WINCO Window Company

Installation Instruction Manual

This is a Generic version with the most common trim configurations included. If the project is furnished with a Shop Drawing Packet prepared by WINCO, a project specific installation manual may also be issued in PDF format along with the 1st Shop Drawing Submittal. A project specific manual supersedes this generic manual.

Mullion Installation
Snap Trim Installation - Standard Orientation

Generic frame & trim extrusions shown, actual extrusions used may differ.

Vertical Mullion
Snap Trim installation:
WINCO furnishes the mullions for a snap-trim installation square cut and long. Measure the exact opening height where the mullion will be used and cut the mullion to size leaving just enough clearance to allow installation. See Fig. 1 & Fig. 2

Both ends of the mullion will require notching to clear the snap trim base. See Fig. 3
Should the openings have pan trim, the mullion cut length and the end work depends on the exact pan extrusions required - Refer to the WINCO shop drawings if they are purchased for your project.

Determine where the mullion anchor will sit on the mullion web and pre-drill ø5/16" clearance holes for the fastener tying the mullion to the mullion anchor. A pan head screw w/ nut & bolt (X-307 w/ nut washer) is used to secure the mullion anchor to the mullion web. If 2 mullion anchors are used per end, then a slightly longer screw X-308 is used. See Fig. 3

The mullion anchor (Clip Angle, WINCO ID = ANCH4) comes factory pre-drilled for ø1/4" fasteners. The flange for the mullion web connection has 3 holes to allow the installer flexibility which pair of holes to use. See Fig. 4 & Fig. 5

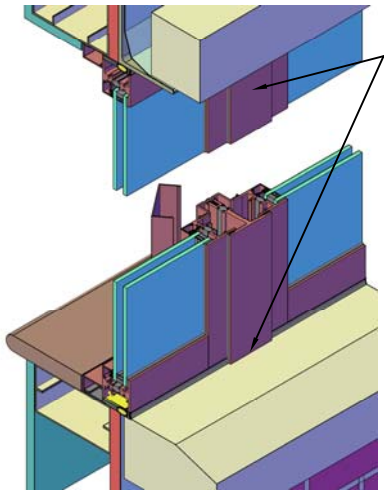


Fig. 1
Viewed from Building Exterior

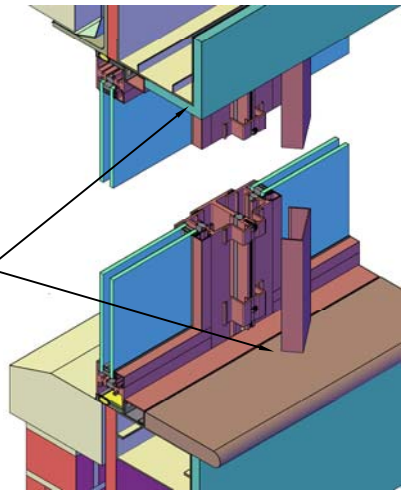


Fig. 2
Viewed from Building Interior

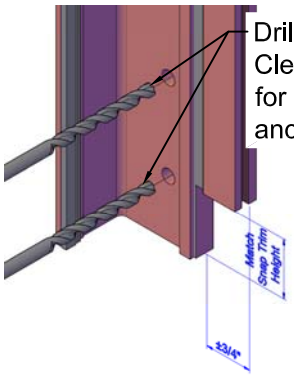


Fig. 3

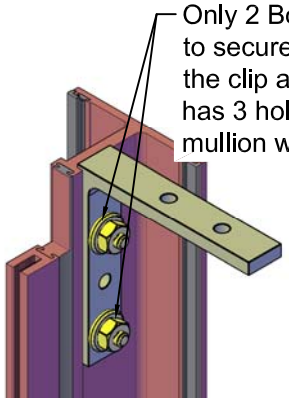


Fig. 4

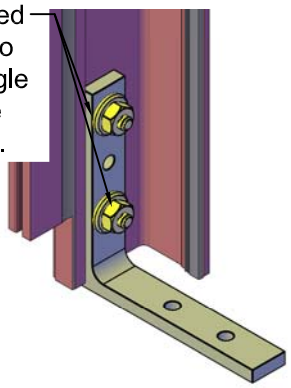


Fig. 5

Generic frame & trim extrusions shown, actual extrusions used may differ.

Determine if the fastener used will require pre-drilling of the wall substrate. Pre-Drill wall substrate as required. The fasteners used to secure the mullion to the wall substrate are project specific.
When the mullion is anchored into steel stud, pre-drilling may be omitted, depending on the anchor diameter and substrate thickness.
Set the mullion into final position and attach the mullion anchors. Make sure the mullion is set plumb. See Fig. 6

Secure the mullion to ANCH4 and ANCH4 to the wall substrate. Seal the head of the masonry fasteners at the sill. See Fig. 7

In a typical installation, each mullion anchor will require 2 fasteners to the substrate. The exact type, size, embedment, etc is project specific and must be determined based on the architectural drawings or by a qualified professional engineer.

Apply a continuous bead of sealant along the entire length of the mullion adjacent to the 3-Finger Vinyl backer so the exterior mullion-window interface will be sealed. See Fig. 8

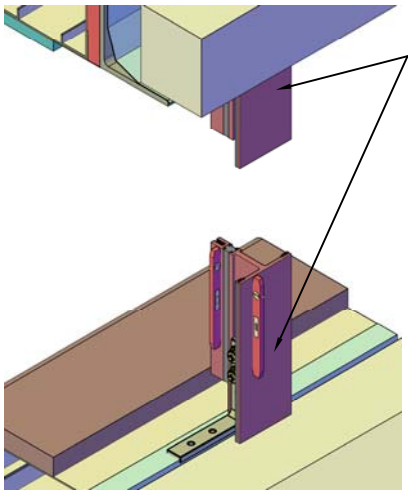


Fig. 6
Viewed from Building Exterior

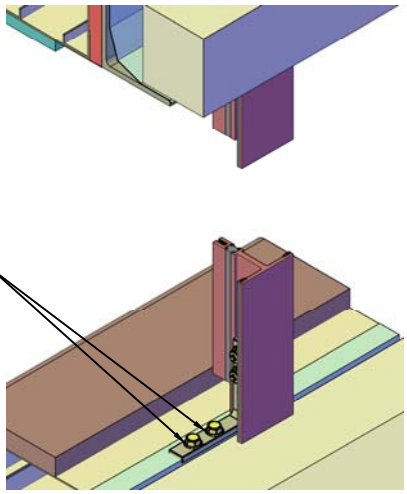


Fig. 7
Viewed from Building Exterior

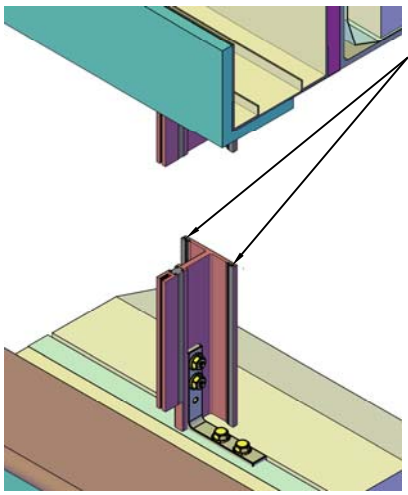


Fig. 8
Viewed from Building Interior

Generic frame & trim extrusions shown, actual extrusions used may differ.

Position the windows in the opening. Refer to the shop drawings for the spacing from window to window. If no shop drawings were purchased for your project, The spacing should be between 1-3/4" and 2". See Fig. 9

Apply the pressure clamps and secure them with the screws furnished by WINCO for this purpose. WINCO furnishes the pressure clamps and screws to be spaced at 16" O.C., no more than 8" from each end. See Fig. 10

Secure the windows with snap trim. Refer to the Snap Trim installation section of this manual for detailed instructions.

Measure the full height of the interior side of the opening and trim the snap on cover to final size. Use the palm of your hand to apply firm pressure to lock the cover into place. Do not use a hammer or other impact device as this may damage the finish and surface of the extrusion. See Fig. 11

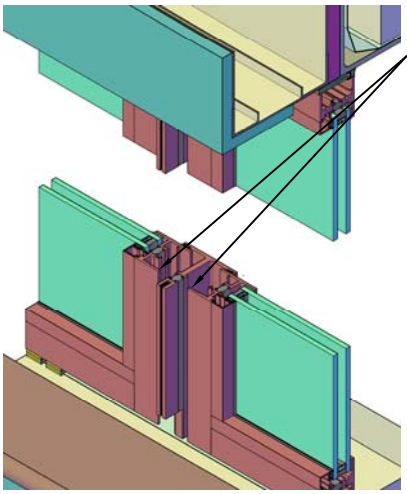


Fig. 9
Viewed from Building Interior

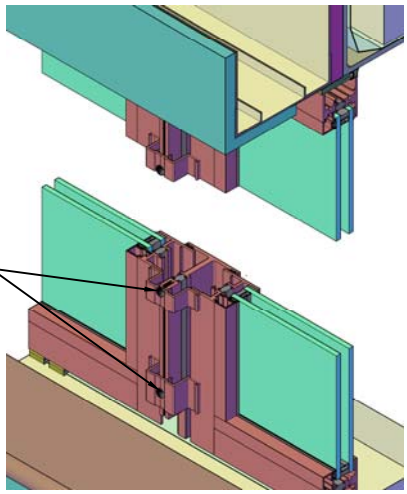


Fig. 10
Viewed from Building Interior

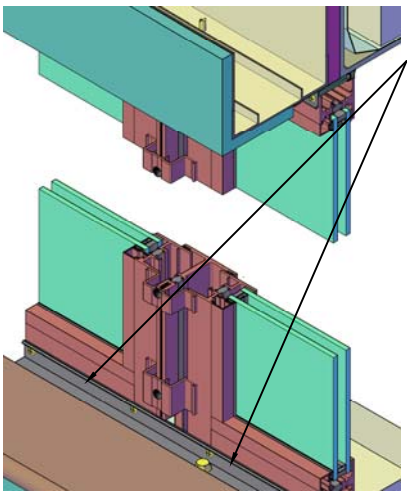


Fig. 11
Viewed from Building Interior

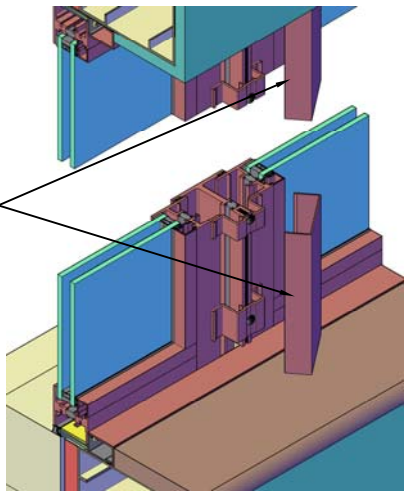


Fig. 12
Viewed from Building Interior

Mullion Installation
Snap Trim Installation - Reversed Orientation

Generic frame & trim extrusions shown, actual extrusions used may differ.

Vertical Mullion
Snap Trim installation:
WINCO furnishes the mullions for a snap-trim installation square cut and long. Measure the exact opening height where the mullion will be used and cut the mullion to size leaving just enough clearance to allow installation. See Fig. 1 & Fig. 2

Both ends of the mullion will be cut square. See Fig. 3
Should the openings have pan trim, the mullion cut length and the end work depends on the exact pan extrusions required - Refer to the WINCO shop drawings if they are purchased for your project.

Determine where the mullion anchor will sit on the mullion web and pre-drill ø5/16" clearance holes for the fastener tying the mullion to the mullion anchor. A pan head screw w/ nut & bolt (X-307 w/ nut washer) is used to secure the mullion anchor to the mullion web. If 2 mullion anchors are used per end, then a slightly longer screw X-308 is used. See Fig. 3

The mullion anchor (Clip Angle, WINCO ID = ANCH4) comes factory pre-drilled for ø1/4" fasteners. The flange for the mullion web connection has 3 holes to allow the installer flexibility which pair of holes to use. See Fig. 4 & Fig. 5

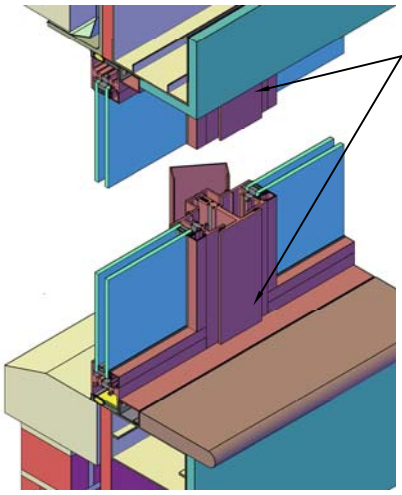


Fig. 1
Viewed from Building Exterior

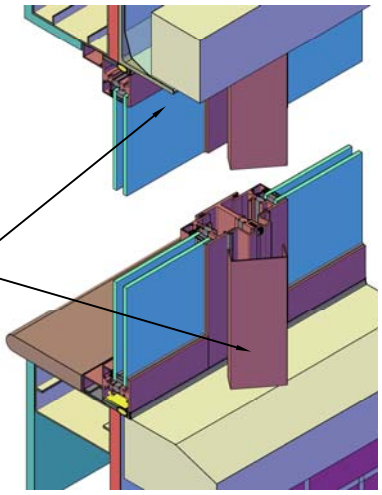


Fig. 2
Viewed from Building Interior

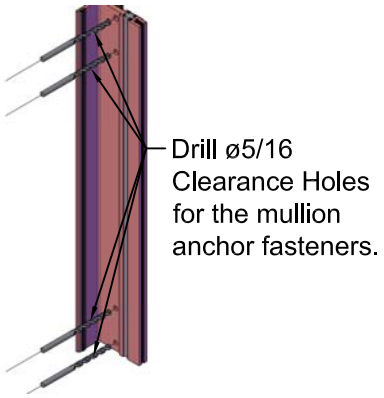


Fig. 3

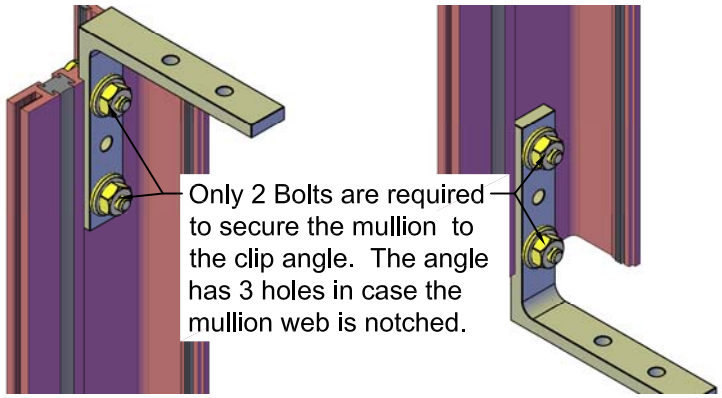


Fig. 4 Fig. 5

Generic frame & trim extrusions shown, actual extrusions used may differ.

Determine if the fastener used will require pre-drilling of the wall substrate. Pre-Drill wall substrate as required. The fasteners used to secure the mullion to the wall substrate are project specific.
When the mullion is anchored into steel stud, pre-drilling may be omitted, depending on the anchor diameter and substrate thickness.
Set the mullion into final position and attach the mullion anchors. Make sure the mullion is set plumb. See Fig. 6

Secure the mullion to ANCH4 and ANCH4 to the wall substrate. Seal the head of the masonry fasteners at the sill. See Fig. 7

In a typical installation, each mullion anchor will require 2 fasteners to the substrate. The exact type, size, embedment, etc is project specific and must be determined based on the architectural drawings or by a qualified professional engineer.

Apply a continuous bead of sealant along the entire length of the mullion adjacent to the 3-Finger Vinyl backer so the exterior mullion-window interface will be sealed. See Fig. 8

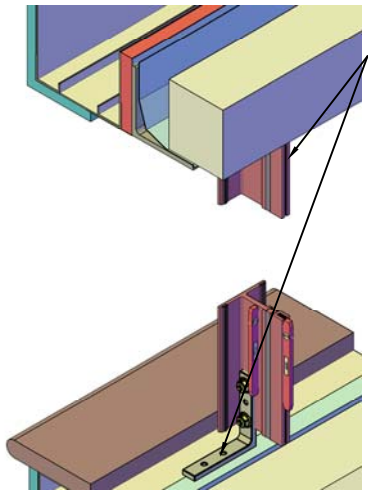


Fig. 6
Viewed from Building Exterior

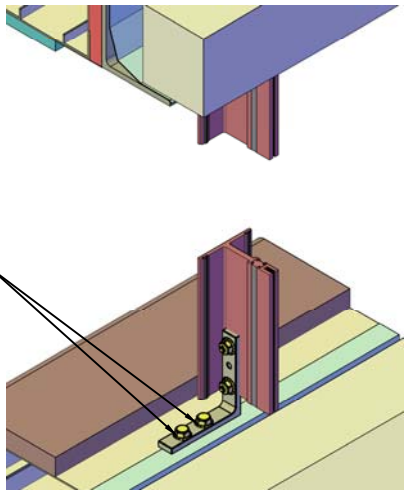


Fig. 7
Viewed from Building Exterior

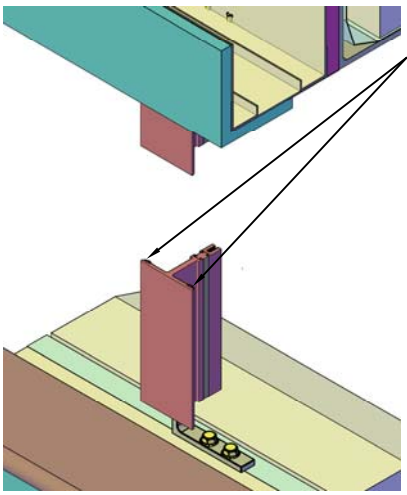


Fig. 8
Viewed from Building Interior

Generic frame & trim extrusions shown, actual extrusions used may differ.

Position the windows in the opening. Refer to the shop drawings for the spacing from window to window. If no shop drawings were purchased for your project, The spacing should be between 1-3/4" and 2". See Fig. 9

Apply the pressure clamps and secure them with the screws furnished by WINCO for this purpose. WINCO furnishes the pressure clamps and screws to be spaced at 16" O.C., no more than 8" from each end. See Fig. 10

Secure the windows with snap trim. Refer to the Snap Trim installation section of this manual for detailed instructions.

Measure the full height of the interior side of the opening and trim the snap on cover to final size. Use the palm of your hand to apply firm pressure to lock the cover into place. Do not use a hammer or other impact device as this may damage the finish and surface of the extrusion. See Fig. 11

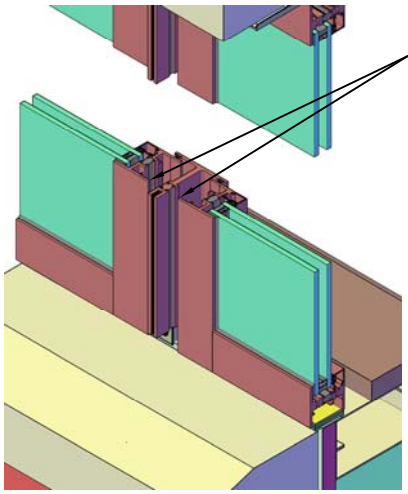


Fig. 9
Viewed from Building Exterior

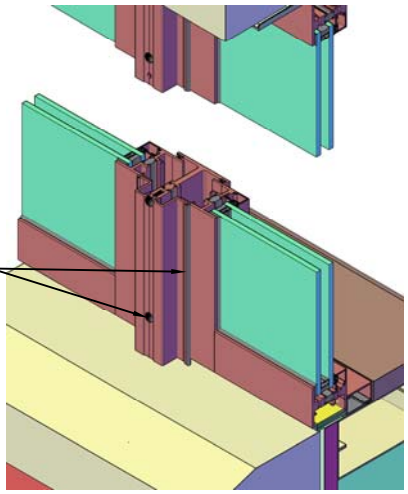


Fig. 10
Viewed from Building Exterior

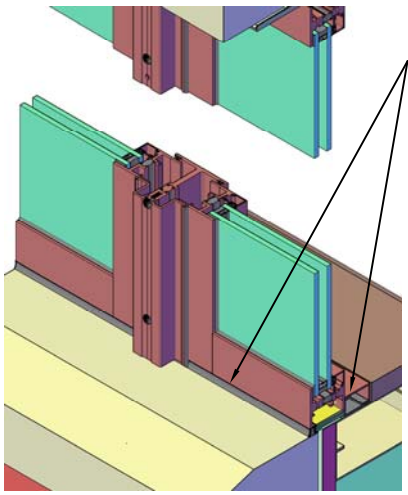


Fig. 11
Viewed from Building Exterior

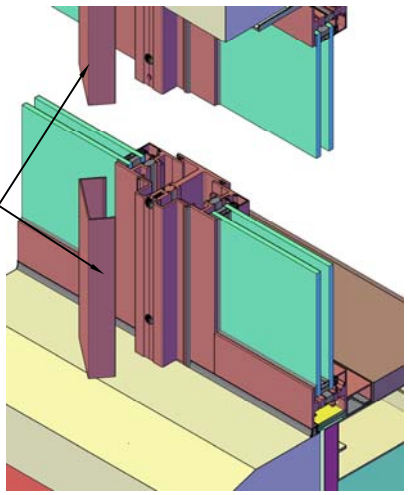


Fig. 12
Viewed from Building Exterior

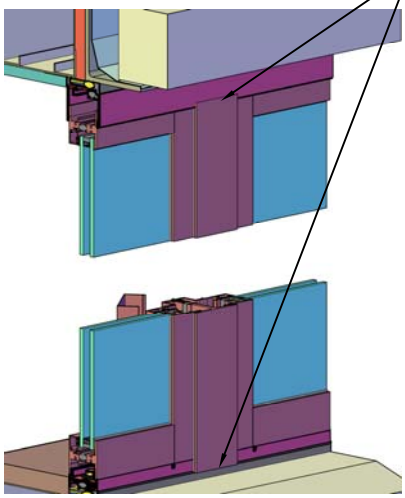
Generic frame & trim extrusions shown, actual extrusions used may differ.

Install the head & jamb receptors along with the sub-sill according to appropriate installation instructions to the point just prior to he windows being set into place.

The head end will be cut square to terminate at the daylight opening of the head receptor (see Fig. 1) unless the mullion is a tube or semi-tube design. In that case, the mullion head will terminate at the rough openings and the mullion web will require a 2" + sealant joint (typically 1/4") deep notch to clear the head receptor. (See Fig. 2) Measure the exact opening height where the mullion will be used and cut the mullion to size leaving just enough clearance to allow installation.

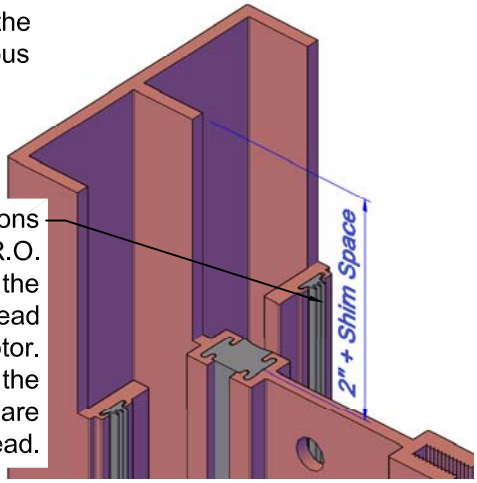
WINCO furnishes the mullions for a receptor installation with a notch at the sill end to clear the sub-sill, the other end is square cut and long for T-mullion and notched for a Tube or Semi-Tube mullion. See Fig. 3

The mullion cover is factory notched at the head end to clear the receptor closure. The sill end is cut square. See Fig. 4



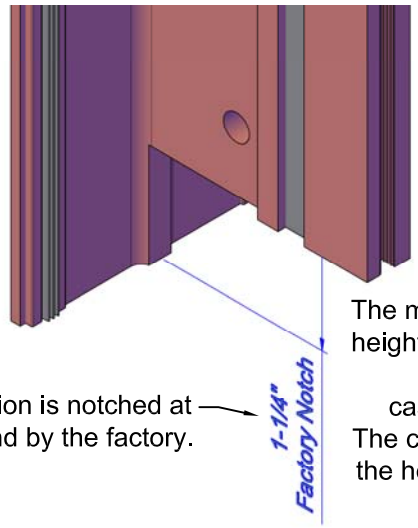
The T-Mullion terminates at the Head Receptor D.L.O., a small sealant joint is required at the sill to guarantee a continuous seal between the window installation and the wall condition.

Fig. 1
Viewed from Building Exterior



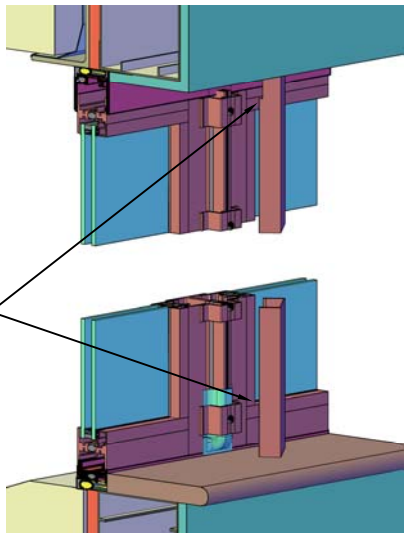
Tube and Semi-Tube mullions run the full height of the R.O. and require notching of the mullion web to clear the head receptor.
T-mullions terminate at the receptor D.L.O. and are square cut at the head.

Fig. 2



The mullion is notched at the sill end by the factory.

Fig. 3



The mullion cover runs the full height of the finished opening. Deduct for any sill stool, casework or drywall return. The cover must be notched at the head to clear the receptor closure plate.

Fig. 4
Viewed from Building Interior

Generic frame & trim extrusions shown, actual extrusions used may differ.

The mullion anchor (Clip Angle, WINCO ID = ANCH4) comes factory pre-drilled for ø1/4" fasteners. The flange for the mullion web connection has 3 holes to allow the installer flexibility which pair of holes to use.

Determine where the mullion anchor will sit on the mullion web and pre-drill ø5/16" clearance holes for the fastener tying the mullion to the mullion anchor. See Fig. 5a or Fig. 5b
A pan head screw w/ nut & bolt (X-307 w/ nut washer) is used to secure the mullion anchor to the mullion web. See Fig. 6a, Fig. 6b, Fig. 7a and Fig. 7b
If 2 mullion anchors are used per end, then a slightly longer screw X-308 is used.

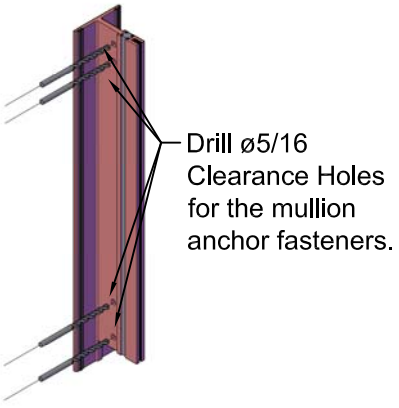


Fig. 5a
T-Mullion

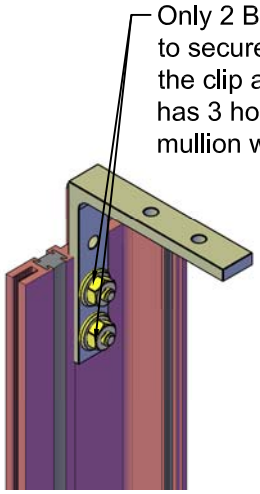


Fig. 6a
T-Mullion

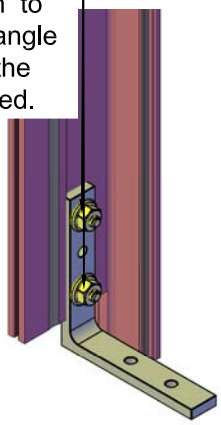


Fig. 7a
T-Mullion

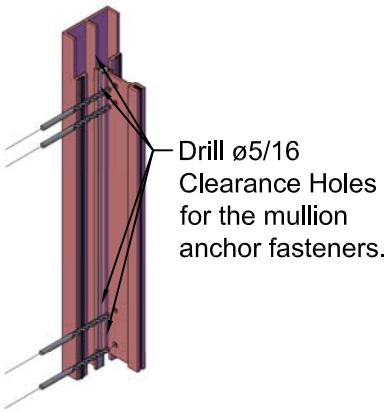


Fig. 5b
Tube or Semi-Tube Mullion

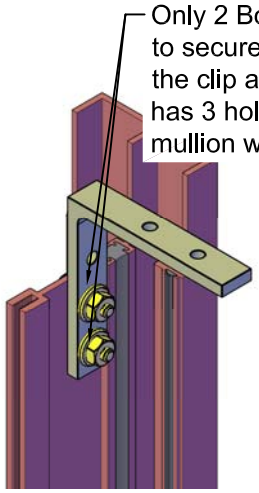


Fig. 6b
Tube or Semi-Tube Mullion

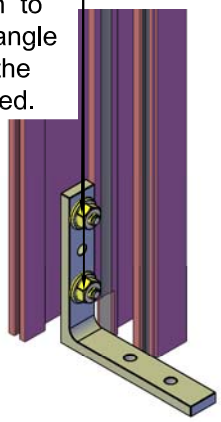


Fig. 7b
Tube or Semi-Tube Mullion

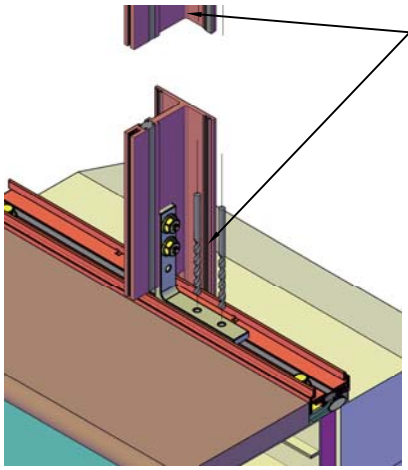
Generic frame & trim extrusions shown, actual extrusions used may differ.

The fasteners used to secure the mullion to the wall substrate are project specific. Determine if the fastener used will require pre-drilling of the wall substrate. Pre-drill wall substrate as required. When the mullion is anchored into steel stud, pre-drilling may be omitted, depending on the anchor diameter and substrate thickness. See Fig. 8

Remove any drill shavings, dust & debris. Back bead the sub-sill and receptor around the entire perimeter prior to setting the mullion(s).

Set the mullion into final position and make sure the mullion is set plumb. Seal the mullion against the sub-sill. If sub-sill is used, set the ANCH4 clip into a bed of sealant to ensure water will not leak through the anchor penetration into the dry space below. In a typical installation, each mullion anchor will require 2 fasteners to the substrate. The exact type, size, embedment, etc is project specific and must be determined based on the architectural drawings or by a qualified professional engineer. Secure the mullion to ANCH4 and ANCH4 to the wall substrate. Seal the head of all masonry fasteners at the sill. See Fig. 9

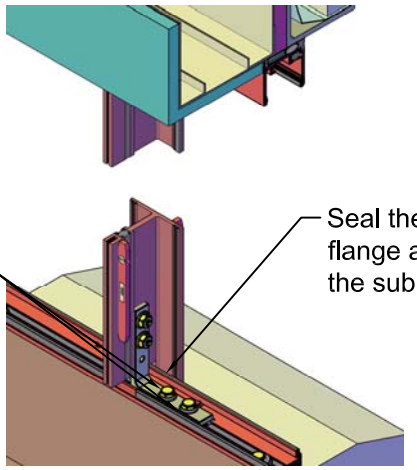
Apply a continuous bead of sealant along the entire length of the mullion flange adjacent to the 3-Finger Vinyl backer so the exterior mullion-window interface will be sealed. See Fig. 10



Determine the position of Anch4 and pre-drill clearance holes in sub sill and head receptor.
Follow with pilot holes into the substrate as required by substrate & fastner type.

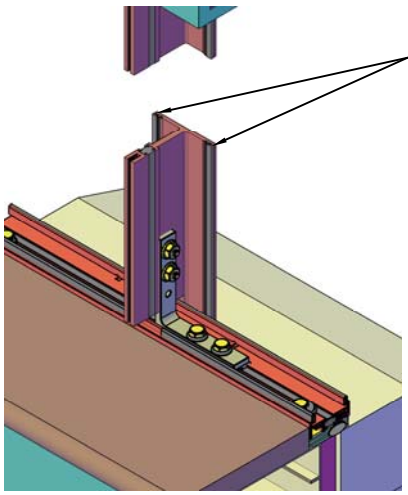
Set the mullion into position and attach the mullion anchor clip angles to the mullion web.
Install the mullion plumb & square to the sub sill.
Set the clip angles into a bed of sealant at the sill.
Apply sealant under the fastener heads at the sill.

Fig. 8
Viewed from Building Interior



Seal the mullion flange against the sub sill.

Fig. 9
Viewed from Building Interior



Apply a continuous bead of silicone sealant the mullion flange where the window unit will engage. Utilize the 3 finger vinyl as backer rod & bond breaker.

Fig. 10
Viewed from Building Interior

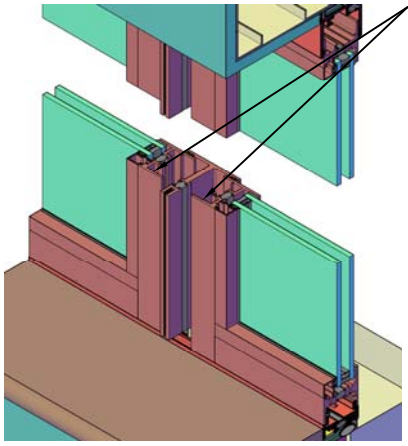
Generic frame & trim extrusions shown, actual extrusions used may differ.

Position the windows on the sub-sill. Refer to the shop drawings for the spacing from window to window. If no shop drawings were purchased for your project, The spacing should be between 1-3/4" and 2". See Fig. 12

Apply a 4" tall strip of H8-190 Butyl Tape at the sill overlapping the sub-sill and the window jambs. Apply pressure by hand to ensure the tape's adhesive bonds without bubbles or gaps to the windows and sub-sill. The bottom most pressure plate should cover the Butyl tape at least partially if the mullion stem protrudes beyond the window surface. This will prevent the tape from prying loose of the sub-sill. Apply the balance of the pressure clamps and secure them with the screws furnished by WINCO for this purpose. WINCO furnishes the pressure clamps and screws to be spaced at 16" O.C. See Fig. 13

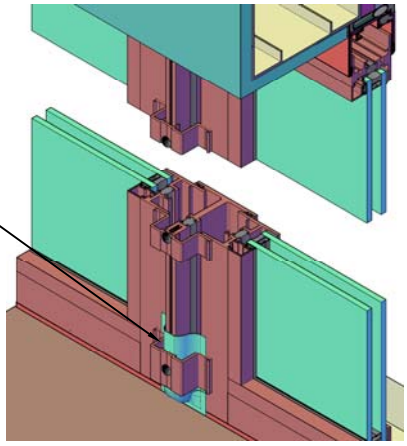
Install the receptor closure at the head. - Refer to the sub-frame / receptor section of the installation instructions. See Fig. 14

Measure the full height of the interior side of the opening and trim the snap on cover to final size. The head will require a 3/16" deep notch to clear the receptor closure. The height of the notch depends on the thickness of the sealant joint and where the cover terminates.
Use the palm of your hand to apply firm pressure to lock the cover into place. Do not use a hammer or other impact device as this may damage the finish and surface of the extrusion. See Fig. 15



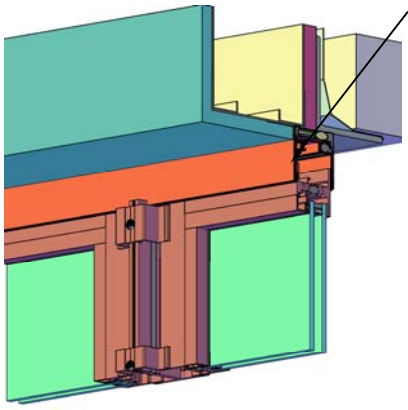
Position the windows 1-3/4" to 2" apart. Refer to the shop drawings for the correct spacing for your project.

Fig. 12
Viewed from Building Interior



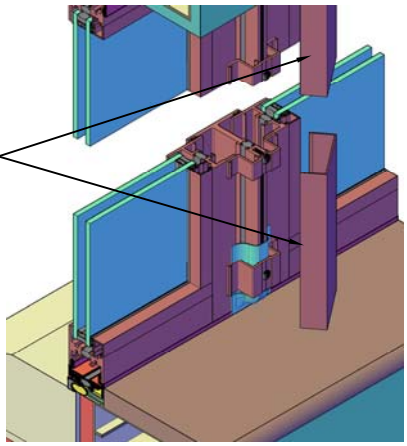
Apply a 4" tall strip of H8-190 Butyl Tape at the sill overlapping the sub-sill and the window jambs. Apply the pressure clamps with the screws furnished by WINCO for this purpose.

Fig. 13
Viewed from Building Interior



Secure the window jambs & head per the receptor installations instructions.

Fig. 14
Viewed from Building Interior



Use the palm of your hand to pressure fit the snap on cover. Do not use a hammer or mallet for this purpose since the finish could be damaged.

Fig. 15
Viewed from Building Interior

Mullion Installation
Receptor Installation - Reversed against Receptor

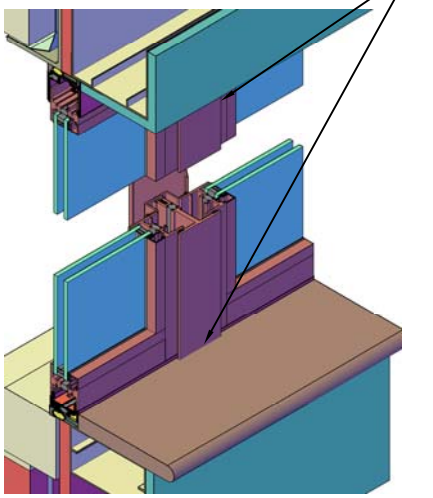
Generic frame & trim extrusions shown, actual extrusions used may differ.

Install the head & jamb receptors along with the sub-sill according to appropriate installation instructions to the point just prior to he windows being set into place.

The head end will be cut square to terminate at the daylight opening of the head receptor (see Fig. 1) unless the mullion is a tube or semi-tube design. In that case, the mullion head will terminate at the rough openings and the mullion web will require a 2" + sealant joint (typically 1/4") deep notch to clear the head receptor. (See Fig. 2) Measure the exact opening height where the mullion will be used and cut the mullion to size leaving just enough clearance to allow installation.

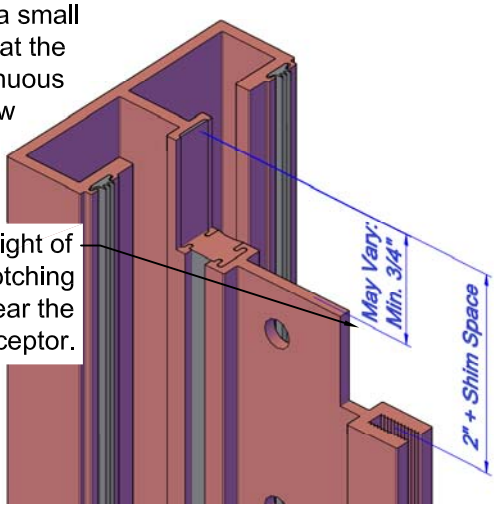
WINCO furnishes the mullions for a receptor installation with a notch at the sill end to clear the sub-sill, the other end is square cut and long for T-mullion and notched for a Tube or Semi-Tube mullion. See Fig. 3

The mullion cover is factory notched at the head end to clear the receptor closure. The sill end is cut square. See Fig. 4



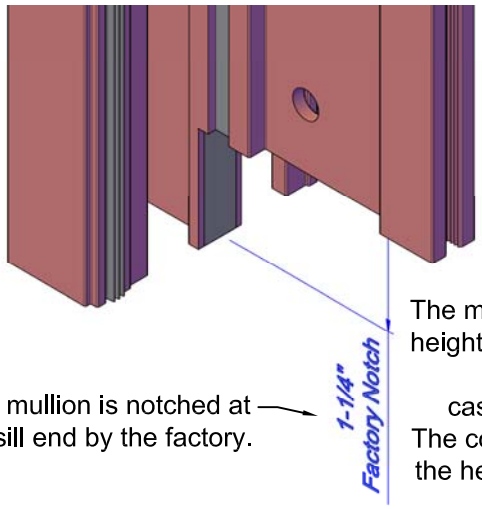
The T-Mullion terminates at the Head Receptor D.L.O., a small sealant joint is required at the sill to guarantee a continuous seal between the window installation and the wall condition.

Fig. 1
Viewed from Building Interior



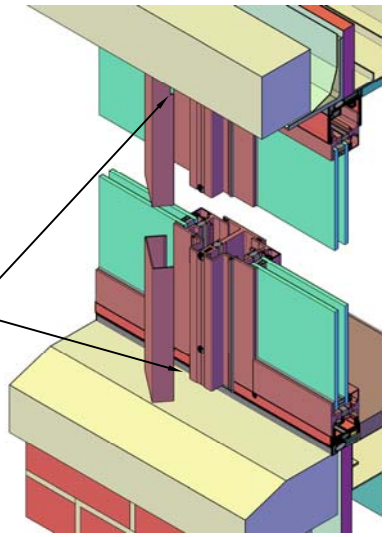
Mullions run the full height of the R.O. and require notching of the mullion web to clear the head receptor.

Fig. 2



The mullion is notched at the sill end by the factory.

Fig. 3



The mullion cover runs the full height of the finished opening. Deduct for any sill stool, casework or drywall return. The cover must be notched at the head to clear the receptor closure plate.

Fig. 4
Viewed from Building Exterior

Generic frame & trim extrusions shown, actual extrusions used may differ.

The mullion anchor (Clip Angle, WINCO ID = ANCH4) comes factory pre-drilled for ø1/4" fasteners. The flange for the mullion web connection has 3 holes to allow the installer flexibility which pair of holes to use.

Determine where the mullion anchor will sit on the mullion web and pre-drill ø5/16" clearance holes for the fastener tying the mullion to the mullion anchor. See Fig. 5a or Fig. 5b
A pan head screw w/ nut & bolt (X-307 w/ nut washer) is used to secure the mullion anchor to the mullion web. See Fig. 6a, Fig. 6b, Fig. 7a and Fig. 7b
If 2 mullion anchors are used per end, then a slightly longer screw X-308 is used.

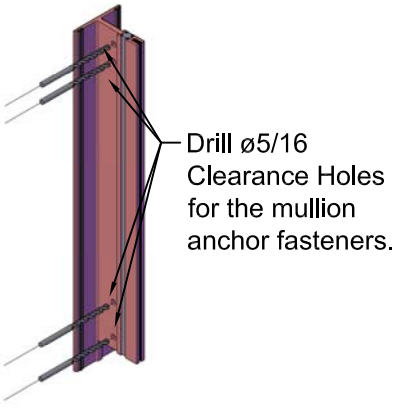


Fig. 5a
T-Mullion

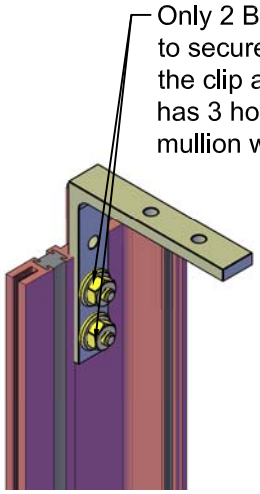


Fig. 6a
T-Mullion

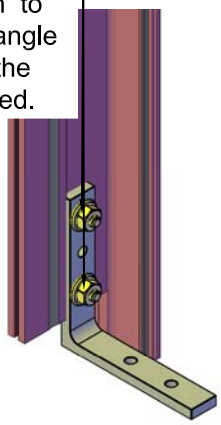


Fig. 7a
T-Mullion

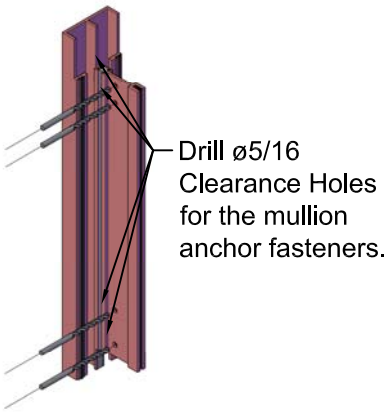


Fig. 5b
Tube or Semi-Tube Mullion

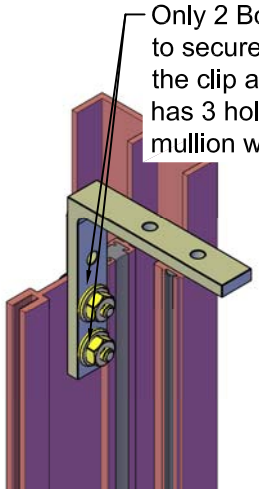


Fig. 6b
Tube or Semi-Tube Mullion

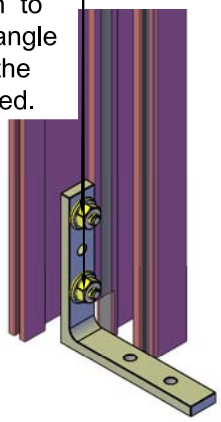


Fig. 7b
Tube or Semi-Tube Mullion

Mullion Installation
Receptor Installation - Reversed against Receptor

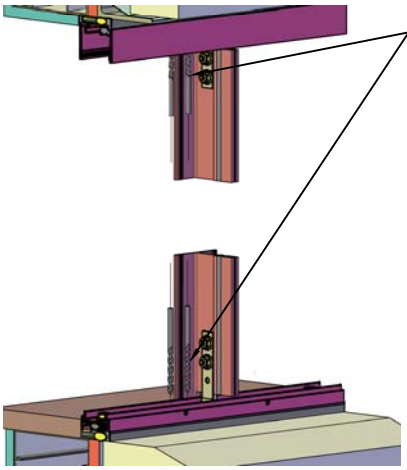
Generic frame & trim extrusions shown, actual extrusions used may differ.

The fasteners used to secure the mullion to the wall substrate are project specific. Determine if the fastener used will require pre-drilling of the wall substrate. Pre-drill wall substrate as required. When the mullion is anchored into steel stud, pre-drilling may be omitted, depending on the anchor diameter and substrate thickness. See Fig. 8

Remove any drill shavings, dust & debris. Back bead the sub-sill and receptor around the entire perimeter prior to setting the mullion(s).

Set the mullion into final position and make sure the mullion is set plumb. Seal the mullion against the sub-sill. If sub-sill is used, set the ANCH4 clip into a bed of sealant to ensure water will not leak through the anchor penetration into the dry space below. In a typical installation, each mullion anchor will require 2 fasteners to the substrate. The exact type, size, embedment, etc is project specific and must be determined based on the architectural drawings or by a qualified professional engineer. Secure the mullion to ANCH4 and ANCH4 to the wall substrate. Seal the head of all masonry fasteners at the sill. See Fig. 9

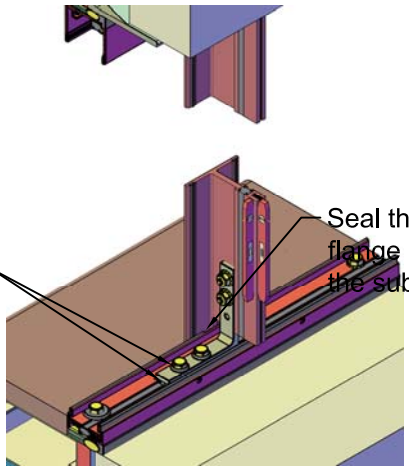
Apply a bead of sealant 6 Inches up from the sill on the mullion flange adjacent to the 3-Finger Vinyl backer so the interior mullion-window interface will be sealed against the sub-sill. See Fig. 10



Determine the position of Anch4 and pre-drill clearance holes in sub sill and head receptor.
Follow with pilot holes into the substrate as required by substrate & fastener type.

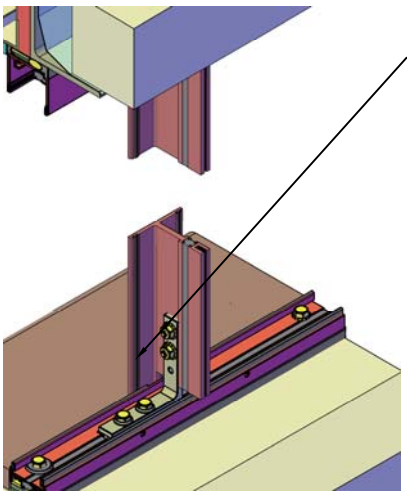
Set the mullion into position and attach the mullion anchor clip angles to the mullion web.
Install the mullion plumb & square to the sub sill.
Set the clip angles into a bed of sealant at the sill.
Apply sealant under the fastener heads at the sill.

Fig. 8
Viewed from Building Exterior



Seal the mullion flange against the sub sill.

Fig. 9
Viewed from Building Exterior



Apply a bead of silicone sealant the mullion flange where the window unit will engage 6 Inches up from the sill. Utilize the 3 finger vinyl as backer rod & bond breaker.

Fig. 10
Viewed from Building Exterior

Mullion Installation
Receptor Installation - Reversed against Receptor

Generic frame & trim extrusions shown, actual extrusions used may differ.

Position the windows on the sub-sill. Since the receptor flange is on the exterior and the mullion flange on the interior of the building, the windows have to be set from the building interior at no less than 3" apart. They will then have to be walked sideways into the final installation position. This method is only used when the positive design pressure is greater than the capacity of the mullion pressure clamp and the fasteners securing the clamp. Refer to the shop drawings for the spacing from window to window. If no shop drawings were purchased for your project, The spacing should be between 1-3/4" and 2". See Fig. 12

Apply the the continuous pressure clamp and secure it with the screws furnished by WINCO for this purpose. Unless directed otherwise, WINCO furnishes the screws for the pressure clamp spaced at 16" O.C. See Fig. 13

Install the receptor closure at the head. - Refer to the sub-frame / receptor section of the installation instructions. See Fig. 14

Measure the full height of the interior side of the opening and trim the snap on cover to final size. The head will require a 3/16" deep notch to clear the receptor closure. The height of the notch depends on the thickness of the sealant joint and where the cover terminates. Apply a small bead of sealant on either side of the mullion pressure clamp to limit water intrusion into the receptor system.
Use the palm of your hand to apply firm pressure to lock the cover into place. Do not use a hammer or other impact device as this may damage the finish and surface of the extrusion. See Fig. 15

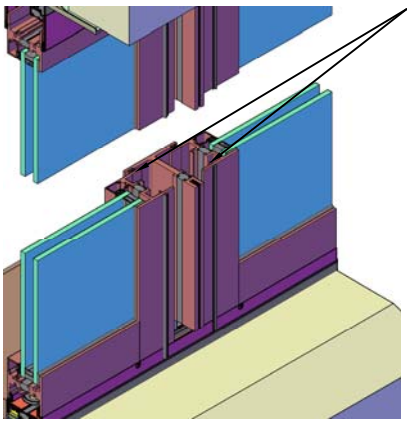


Fig. 12
Viewed from Building Exterior

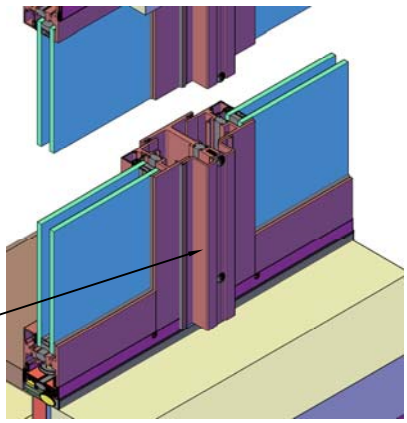


Fig. 13
Viewed from Building Exterior

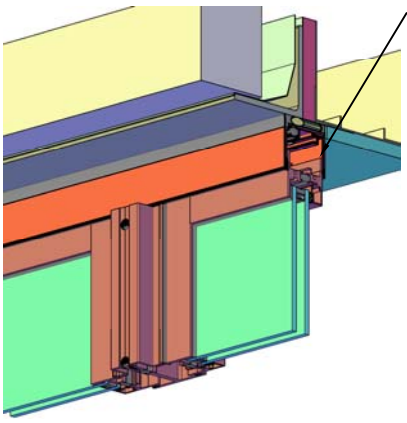


Fig. 14
Viewed from Building Exterior

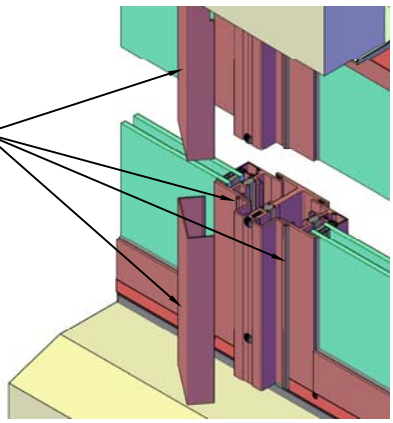


Fig. 15
Viewed from Building Exterior