Installation Scenario:

Flex Series Solid Panel Installation

- This guide covers how to measure for solid panels, install solid panels, install insulation, and install Flex Trim.

Nxtwall Components Covered by this Instruction:

- Flex Track
- Flex Stud
- Flex Trim
- Solid Panels
  - Includes: Vinyl Wrapped Gypsum Panels, Laminate Panels, and Fabric Wrapped Panels.
- Insulation

Recommended Installation Tools:

- Miter Saw
- Laser Level (or Level)
- Tape Measure
- Impact Driver and/or Drill
- Nylon Mallet/Rubber Mallet
- Phillips Screwdriver
- Utility Knife/Circular Saw
- Hammer Drill
- External Attaching Hardware
  - Note: Nxtwall does not include external attaching hardware.

Fig. 1

1
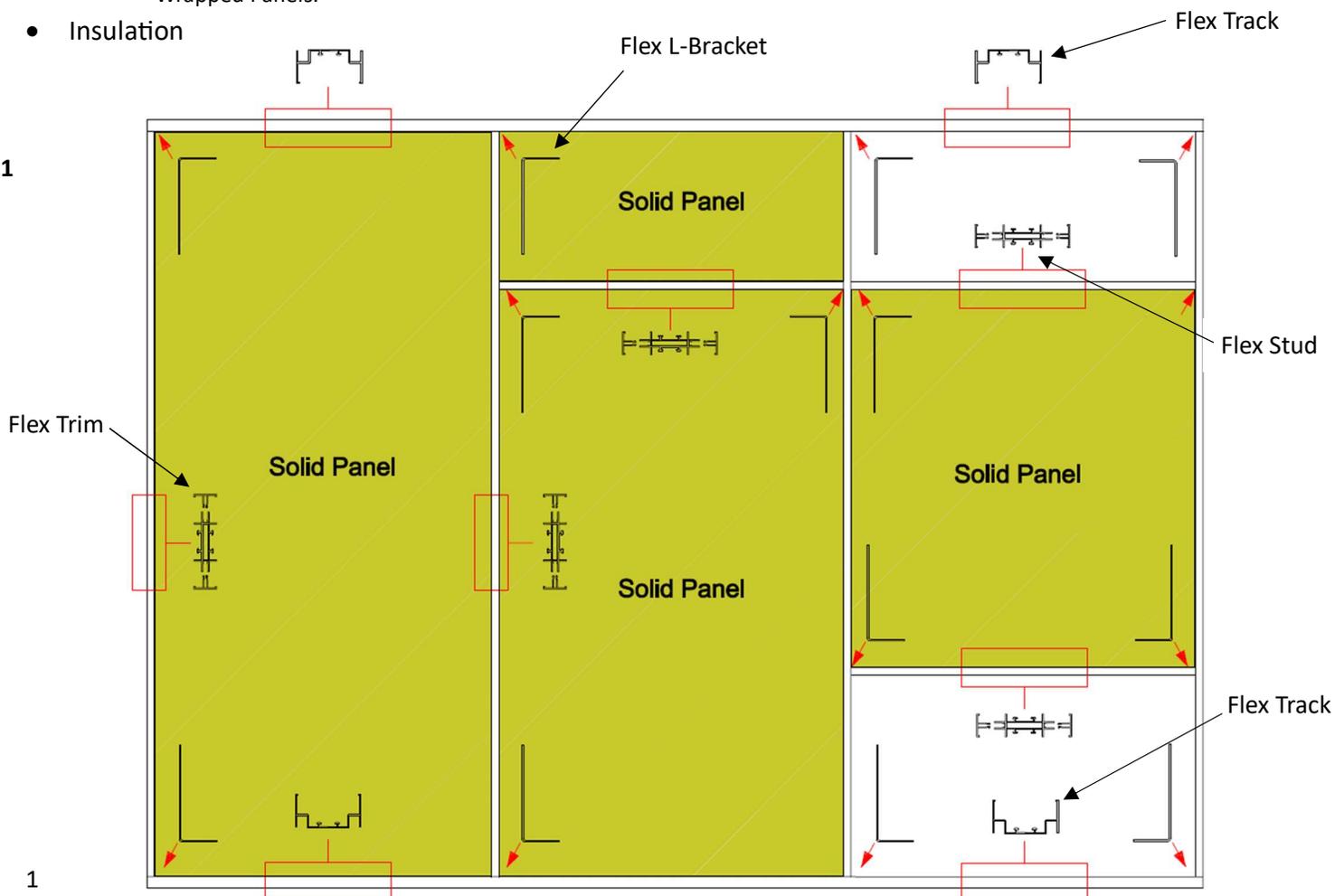
Installation Procedure:

Once all the framing has been installed the solid panels can be measured for and installed. For detailed information on how to install the framing reference the "Flex Series Basic Framing" installation guide.

This guide will cover each measuring scenario for solid panels.

Fig. 2

Panel Width Measurement:
Flex Stud to Flex Stud - 1/8"
Measurement Location Shown Above

Solid Panel Installation: Measuring for Panel Width

The width measurement for solid panels will be the same for each scenario.

The panel width measurement is:

**(Flex Stud to Flex Stud) – 1/8" (Fig. 2)**

The max panel width is 48". For 48" wide panels the Flex Stud spacing will need to be 48 1/8". See Fig. 3 for measurement location.
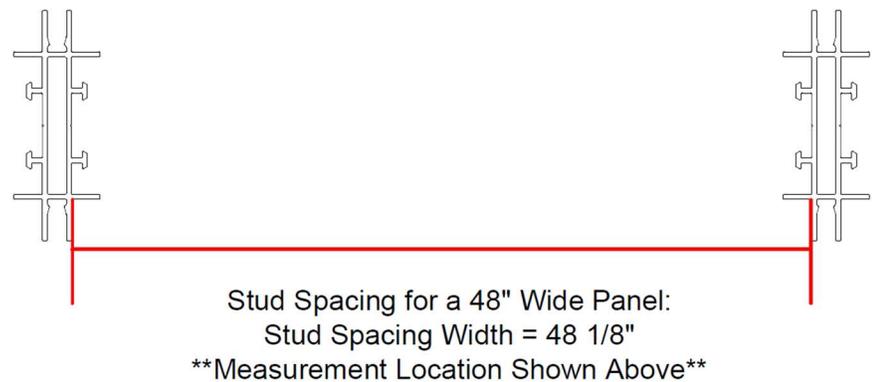
If the Flex Stud attaching to an existing wall is out of plumb the solid panel can be cut to follow the contour of the wall. All other Flex Studs must be plumb within the partition.

Once the Flex Trim is installed the trim will cover approximately a 1/4" of the panel on each side. Fig. 4.

Fig. 3
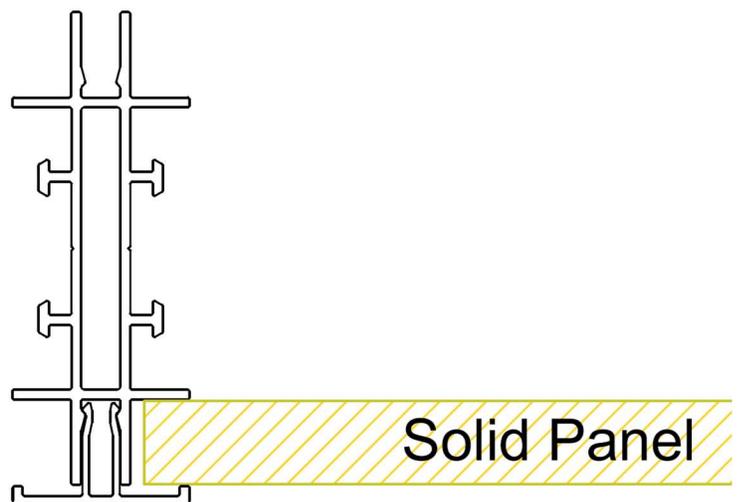
Stud Spacing for a 48" Wide Panel:
Stud Spacing Width = 48 1/8"
Measurement Location Shown Above

Fig. 4

Solid Panel

Solid Panel Installation: Measuring and Installing Full Height Panels – Vinyl Wrapped Gypsum and Fabric Panels

The height measurement for Full Height Panels is dependent on the panel type.

For Vinyl Wrapped Gypsum Panels and/or Fabric Panels:

Floor to Bottom of Flex Track (Fig. 5)

Take measurements on each side of the opening in case there is any variance. Use the shorter of the two measurements.

Panel Installation:

1. Place the bottom of the panel inside the Flex Track at the floor and against the vertical Flex Studs. Fig. 6.
2. Grab the center of the panel and flex the top of the panel to clear the Flex Track at the ceiling.
3. Once clear place the top of the panel inside the Flex Track at the ceiling. Fig. 7.
4. Installation complete.
   a. Note: If the panel is short of the Flex Track shims can be installed into the Flex Track at the floor to fit the panel properly.

Fig. 5
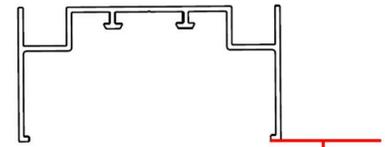
Gypsum/Fabric Panel Height:
Floor to Bottom of Flex Track
Measurement Location Shown
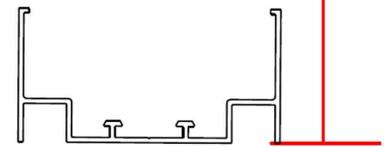
Fig. 6
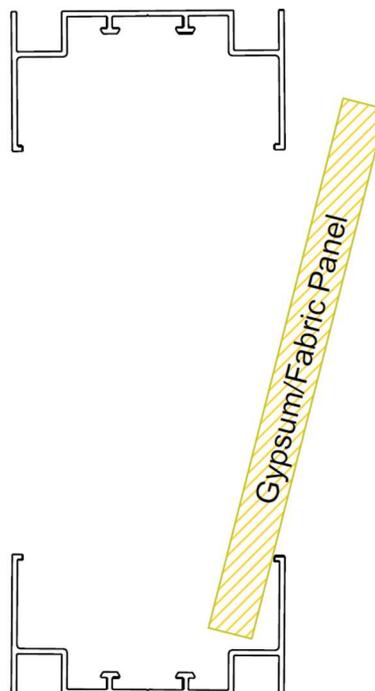
Fig. 7

Gypsum/Fabric Panel

Gypsum/ Fabric Panel

Solid Panel Installation: Measuring and Installing Full Height Panels – Laminate Panels

Height measurement for Full Height Laminate Panels:

Flex Track Shelf (Floor) to Bottom Edge of Flex Track (Ceiling) (Fig. 8)

Take measurements on each side of the opening in case there is any variance. Use the shorter of the two measurements.

Panel Installation:

1. Place 1/2" Shims into the Flex Track at the floor. Use two shims per panel.
    a. Cut off pieces of the laminate panel can be used if shims are needed. The laminate panels have a 1/2" thickness.
2. Place the top of the panel against the vertical Flex Studs.
3. Lift the panel into the Flex Track at the ceiling until it clears the Flex Track at the floor. Fig. 9.
4. Place the panel over the Flex Track at the floor. Rest the panel onto the shims. Fig. 10.
5. Installation complete.

Fig. 8

Laminate Panel Height:
Flex Track Shelf to Bottom of Flex Track
Measurement Location Shown

Fig. 9
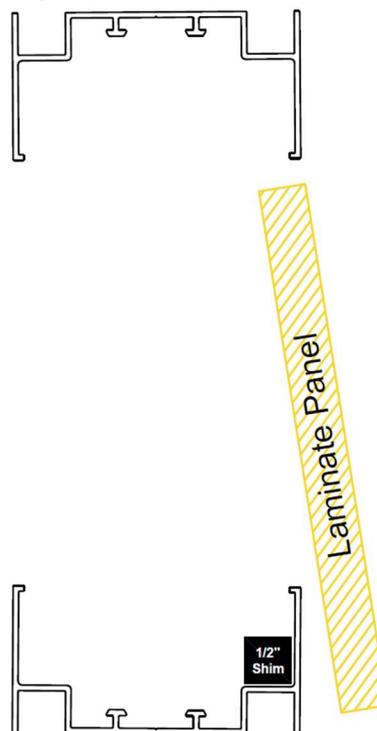
Fig. 10

Laminate Panel

Laminate Panel

1/2" Shim

1/2" Shim

4

Solid Panel Installation: Measuring and Installing Flex Track to Horizontal Stud Panels

Height measurement for panels installing from the Flex Track at the floor to the horizontal Flex Stud:

Flex Track Shelf to Horizontal Flex Stud (Fig. 11)

This measurement can be tight. If needed an 1/8" can be subtracted from the height measurement. Once the panel is installed it is important to make sure the Flex Trim is going to hold the panel in place. Fig. 12.

Take measurements on each side of the opening in case there is any variance. Use the shorter of the two measurements.

Panel Installation:

1. Place panel against the vertical studs and into the Flex Track at the floor.
2. Press the panel against the vertical and horizontal studs. Fig. 13.
3. To temporarily hold the panel in place install Flex Trim tags into the Flex Stud.
    a. Flex Trim tags are small cut off pieces of Flex Trim.
4. Installation complete.
    a. Note: If the panel is short shims can be installed into the Flex Track at the floor to fit the panel properly.

Note: This measurement can be applied to Full Height Sliding Door applications. The measurement would be from the Flex Track to the Genesis Stud at the top of the partition.

**Fig. 11**   **Horizontal Flex Stud**
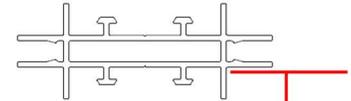
Solid Panel Height:
Flex Track Shelf to Horizontal Flex Stud
Measurement Location Shown
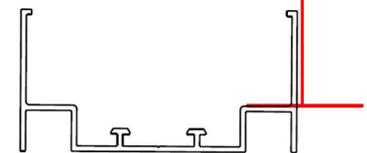
Fig. 13

Horizontal Flex Stud
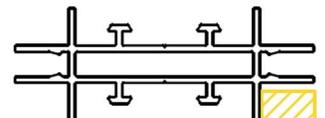
Fig. 12

**Horizontal Flex Stud**
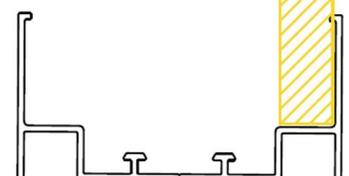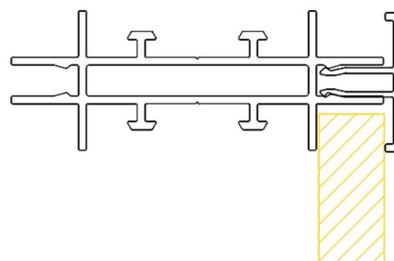
Laminate Panel

Solid Panel Installation: Measuring and Installing Horizontal Flex Stud to Flex Track

Height measurement for panels installing from the Horizontal Flex Stud to the Flex Track at the ceiling:

**Flex Stud to Bottom of Flex Track + 1/2" (Fig. 14)**

Panel Installation

1. Place panel against the vertical Flex Studs.
2. Lift the panel into the Flex Track at the ceiling until it clears the horizontal Flex Stud. Fig. 15.
3. Press the panel against the vertical Flex Studs.
4. Rest the panel onto the horizontal Flex Stud. Fig. 16.
5. Installation complete.

Fig. 14
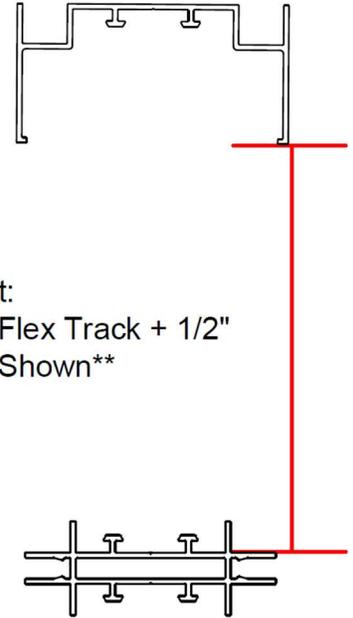
Solid Panel Height:
Horizontal Flex Stud to Bottom of Flex Track + 1/2"
Measurement Location Shown
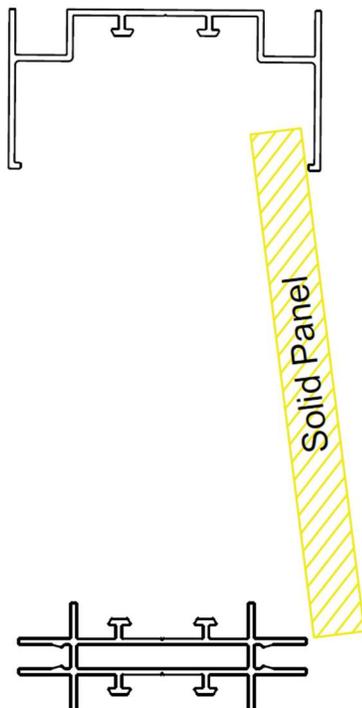
Horizontal Flex Stud

Fig. 15

Solid Panel

Horizontal Flex Stud

Fig. 16

Solid Panel

Horizontal Flex Stud

Solid Panel Installation: Measuring and Installing Horizontal Flex Stud to Horizontal Flex Stud

Height measurement for panels installing from the Horizontal Flex Stud to Horizontal Flex Stud:

Flex Stud to Flex Stud (Fig. 17)

This measurement can be tight. If needed an 1/8" can be subtracted from the height measurement. Once the panel is installed it is important to make sure the Flex Trim is going to hold the panel in place.

Panel Installation:

1. Place panel against the vertical studs and the horizontal Flex Studs. Fig. 18.
2. To temporarily hold the panel in place install Flex Trim tags into the Flex Studs. Fig. 19.
   b. Flex Trim tags are small cut off pieces of Flex Trim.
3. Installation complete.

Fig. 17

Horizontal Flex Stud
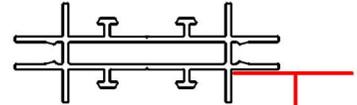
Solid Panel Height:
Flex Stud to Flex Stud
Measurement Location Shown
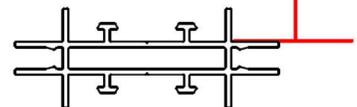
Horizontal Flex Stud

Fig. 18

Horizontal Flex Stud
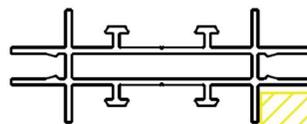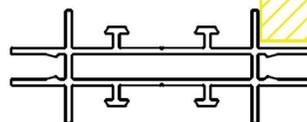
Solid Panel

Horizontal Flex Stud

Fig. 19

Horizontal Flex Stud
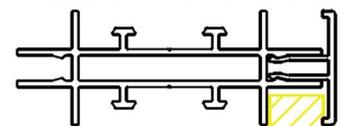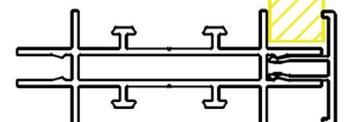
Solid Panel

Horizontal Flex Stud

Insulation Installation

Once the solid panels are installed on one side of the partition the insulation can be installed.

The insulation comes in a roll. The insulation will need to be cut to fit into the open cavity between the solid panels. The insulation will fill the entire cavity.

Prior to installing the insulation install the Flex Trim on one side of the wall. If the Flex Trim cannot be installed due to waiting on glass Flex Trim tags can be used to hold the panels in place. Installing the Flex Trim will keep the panels from bowing as the insulation is installed.

The Insulation comes in a 24" height. The insulation will be cut to width, see Fig. 20 for measurement location. Fig. 21 shows fitment between the Flex Studs once installed.

The Insulation is quoted to be installed horizontally and pieces stacked on each other for height. If needed, the piece at the top will be cut to fill the cavity. Fig. 22.

Fig. 20

Insulation Width:
Flex Stud to Flex Stud
**Measurement Location Shown Above**

Fig. 21

Insulation

Fig. 22

Insulation

Insulation

Insulation

Solid Panel

Solid Panel
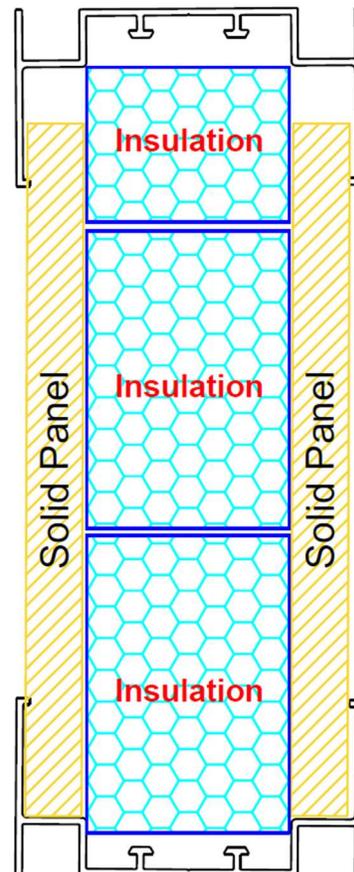
Recommend Tool:
Cepco Insul-Knife and Sharpener

Flex Trim Measuring and Installation:
Vertical Flex Trim

Once the fixed panels have been installed the Flex Trim can be measured for and installed. The purpose of the Flex Trim is to secure the fixed panels in place.

When measuring and installing Flex Trim start with the vertical Flex Trim.

Vertical Flex Trim Measurement:

Flex Track to Flex Track (Fig. 23)

This measurement will need to be exact.

- Take measurements at each trim location.
- If the trim is too long it will "jump" under the Flex Track and cause the track to flare out.
- If the trim is too short it will leave gaps between the Flex Trim and Flex Track.

Flex Trim Installation:

1. After the Flex Trim has been cut test fit the trim to make sure it will fit properly.
2. Place the Flex Trim in the center of the trim channel on the Flex Stud. Fig. 24.
3. Starting at the bottom of the partition, use a rubber/nylon mallet and strike the center of the Flex Trim. Install the trim approximately 1'-2' up and then go to the top of the trim and work towards the center of the trim. Fig. 25.
   a. When seated into the Flex Stud properly there will be a tight fit between the Flex Trim and the fixed panels.
   b. When installing the Flex Trim there will be an audible "snap" which is the trim installing into the stud.

Fig. 23

Vertical Flex Trim:
Flex Track to Flex Track
Measurement Location Shown

For Full Height Sliding Door Applications reference pages 11-12

Fig. 24

Fig. 25

9
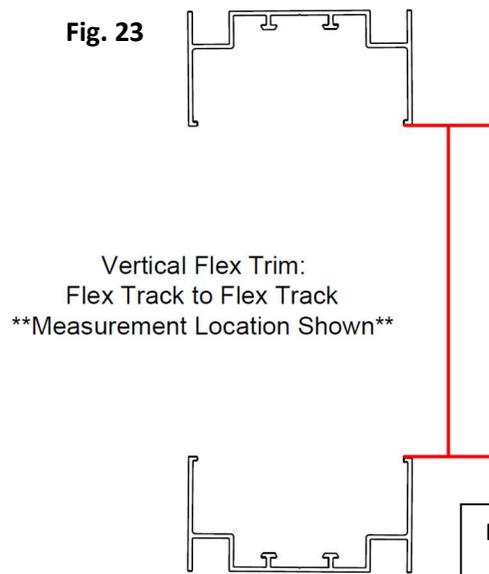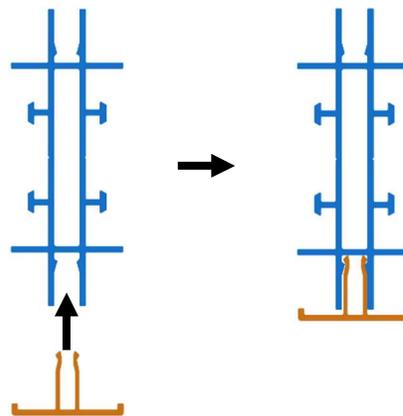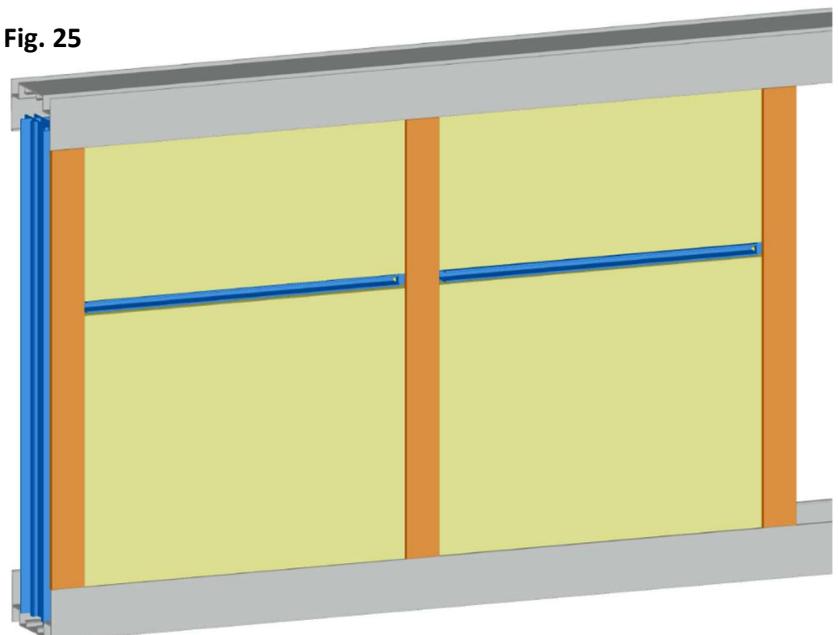
Flex Trim Measuring and Installation: Horizontal Flex Trim

Once the vertical Flex Trim is installed the horizontal flex trim can be installed.

Horizontal Flex Trim Measurement:

Vertical Flex Trim to Vertical Flex Trim (Fig. 26)

This measurement will need to be exact.

Flex Trim Installation:

1. After the Flex Trim has been cut test fit the trim to make sure it fits in between the vertical Flex Trim.
2. Place the Flex Trim in the center of the trim channel on the Flex Stud.
3. Starting on one side of the trim, use a rubber/nylon mallet and strike the center of the Flex Trim. Once started, switch to the opposite side and work towards the center of the trim. Fig. 27.
    a. When seated into the Flex Stud properly there will be a tight fit between the Flex Trim and the fixed panels.
    b. When installing the Flex Trim there will be an audible "snap" which is the trim installing into the stud.

Fig. 26

Horizontal Flex Trim:
Vertical Flex Trim to Vertical Flex Trim
Measurement Location Shown Above

Fig. 27
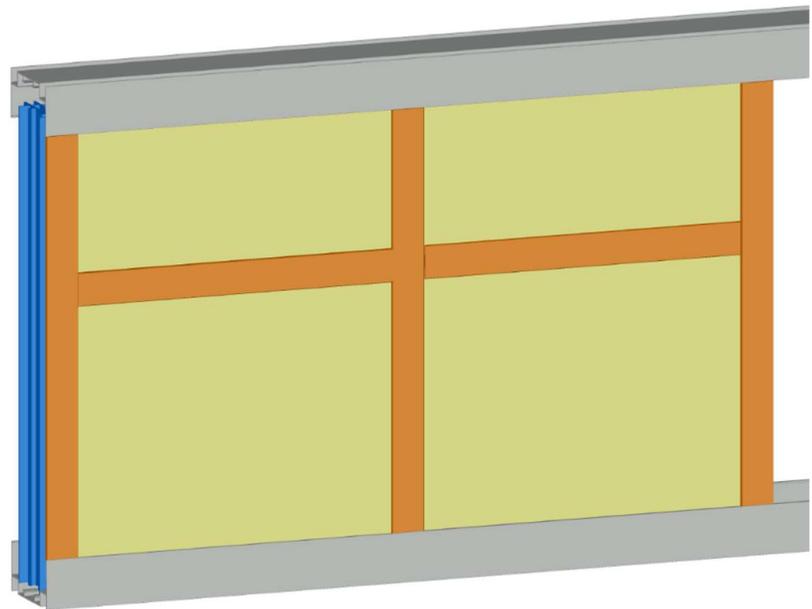
Flex Trim Measuring and Installation: Full Height Sliding Door Application – Horizontal Genesis Trim Installation

For Flex Series Full Height Sliding Door applications the horizontal Genesis Trim will be installed first.

- The Genesis Trim is the wider profile trim used for the Genesis Stud. Fig. 28.
- Install the solid panels prior to installing the Genesis Trim.

The Genesis Trim length will equal the length of the Genesis Stud. The Genesis Trim will span the width of the opening. (Fig. 29)

Genesis Trim Installation:

1. After the Genesis Trim has been cut test fit the trim to make sure it fits properly.
2. Place the Genesis Trim in the center of the trim channel on the Genesis Stud. Fig. 30.
3. Starting on one side of the trim, use a rubber/nylon mallet and strike the center of the Genesis Trim. Once started, switch to the opposite side and work towards the center of the trim.
   a. When seated into the Genesis Stud properly there will be a tight fit between the Genesis Trim and the fixed panels.

Fig. 28
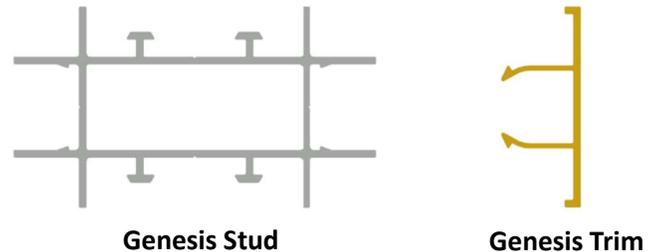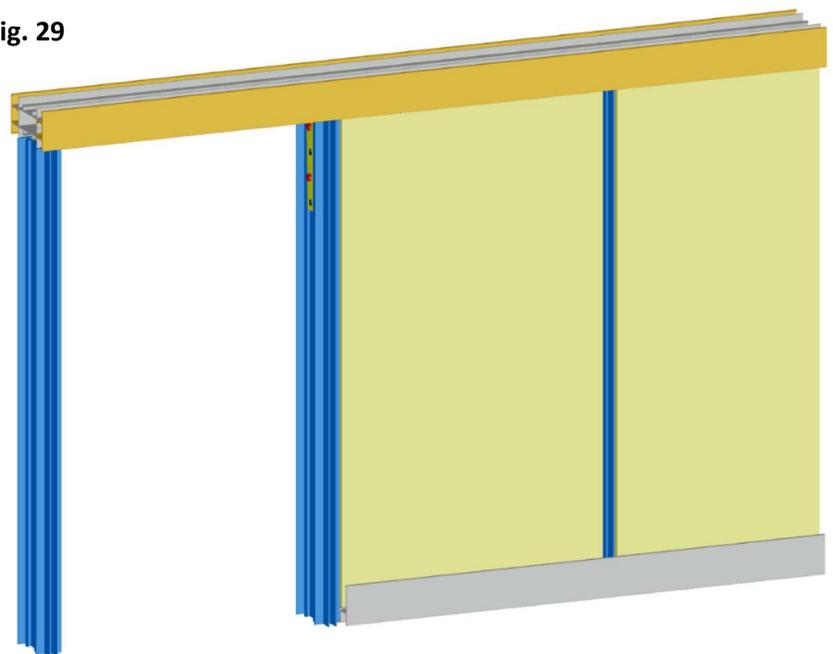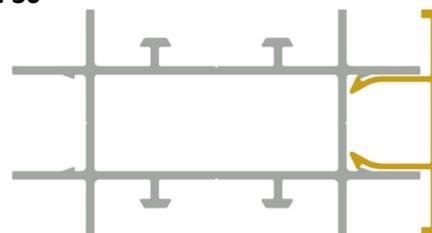
Genesis Stud   Genesis Trim

Fig. 29

Fig. 30

Flex Trim Measuring and Installation: Full Height Sliding Door Application – Vertical Flex Trim Installation

Once the horizontal Genesis Trim is installed the vertical Flex Trim can be measured for and installed.

Vertical Flex Trim Length:

Top of Flex Track to Bottom of Genesis Trim (Fig. 31)

This measurement will need to be exact.

Flex Trim Installation:

1. After the Flex Trim has been cut test fit the trim to make sure it fits properly between the Flex Track and Genesis Trim.
2. Place the Flex Trim in the center of the trim channel on the Flex Stud.
3. Starting at the bottom of the partition, use a rubber/nylon mallet and strike the center of the Flex Trim. Install the trim approximately 1'-2' up and then go to the top of the trim and work towards the center of the trim. Fig. 32.
   a. When seated into the Flex Stud properly there will be a tight fit between the Flex Trim and the fixed panels.
   b. When installing the Flex Trim there will be an audible "snap" which is the trim installing into the stud.

Fig. 31
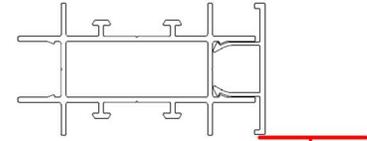
Vertical Flex Trim:
Flex Track to Genesis Trim
Measurement Location Shown

Fig. 32