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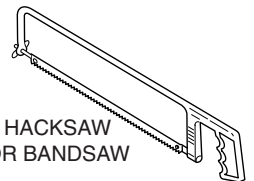
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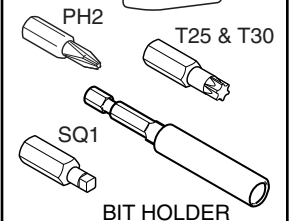
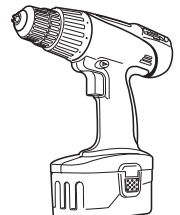
**NOTE:** Cut ends have specific locations within the floor layout. These products will be identified with an *Installation Reference Identification Label (IRID)*, which will indicate the location of the product within the floor plan layout.



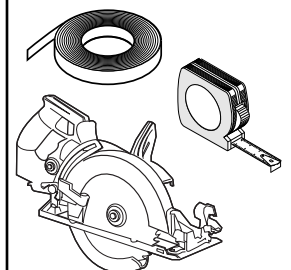
**TIP:** A 5-point alignment self leveling laser is the best tool to plumb, level & square the product.



HACKSAW  
OR BANDSAW

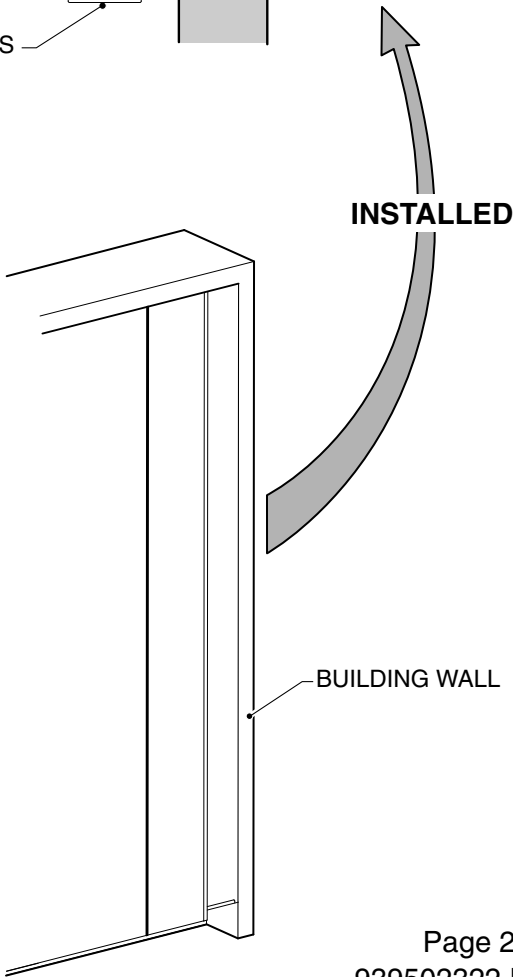
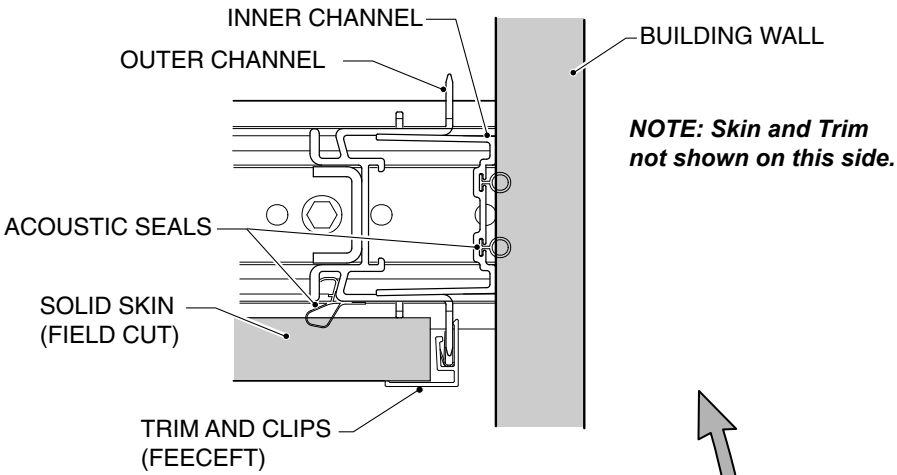
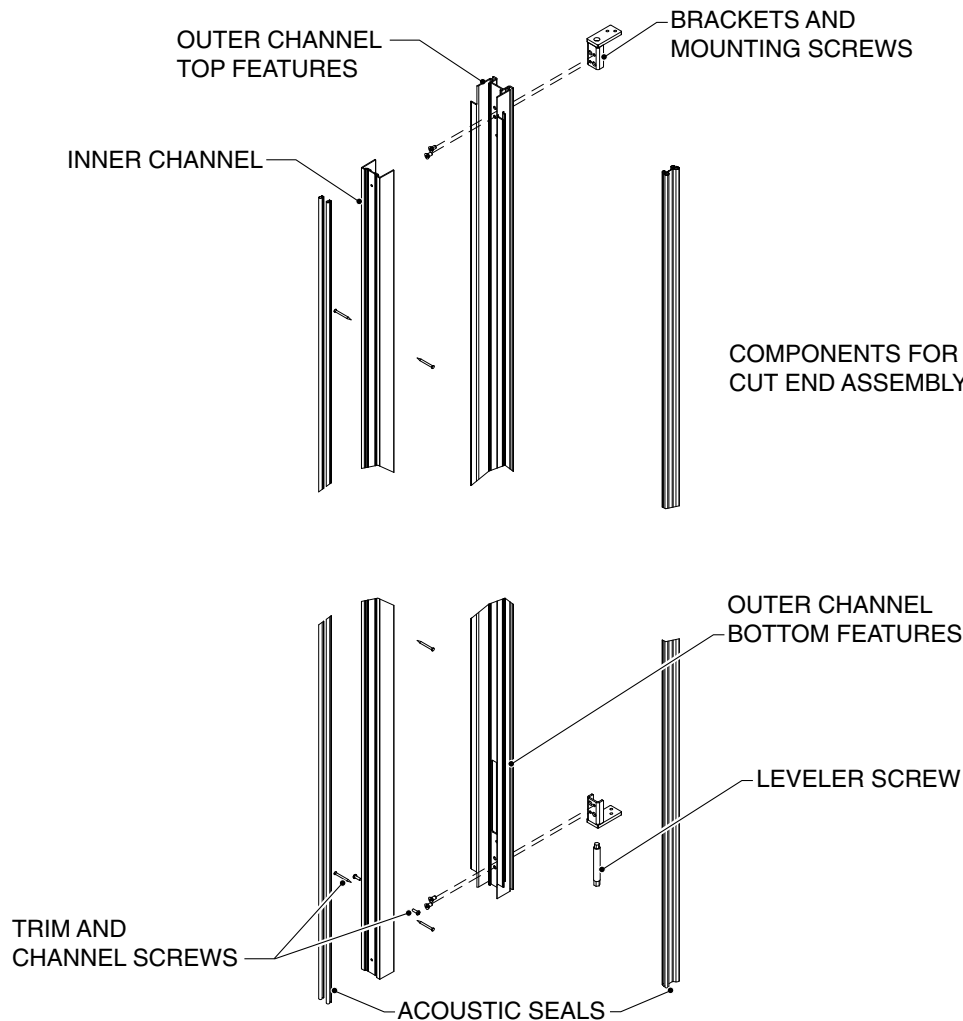


1/8", 3/16"  
and 3/8"  
DRILL BITS



ASSEMBLY 90 DEGREE

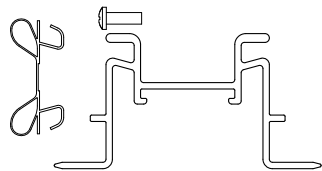
**NOTE:** A 90 degree cut end assembly is intended for use when customers want a solid skin to be trimmed tight to a build wall. It is also the base for soffit and sill applications. The skins, structural horizontals and inner channel require field cut in this application. The outer channel and trim are ordered per plan height.



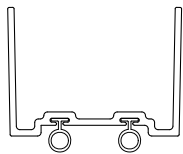
## ADDITIONAL COMPONENTS

**NOTE:** When a customer needs to build around more complicated features such as soffits or sills, additional components are sent to accomplish these applications. Skins, structural horizontals, inner channel, outer channel, and trim may require field cutting in these applications.

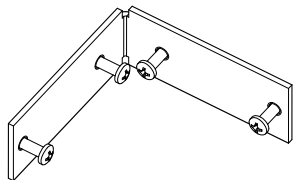
### Additional Components for Cut End Applications:



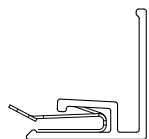
**FEECEO** - Cut End - Outer Channel,  
available in 4' , 10', and 12' lengths.



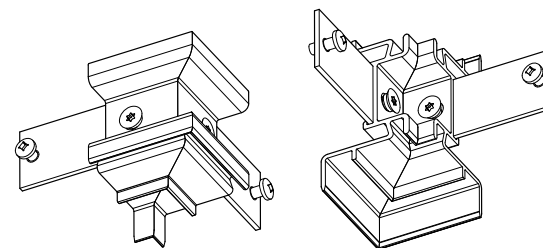
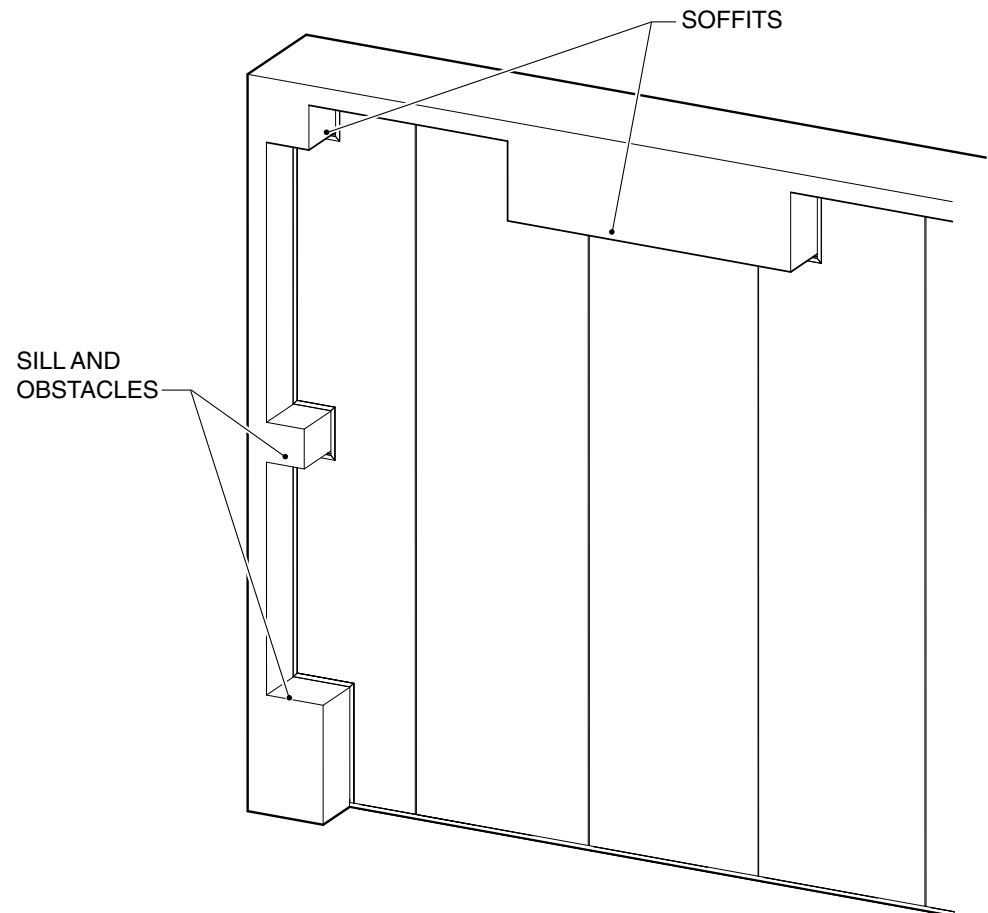
**FEECEI** - Cut End - Inner Channel,  
available in 4' , 10', and 12' lengths.



**FEECEAI** - Cut End - Corner Angle



**FEECECT** - Cut End - Capture Trim  
Lengths vary per application.

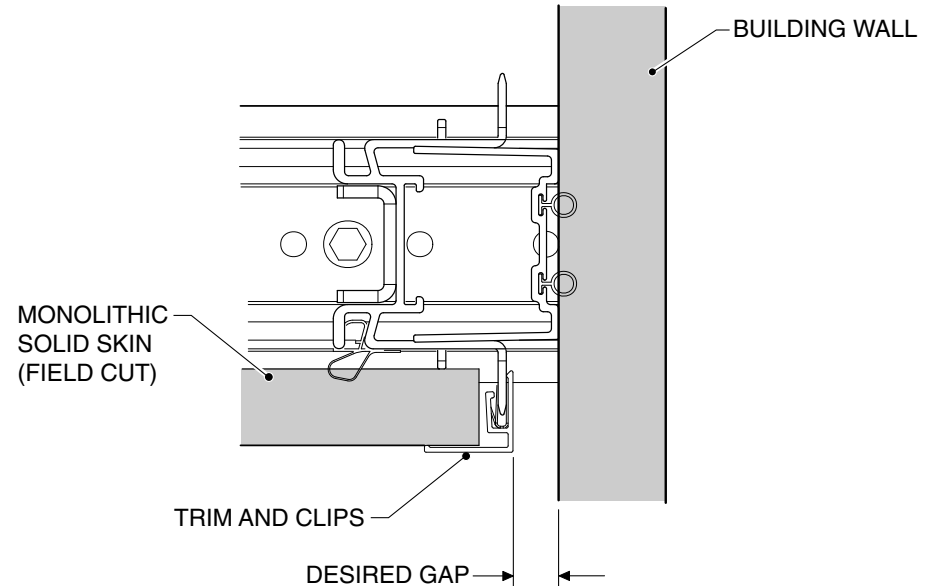


**FEECEEO** - Cut End - Elbows  
Inside and Outside

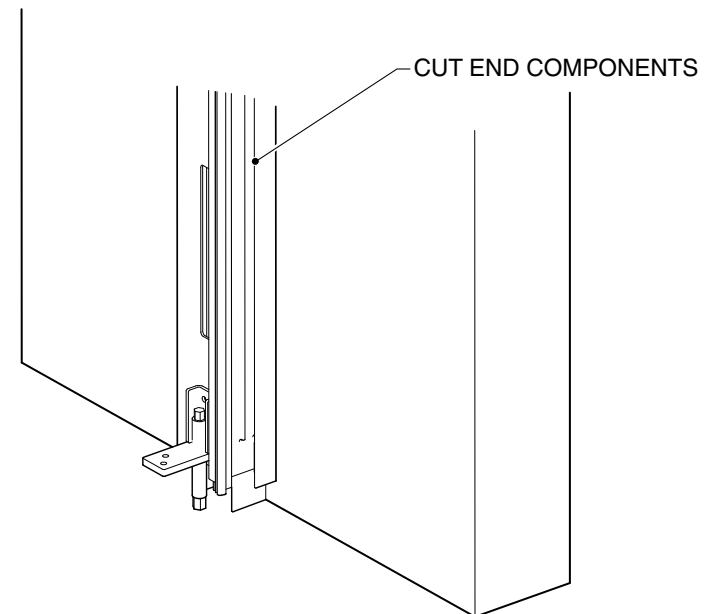
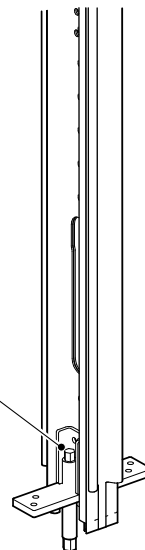
## GETTING STARTED

**NOTE:** Refer to assembly direction 939502326 for proper installation of V.I.A. ceiling track and structure. Structure should be installed to the point that it is level, plumb, square, and ready for skin application as much as possible prior to completing cut end conditions. Also refer to assembly direction 939502320 for information on solid skins.

**NOTE:** Cut end components have an installed desired gap range of 3/32" to 15/16" to accommodate customer's building variation. Desired gap will be used to calculate cut lengths of various components. Depending on the buildings variation, the desired gap may need to be adjusted larger to accommodate larger variation. It is recommended to start desired gap at 1/2". A smaller desired gap may be achieved if building variation is minimal.



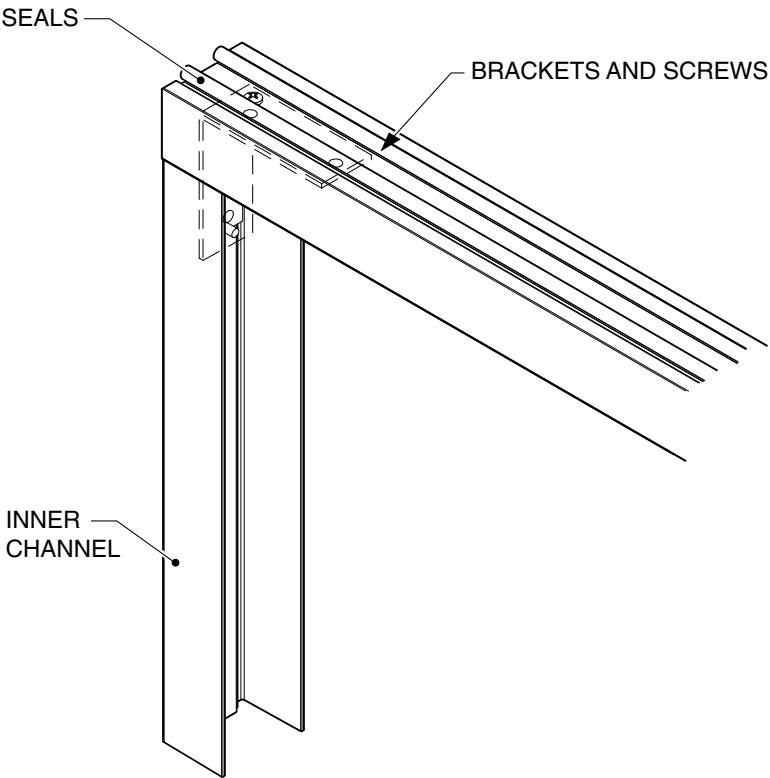
*Orienting the leveler screw of the adjacent vertical post to the side farthest away from cut end will avoid additional field cutting. Floor track not shown.*



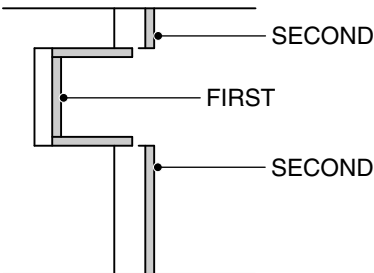
INNER CHANNEL WALL MOUNT METHODS

NO FASTENERS

When customers don't allow fastening components to walls.

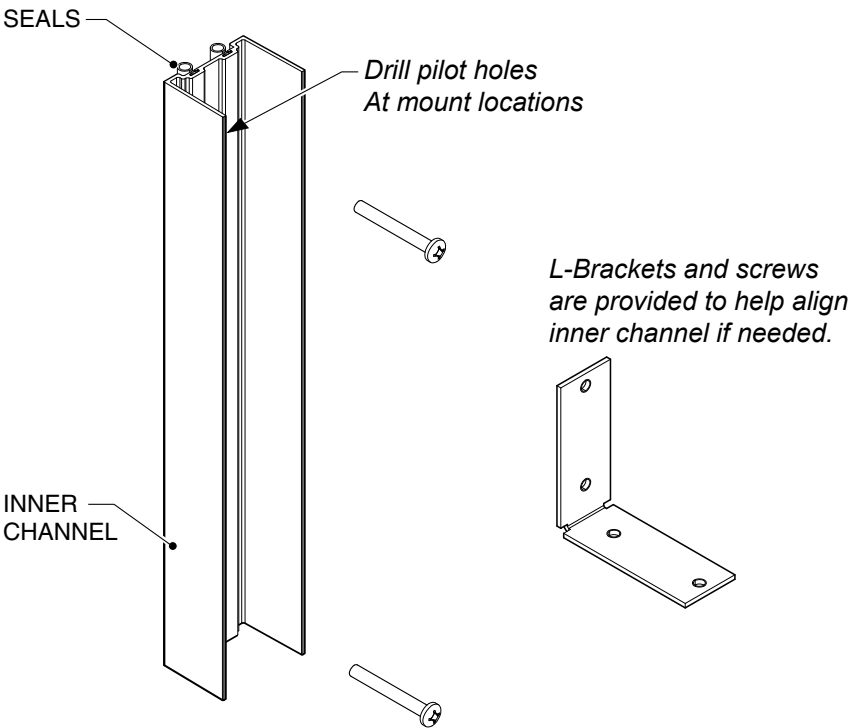


*Measure, cut, assemble brackets, then install in sections to building wall.*

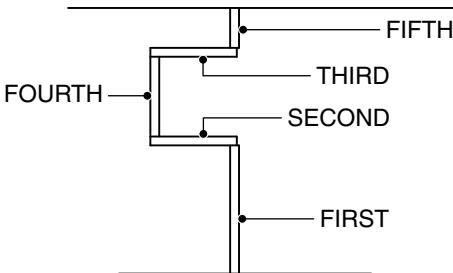


FASTENING TO BUILDING

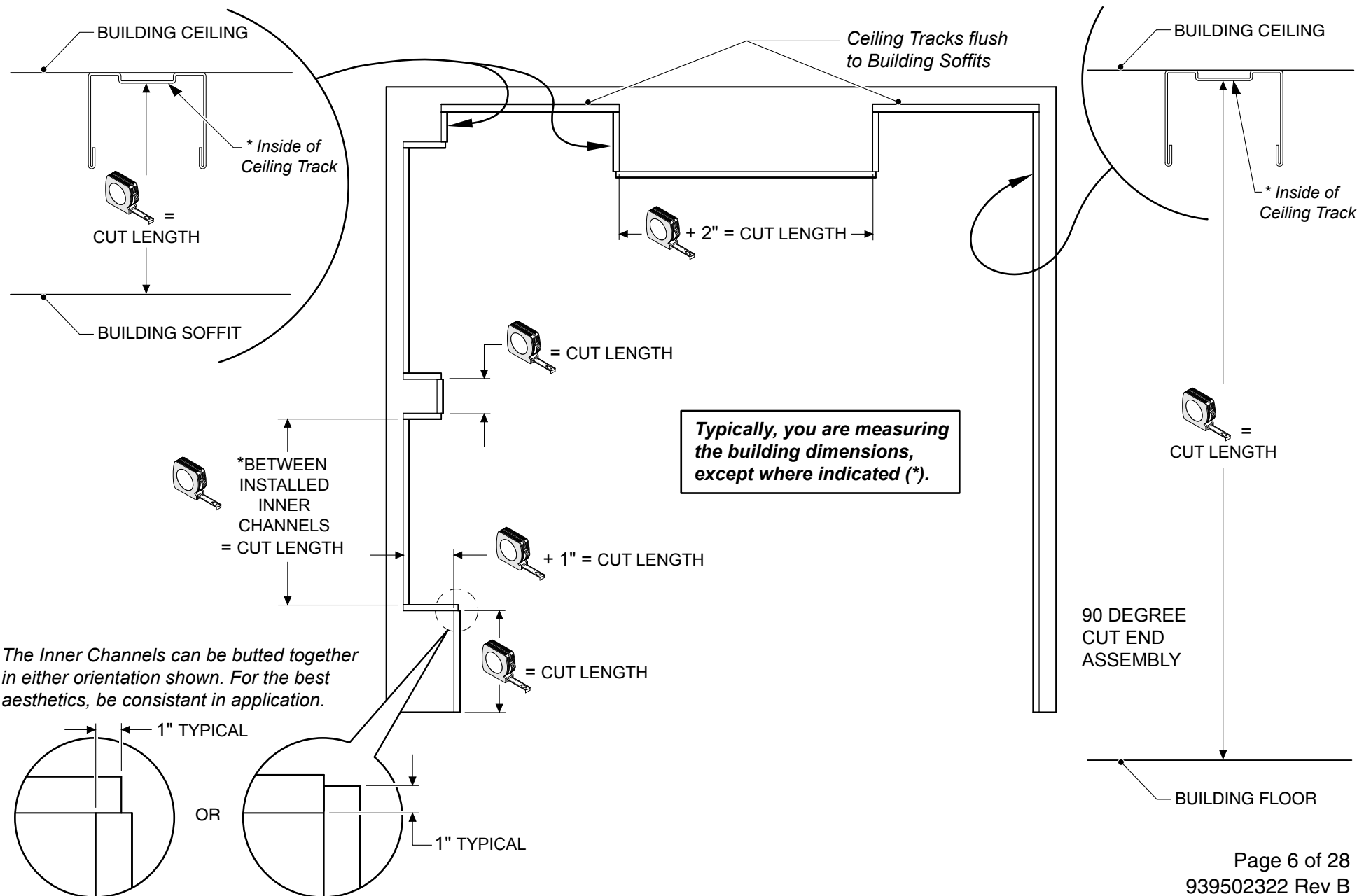
Engineer of record should define type of fastener to use when anchoring to building wall.  
**Anchor screws are not provided.**



*Measure, cut, and install to building wall one piece at a time.*



INNER CHANNEL TYPICAL MEASUREMENTS AND FORMULAS



## INSTALLING 90 DEGREE CUT END

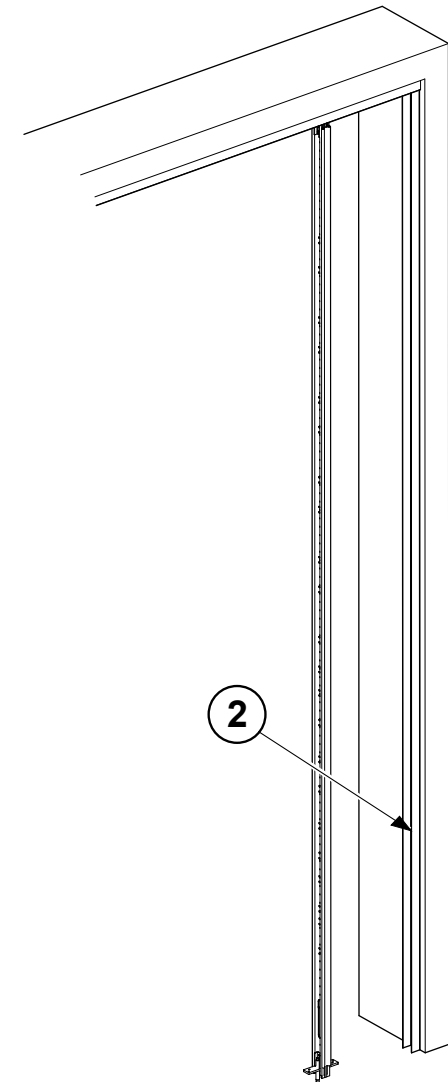
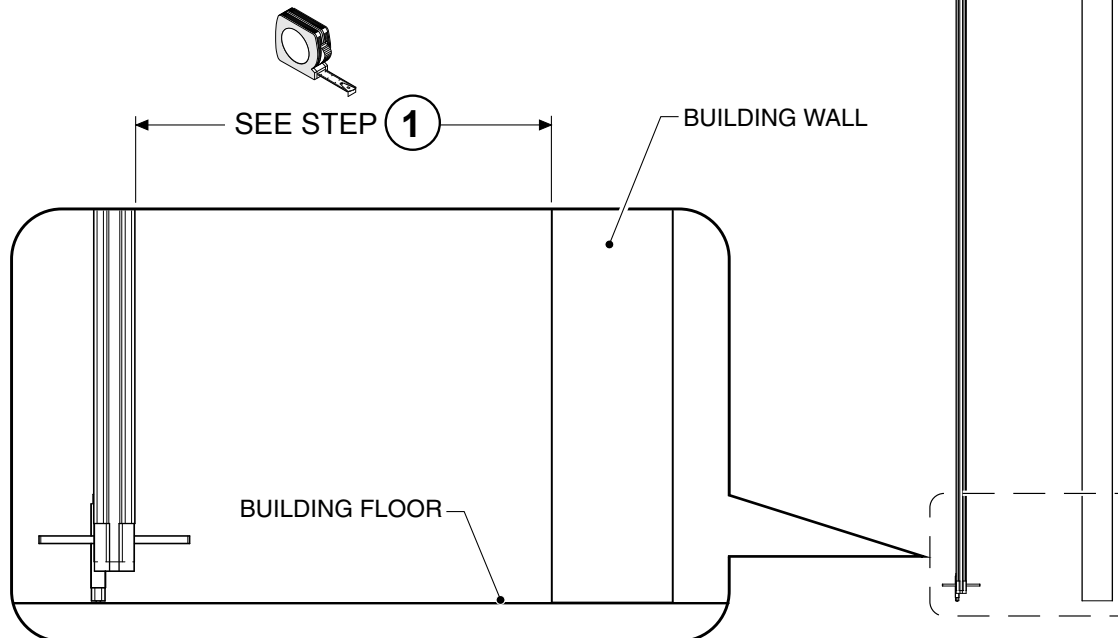
**1.** Measure from building wall to edge of adjacent vertical post. Cut (2) structural horizontals and the floor track to the cut length result of formula:

***Cut Length = Measurement - desired gap - 1-3/4"***  
***(Example: 16" - 1/2" - 1-3/4" = 13-3/4")***

***NOTE: The structural horizontals and floor track will be designated with RFID from layout drawings.***

**2.** Determine the inner channel wall mount method. Cut and install the inner channel per instructions on pages 5 and 6.

***NOTE: Vertical post is assumed to be plumb and level before measurement.***



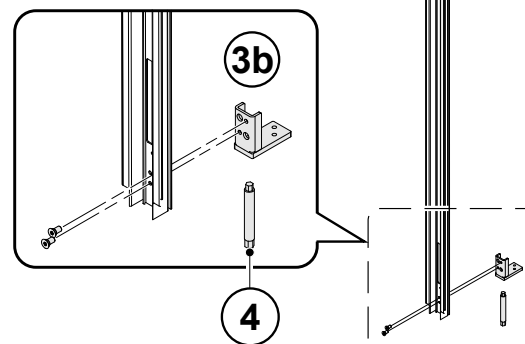
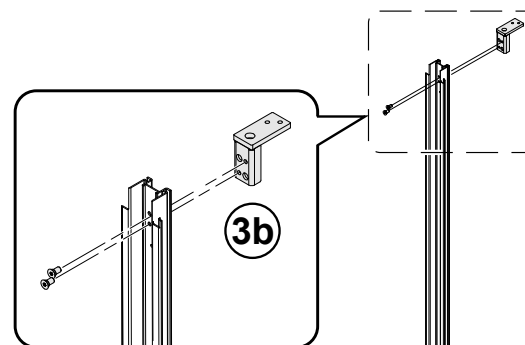
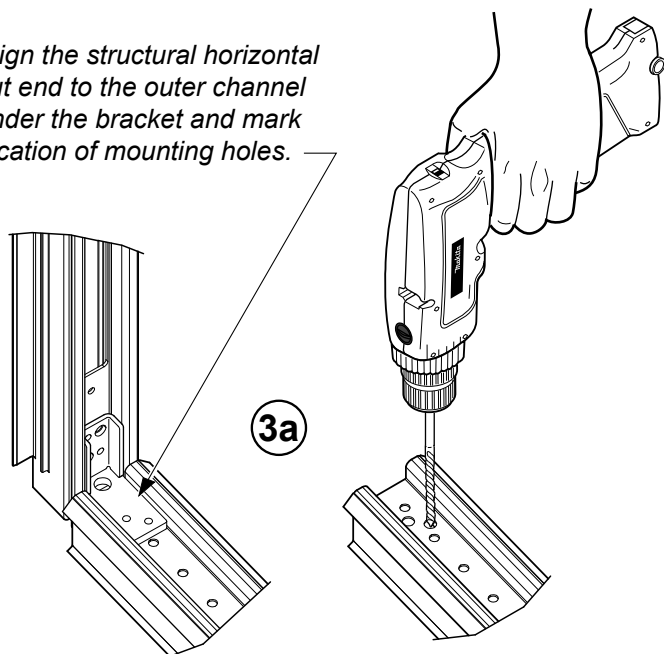
## INSTALLING 90 DEGREE CUT END (continued)

**3.** a) Use the outer channel and bracket as a template to locate mounting holes on the cut end of the two structural horizontals. With a 3/8" diameter drill bit make (2) clearance holes in each structural horizontal. Then b) assemble brackets to outer channel as shown.

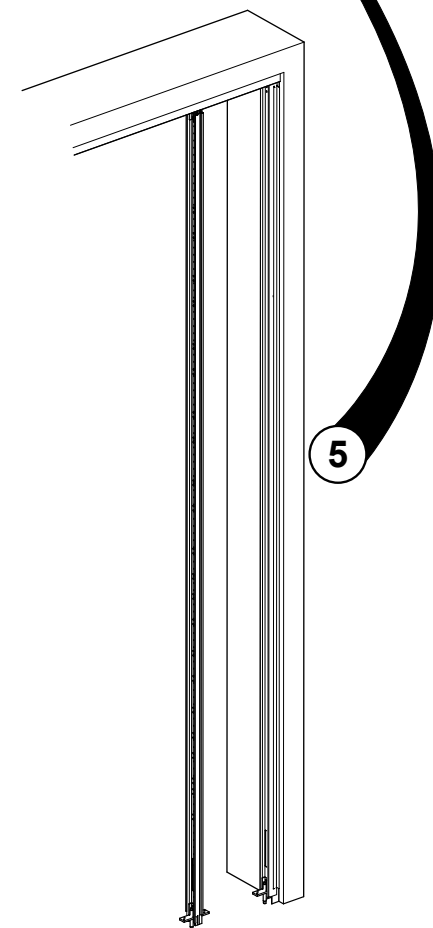
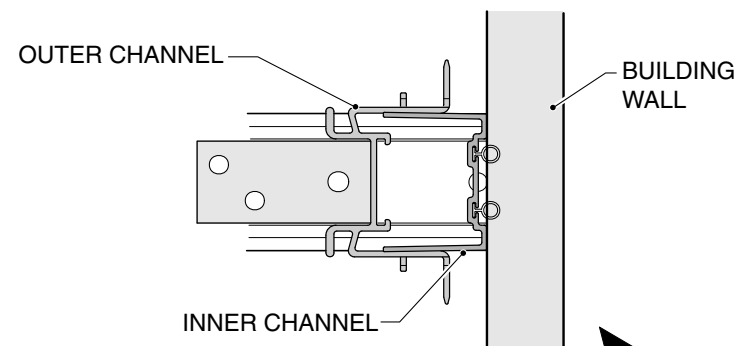
**4.** Assemble the leveler screw as shown.

**5.** Insert outer channel assembly over inner channel assembly.

*Align the structural horizontal cut end to the outer channel under the bracket and mark location of mounting holes.*



LEVELER SCREW





## INSTALLING 90 DEGREE CUT END (continued)

**6.** Place the cut floor track and spring(s) between the vertical post and the outer channel assembly as shown.

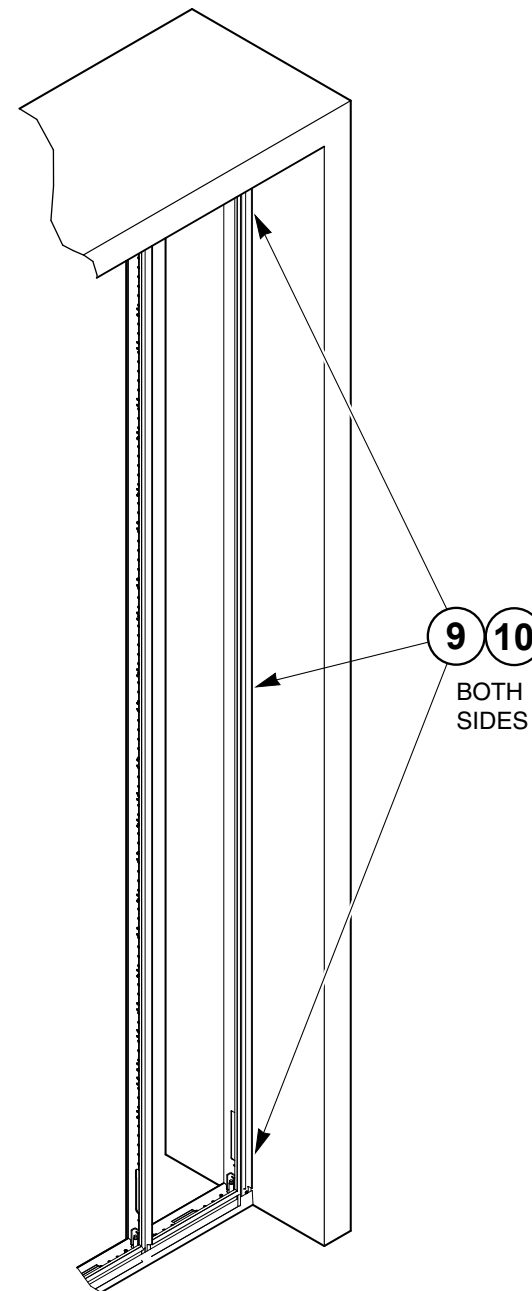
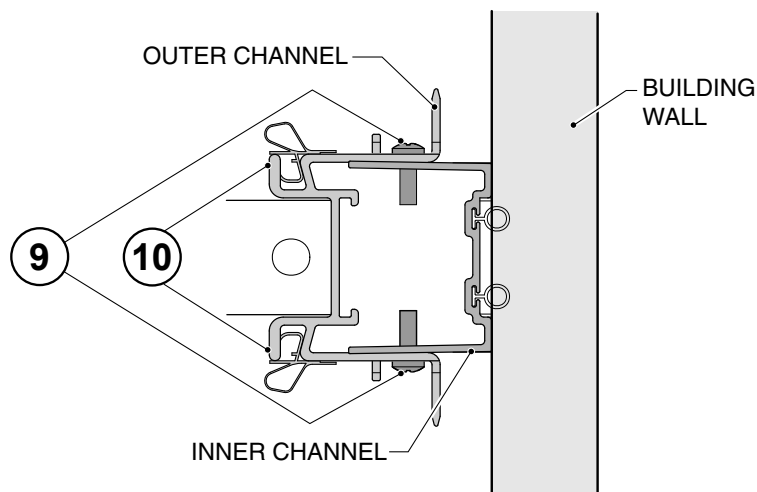
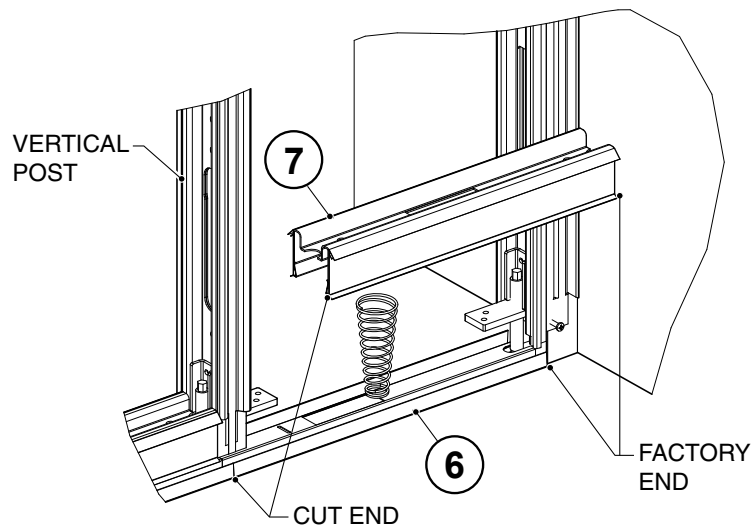
**7.** Using screw (FEPF01), install one of the cut structural horizontals at the floor as shown, and the other at the ceiling.

**8.** Level and plumb outer channel assembly and structural horizontals.

**9.** Use self tapping screws to secure outer channel assembly to inner channel a minimum of (3) places per side.

**10.** Cut the seal lengthwise in half and apply halves to both sides of the outer channel as shown. Refer to the adjacent vertical post to determine how long to cut the seal.

**11.** Install the base trim on both sides.



## CUTTING SKINS FOR 90° CUT END

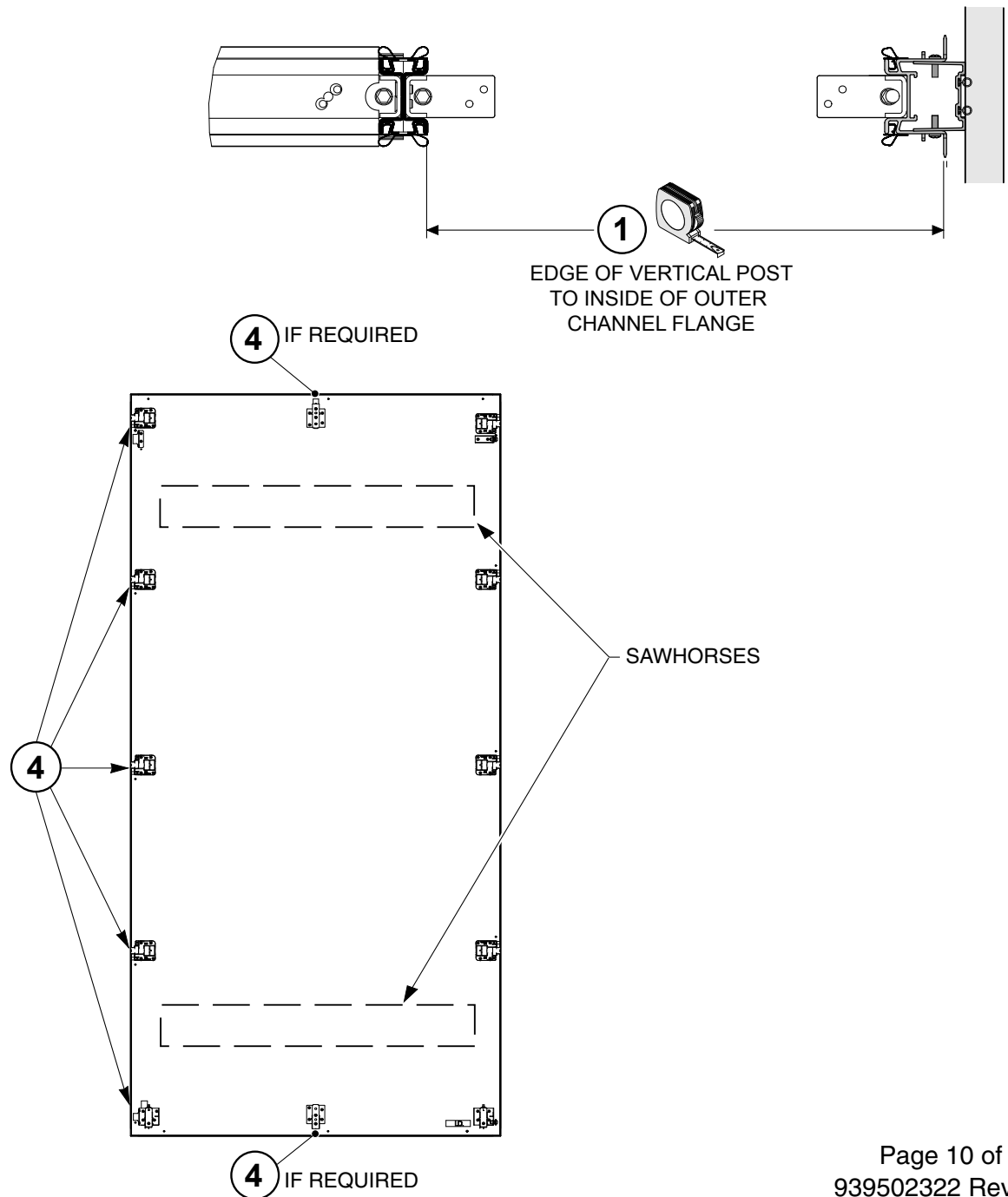
**1.** Measure from the edge of the vertical post to the inside of the outer channel flange.

**TIP:** Double check that the structure is plumb and level by measuring at top middle and bottom. Each measurement should be approximately the same.

**2.** Use this formula to determine the cut skin width:  
**Measurement + 7/16" = Cut Width.**

**3.** Use the IRID and layout drawings to determine the correct skin for each side of this application. Determine the orientation of a skin and place it face down on sawhorses or a makeshift bench making sure to protect the surface of the skin from damage.

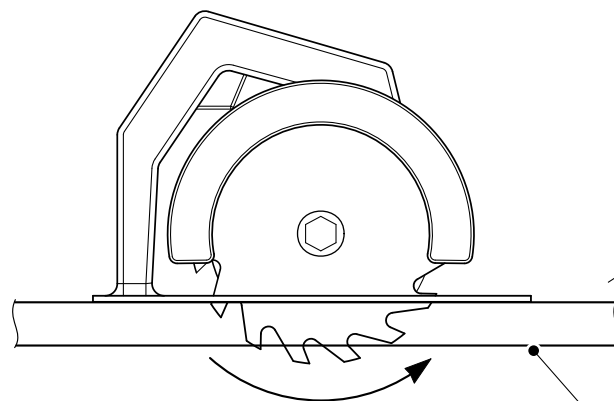
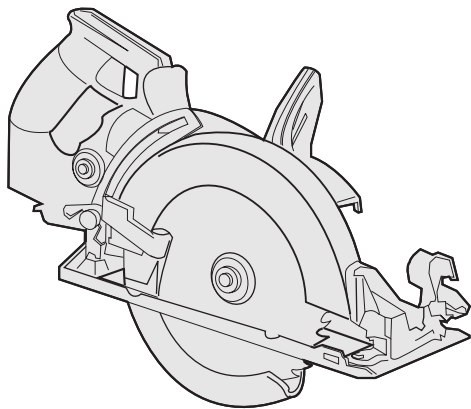
**4.** Remove the skin brackets from the side which will be cut. It may also be required to remove the top and bottom brackets for saw clearance. These will be replaced after the cut is made.



## CUTTING SKINS FOR 90° CUT END (continued)

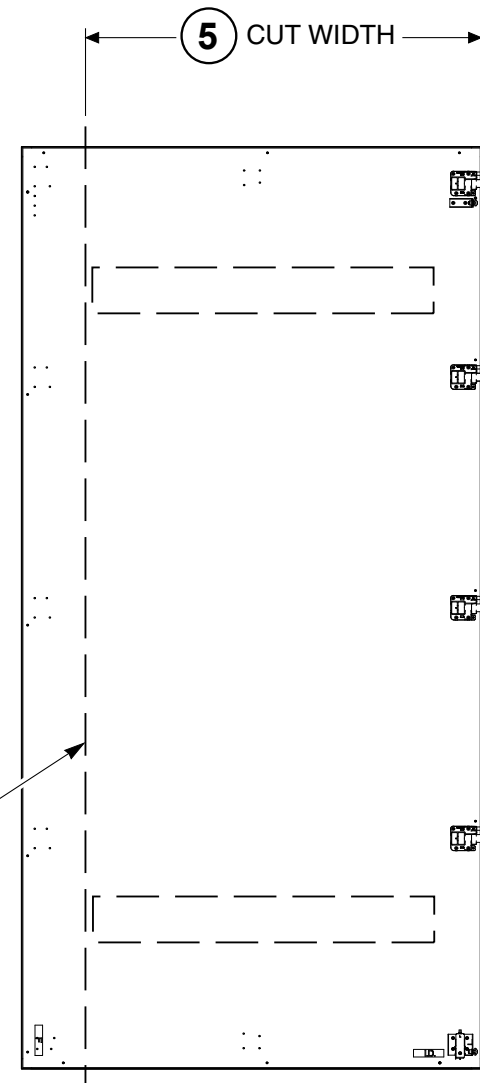
**5.** For best results use a circular saw with a metal cutting blade for solid steel or fabric skins and a wood cutting blade for veneer skins. Use the result from the formula in step 2 to mark the back side of the skin to cut. Cut the skin and file any sharp burrs the saw may have left behind with a file.

**6.** Replace the top and bottom brackets if they were previously removed.



SAW ROTATION

FRONT SIDE OF SKIN  
*Be careful to not damage surface.*



## INSTALLING SKIN FOR 90° CUT END

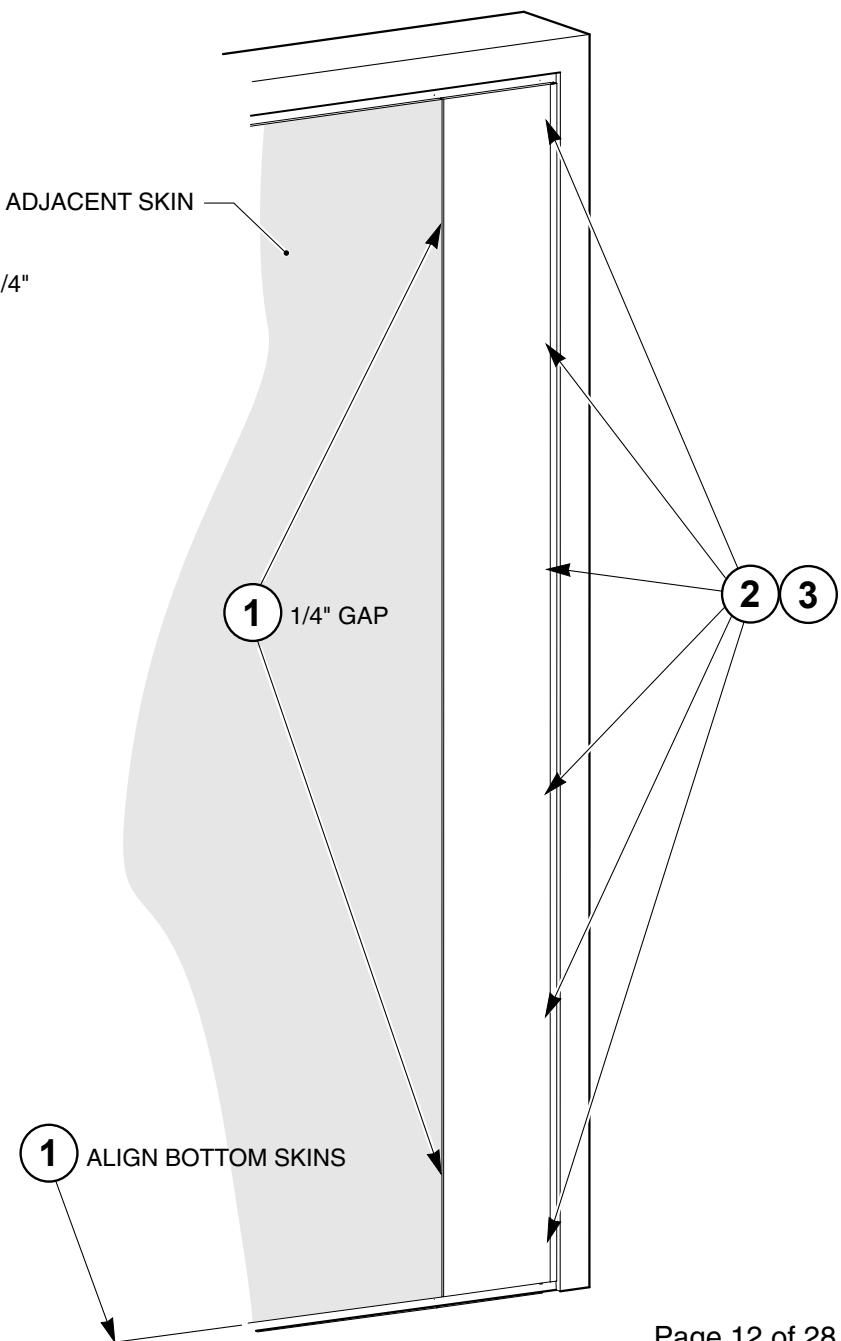
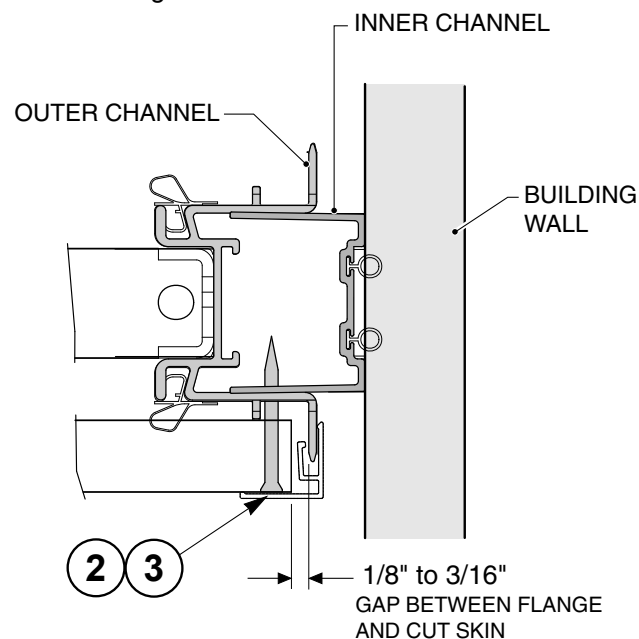
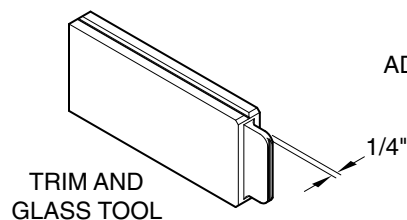
**1.** Install cut skin onto frame structure and adjust the spacing of the gap to the adjacent skin using 1/4" spacing blocks. Align the bottom of the cut skin to the adjacent skin. If there isn't room to replace the bottom center bracket, then use blocks to shim the skin to align.

**TIP: Use 'Trim and Glass Tool' to adjust spacing.**

**2.** Use a 1/8" drill bit and driver to make (6) pilot holes in the cut skin in area shown. **Stay as close to the edge of the cut edge as possible** so that the screws will be hidden after trim is installed.

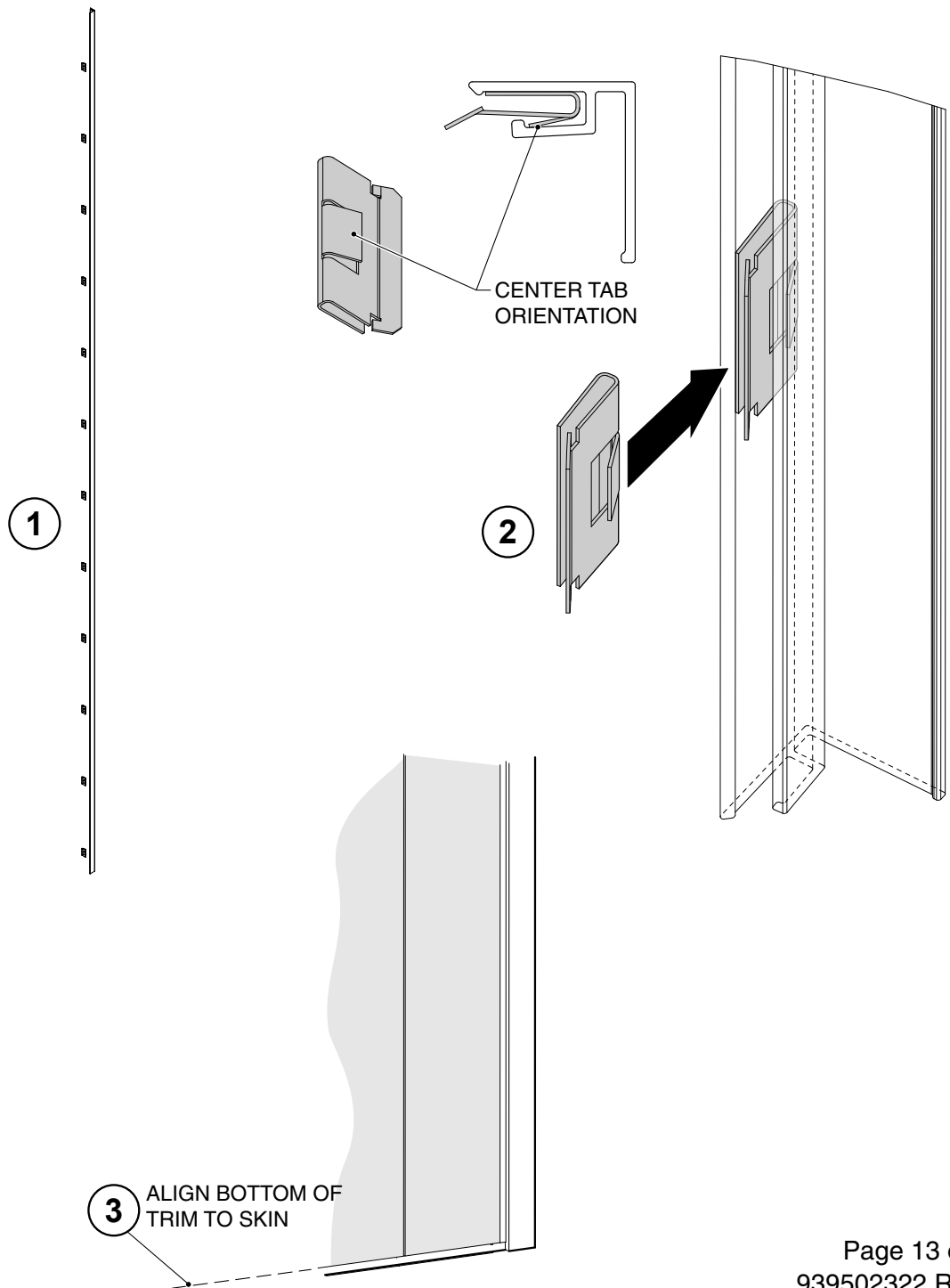
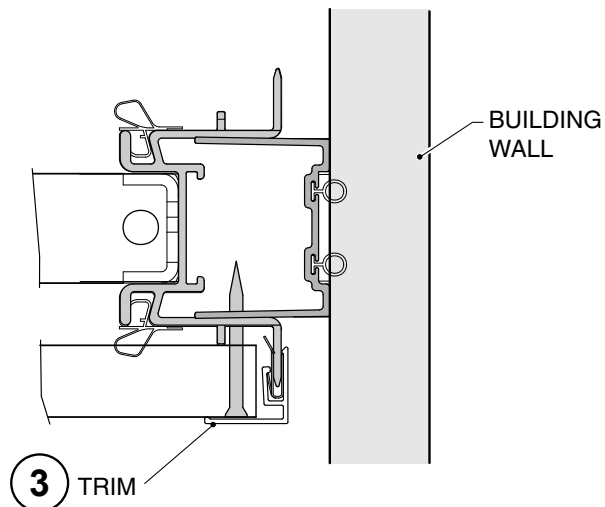
**3.** Use self drilling trim head screws to secure cut side to outer channel. **Drive the screws flush to the skin surface, but don't overtighten.**

**4.** Repeat process of cutting skin and installing skin on opposite side.



## INSTALLING TRIM

1. Use the IRID and layout drawings to determine correct trim for this application.
2. Assembly clips to trim 3" from each end and is spaced 12" apart. Make sure that center tab is orientated as shown.
3. Align the bottom of the trim to the bottom of the skin and press the trim into place applying pressure near the clips until trim is seated flush to the surface of the skin.
4. Repeat the process on the other side.



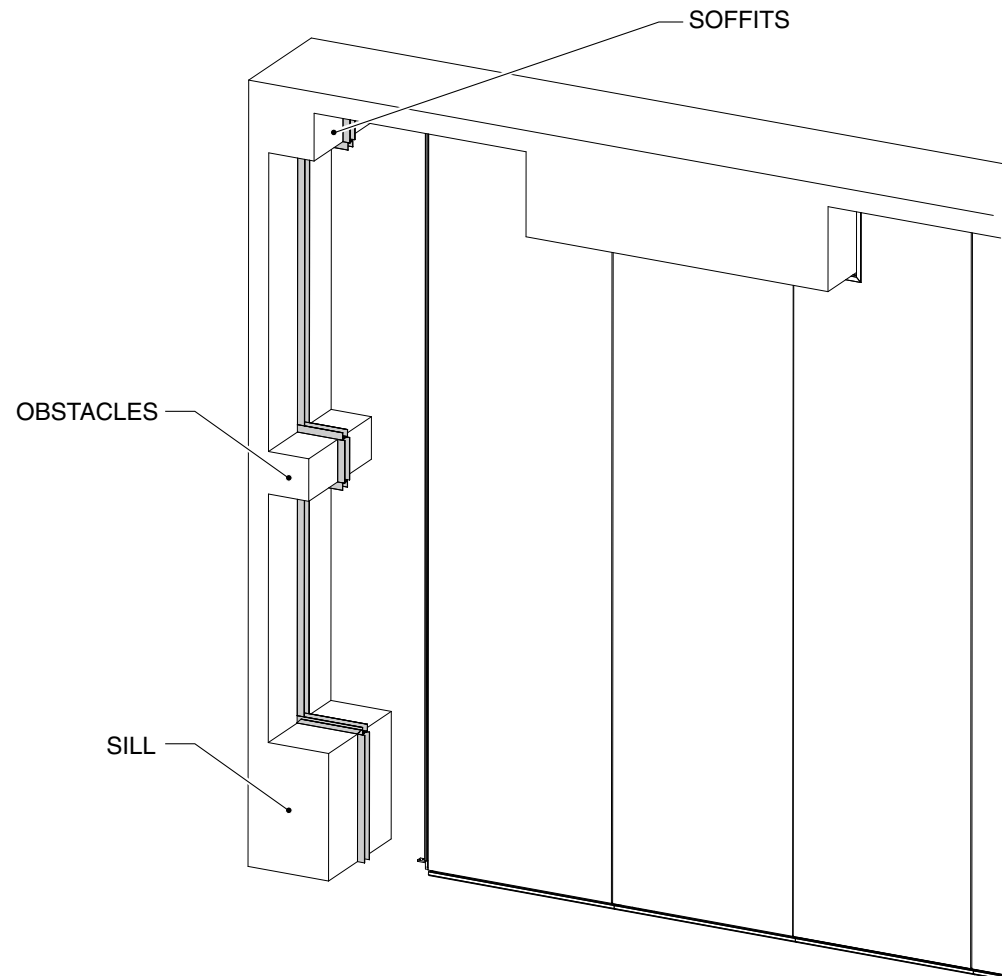
## TYPICAL CUTS ON END CONDITIONS - INNER CHANNEL

**NOTE:** Showing examples only. Refer to site layouts and actual conditions for measurements.

**1.** Install the V.I.A. product up to the cut end condition. Plumb, square and level product before installing cut end components. make sure leveler screw is installed per detail on page 4.

**2.** Measure, cut and install inner channel. Reference pages 5 & 6.

**NOTE:** By design, the cuttable end components are intended to allow for building variation. Installing the outer channel so that they are plumb and square allows for simple cuts to channels and skins which creates the proper aesthetics for the V.I.A. product. The building variation is allowed for in the gap between the V.I.A. trim and building wall.



## TYPICAL CUTS ON END CONDITIONS - OUTER CHANNEL AT SILL

**1.** Measure from the top of the leveler bracket of the assembled vertical post to the top of the sill as shown.

**TIP:** Use a laser or lever to project a level line.

**2.** Attach leveler bracket to the bottom of the outside channel with (2) M6-1 screws as shown.

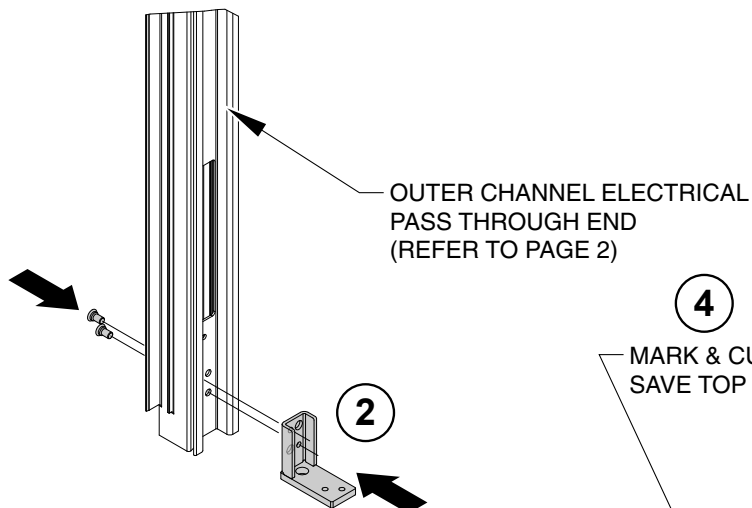
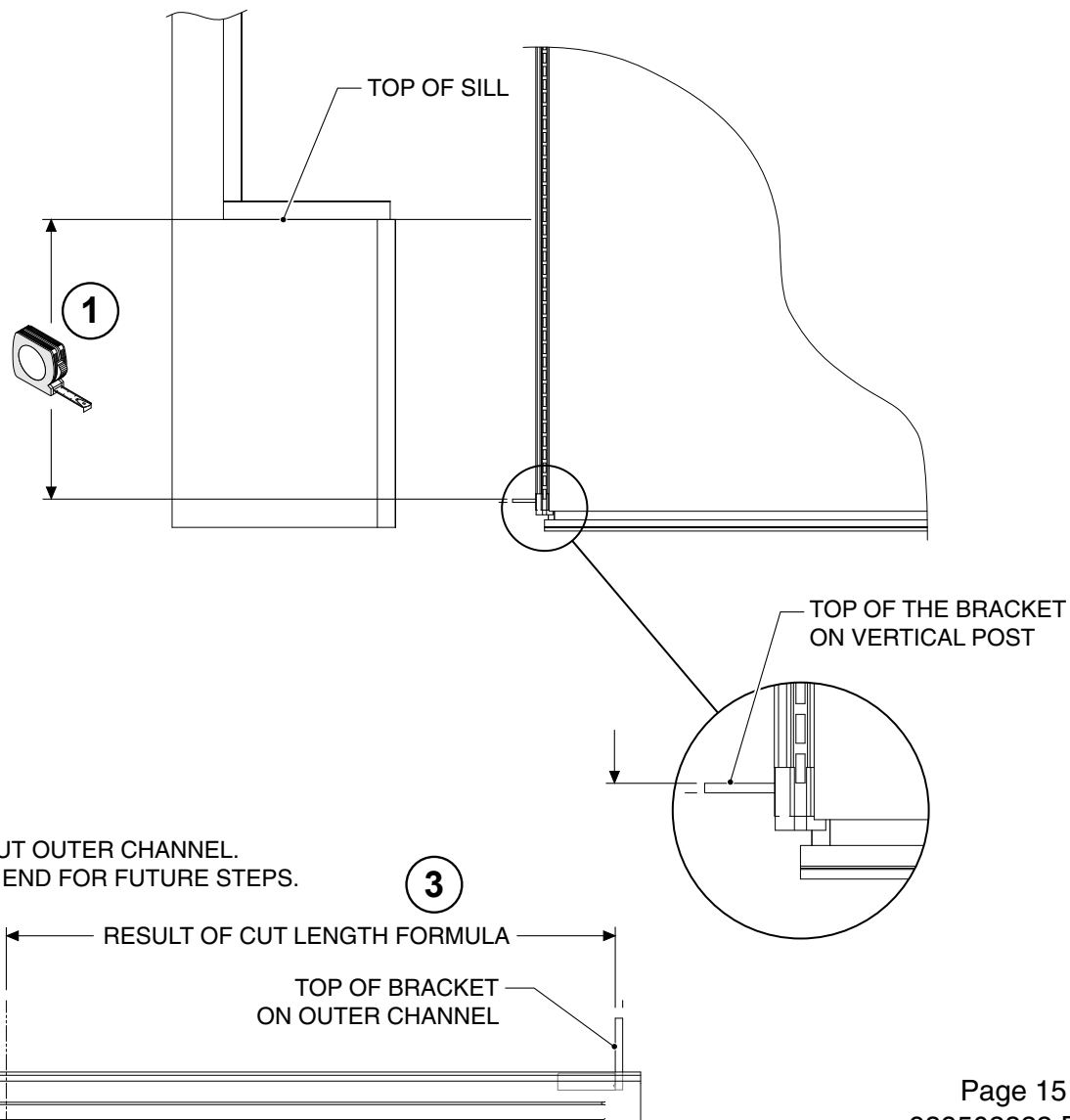
**3.** Cut the outer channel to cut length result of formula:

**Measurement + desired gap - 1/4"**

**(Example: 21-7/16" + 1/2" - 1/4" = 21-11/16")**

**4.** Save the top end for future steps.

**5.** Install the leveler screw to bracket.



## TYPICAL CUTS ON END CONDITIONS - STRUCTURAL HORIZONTAL AT SILL

**1.** Measure from side of building sill to edge of adjacent vertical post. Cut one structural horizontal and the floor track to the cut length result of formula:

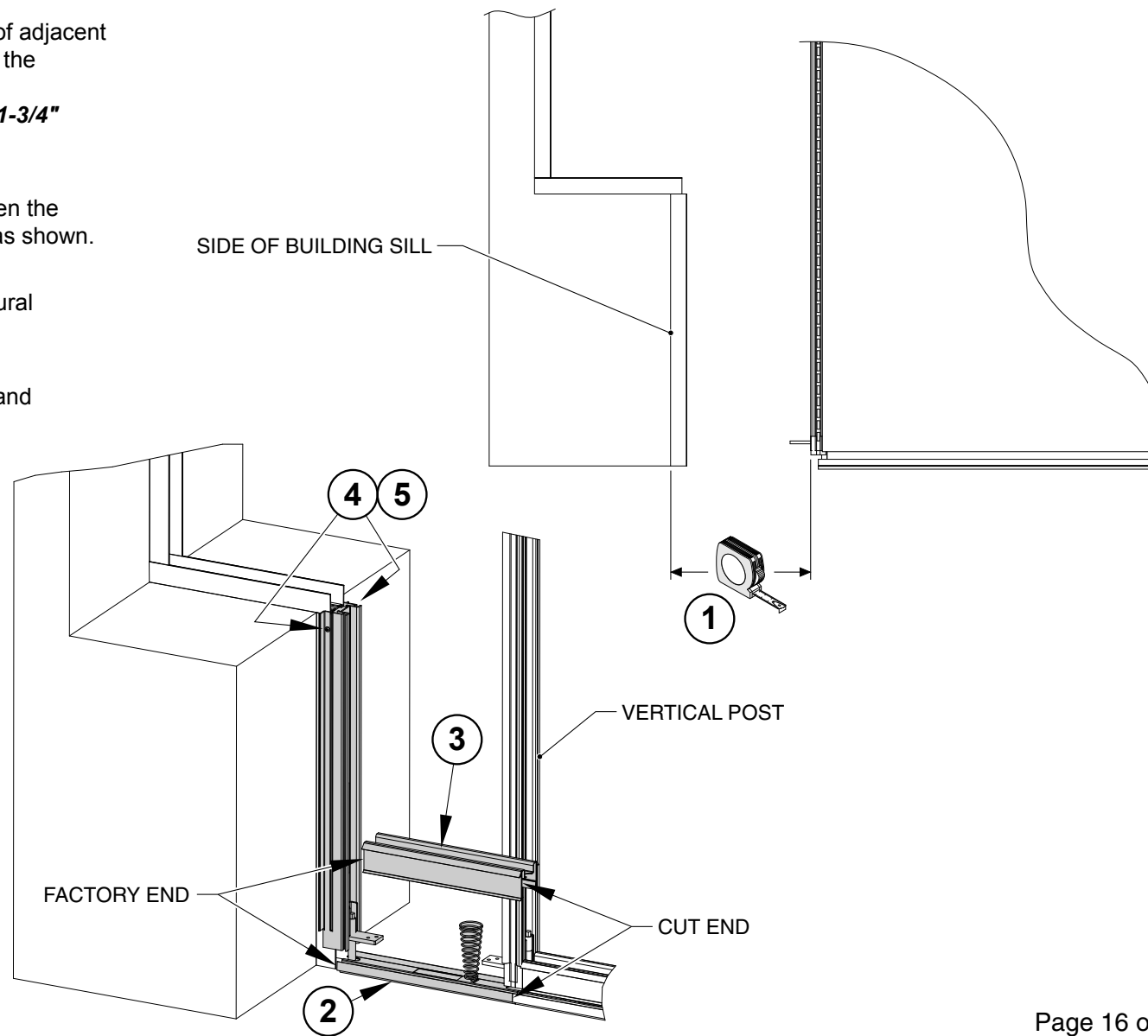
***Cut Length = Measurement - desired gap - 1-3/4"***  
***(Example: 16" - 1/2" - 1-3/4" = 13-3/4")***

**2.** Place the cut floor track & spring(s) between the vertical post and the outer channel assembly as shown.

**3.** Using screw FEPF01, install the cut structural horizontal at the floor as shown.

**4.** Level and plumb outer channel assembly and structural horizontals.

**5.** Use self tapping screws to secure outer channel assembly to inner channel as shown.





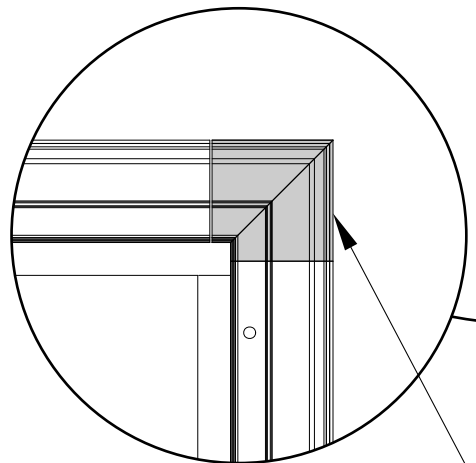
## OUTER CHANNEL - TYPICAL MEASUREMENTS AND FORMULAS

*This page is used to determine the length of outer channel sections in typical conditions.*

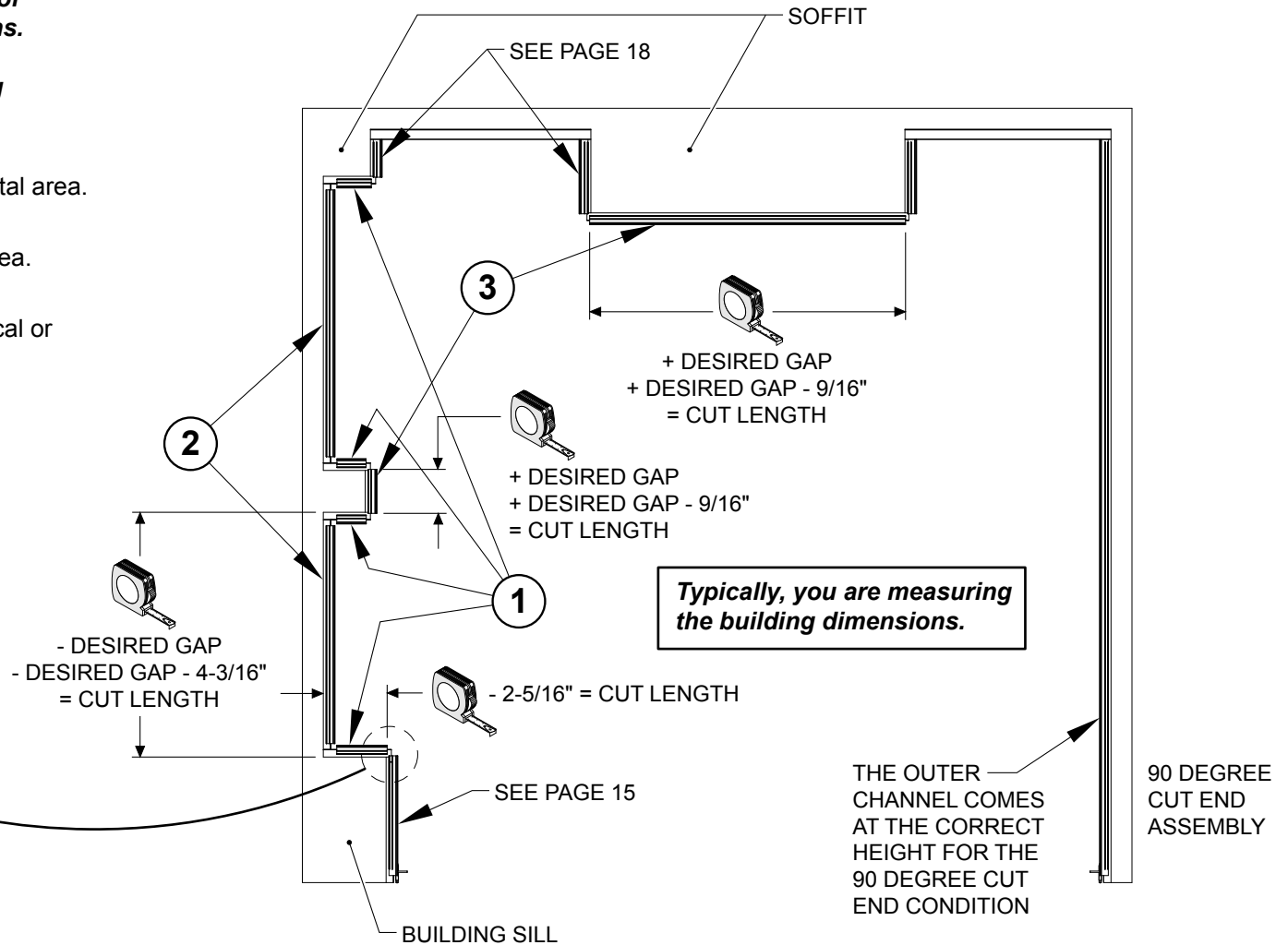
*The measurements shown are the building dimensions.*

1. Indicates an INSIDE to OUTSIDE horizontal area.
2. Indicates an INSIDE to INSIDE vertical area.
3. Indicates an OUTSIDE to OUTSIDE vertical or horizontal area.

*See page 15 for floor condition.*  
*See page 18 for ceiling condition.*



THE OUTER CHANNELS ARE CONNECTED WITH CUT END ELBOWS (NOT SHOWN IN THE MAIN VIEW). YOU MAY NEED TO SEQUENCE THE CONSTRUCTION OF PARTS TO ASSEMBLE INTO CORNERS.



## TYPICAL CUTS ON END CONDITIONS - OUTER CHANNEL AT CEILING

**1.** Measure from the top of the leveler bracket of the assembled vertical post to the top of the sill as shown.

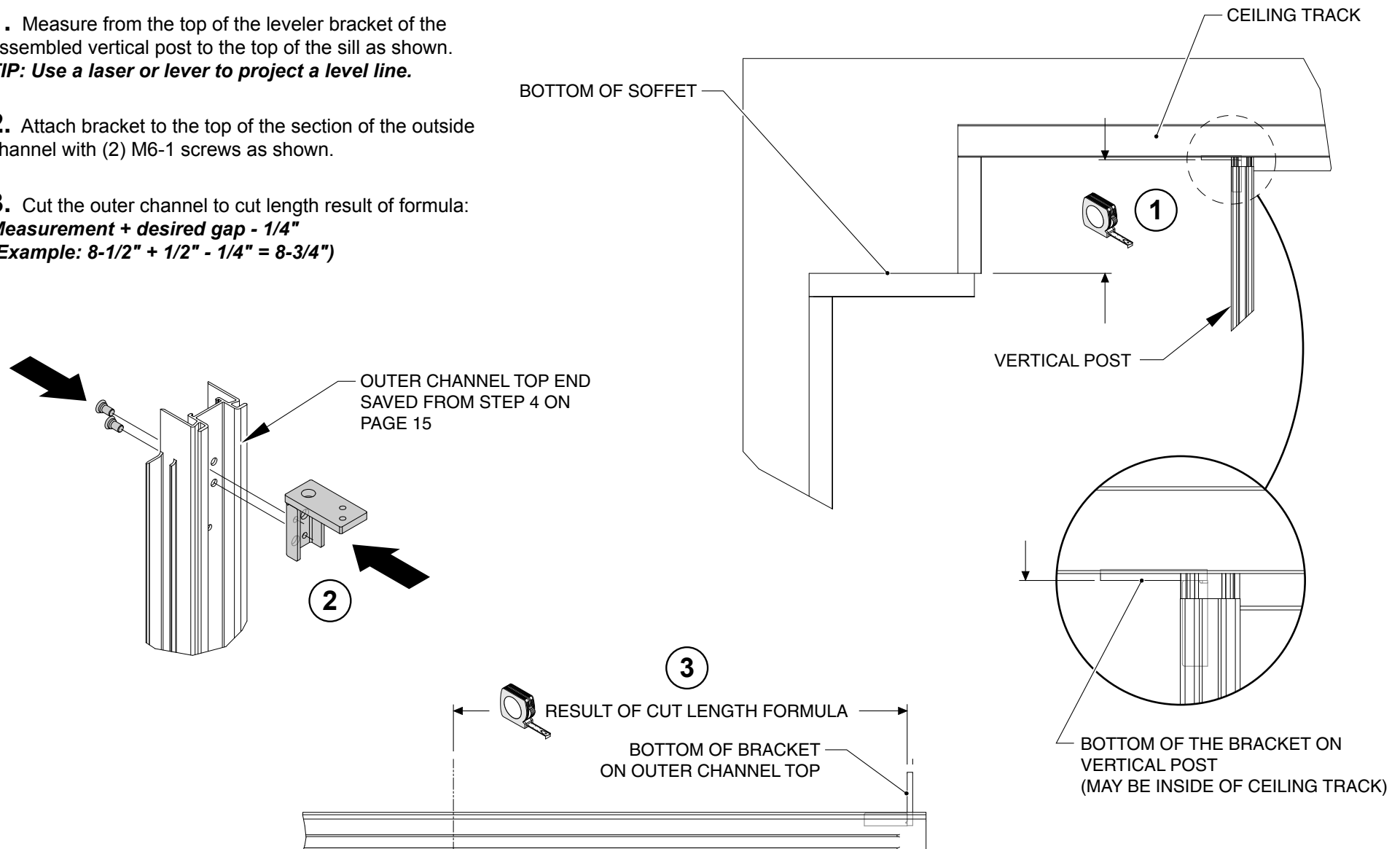
**TIP:** Use a laser or lever to project a level line.

**2.** Attach bracket to the top of the section of the outside channel with (2) M6-1 screws as shown.

**3.** Cut the outer channel to cut length result of formula:

**Measurement + desired gap - 1/4"**

**(Example:  $8\text{-}1/2" + 1/2" - 1/4" = 8\text{-}3/4"$ )**

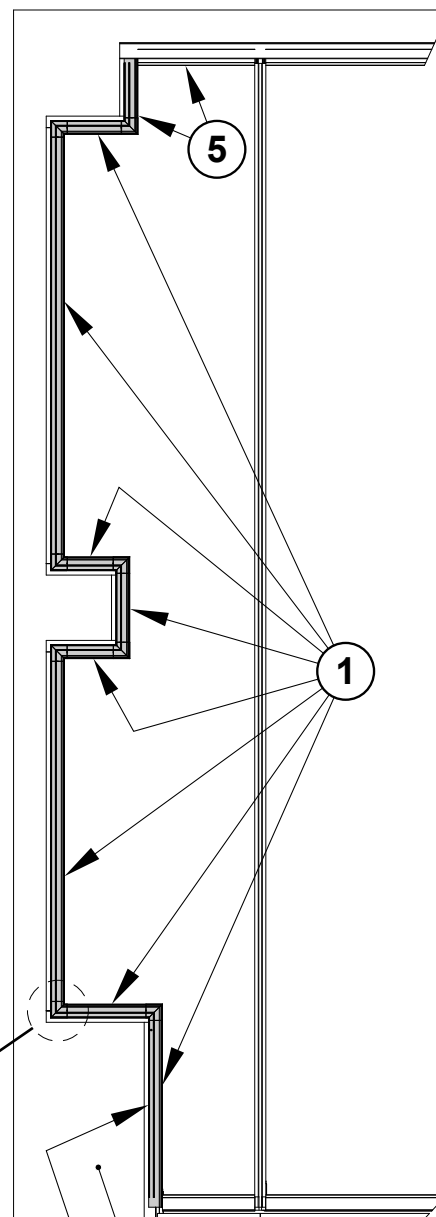
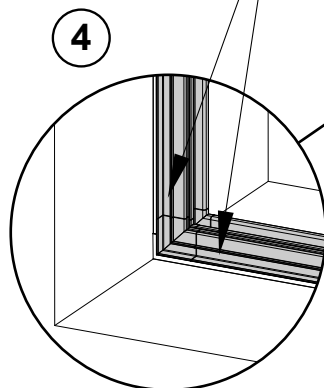
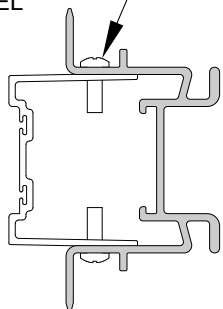


## ASSEMBLING OUTER CHANNEL

1. Determine the cut lengths of each section needed for your particular application and cut outer channels for each length.
2. Use inside and outside elbows as needed to construct outer channel perimeter over the inner channel. Assemble loosely.
3. Verify that the bottom structural horizontal and attached outer channel are level and plumb.
4. Starting from the bottom and working up, level and plumb outer channels and secure with self-drilling screws as shown on each side of outer channel.
5. Install and level the structural horizontal and plumb the outside channel at the top. Use screw FEPP01 to attach the structural horizontal and secure the outside channel with self-drilling screws on each side of the channel.

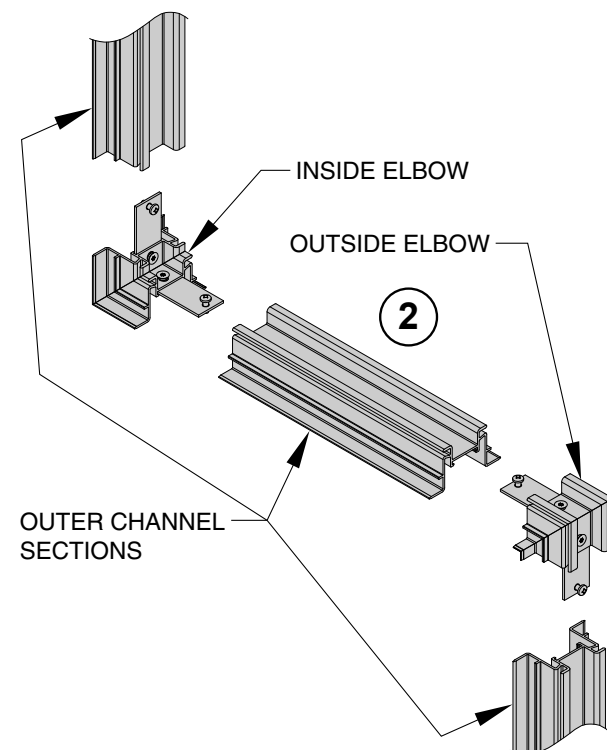
**NOTE: As you level and plumb, secure outer channels to the inner channels near each elbow on both sides with self-drilling screws.**

PLACE SCREWS BETWEEN THE TWO FLANGES OF THE OUTER CHANNEL



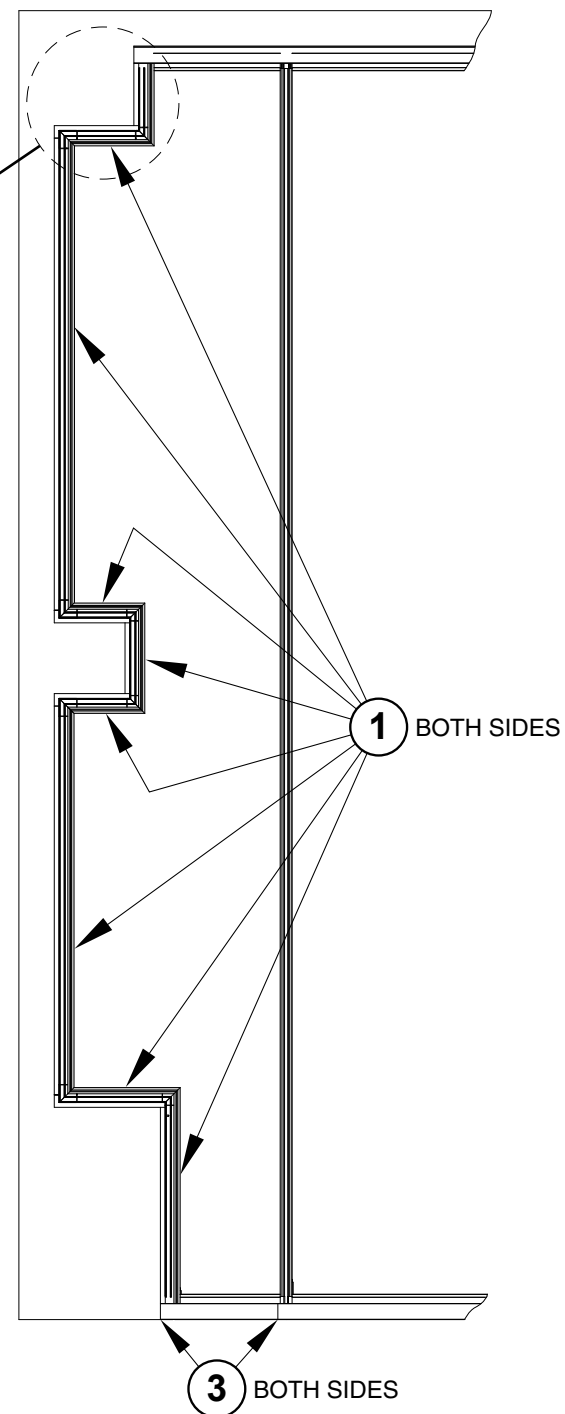
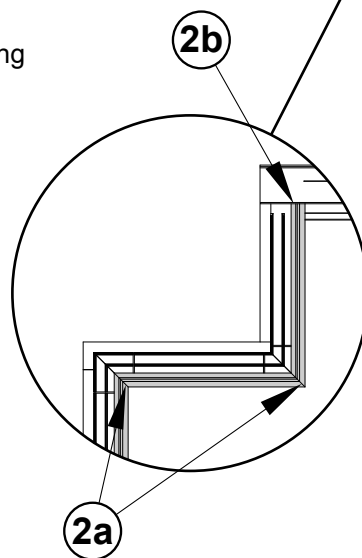
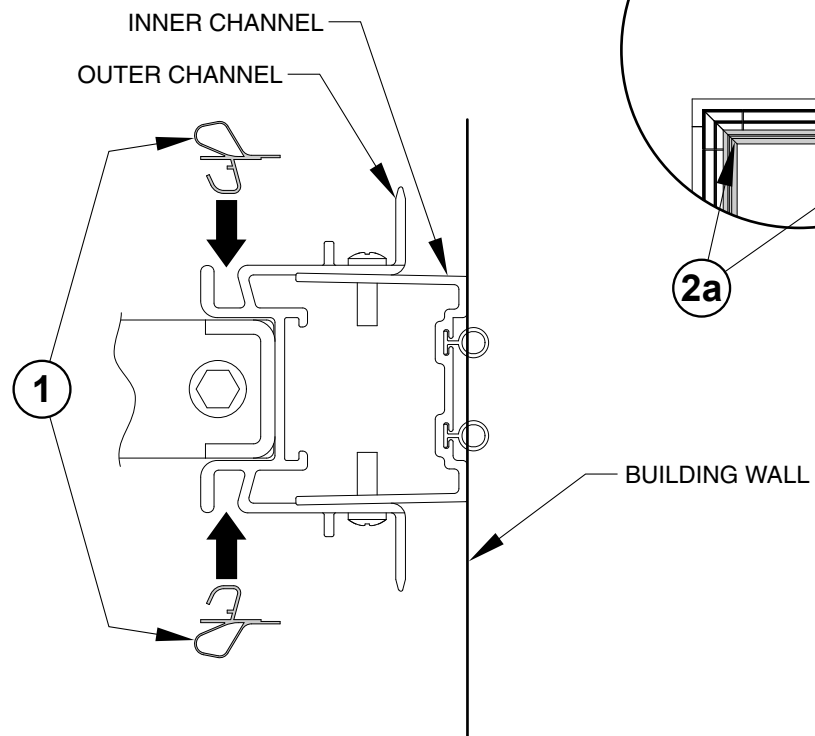
BUILDING SILL

SEE PAGE 15



## INSTALLING SEALS AND BASE TRIM

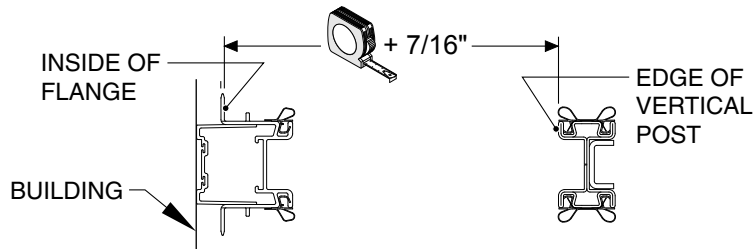
- 1.** Cut the seal lengthwise in half and apply halves to both sides of the outer channel from ceiling track to floor.
- 2.** Cut the seals to form miters in each corner (2a). Butt the seal into the ceiling track (2b).
- 3.** Finish installing base trim. Butt trim to the building wall and flush to adjacent trim.



## CUTTING SKINS FOR TYPICAL CONDITION

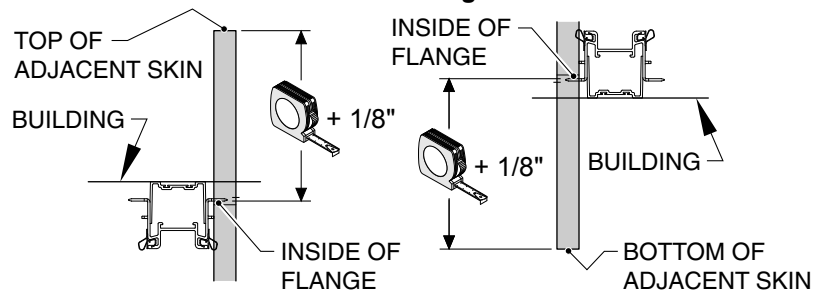
1. When measuring horizontal cut dimension, use this formula to determine the cut skin width:

**Measurement + 7/16" = Cut Skin Width**



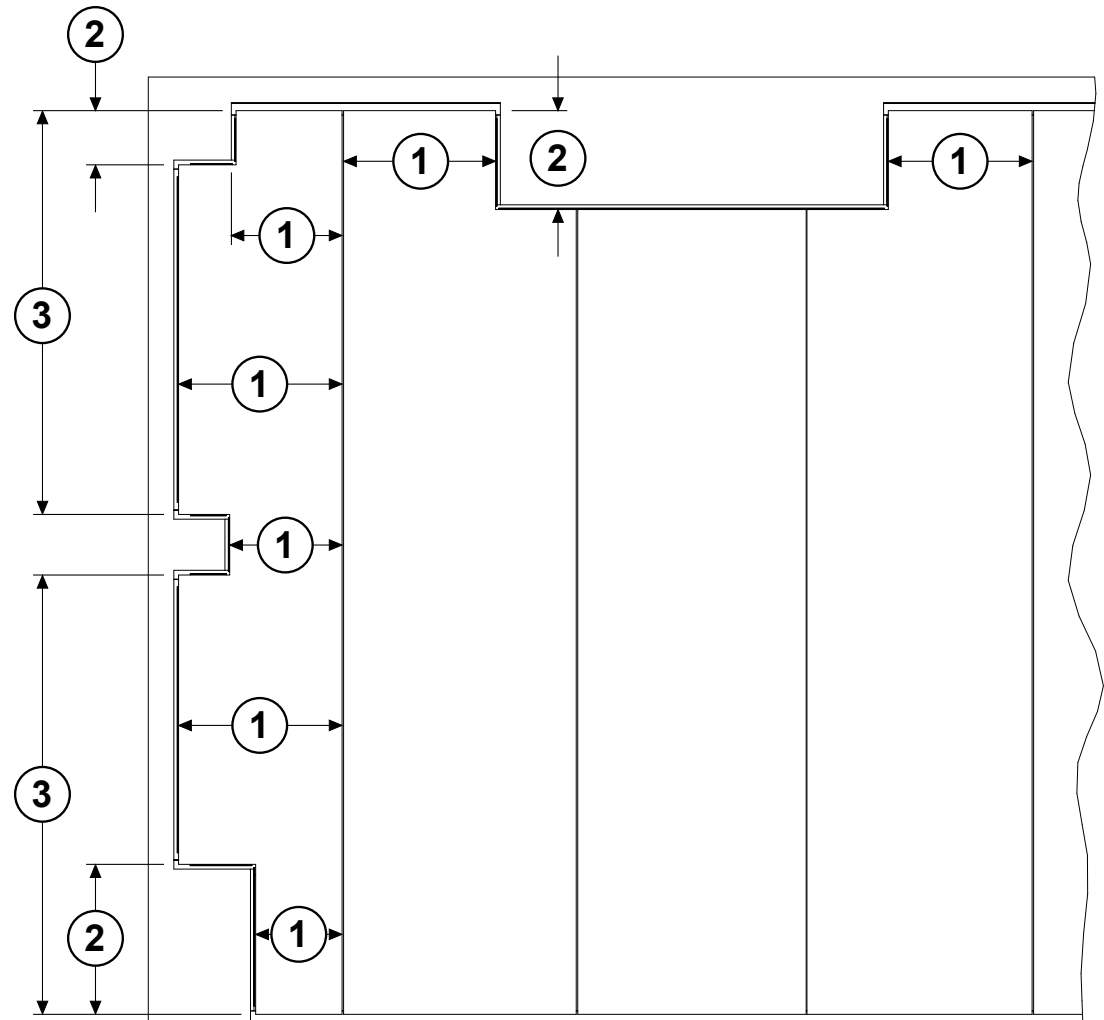
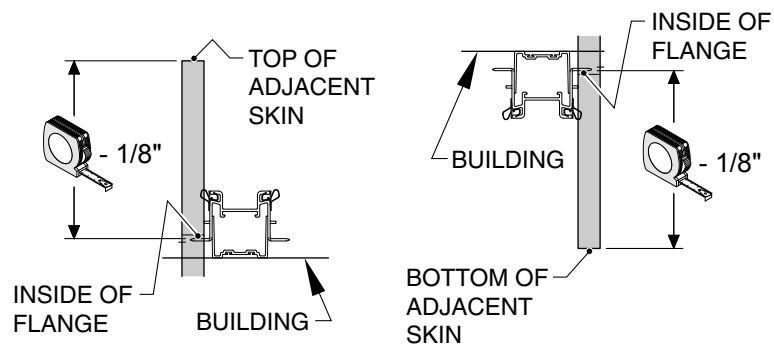
2. When measuring vertical cut dimension at top or bottom, use this formula to determine the cut skin height:

**Measurement + 1/8" = Cut Skin Height**



3. When measuring vertical cut dimension in the middle of the skin, use this formula to determine the cut skin height:

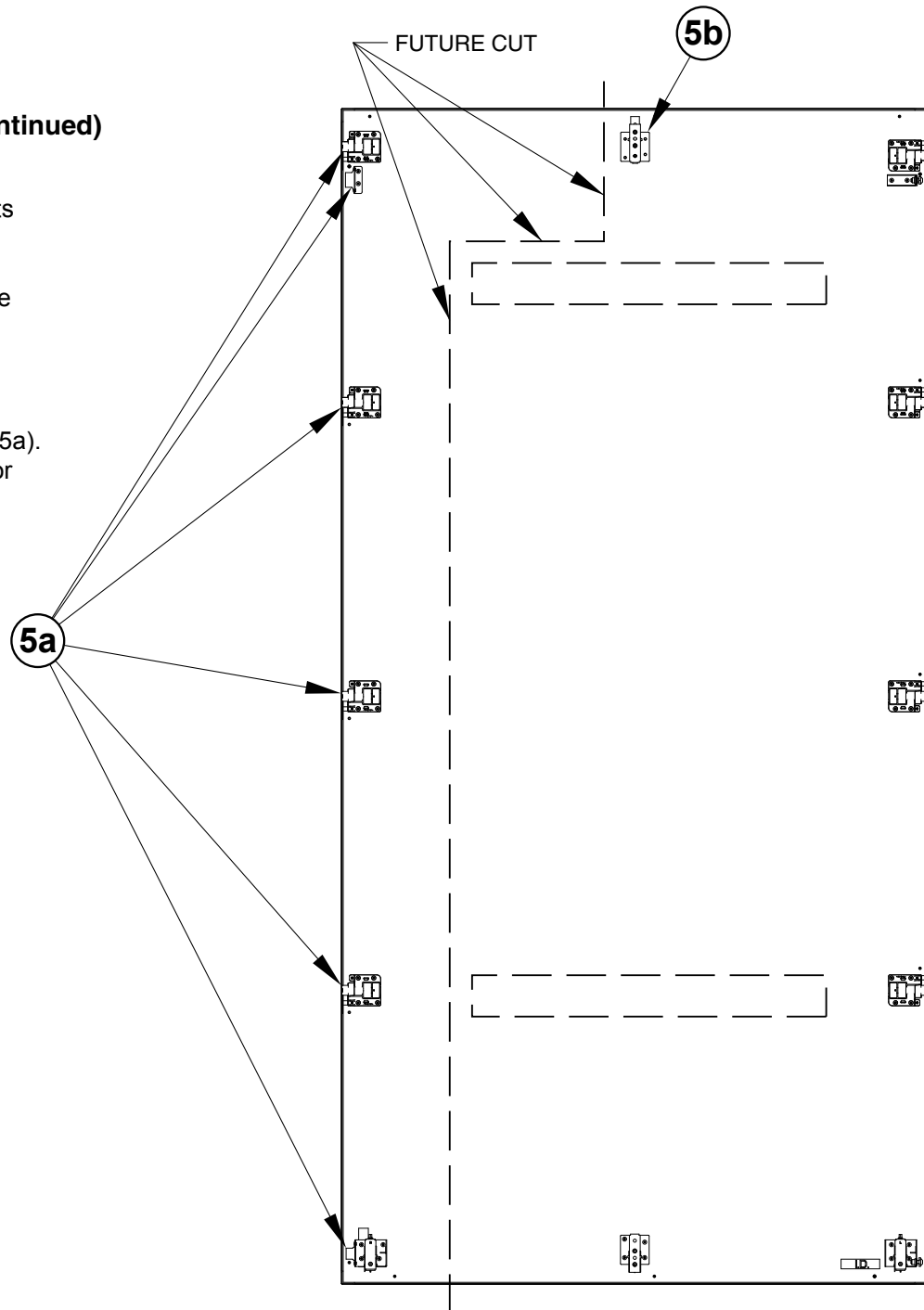
**Measurement - 1/8" = Cut Skin Height**



## CUTTING SKINS FOR TYPICAL CONDITIONS (continued)

**4.** After you have gathered all the required measurements for cuts needed to make to skin. Use the IRID and layout drawings to determine the correct skin for each side of application. Determine the orientation of the skin and place it face down on sawhorses or a makeshift bench making sure to protect the surface of the skin from damage.

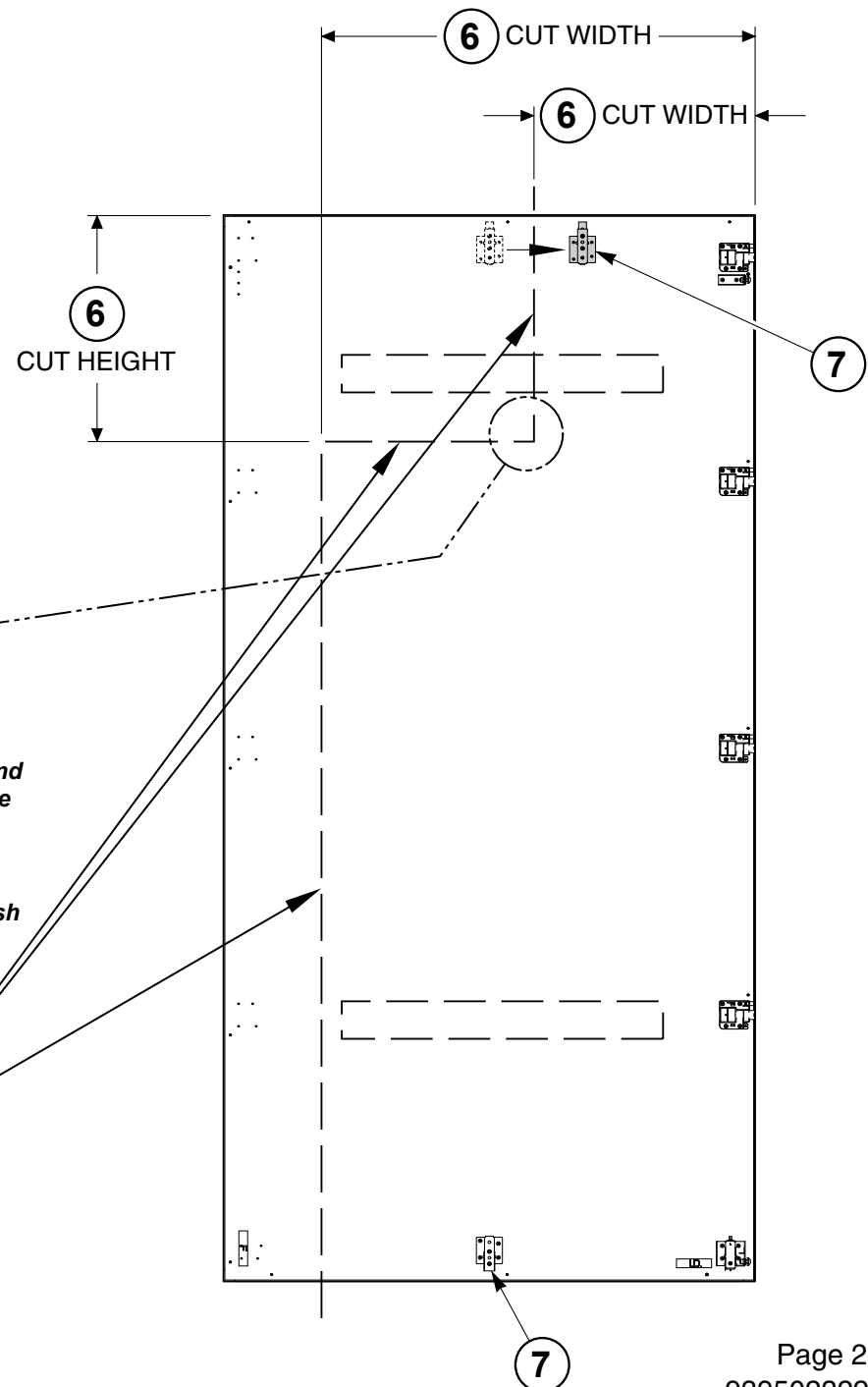
**5.** Remove brackets which will be displaced by skin cut (5a). It may be required to temporarily remove other brackets for saw clearance to be replaced after cut is made (5b).



## CUTTING SKINS FOR TYPICAL CONDITIONS (continued)

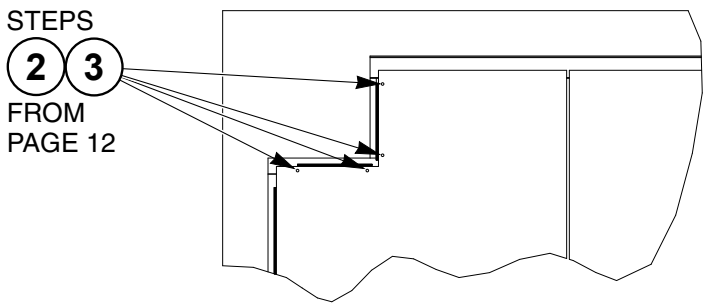
**6.** For best results use a circular saw with a metal cutting blade for solid steel or fabric skins and a wood cutting blade for veneer skins. Use the results from the formulas in steps 1, 2 & 3 to mark the back side of the skin to cut. Cut the skin and file any sharp burrs the saw may have left behind with a file.

**7.** Replace the top and bottom brackets if they were previously removed. If the top and bottom bracket locations were inside the cut area, they can be relocated. Refer to solid skin assembly direction 939502320 for instructions on how to relocate skin brackets.

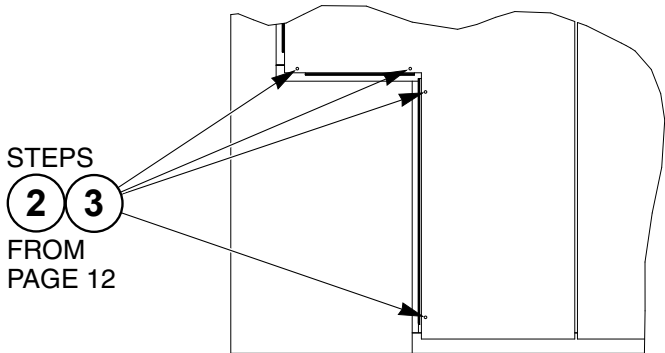
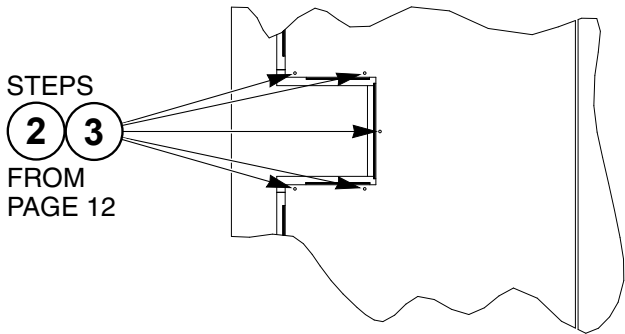


CUTTING SKINS FOR TYPICAL CONDITIONS (continued)

8. Refer to page 12, steps 1 through 4 with the following additions:



TYPICAL CONDITIONS

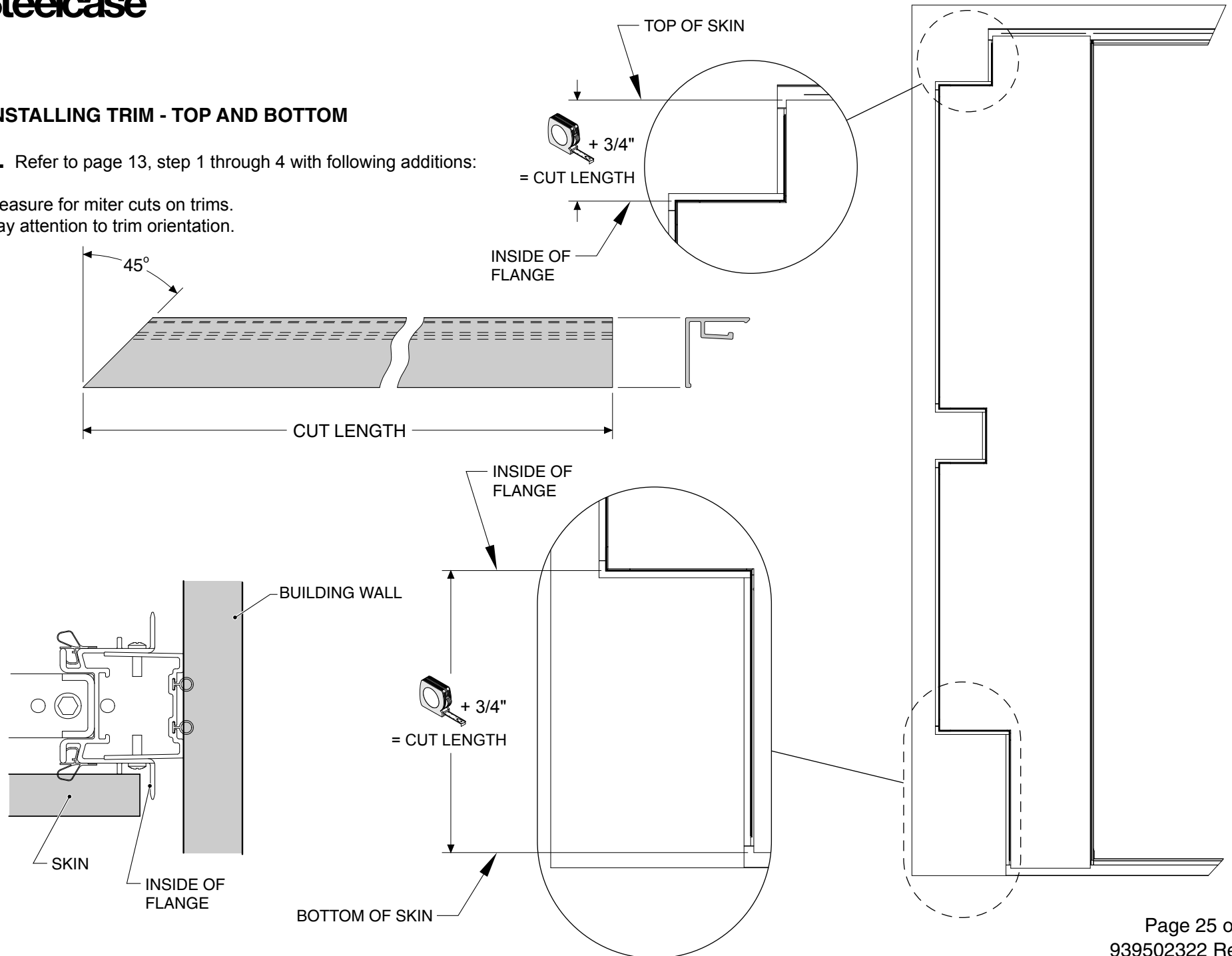




## INSTALLING TRIM - TOP AND BOTTOM

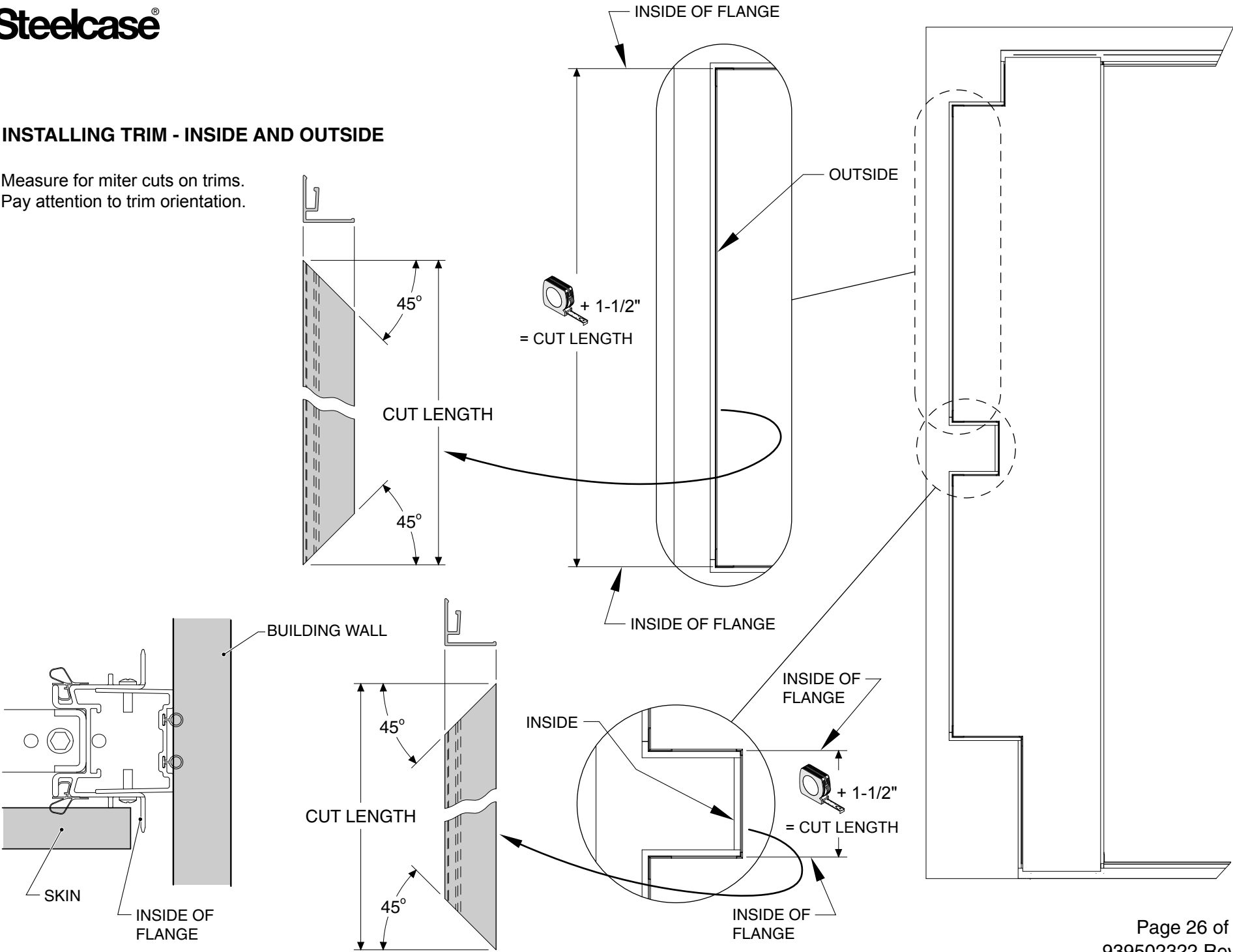
**1.** Refer to page 13, step 1 through 4 with following additions:

Measure for miter cuts on trims.  
Pay attention to trim orientation.



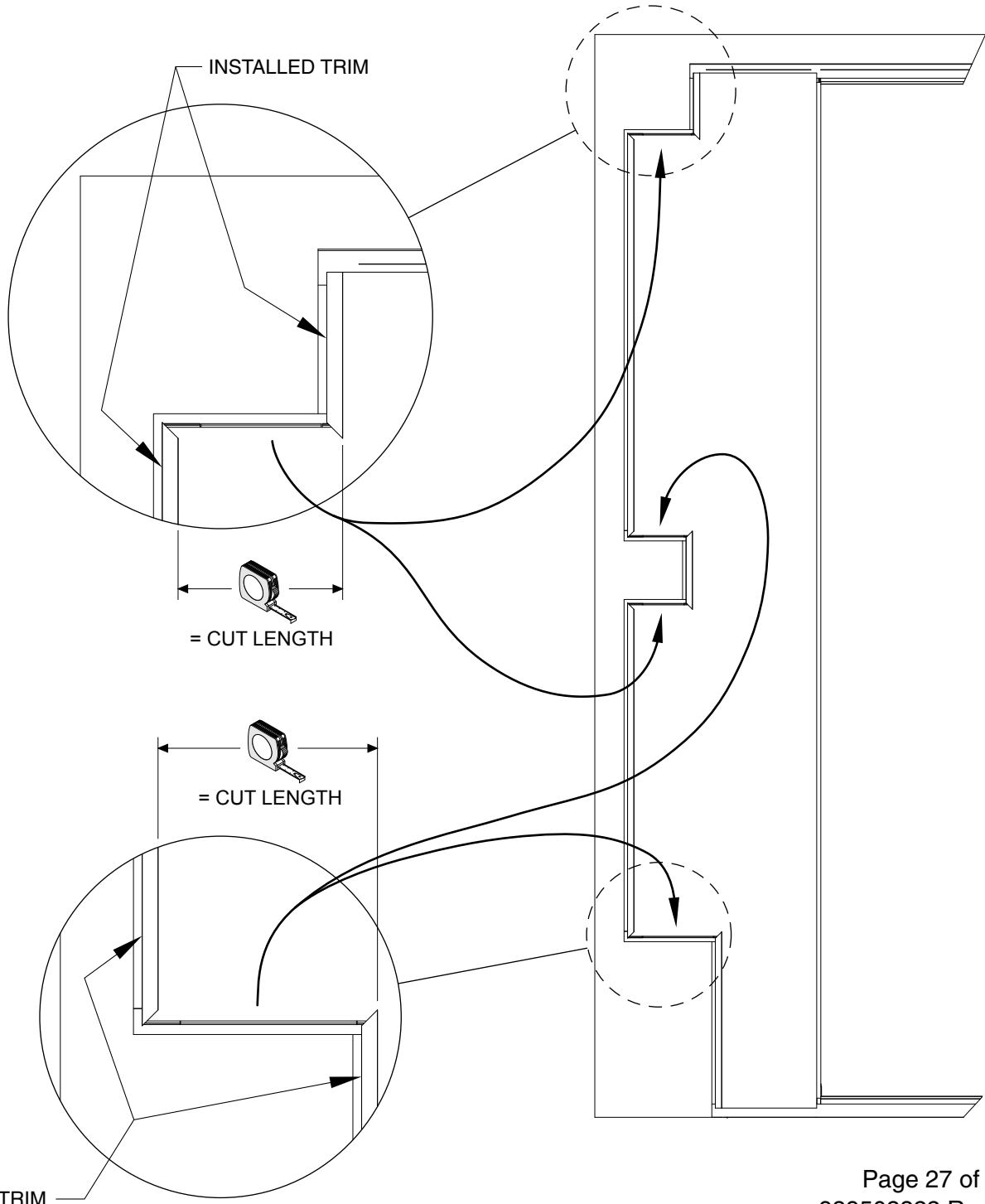
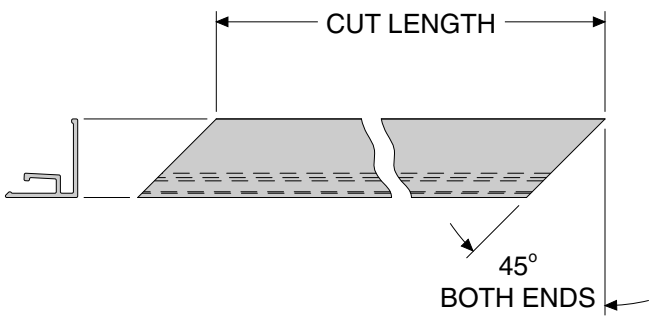
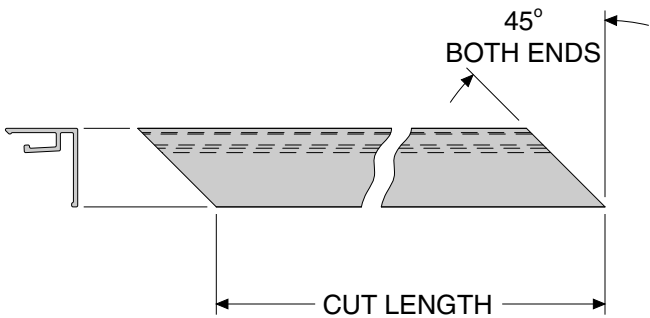
INSTALLING TRIM - INSIDE AND OUTSIDE

Measure for miter cuts on trims.  
Pay attention to trim orientation.



INSTALLING TRIM - THE POCKET

Measure for miter cuts on trims.  
Pay attention to trim orientation.



INSTALLING TRIM - THREE SIDED SOFFIT

Measure for miter cuts on trims.  
Pay attention to trim orientation.

