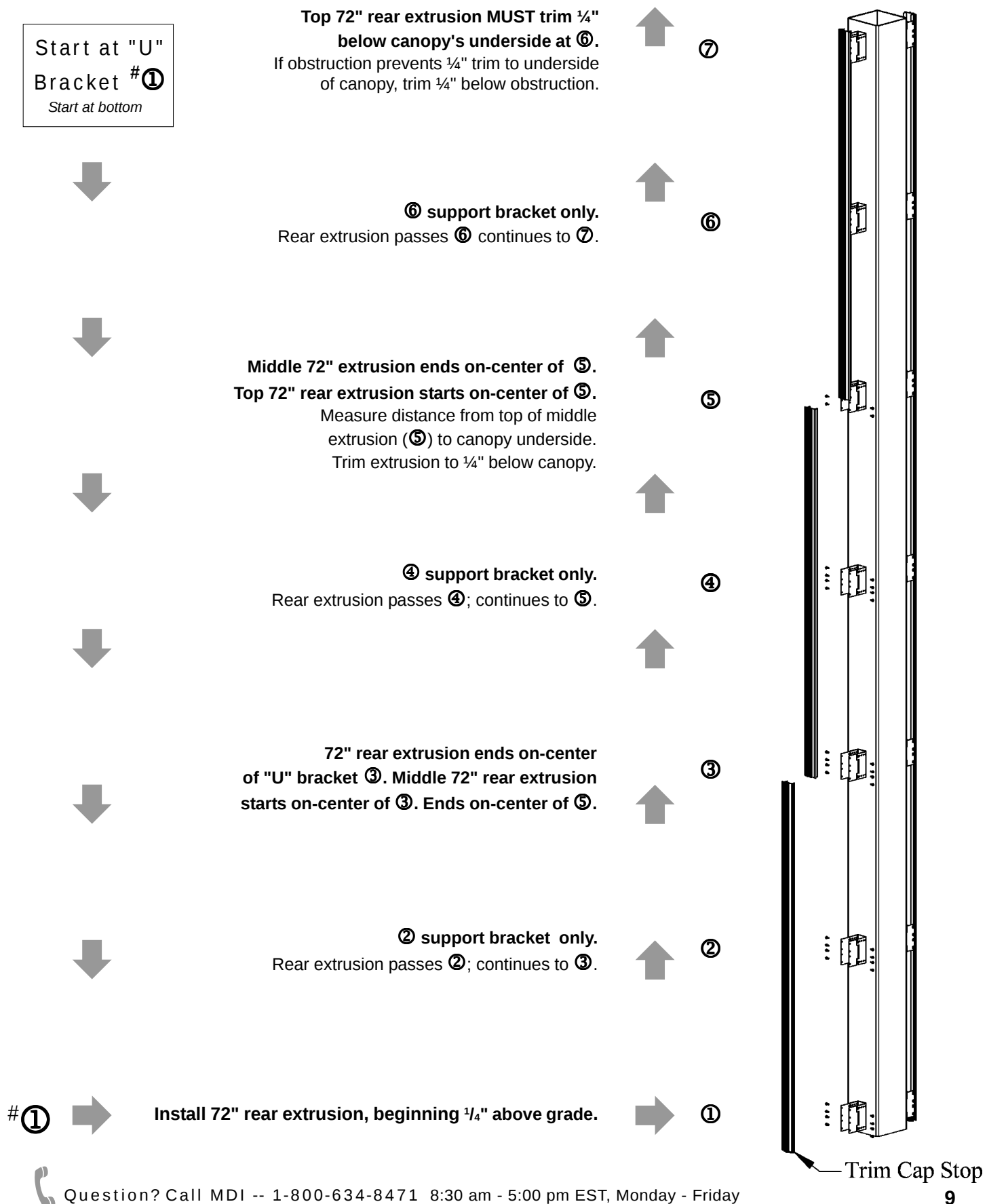


Figure 9C. Rear cladding extrusion attachment to "U" bracket assemblies
(One side shown)



Step 5. Position for installation; lower 30" panels and back-up strips

18", 20" & 24" Diameter Cladding Kit Instructions and Guidelines

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Panels, back-up strips, retainer pins and rivets

- Two (2) joint back-up strips [install at base of column].
- Eight (8) rivets [four (4) per back-up strip].
- Two (2) 30" lower panels.
- Eight (8) retainer pins required for each lower 30" panel [four (4) pins per panel seam, openings #1-#4].

Base Back-up Strips*

- Align and install two (2) back-up strips at column base, 1 1/2" above bottom of panel (before positioning lower 30" panels). (See Figures 10A and 10B.)
- Drill two (2) 1/8" holes in each end of back-up strip. Secure with four (4) rivets per back-up strip. Ignore pre-drilled openings. (See Figures 10B, Drilling Alignment.)

* TRIMMING AROUND OBSTACLES

If grade obstacles exist, follow trim guidelines below.

Then position bottom back-up strip 1 1/2" above top of trim. (Back-up strip position must not interfere with pre-drilled panel holes.)

Trim around obstacle.
Drill at radius intersect prior to cutting, to eliminate risk of panel fractures.

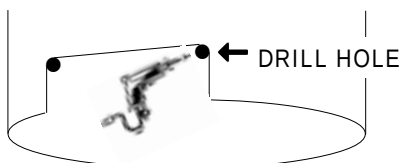


Figure 10A. Base back-up strip alignment

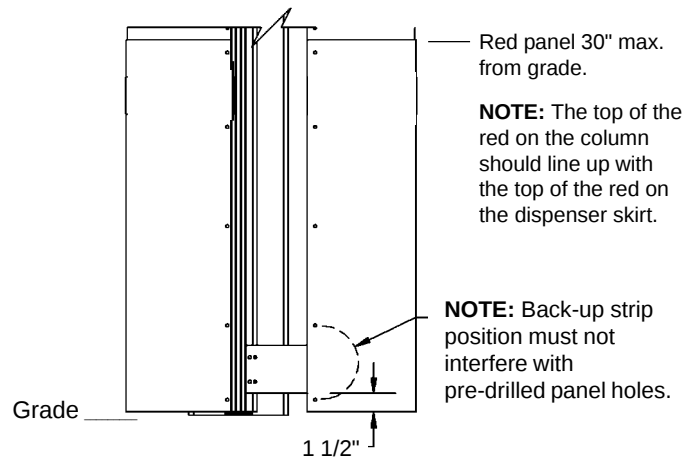
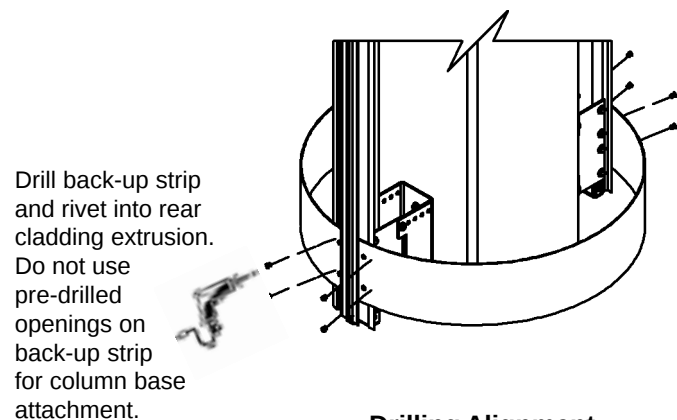


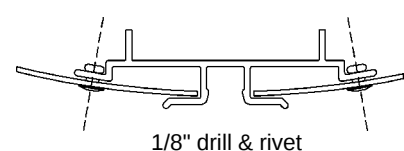
Figure 10B. Base back-up strip installation

Installed view



Drilling Alignment

Refer to diagram at left if obstacles exist.



Step 5. Position for installation; lower 30" panels and back-up strips

(continued)



PLEASE DO NOT REMOVE PROTECTIVE STATIC WRAP FROM PANELS UNTIL END OF STEP 8. NOTE: Static wrap temporarily protects finish during installation.

Position lower 30" cladding panels first Dry-fit prior to permanent installation

Note: The top of the red on the column should line-up with the top of the red dispenser skirt, up to a maximum height of 30". The red on the column must not exceed 30" height.

- Starting at 1/4" above grade, insert lower corner of one (1) panel into rear extrusion flange.
- Continue easing panel into flange, starting from grade toward top of panel, until one side of panel is fully inserted. (See Figure 11.)
- To stabilize dry-fit, insert one pin in pre-drilled openings #2, #3 and #4.
- Starting at bottom corner, flex panel around into extrusion on opposite side.
- Apply gentle pressure to already-installed side of panel (see Figure 11; "PUSH HERE") to insure panel is evenly secured into flange groove.
- When pressure is removed, panel will assume a round condition.
- To stabilize dry-fit, insert one pin in pre-drilled openings #1, #2, #3 and #4.
- Repeat process on opposite side.

(See Step 6, left column, for lower 30" panel trim specifications.)

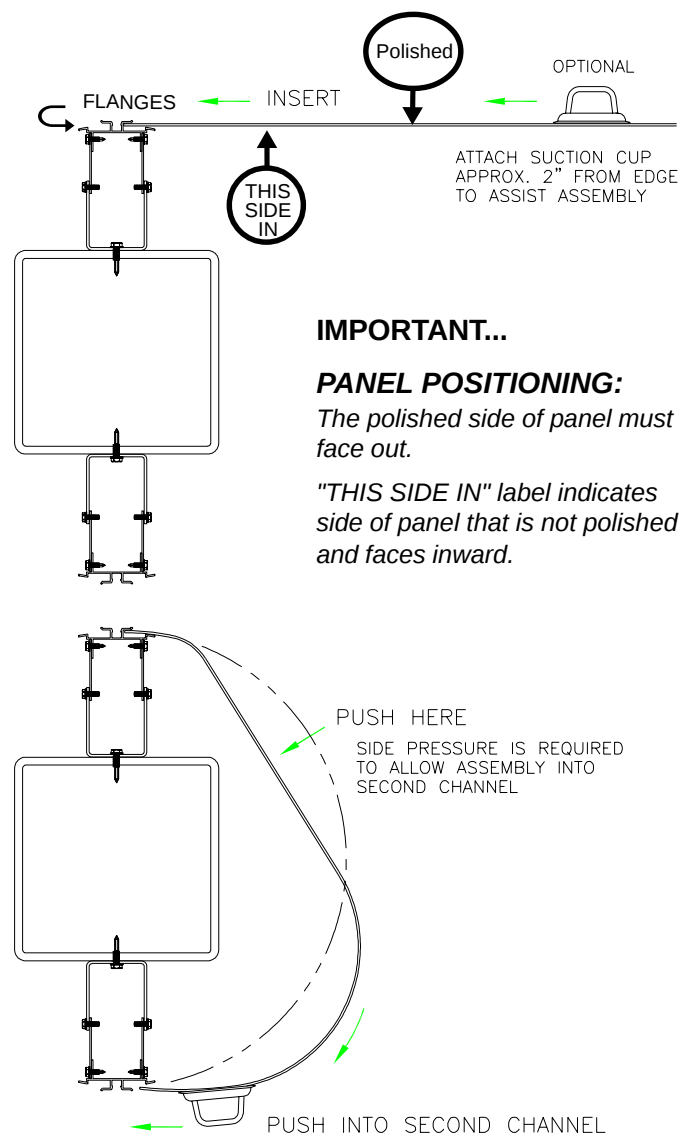
Panel positioning tips:

Installer assistance may be useful on first panel insert attempt.

Ratchet straps may help maintain cylinder shape while fitting panel edge into flange.

Suction cups may be helpful during cold or wet weather.

Figure 11. Position panels for installation



Step 6. Install lower 30" panels; check alignments

continued

18", 20" & 24" Diameter Cladding Kit Instructions and Guidelines

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Check grade-level panels for vertical and horizontal alignments

- Five (5) factory pre-drilled openings; each side.
- DO NOT insert pin in opening (#5) of lower column panel.
- Assure panels are level across the top.

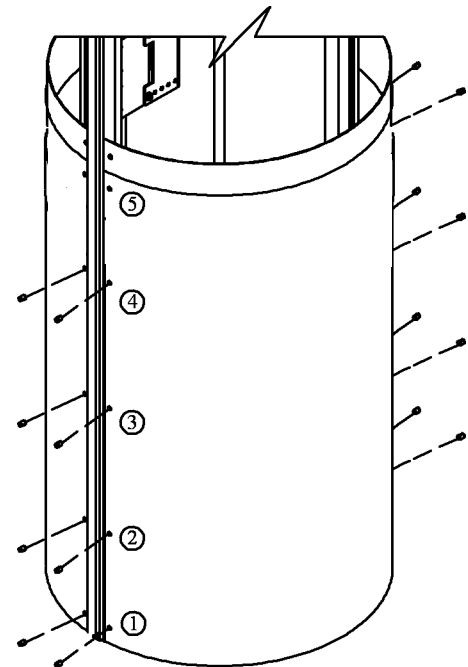
**With lower 30 panels temporarily
assembled, check top of panel alignments
with level.**

If gap at bottom of panel varies over $\frac{1}{4}$ ":

- Scribe gap contour on opposite bottom panel.
- Remove panels. Carefully trim scribed edge with razor knife or tin snips.
- If notching is required in addition to straight edge cuts, please see Step 5, page 10, bottom of page, for radius cutting directions to prevent panel damage.
- See Figure 13, diagramming joint back-up strips attaching between panel and rear extrusion at opening #5.
- Then, reinstall panels and pins in openings #1 through #4.
- Check and adjust panels to level across the top.

Figure 12. Factory pre-drilled pin openings, and dry-fit pinning

Temporarily secure openings #1, #2, #3 & #4 with pins
prior to alignment verifications.



*RE: MIDDLE & UPPER COLUMN:
Fill ALL openings with pins.
No screws or rivets.*

Step 7. Install remaining three sets of back-up strips, and middle 92" panel

Joint back-up strips for top of lower 30" panel to bottom of middle 92" panel

- Two (2) joint back-up strips with pre-drilled openings to screw back-up strip and panel together into rear extrusion. (See Figure 13.)
- Two (2) #10 x 3/4" Philips-head screws [one screw per 30" panel seam, opening #5 only].

NOTE: These screws also secure lower pre-drilled openings in back-up strip. See Step 7.

Fastening sequence:

- Position joint back-up strip behind 30" panel, then insert screws.
- Repeat for opposite side.

Middle 92" panels and back-up strips

- Two (2) joint back-up strips with pre-drilled openings [one (1) back-up strip per side].
- Two (2) 92" middle panels [one (1) panel per side].
- Pins for all pre-drilled panel and back-up strip holes.

Position and install middle 92" cladding panels and back-up strips

- Follow Step 5, Figure 11 for general "bottom-up" installation sequence.
- First, align middle 92" panel(s) #1 pre-drilled openings with back-up strip(s) upper pre-drilled openings.
- Secure panel opening #1 and back-up strip opening into rear extrusion with pin.
- Dry-fit upward, seating panel into flange of rear extrusion, until one side is fully inserted, including back-up strip at top of middle 92" panel.
- Repeat for opposite side.

Figure 13. Joint back-up strips connect behind lower 30" panel and middle 92" panel

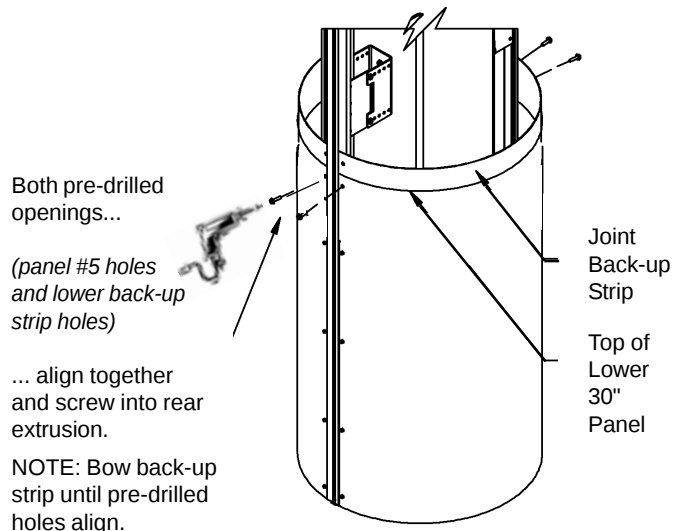
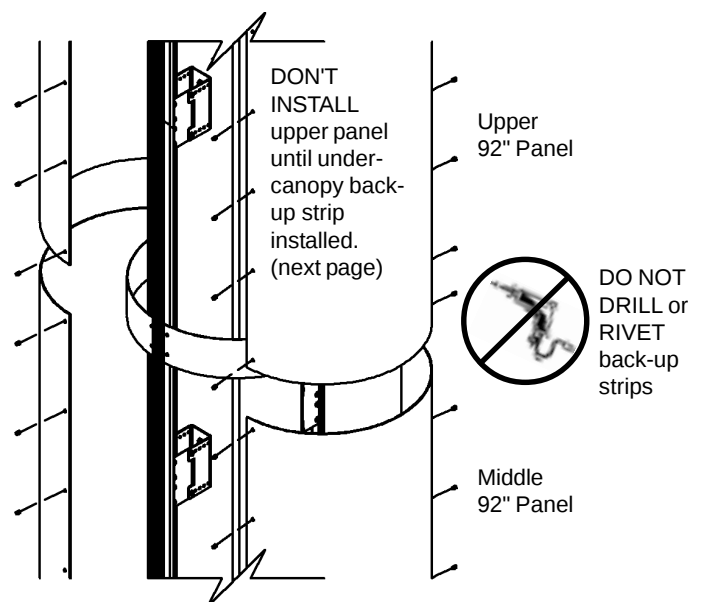


Figure 14. Joint back-up strips pin behind middle 92" panel and upper 92" panel



Step 7. Install remaining three sets of back-up strips, and middle 92" panels

18", 20" & 24" Diameter Cladding Kit Instructions and Guidelines

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Two installation methods for upper back-up strips:

- **No under-canopy obstacles**, go to next step. See Figure 15.
- **Under-canopy obstacles**, see Figures 16A & 16B, before proceeding.

Back-up strips for top of upper 92" panel (under-canopy)

- Two (2) back-up strips [install at top of column].
- Eight (8) rivets [four (4) per back-up strip].

Attachment Method & Drilling Alignment

(with or without obstructions)

Drill and rivet into place. Don't use pre-drilled openings on back-up strip for column top attachment.

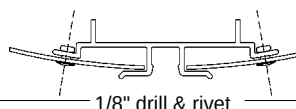


Figure 15. Upper back-up strip installation without obstructions

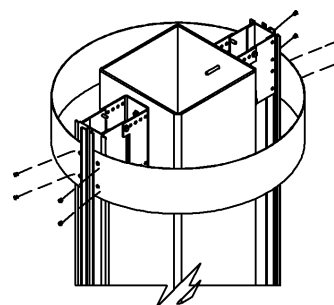
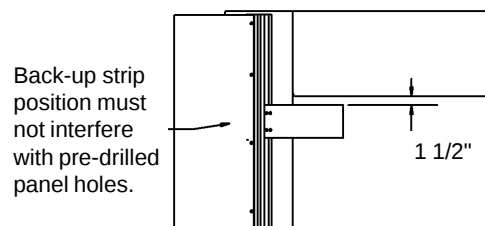


Figure 16A. Upper / under-canopy back-up strip alignment with obstructions



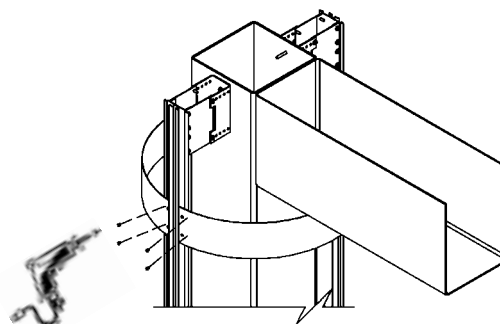
Under-canopy back-up strips installation Without obstructions

- Align and install two (2) back-up strips at top of column, 1 1/2" below under-canopy.
- Back-up strip position must not interfere with pre-drilled panel holes.
- Drill two (2) 1/8" openings in each end of back-up strip. Secure each back-up strip with four (4) rivets. (See Figures 15.)

Under-canopy back-up strips installation With obstructions

- Align and install two (2) back-up strips at top of column, 1 1/2" below obstruction.
- Back-up strip position must not interfere with pre-drilled 92" pre-drilled panel openings.
- Drill two (2) 1/8" holes in each end of back-up strip. Secure with four (4) rivets per back-up strip. (See Figures 16A and 16B.)

Figure 16B. Upper back-up strip installation with obstructions



Step 8. Install upper 92" panels

Critical Trim Specifications

Before proceeding with upper 92" panels

All measurements, height and / or obstruction trim adjustments, and back-up strip installation must be complete.

- Maximum cut length of top 92" panel will be less than measured distance from top of installed lower 92" panels (excluding back-up strip) to underside of canopy deck. (See Trim Space Guidelines). This space permits expansion / contraction with temperature changes. Straight trim if necessary.
- See Radius Cutting Guidelines for obstacles.



CRITICAL Trim Space Guidelines under-canopy/top of panel

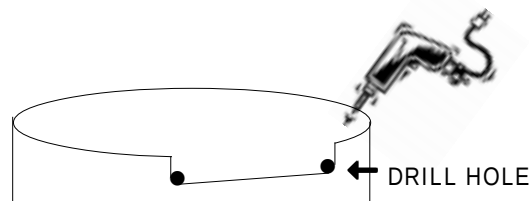
On day of installation, if...

Temperature	Distance between under-canopy and top panel
-------------	---

- | | |
|----------------------|--------------------|
| • <0°f | leave 1 1/2" space |
| • 0° to 40°f | leave 1 1/8" space |
| • 41°f to 80°f | leave 3/4" space |
| • >81°f | leave 3/8" space |



CRITICAL Radius Cutting Guidelines for obstructions



BEFORE CUTTING, drill hole at each intersect to avoid risk of panel fractures.



If top of upper panel required trimming...

- DO NOT drill additional retainer pin openings.
- Use uppermost existing factory-pre-drilled opening, secured with retainer pin.



General "DO NOTs" for upper column...

- DO NOT use TEK screws or rivets to secure any area of upper panels.



Critical under-canopy trim airspace...

- DO NOT caulk top of panel / column to under-canopy.



Step 8. Install upper 92" panels

(continued)

18", 20" & 24" Diameter Cladding Kit Instructions and Guidelines

IF OPTIONAL KITS ARE SPECIFIED, PLEASE SEE
OPTION KIT INSTRUCTIONS BEFORE PROCEEDING
WITH INSTRUCTION BELOW.

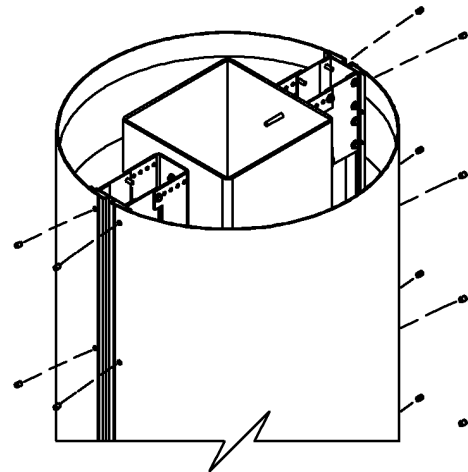
Upper 92" panels with or without obstructions

- Two (2) 92" panels [one (1) panel per side].
- Pins for pre-drilled panel and back-up strip holes.

Position and install upper 92" panels without obstructions

- Secure upper 92" panel's #1 pre-drilled hole with back-up strip's upper pre-drilled hole into rear extrusion with pin. (See Figure 17.)
- Dry-fit upward, seating panel into rear extrusion flange, until one side is fully inserted.
- Temporarily add one (1) pin to upper-most opening until both sides of panel are dry-fitted.
- Check alignments and repeat on other side.
- Insert pins in all remaining pre-drilled openings.

Figure 17. Install upper 92" panels
without obstacles



Install upper 92" panels with obstructions/obstacles

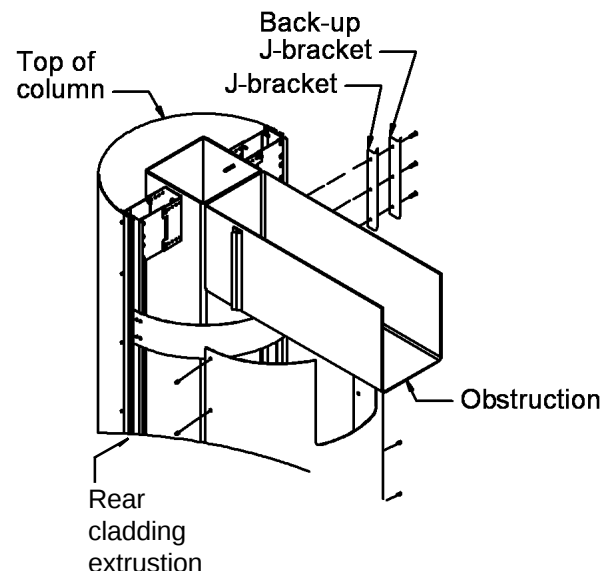
J-brackets stabilize vertical panel cuts surrounding obstacle

- Two (2) J-brackets; two (2) back-up J-brackets [one (1) J-bracket and one (1) back-up J-bracket for each side of obstruction].
(J-bracket and a back-up J-bracket are referred to as a "pair.")
- Six (6) ¾" Philips-head screws [three (3) screws per J-bracket pair].

Attach J-brackets to obstacle

- Establish J-bracket mount locations by inserting piece of scrap panel into trim extrusions, just below obstacle. Mark obstacle at points where panels bend.
- Trim J-bracket pairs to same height as gutter/obstacle. (See Figure 18.)
- Install one (1) pair of vertical J-brackets on each side of obstacle with three (3) ¾" Philips-head screws per J-bracket pair.

Figure 18. J-bracket installation to obstacle



Step 8. Install upper 92" panels

(continued)

Trim panel for obstacle/obstruction

- Follow all panel measurement and cutting guidelines detailed on page 15 before installing upper 92" panels.

Install upper 92" panels With obstructions/obstacles

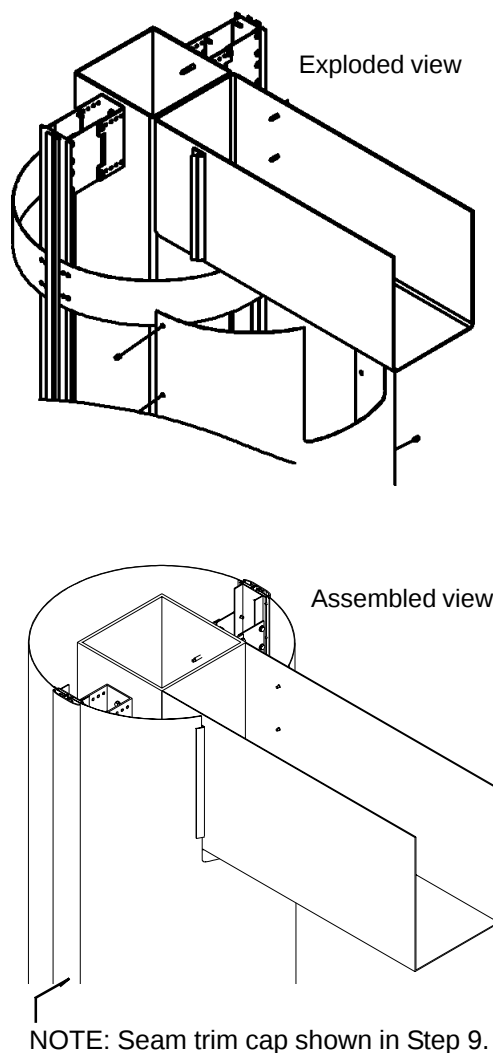
- Secure upper 92" panel's #1 pre-drilled hole with back-up strip's upper pre-drilled hole into rear extrusion with pin.
(See Figure 17.)

- Dry-fit upward, seating panel into rear extrusion flange, until one side is fully inserted.

IMPORTANT: Carefully work vertical obstruction trims inbetween pair of J-brackets positioned on either side of obstruction.

- Temporarily add one (1) pin to upper-most opening until both sides of panel are dry-fitted.
- Check alignments and repeat on other side.
- Insert pins in all remaining pre-drilled openings.

Figure 19. Install upper 92" panels with obstructions



Step 9. **Install seam trim caps**

18", 20" & 24" Diameter Cladding Kit Instructions and Guidelines

IF OPTIONAL KITS ARE SPECIFIED, PLEASE SEE
OPTION KIT INSTRUCTIONS BEFORE PROCEEDING
WITH INSTRUCTION BELOW.



Optional column attachments may be specified for this installation.
Please see specific instructions in option kits before proceeding with this step.

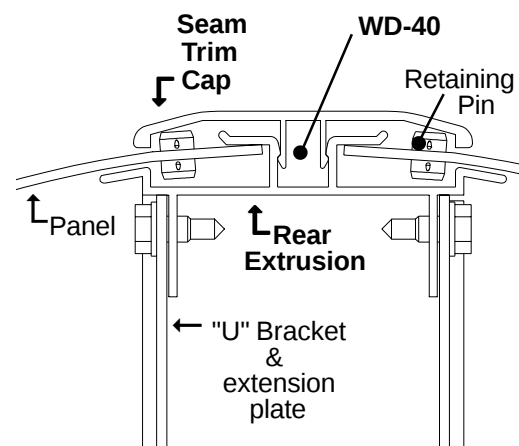
Required for seam trim cap installation

- Four (4) 92" lengths of seam trim cap extrusion [two (2) per side].
- Two (2) 30" trim extrusions [one (1) per side].

Installation of seam trim cap

- Lightly spray WD-40 into channel of rear extrusion. Wipe excess. (See Figure 20.)
- Starting at grade, align trim cap with panel seams.
- Working upward, insert trim cap into rear extrusion channel as diagrammed, using a rubber mallet or similar protected hammer.
- Horizontal end-to-end seams between trim caps should align with horizontal seam between upper and lower panels.
- Cut top of trim cap $\frac{1}{4}$ " below canopy deck panel and/or column-top obstacles.
- Repeat process for opposite side.

Figure 20. Seam trim cap assembly



Panels are now fully installed and secured to rear extrusion. Remove (peel away) all temporary protective static wrap from columns. Clean and rinse columns if necessary. See approved cleansers, page 19.

Thermoplastic Resin Panels

IMPORTANT: Use only a soft cloth or sponge when applying any of the approved products listed.

Thorough periodic cleaning:

Use any of the approved items listed below.

Graffiti removal:

Graffiti -- including most: permanent markers; crayons; paint; and burn marks -- can be removed with a non-petroleum citrus-based solvent (such as Citra-Solv) at full strength. After cleaning, buff area with an approved polish to restore gloss.

APPROVED:*



Soap and water

Ammonia

Aarmor-All Protectant

(no abrasives)

* IMPORTANT:

For each panel color, always test solution in a small, inconspicuous area before actual applicaiton.





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Question? Call 1-800-634-8471 8:30am- 5:00pm EST, M-F

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