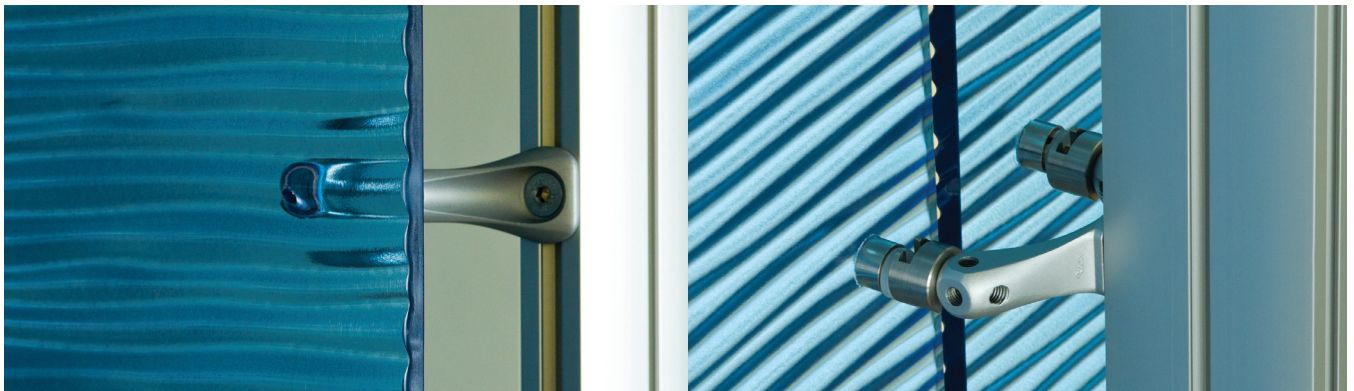


# 3form® Hidden Point™ Document/Installation Manual



3form **Hidden Point** is designed exclusively for 3form Varia Ecoresin® and solely for vertical conditions. It is designed as an adapter from the Varia panel to the 3form Versa, and Point Support systems. This adapter highlights the beauty of the Varia panel without calling attention to the hardware system, and has been designed to be fused with the panel at 3form fabrication - or even onsite as occasion requires. Due to the nature of this adapter some special attention is required at installation. For additional information contact your sales rep or 3form Technical Support.



For more information, please visit [3-form.com](http://3-form.com) or call **800.726.0126**

MAY 2011 | MAN - 031- HIDDENPOINT | REV 002 © 2011 3form, Inc. All rights reserved.

- NOTE: if installing 3form Hidden Point onsite (it is recommended that 3form Install these prior to shipping) it is crucial that the instructions for onsite practice installation be followed starting page 16 prior to attaching to finished panel.

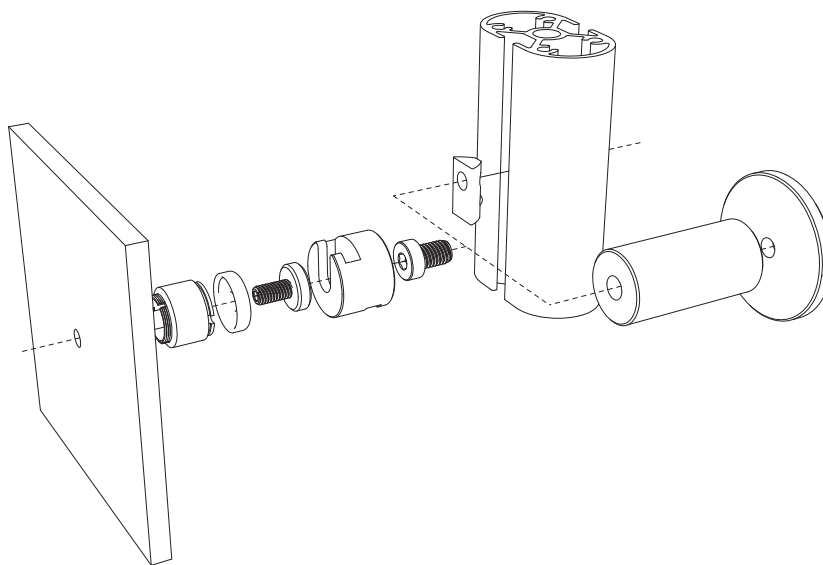
Hidden Point Support is designed for minimal hardware appearance to accentuate the beauty of 3form Varia Ecoresin panels. The insert is embedded into the back of the panel using simple tools. Access to fasten the panel is provided by a small hole through the front of the panel. The inserts are primarily installed into flat panels and installed in vertical applications with an adapter for point support or versa systems. Occasional installation to a radiused panel is acceptable following consultation with 3form Technical Support. Hidden Point Support cannot be used for overhead applications.

### Material and Surface Compatibility

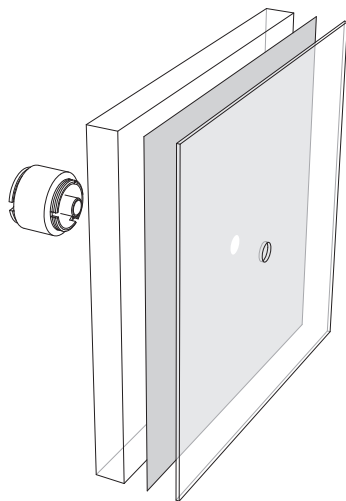
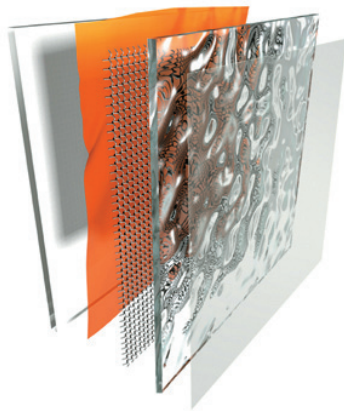
Hidden Point Support only works in Varia Ecoresin material with 1/4" minimum gauge (see page 3 for inter-layer considerations). Textured and embossed panels can be used, but the back surface where the inserts are installed must be smooth or have only a slight surface texture.

### Specifications

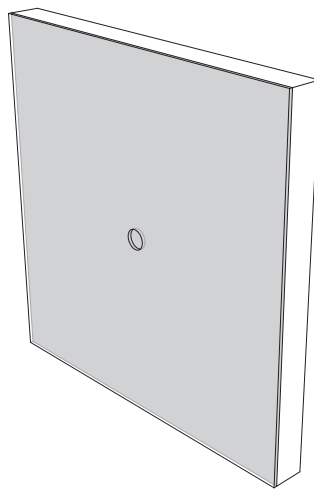
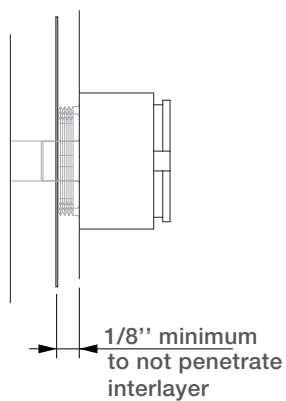
- We recommend the inserts be installed at the factory; however, they can be installed at the jobsite using the installation test kit. The kit includes the tools required to install: (2) extra inserts and (2) small panels to practice the installation prior installing on the final panels.
- It is important to position mounting holes accurately. An optional template can be provided to use for marking mounting locations.
- For vertical panel application or horizontal panel supported from below such as a shelf or countertop.
- Cannot be used for overhead applications.
- Minimum panel gauge: 1/4"
- Maximum panel gauge: 3/4" (5/8" and 3/4" limited to 4'x8' or smaller).
- Maximum weight per point: 25 lbs.
- See Versa and Point Support Solution document charts for recommended number of attachments on 1/4" and 3/8" gauge panels. All panels over 3/8" gauge should use the number of attachments specified for 3/8" due to weight considerations.



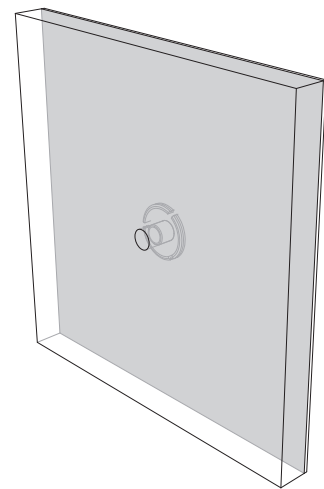
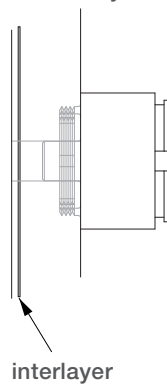
Varia Ecoresin Interlayer and Hidden Point considerations,



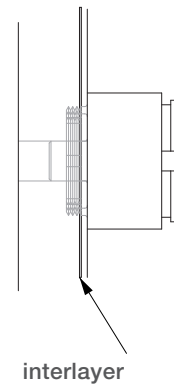
interlayers panel

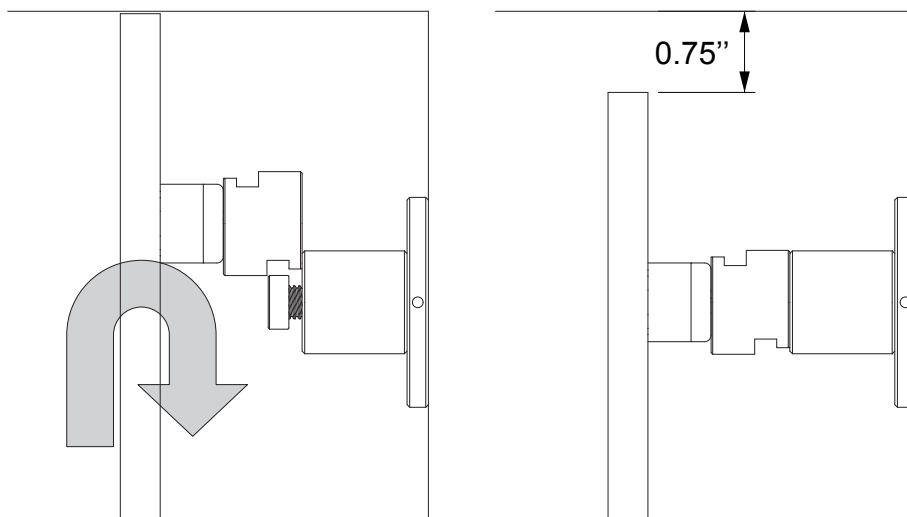


interlayer not penetrated  
(depending on opacity of interlayer  
Hidden Point may be visible)

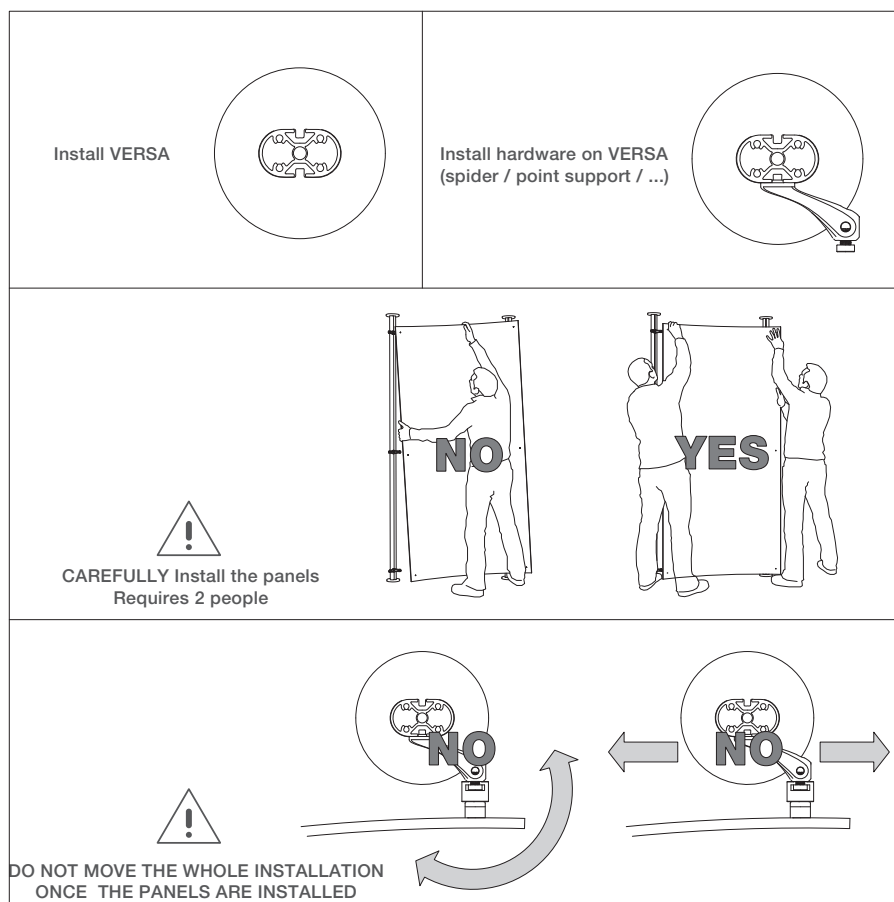


interlayer penetrated





Leave 3/4" minimum space on top for installation

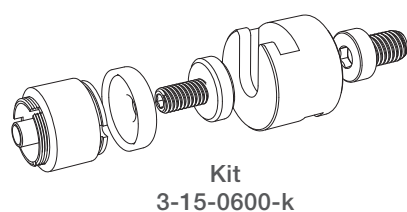




## Overview

### Hidden Point Insert

---



Silicone Insert Cap  
3-15-0601

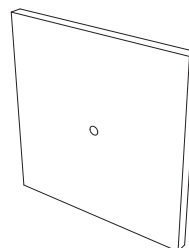
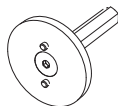
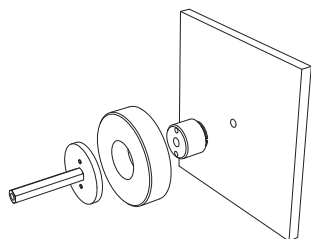


Wall Adapter  
3-15-0603



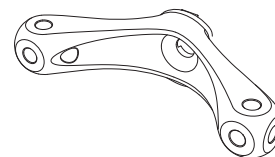
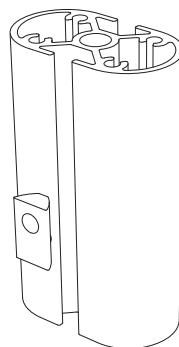
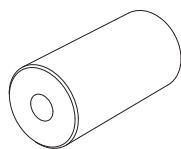
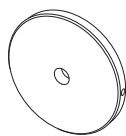
### Panel Insert Test Kit

---

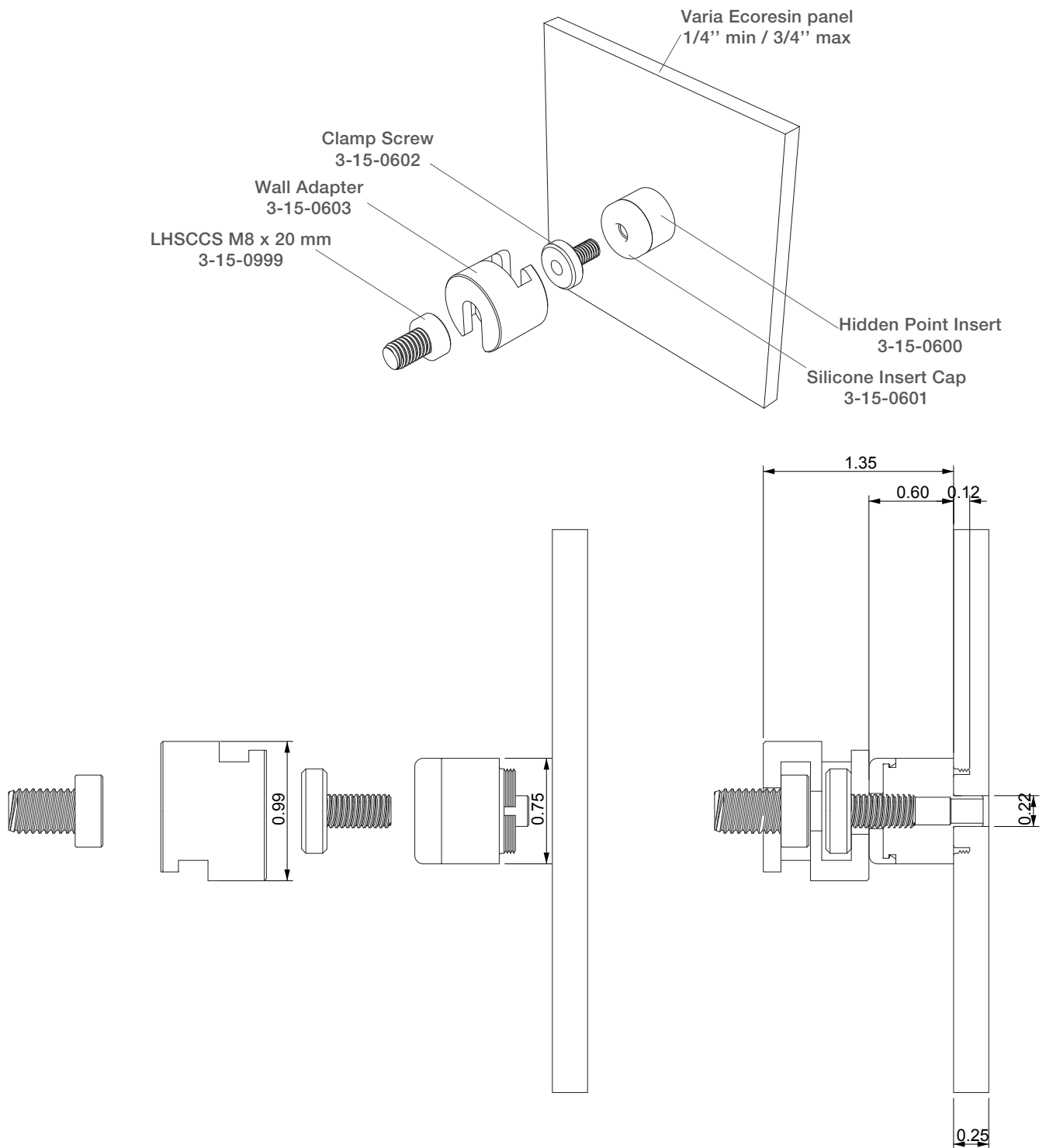


### Optional support examples















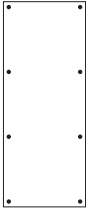

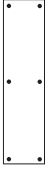
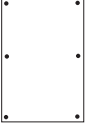
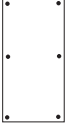



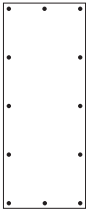


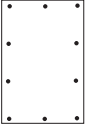
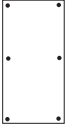



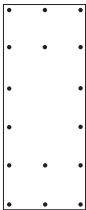
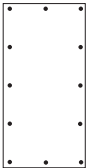

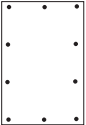
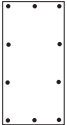



---



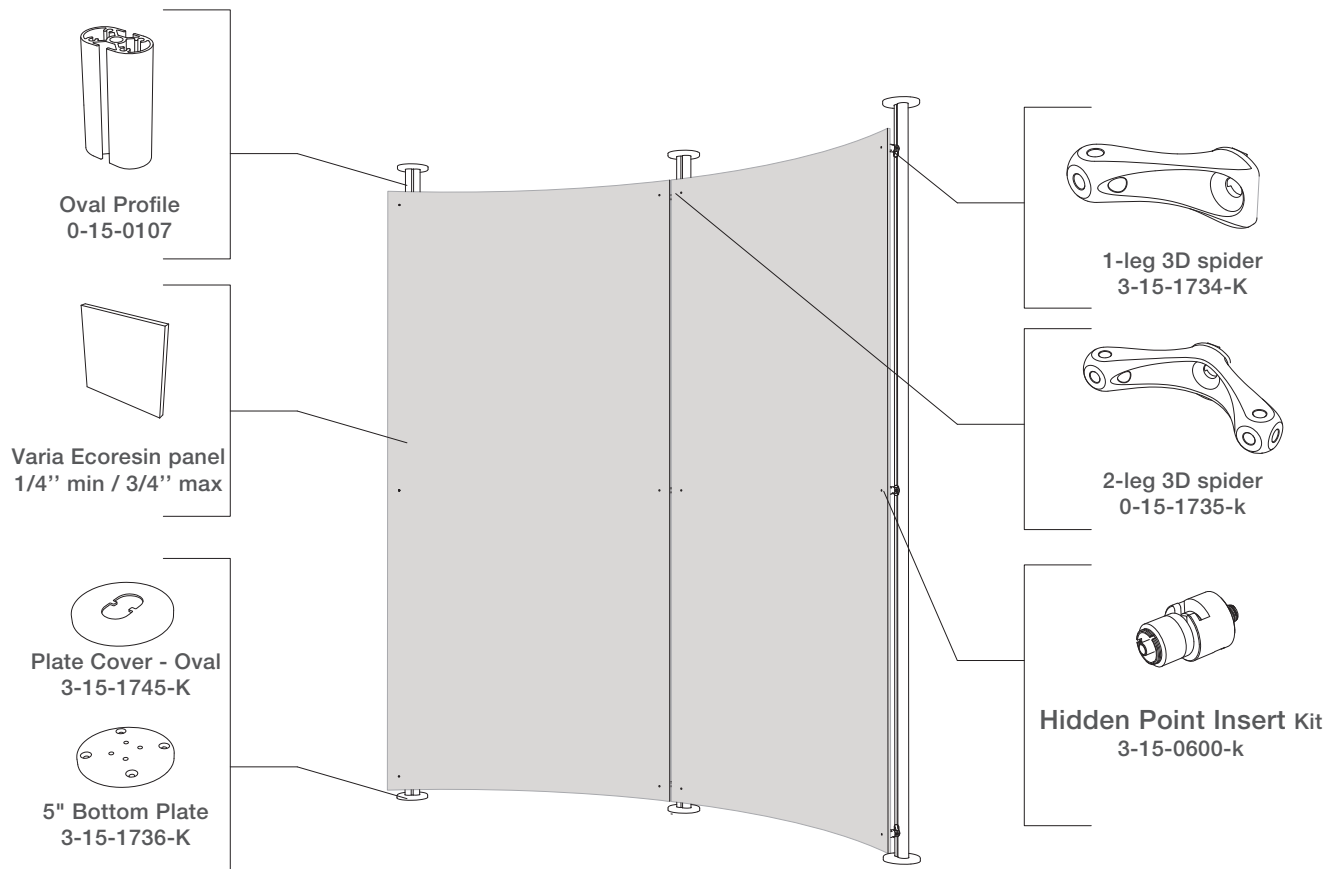
## General dimensions



Varia Ecoresin and Struttura Point Quantity requirements

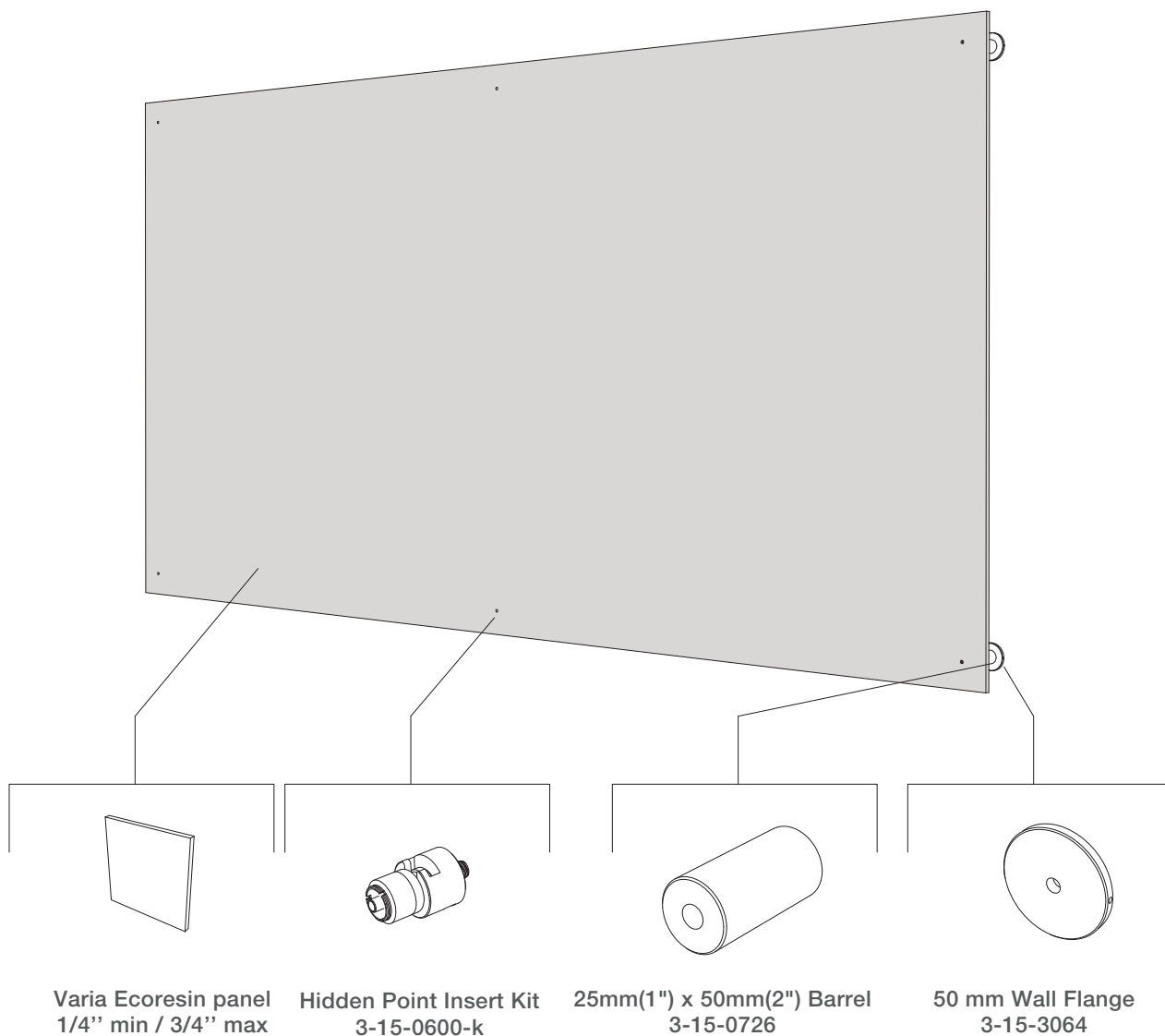
	4' x 10'	4' x 8'	2' x 8'	4' X 6'	2' x 6'	4' x 4'	3' x 3'	2' x 2'
NA								
5/8" or 3/4"								
1/2"								
3/8"								
1/4"								

## Typical Application on Versa



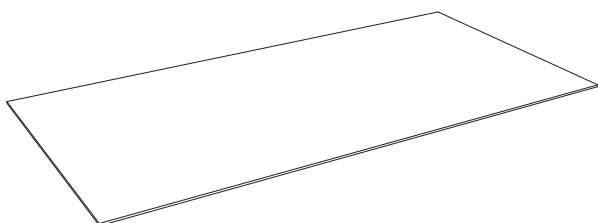
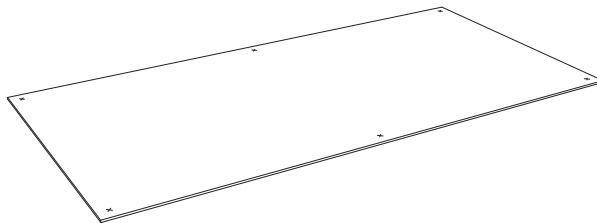
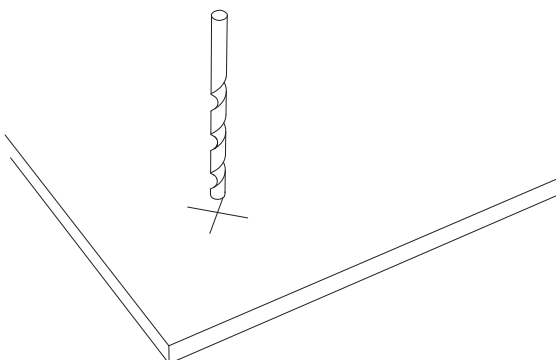
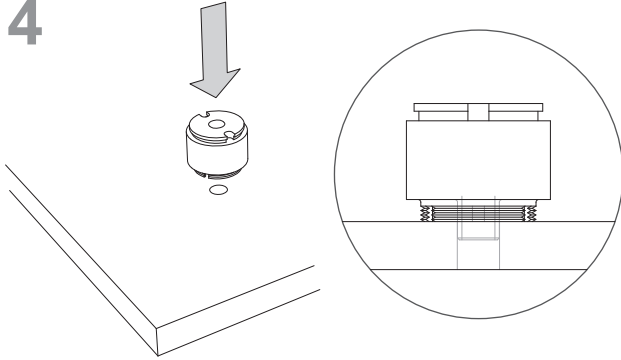


## Typical Application on Wall (Point Support)

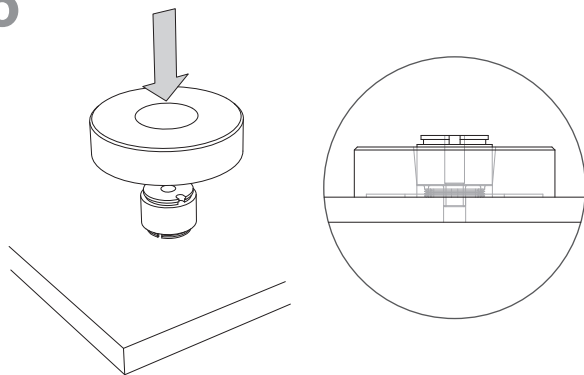


## Hidden Point Installation Instructions;

Note: It is critical that the Hidden Point insert kit (see page 16) be used to test and practice for this process prior to installation as panels can be damaged. Please note; it is recommended that these be installed at 3form Fabrication for optimal pull-out strength. However, if they must be installed onsite please use the following procedures.

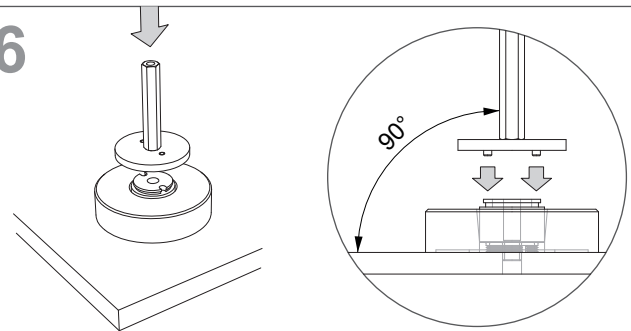
<div>1</div> <div></div> <div>lay panel face down being careful not to scratch or damage the surface</div>	<div>2</div> <div></div> <div>mark the hidden insert positions</div>
<div>3</div> <div></div> <div>Use a 7/32" drill bit to make the holes</div>	<div>4</div> <div></div> <div>Place the panel insert on the panel with the stem pressed into the drilled hole in the panel.</div>

**5**



Place Insert Guide over Panel Insert. Make sure bottom of guide is flush against panel. The top of the Panel Insert should extend about 1/8" out of the top of the guide.

**6**



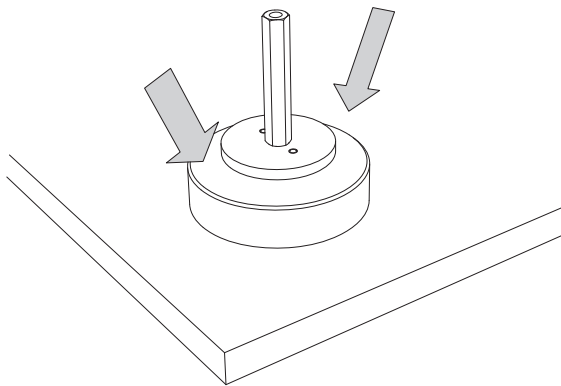
Insert the installation tool into a drill or power driver. A 1/4" socket on the end of a power driver also works well.

NOTE: Drill or driver should have a minimum speed of 1800 RPM.

Place the installation tool on to the panel insert making sure the pins in the tool engage with the holes in the panel insert.

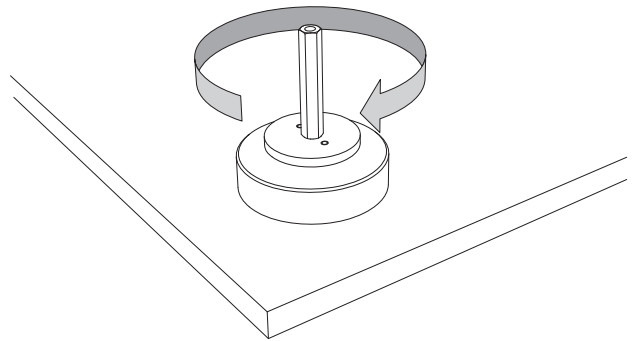
Make sure tool and insert are aligned perpendicular to panel before engaging trigger and starting rotation.

**7**



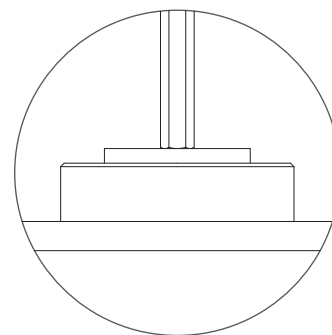
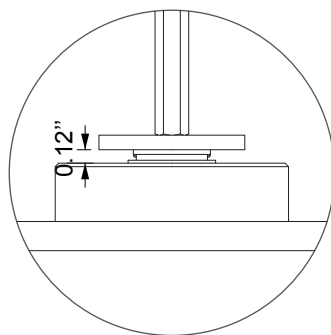
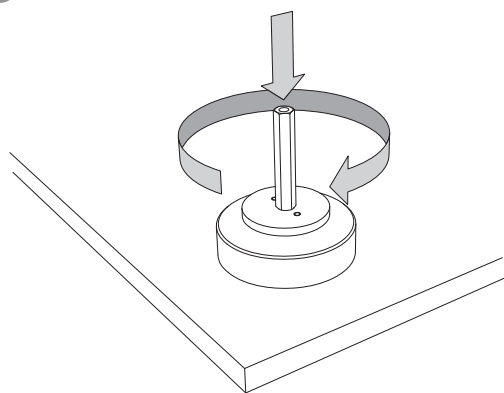
Hold on to installation guide to prevent it from rotating. If the guide is allowed to rotate it may scratch the panel.

**8**



Engage trigger on driver and allow insert to rotate at full speed (drill/driver is not shown in illustration).

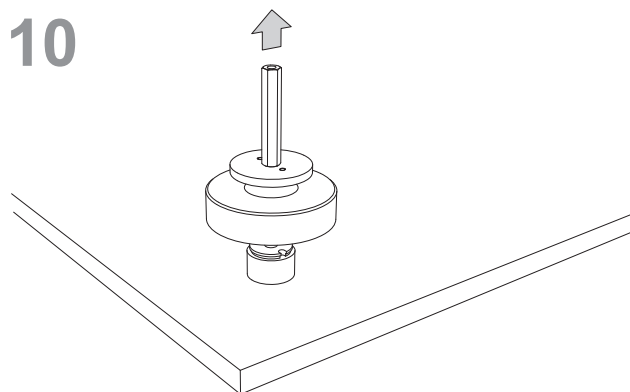
9



Apply very light pressure (mostly the weight of the driver) and spin the insert for about 5-10 seconds. This will allow the bottom of the insert to heat up and start to melt the varia.

Keep the tool rotating at full speed and apply downward pressure until the face of the tool is flush with the top surface of the installation guide.

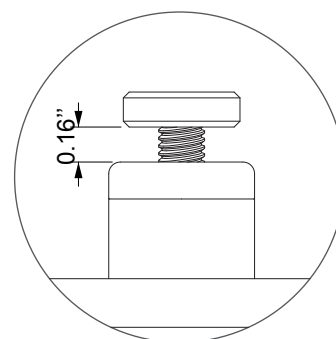
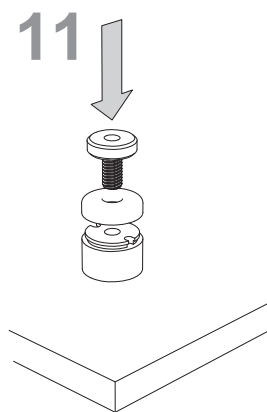
10



Release trigger and remove driver and installation tool. Allow installation guide to stay in place for 1-2 minutes.

Remove Installation guide. A small amount of the melted varia may have been between the insert and guide so you may need to rotate it a little to break it loose.

11



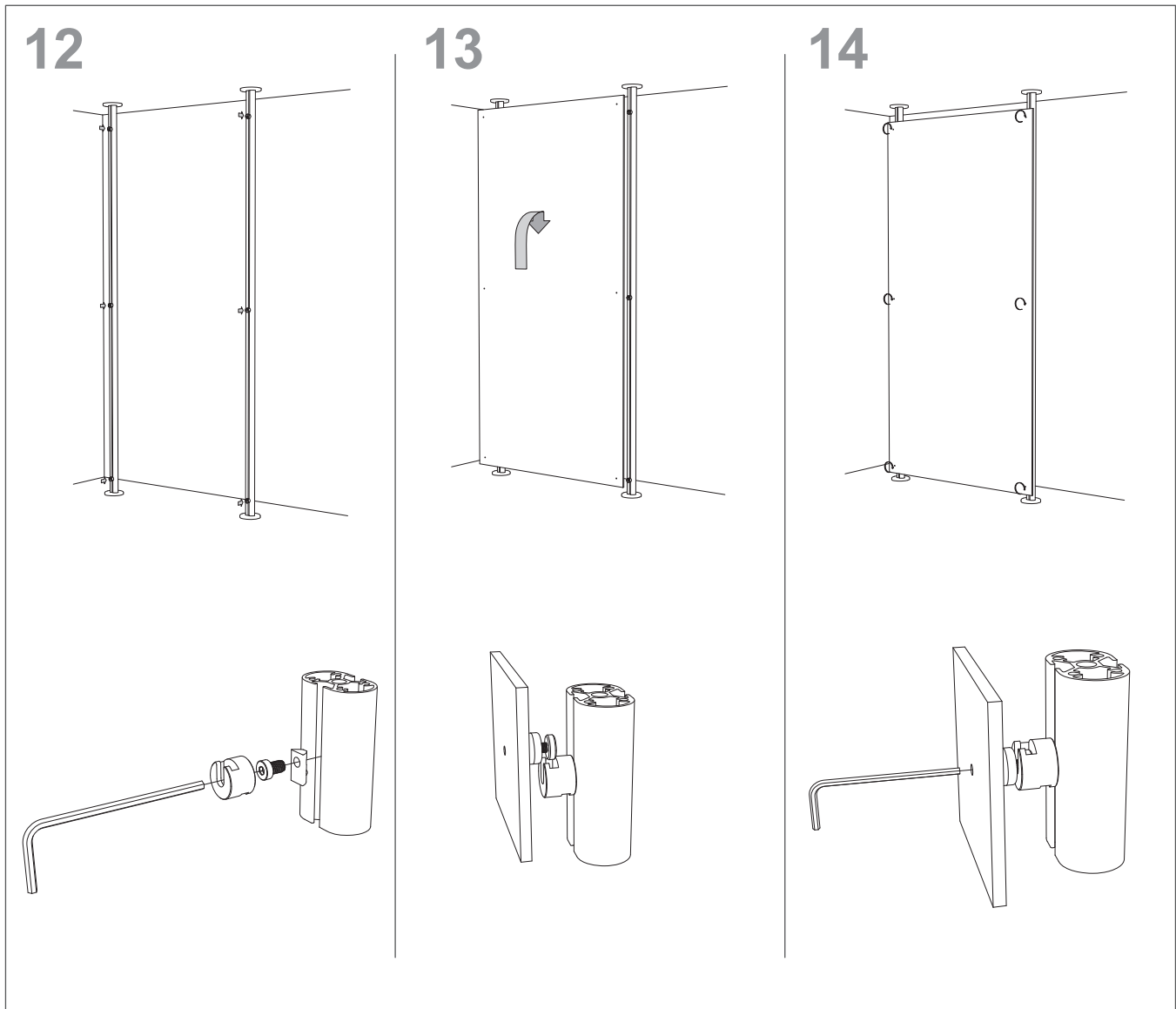
The panel insert should be flush at the bottom. A small amount of the Varia resin may be visible around the bottom of the panel insert.

**Hidden Point Panel on Versa Instructions;**

(For installation directly to the wall see page 14.)

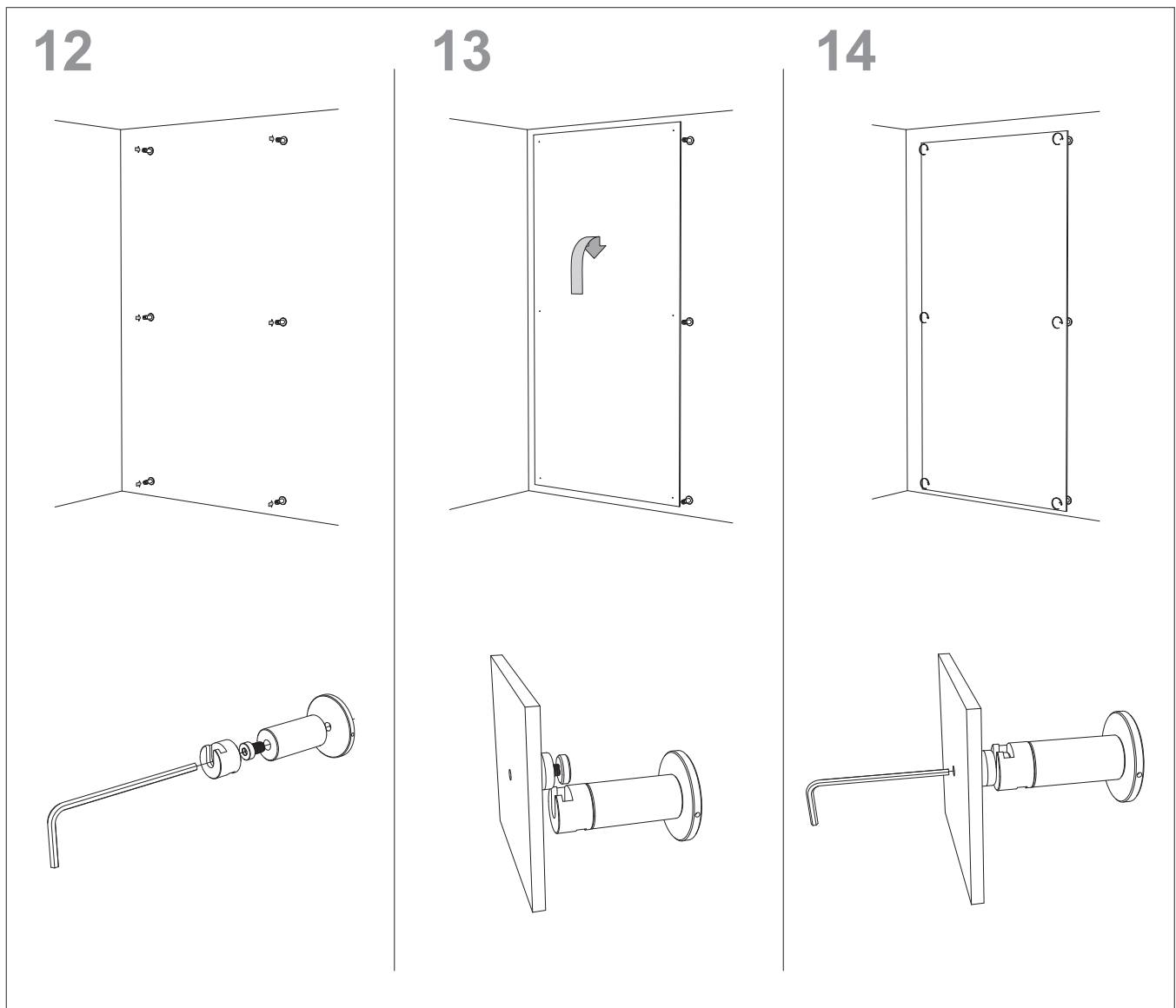
1. Install Versa posts in appropriate location and fasten to floor and ceiling.
2. Install point receiver on the Versa Posts using T-nut and fastener as shown.
3. On top two panel inserts place cap into the Hidden Point hardware embedded in the back of the panel.
4. Place the caps in the point receiver in all of the lower locations on the panel.
5. Gently lift the panel and drop into place with top (2) points temporarily taking the weight of the panel. Verify that the silicon gasket is still in place between the Hidden Point and the point receiver.
6. Using a hex key tighten the Hidden Point Cap to the point receiver (hand tighten only).

**Application on Versa**



**Hidden Point Panel Direct to Wall Instructions;**  
(For installation to Versa Posts see page 13.)

**Application on Wall (Point Support)**



## General Specifications: Slide01 Curve

### Milled Stainless Steel:

Including parts of; 3-15-0600-K

Specifications for milled aluminum for the Top Support product line are as follows;

Material:	304 Stainless Steel
Finish:	Mill Finish
	Powdercoating available, may not be feasible for all parts
Recommended Use	Interior Only
MSDS information	NA

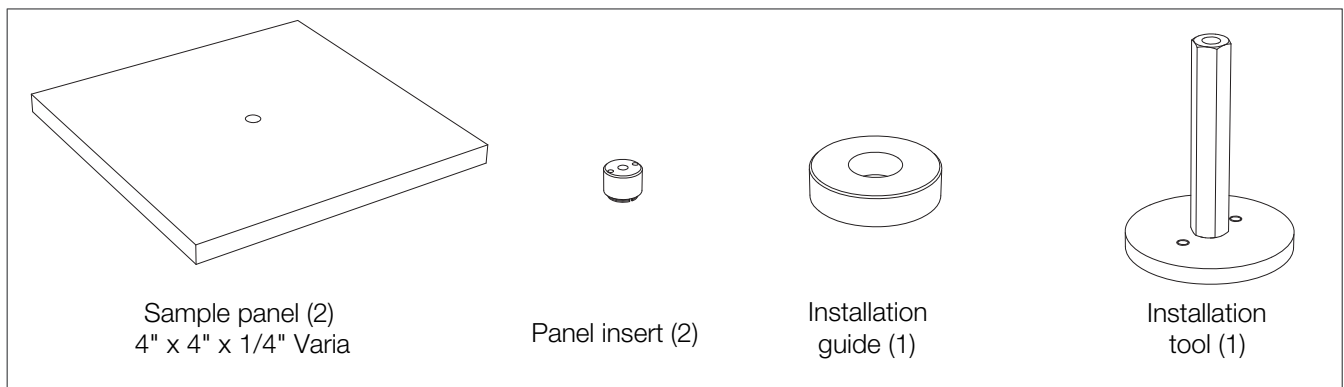


**Hidden Point Installation Kit Instructions;**

Note: It is critical that the Hidden Point insert kit be used to test and practice for this process prior to installation as panels can be damaged. Please note; it is recommended that these be installed at 3form Fabrication for optimal pull-out strength. However, if they must be installed onsite please use the following procedures.



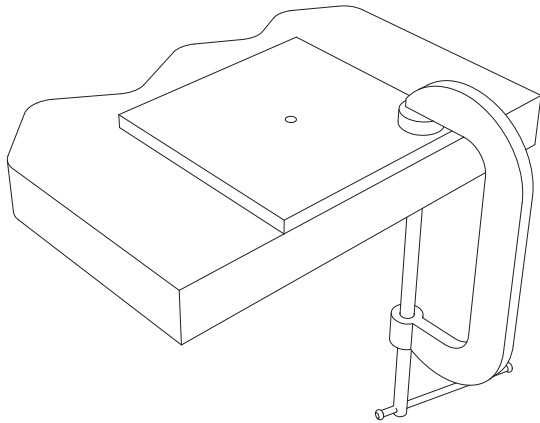
**Test panel installation instruction**



For more information, please visit [3-form.com](http://3-form.com) or call 800.726.0126

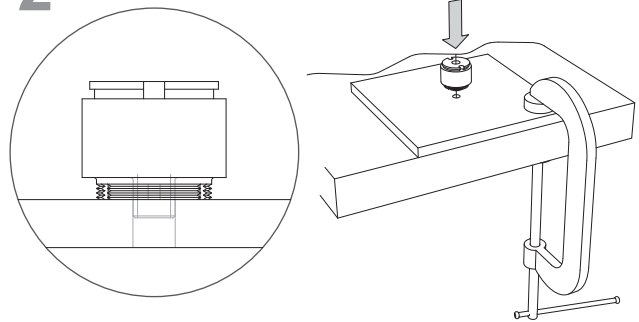
MAY 2011 | MAN - 031 - HIDDENPOINT | REV 002 © 2011 3form, Inc. All rights reserved.

**1**



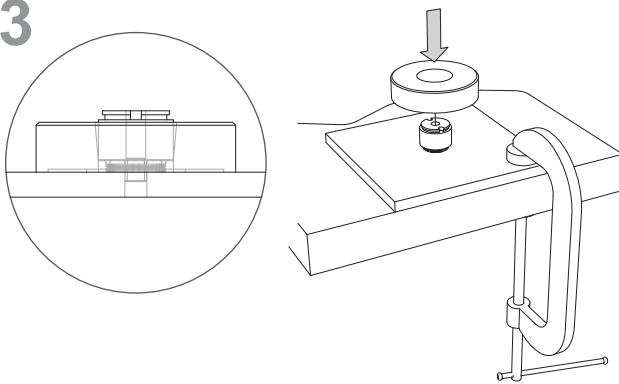
1a: Clamp 4" x 4" test panel to a table or bench top.

**2**



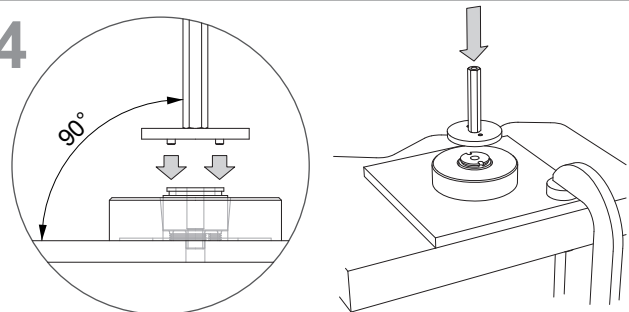
2a: Place the panel insert on the panel with the stem pressed into the drilled hole in the panel.

**3**



3a: Place insert guide over panel insert.  
3b: Make sure bottom of guide is flush against panel. The top of the panel insert should extend about 1/8" out of the top of the guide.

**4**



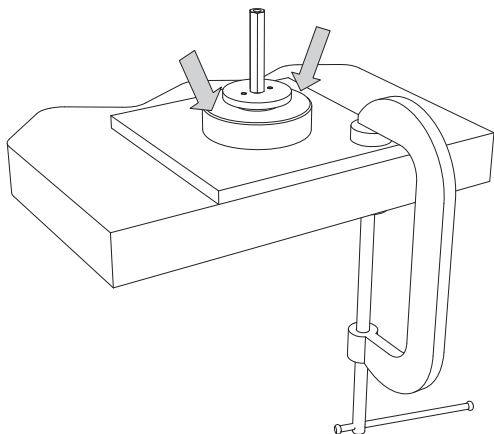
4a: Insert the installation tool into a drill or power driver. A 1/4" socket on the end of a power driver also works well.

NOTE: Drill or driver should have a minimum speed of 1800 RPM.

4b: Place the installation tool on to the panel insert making sure the pins in the tool engage with the holes in the panel insert.

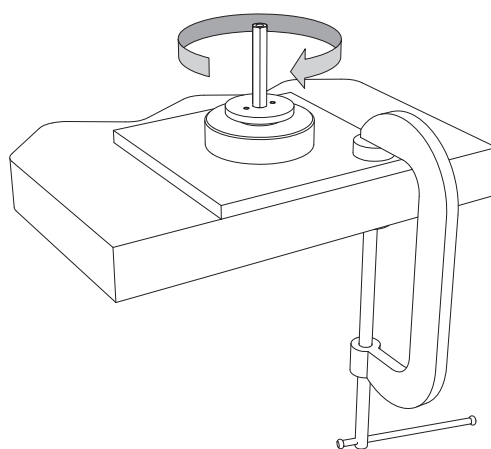
4c: Make sure tool and insert are aligned perpendicular to panel before engaging trigger and starting rotation.

**5**



5a: Hold on to installation guide to prevent it from rotating. If the guide is allowed to rotate it may scratch the panel.

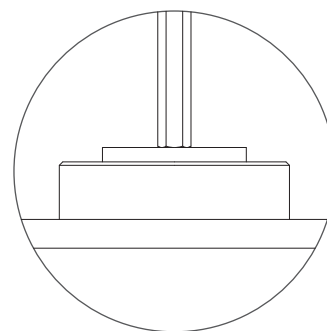
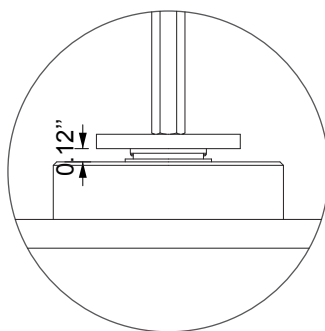
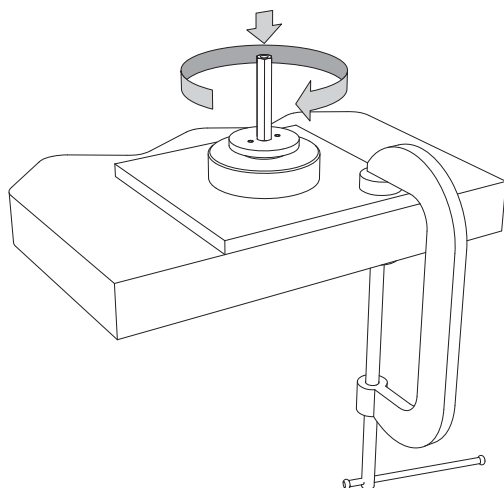
**6**



6a: Engage trigger on driver and allow insert to rotate at full speed (drill/driver is not shown in illustration).

**7**

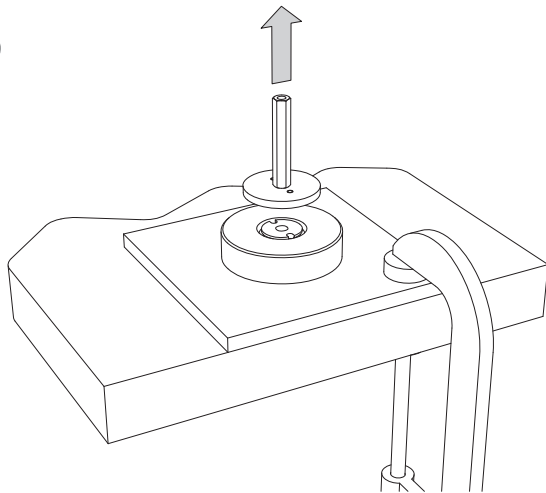
5-10 seconds



7a: Apply very light pressure (mostly the weight of the driver) and spin the insert for about 5-10 seconds. This will allow the bottom of the insert to heat up and start to melt the Varia.

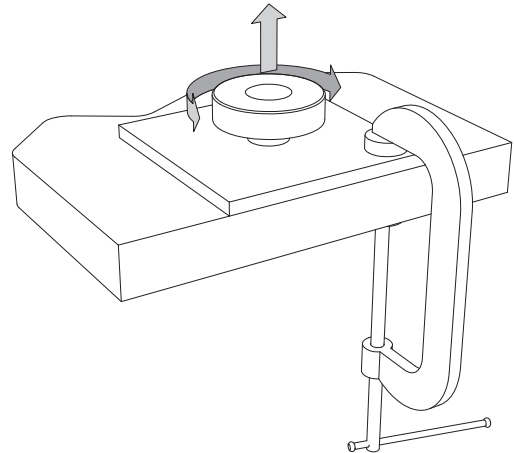
7b: Keep the tool rotating at full speed and apply downward pressure until the face of the tool is flush with the top surface of the installation guide.

**8**



8a: Release trigger and remove driver and installation tool. Allow installation guide to stay in place for 1-2 minutes.

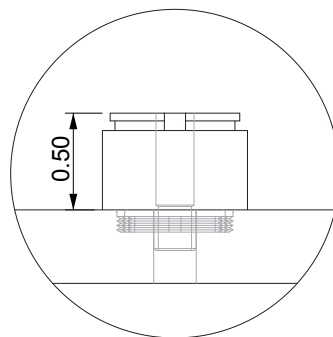
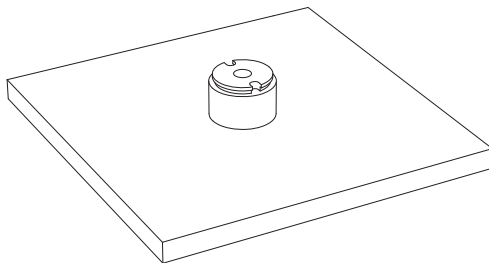
**9**



9a: Remove Installation guide. A small amount of the melted Varia may be between the insert and guide so you may need to rotate it a little to break it loose.

9b: Remove the clamp and you are finished.

**10**



10a: The panel insert should be flush at the bottom.  
A small amount of the Varia resin may be visible around the bottom of the panel insert.