

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.

Stacked Installation

Side Stack

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

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Vertical Stack (Side Stack)

The window units should be spaced with a nominal 1/8" gap for a vertical stack joint. This gap will allow a sufficient amount of sealant for a weather tight installation and at the same time allow expansion / contraction room for thermal movement. The gap can be increased or decreased slightly to allow uniform window sizes with moderate variance in opening width.

Window unit sizes will be divisible by 1/16" increments, but will be no less than 1/8" from one size to the next. This is due to manufacturing considerations and tolerances.

The vinyl (WINCO Part No. H30-2) only serves as backer rod and bond breaker to prevent a 3 sided joint.

The following rules must be observed for a problem free product life cycle:

The total amount of joint space should not be less than 0.125" for every 120" opening width for thermal expansion.

The individual joint should never be less than 0.062".

The individual joint should not exceed 0.188".

1) Clean the window unit jamb to remove any dust and oils from handling.

Apply a small bead of silicone to the "male" stacking leg on the exterior and the units's interior side. See Fig. 1

2) Position the second window unit in place. Tool & clean all squeeze out silicone from the window units. The sealant joint must run the full length of the stack. See Fig. 2

Proceed with installation according to the trim package applicable to your project.

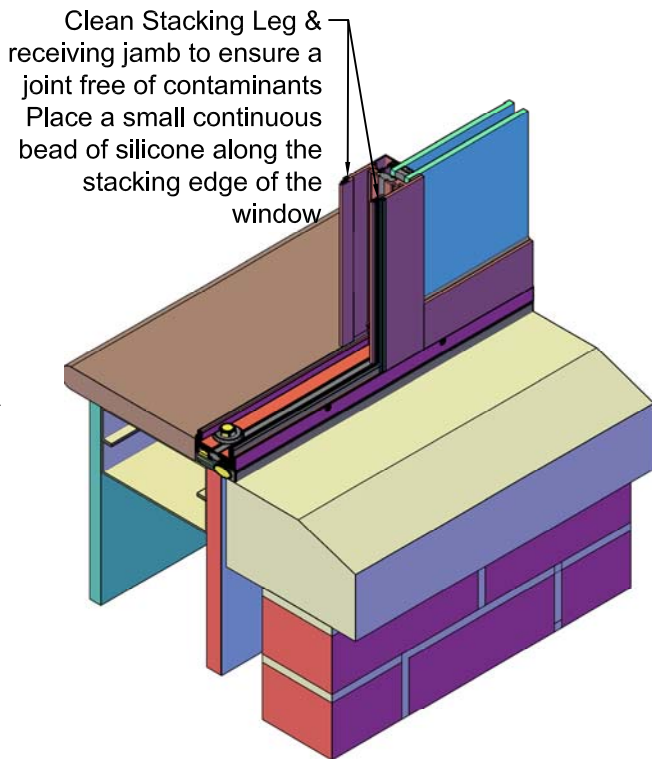


Fig. 1

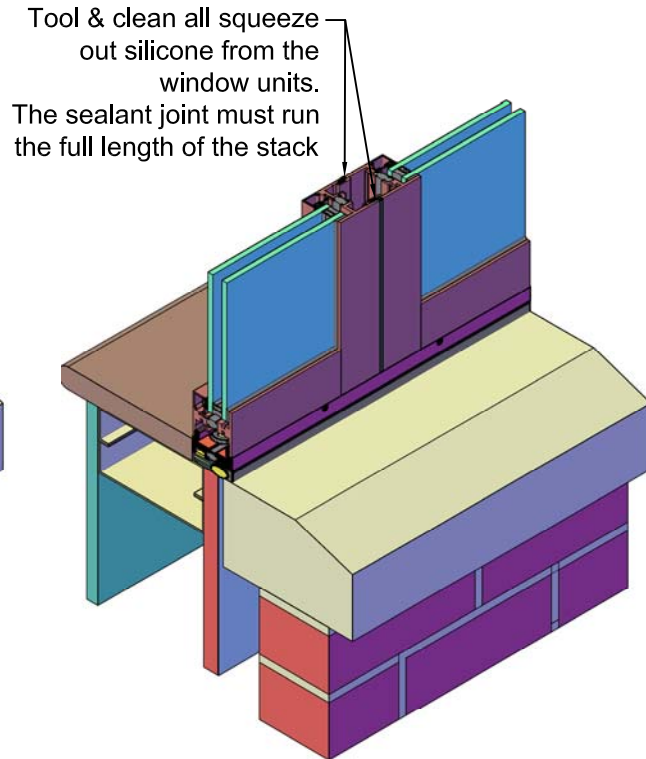


Fig. 2

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Stacked Installation

Gravity Anchor



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

Horizontal Stack

Installation for this orientation follows the same procedures as a vertical stack. Depending on the opening height, the units may be hard stacked to transfer the dead load directly from frame to frame. On taller openings (typically exceeding 12'-0") gravity anchors will be required and a 1/8" nominal gap in the stack is planned to allow for the thermal expansion of the individual units. Since the vertical thermal expansion / contraction is a function of the unit height, shorter stacks can fully absorb expansion / contraction in the perimeter sealant joint or the receptor engagement at the head.

If Gravity anchors are not required / used, proceed directly to step 7

If Gravity Anchors are required / used:

Gravity anchors support only the dead load of the window unit directly above the anchor. It is not intended to transfer wind loads to the wall substrate.

3) Determine the vertical position of the gravity anchor. Since this will vary with the frame sill extrusion used on your project, these instructions cannot provide a formula for each instance. Measure the distance from the sill edge of the window frame to the interior (concealed) area where the gravity anchor will support the window. Subtract 1/4" plus any allowance for a thermal separator shim if required. This is the location of the bottom surface of the gravity anchor. The gravity anchor is factory pre-drilled with 2 holes for \varnothing 1/4" fasteners. See Fig. 3

Snap Trim installation:

4) If the windows are installed without receptors, determine if the fastener used will require pre-drilling of the wall substrate. Pre-Drill wall substrate as required. Attach the gravity anchor to the wall substrate and secure with fasteners. See Fig. 4 & Fig. 5

Receptor Installation:

5) For installation using a jamb receptor, lay out and pre-drill clearance holes for the gravity anchor fastener. See Fig. 6

6) A pan head screw w/ nut & bolt (X-307 w/ nut washer) can be used to secure the gravity anchor to the receptor jamb prior to installing the trim into the rough opening. Install the jamb receptor per the receptor installation instructions. See Fig. 7

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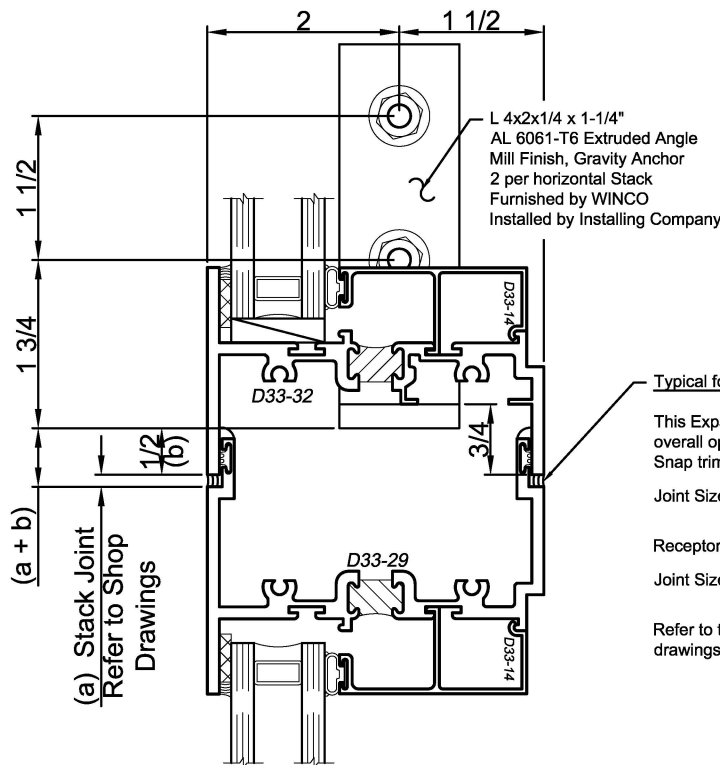
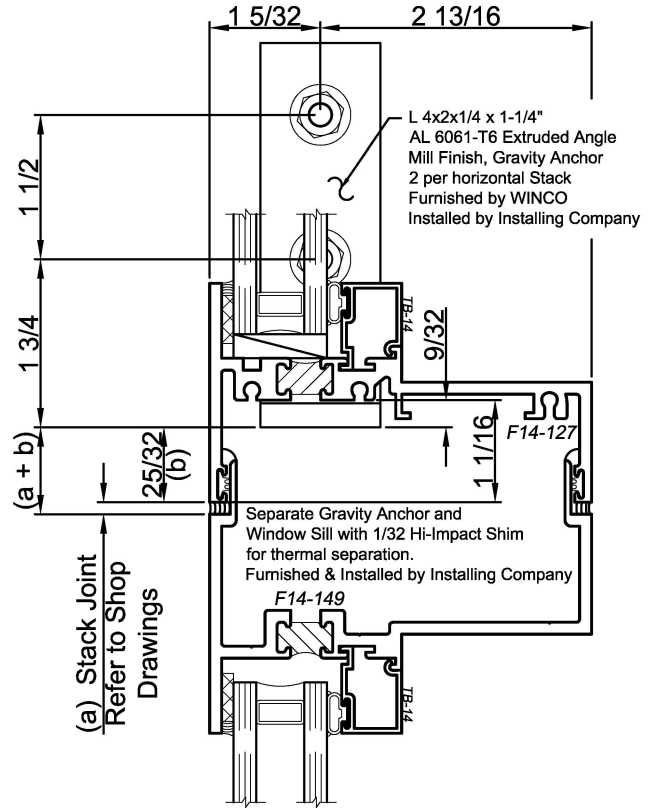
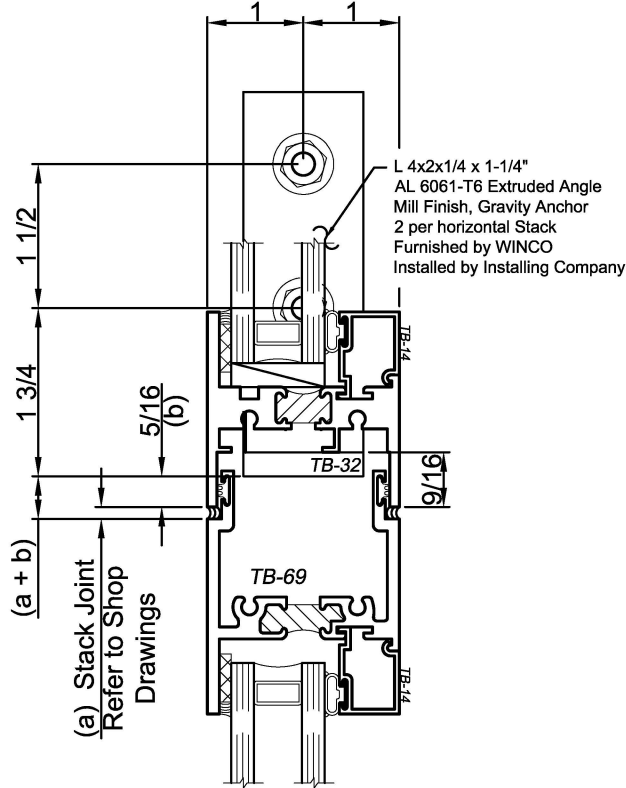
Stacked Installation Gravity Anchor



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

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Below is a short list of the most common extrusion profiles used in combination with Gravity Anchors. This list does not a complete selection of all available extrusions. It is only intended to serve as a guide how to correctly determine the installation position of the gravity anchor(s) relative to the window immediately below the horizontal stack joint.



Typical for all Horizontal Stacks with Gravity Anchor:

This Expansion Joint may vary from 1/8" to 1/4" depending on the project's overall opening sizes, window and trim configuration.

Snap trim installation:

$$\text{Joint Size [in]} = \frac{\text{Rough Opening size [in]} \times 0.000013 \times \Delta T [^{\circ}\text{F}]}{\text{number of horizontal expansion joints}}$$

Receptor Installation:

$$\text{Joint Size [in]} = \frac{(\text{Rough Opening size [in]} \times 0.000013 \times \Delta T [^{\circ}\text{F}]) - 1/4"}{\text{number of horizontal expansion joints}}$$

Refer to the actual nominal joint size indicated on the project specific shop drawings.

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Stacked Installation Gravity Anchor

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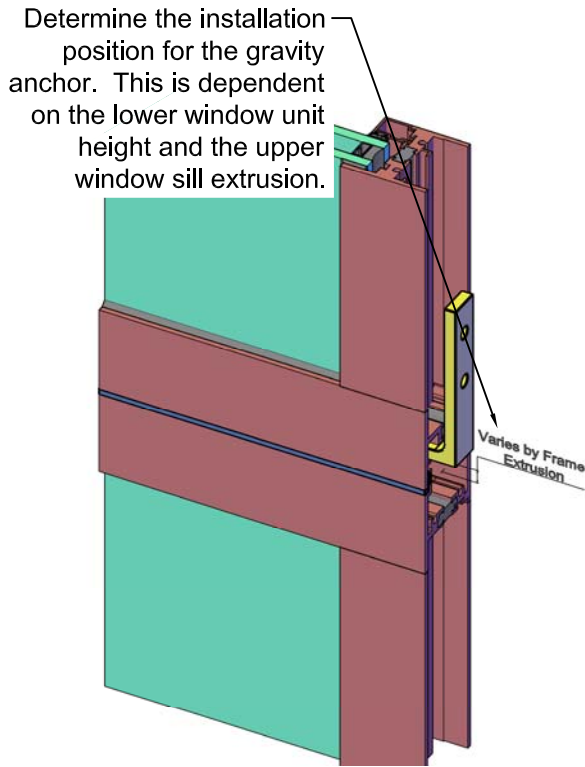


Fig. 3

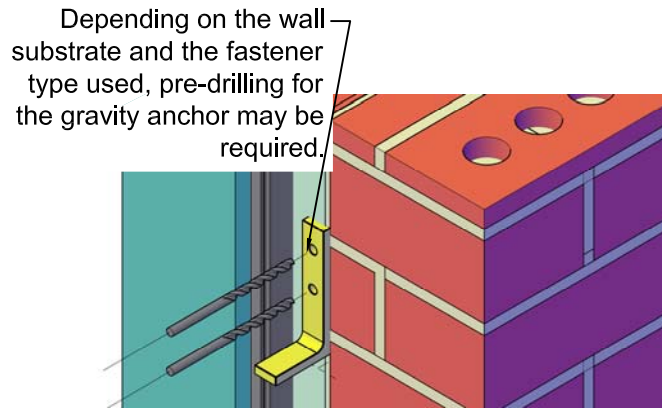


Fig. 4

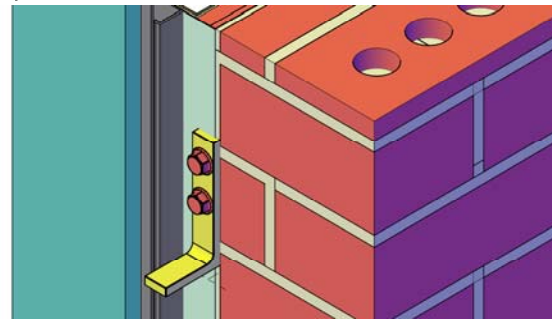


Fig. 5

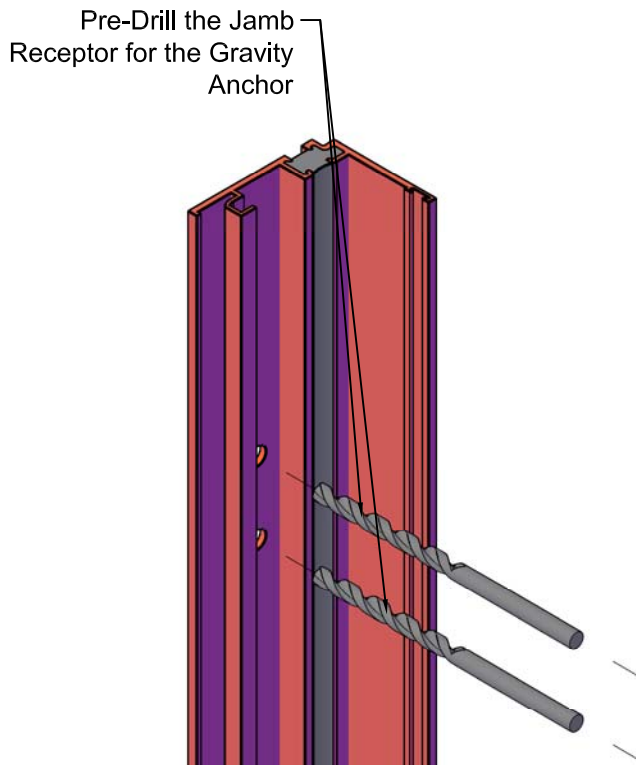


Fig. 6

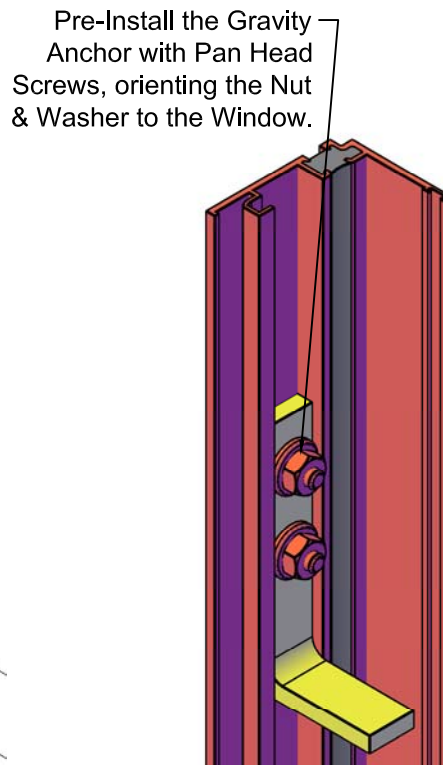


Fig. 7

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Stacked Installation

Horizontal Stack

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

Horizontal Stack

Installation for this orientation follows the same procedures as a vertical stack. Depending on the opening height, the units may be hard stacked to transfer the dead load directly from frame to frame. On taller openings (typically exceeding 12'-0") gravity anchors will be required and a 1/8" nominal gap in the stack is planned to allow for the thermal expansion of the individual units. Since the vertical thermal expansion / contraction is a function of the unit height, shorter stacks can absorb expansion / contraction in the perimeter sealant joint or the receptor engagement at the head.

If gravity anchors are not required / used, proceed directly to step 7, else follow steps 3 through 5 for snap trim and 3, 6 & 7 for receptor installed windows on the preceding pages.

7) Install the bottom window unit per the appropriate trim installation instructions. Clean the window units head (bottom unit) & sill (top unit) to remove any dust and oils from handling. Apply a small bead of silicone to the "male" stacking leg on the exterior and the units's interior side. Position the second window unit in place. See Fig. 8

8) Position the second window unit in place. Tool & clean all squeeze out silicone from the window units. The sealant joint must run the full length of the stack. See Fig. 9

Proceed with installation according to the trim package applicable to your project.

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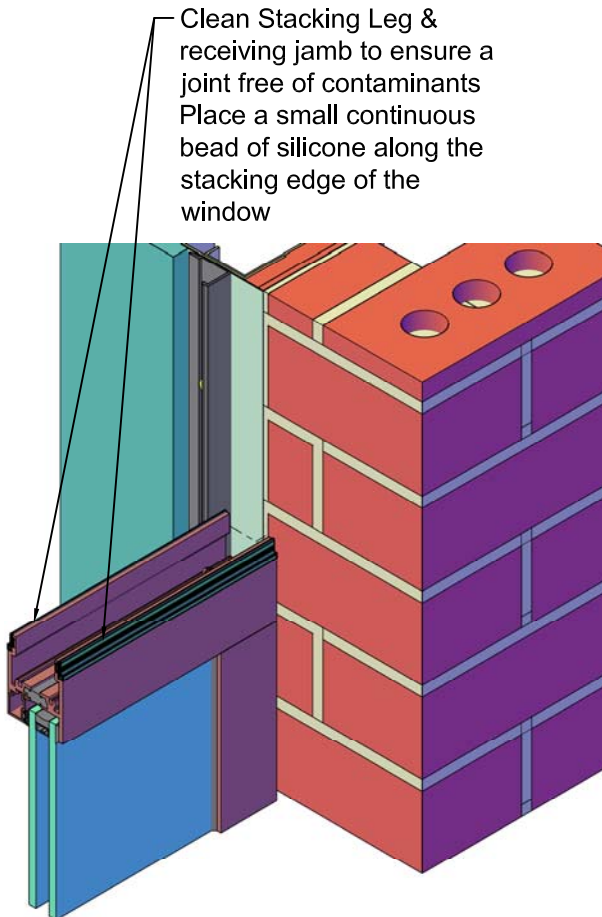


Fig. 8

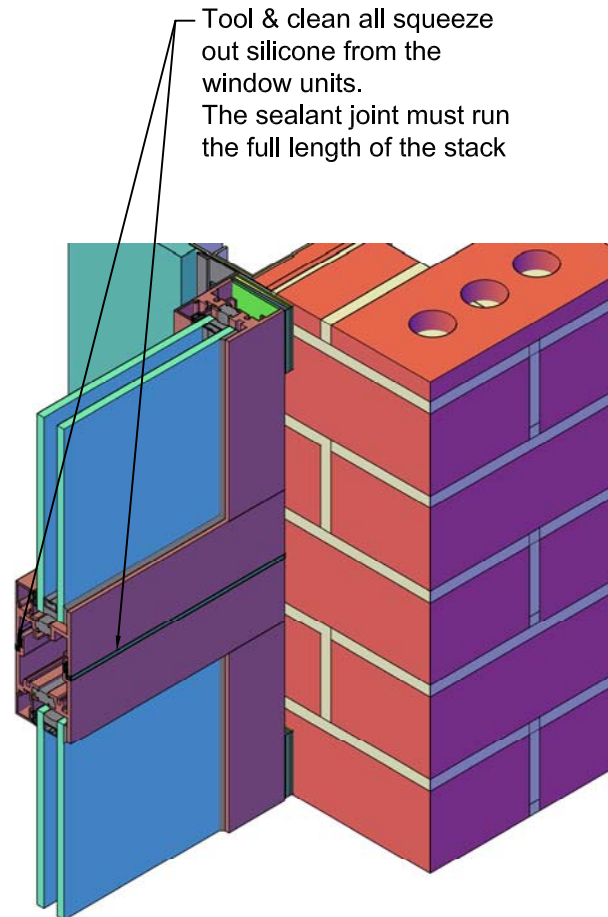


Fig. 9

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

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