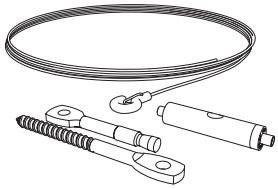


*Velo*  
**SimpleSpec 400.43™**

**Installation Manual**

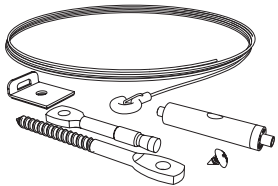
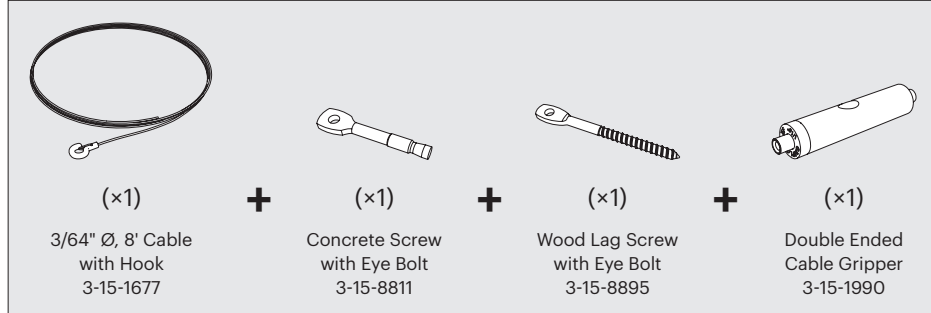


### Contents Overview



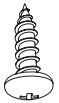
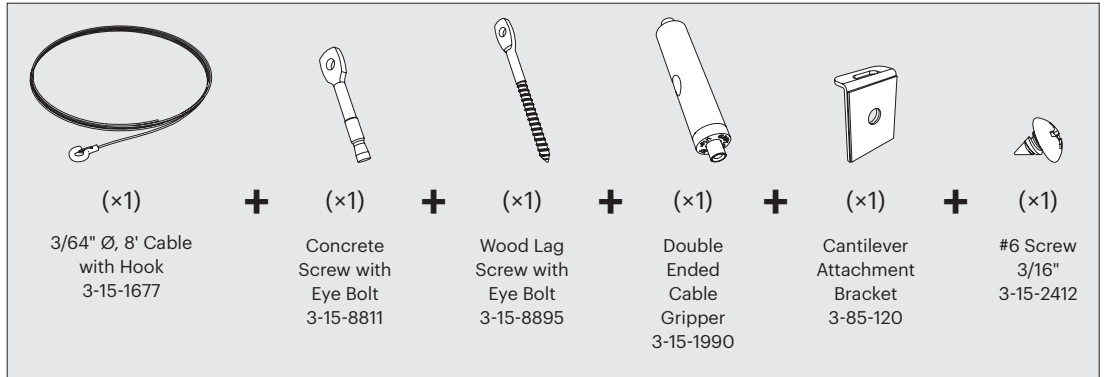
**Cable Loop KIT**  
3-15-1677-K

=

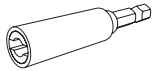


**Cantilevered Attachment KIT**  
3-85-120-K

=

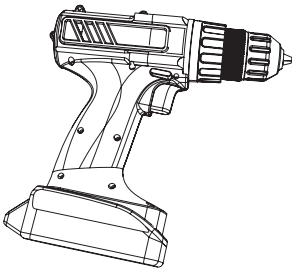


**Self-tapping Screw**  
3-85-105

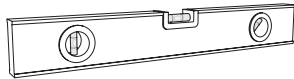


**Eye Bolt Lag Bit**  
3-15-8812

### Required Tools



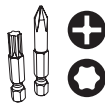
**Drill**



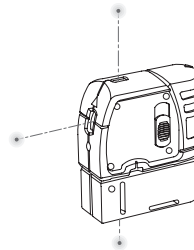
**Level**



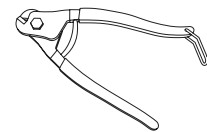
**Drill Bits**



**Phillips & Torx Bits**



**Laser Level**



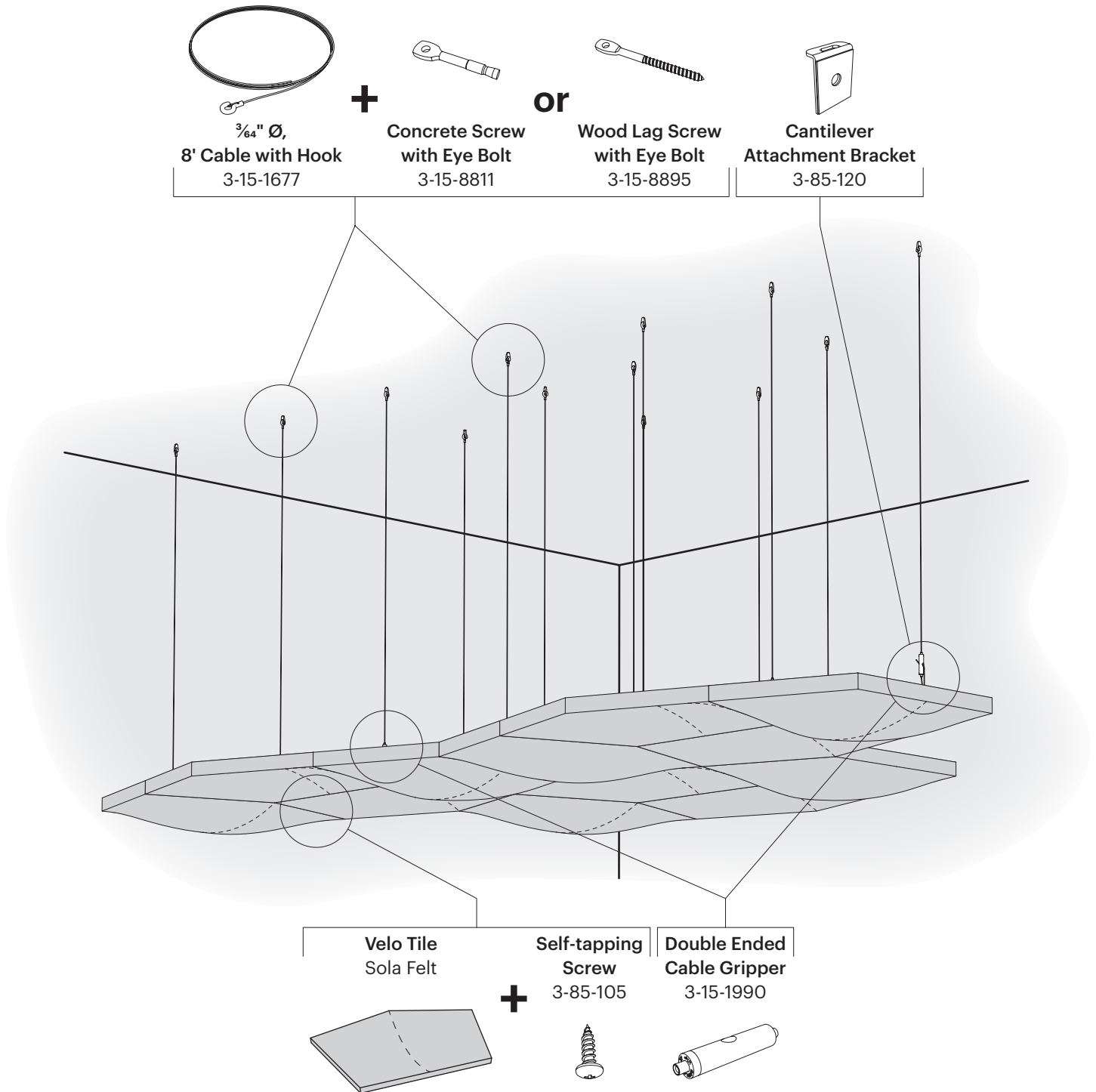
**Cable Cutters**



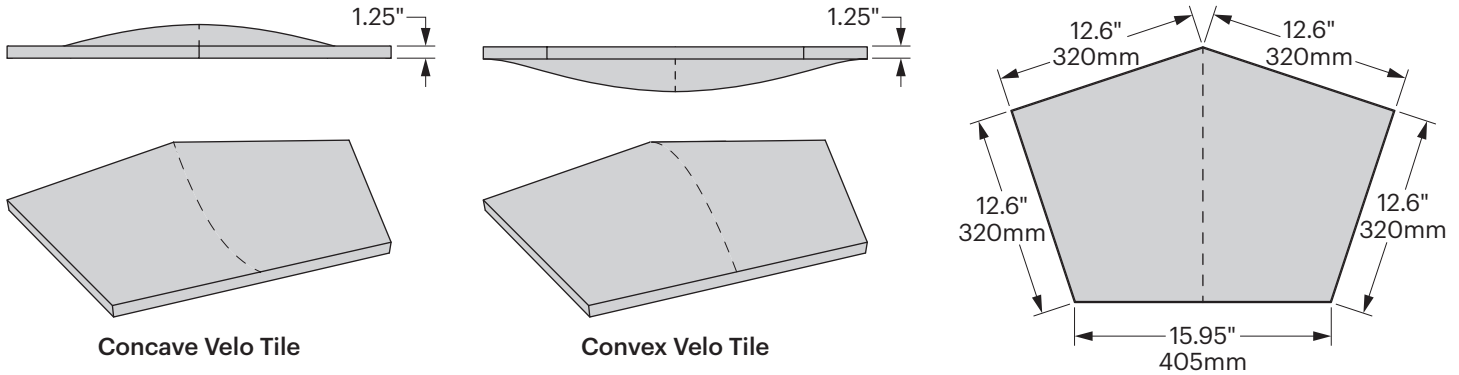
**Glue**

### Overview

Velo tiles are available in Sola Felt colors in a concave or convex shape. Use the on-line configuration tool to mix and match colors and shapes to create a unique cloud installation.



## Overview



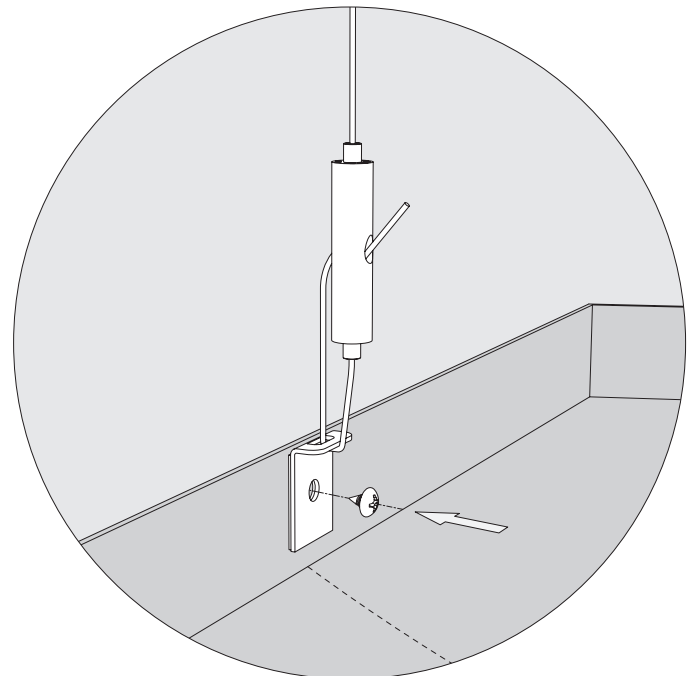
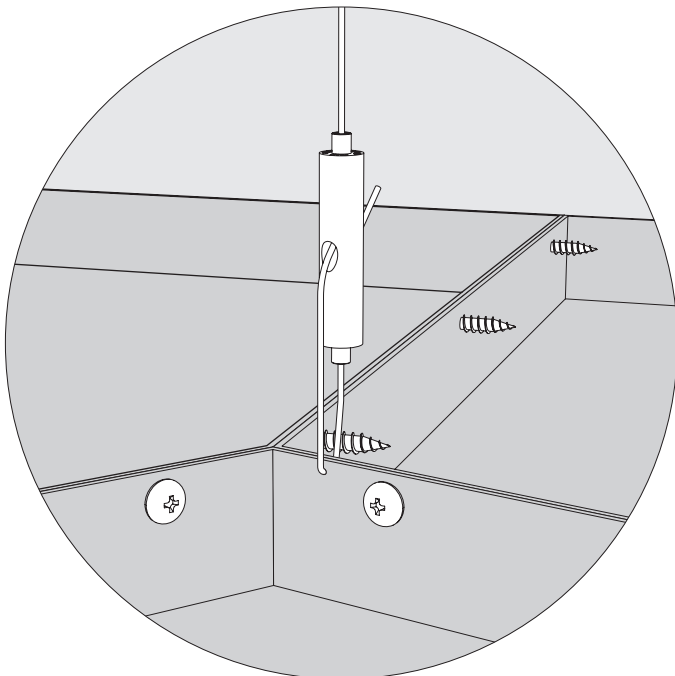
## Attachment Types

### Looped Attachment

Uses 3-15-1677-K for locations internal to the layout. Can be used at cantilevered edges if cable splay is  $\pm 10^\circ$  is required.

### Cantilevered Attachment

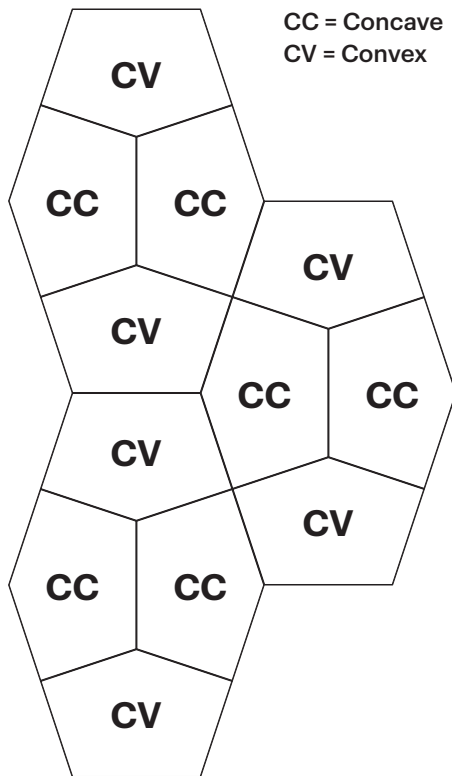
Uses 3-85-120-K for locations at cantilevered edges that need support. Typically at locations with  $\leq 2$  adjacent shaped tile edges. Uses VHB tape and a screw (3-15-2412) to attach tiles. **Cable splay must be within  $\pm 10^\circ$  of vertical.** Provides a blind connection detail at edges of installation where more support is needed for cantilever.



## Installation

### 1 Preparation

- a** Layout Velo tiles on the ground in specified or desired pattern. Make note of which tiles are concave vs. convex and their placement within the pattern.

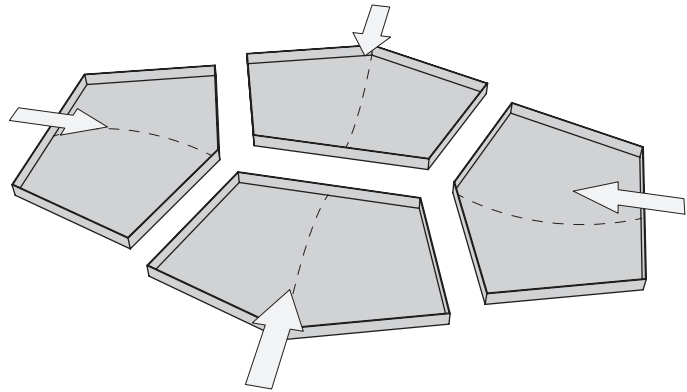


*\* Note that this configuration is for illustration purposes only*

### 2 Cluster Tiles

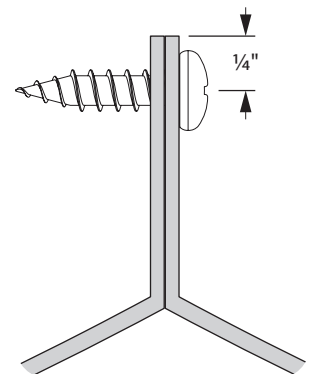
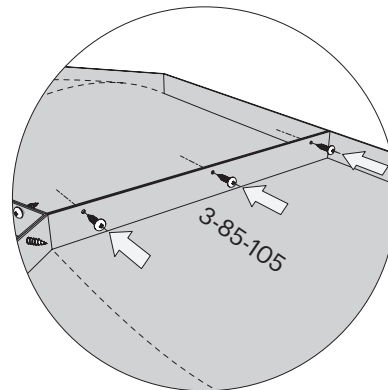
- a** Assemble the tiles into manageable sized clusters for assembly.

Clusters should not be larger than 4 tiles.



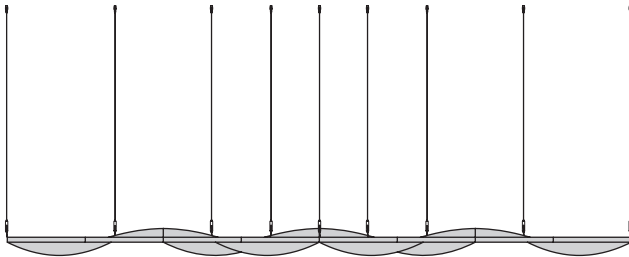
- b** Use self-tapping screws (3-85-105) to connect tiles (3 per side).

*Don't over-run/over tighten screw.*



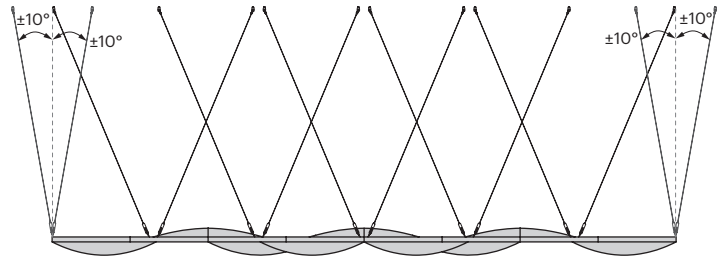
## Installation

### 3 Position and Mark Mounting Locations

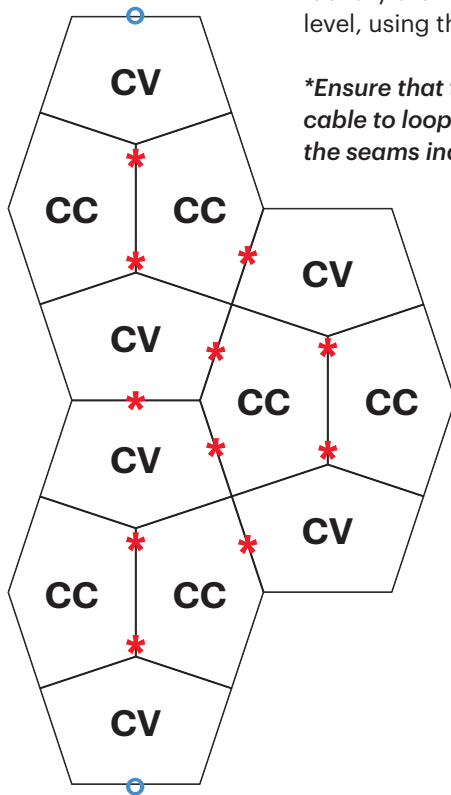


Cables can be hung perpendicular to the ceiling.

or

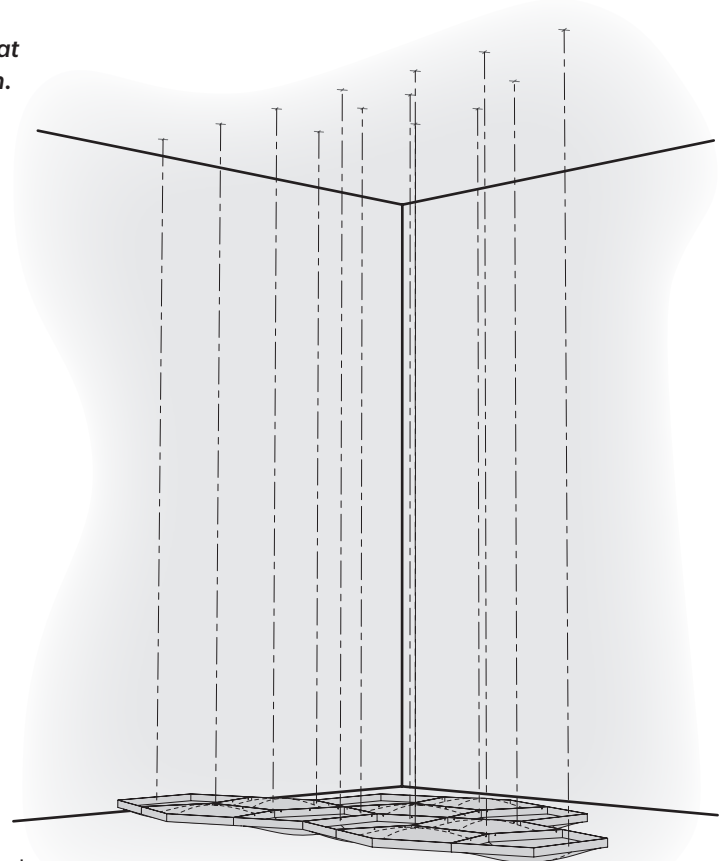


Cables can be splayed out at various angles to reduce seismic and airflow movement.



Identify the Eye Bolt location in the ceiling for each cable location. This can be done with a laser level, using the shape on the floor as a reference for cable location.

*\*Ensure that there are holes for the cable to loop through the Velo tiles at the seams indicated on the diagram.*



Red \* = Looped Attachment (3-15-1677-K)

Blue o = Cantilevered Attachment (3-85-120-K)

If there are  $\leq 2$  shared edges, this will require a cantilevered attachment.  
See additional examples on the following page.

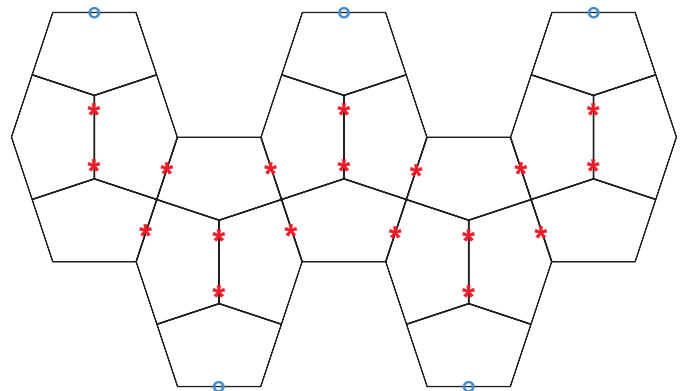
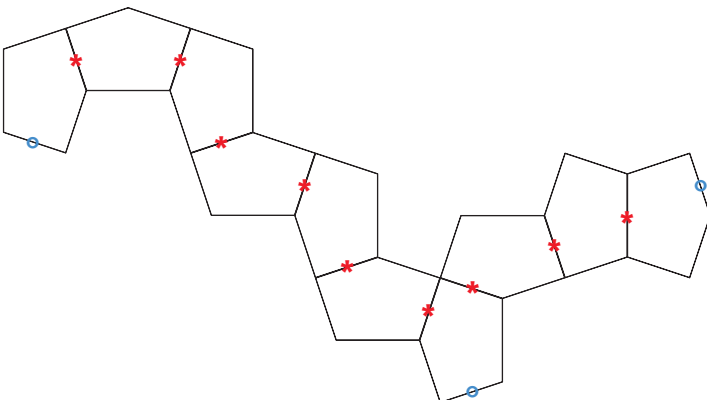
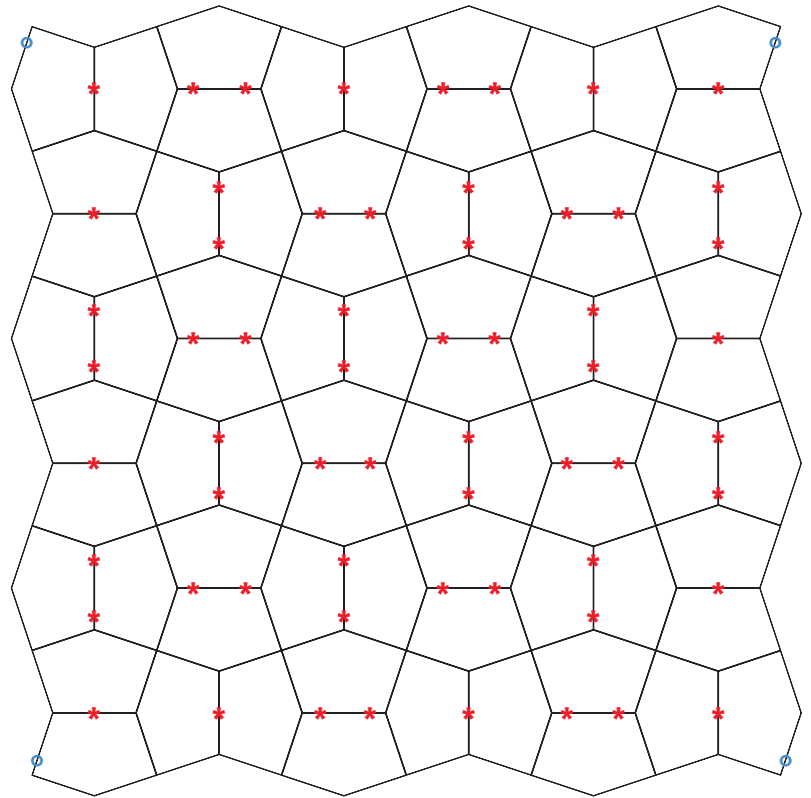
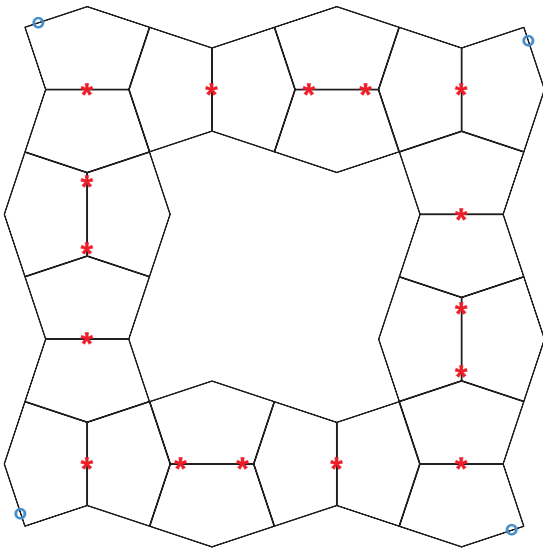
### Installation

## 3 Position and Mark Mounting Locations *cont...*

Red \* = Looped Attachment (3-15-1677-K)

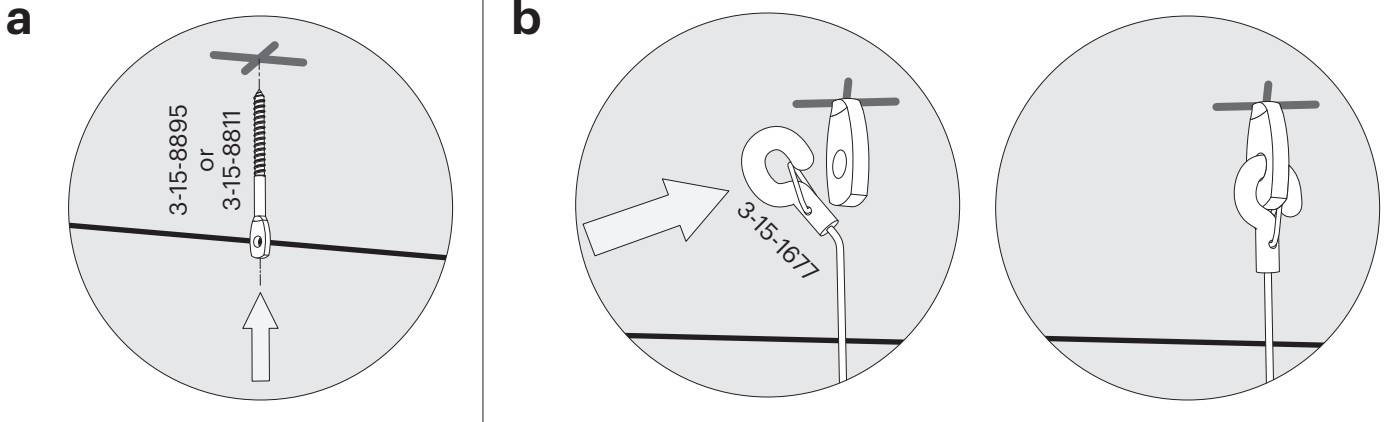
Blue ○ = Cantilevered Attachment (3-85-120-K)

If there are  $\leq 2$  shared edges, this will require a cantilevered attachment.



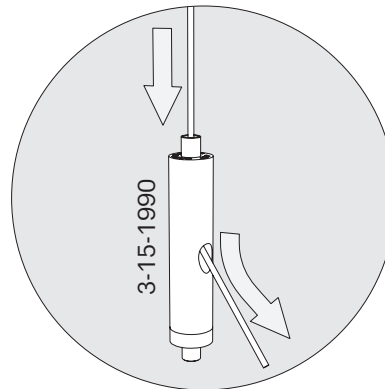
## Installation

### 4 Install Cables and Eye Bolt into Mounting Surface.



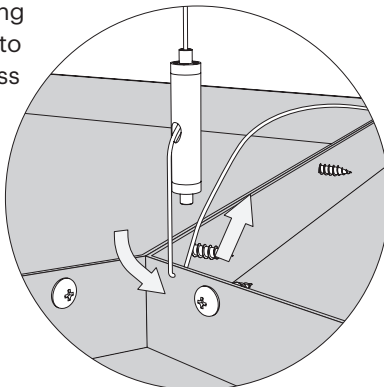
- C** Thread the double ended gripper onto the cable. This component will create the adjustable loop that the Velo feature will hang from (the position can be adjusted after hanging; but consider for larger installations, leveling your inner sections and moving outward).

The double ended gripper can be adjusted by easily sliding in one direction and then by compressing down the plunger and sliding the gripper along the cable when moving it 'up' the cable.

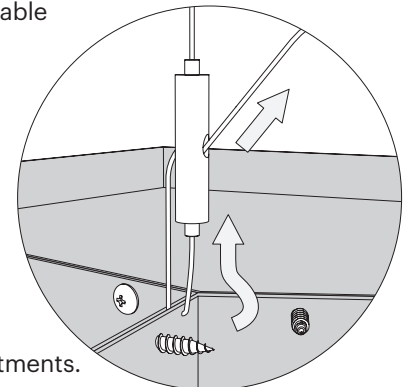


### 5 Attach Velo Tiles to the Cables with Looped Attachment Only

- a** While supporting the feature, as to not place excess strain on any connected joint, lift the feature off the ground and thread the cable through the pre-drilled holes.



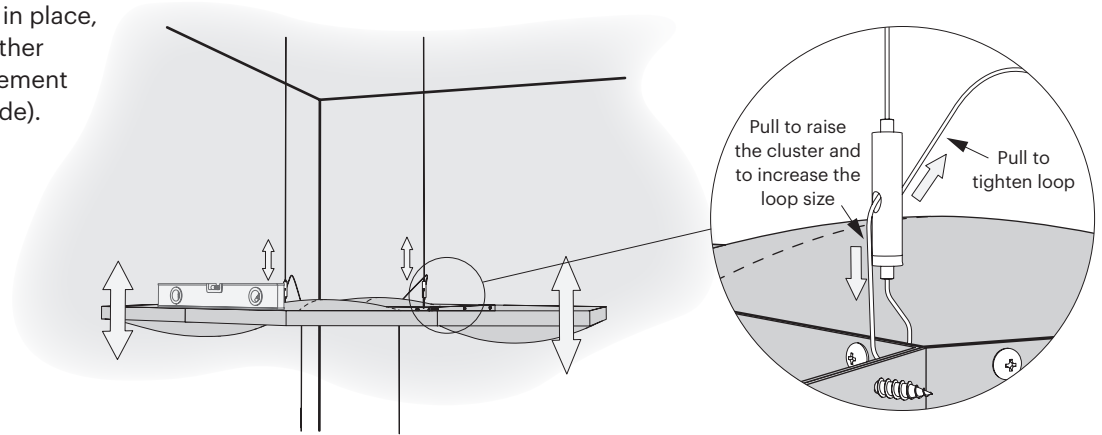
- b** Thread the loose end of cable back through the double ended gripper. This loop can be adjusted by releasing the cable, pushing the plunger down or pulling on the loose end of the cable to tighten the loop. Make sure the gripper doesn't have any weight hanging while making these adjustments.



## Installation

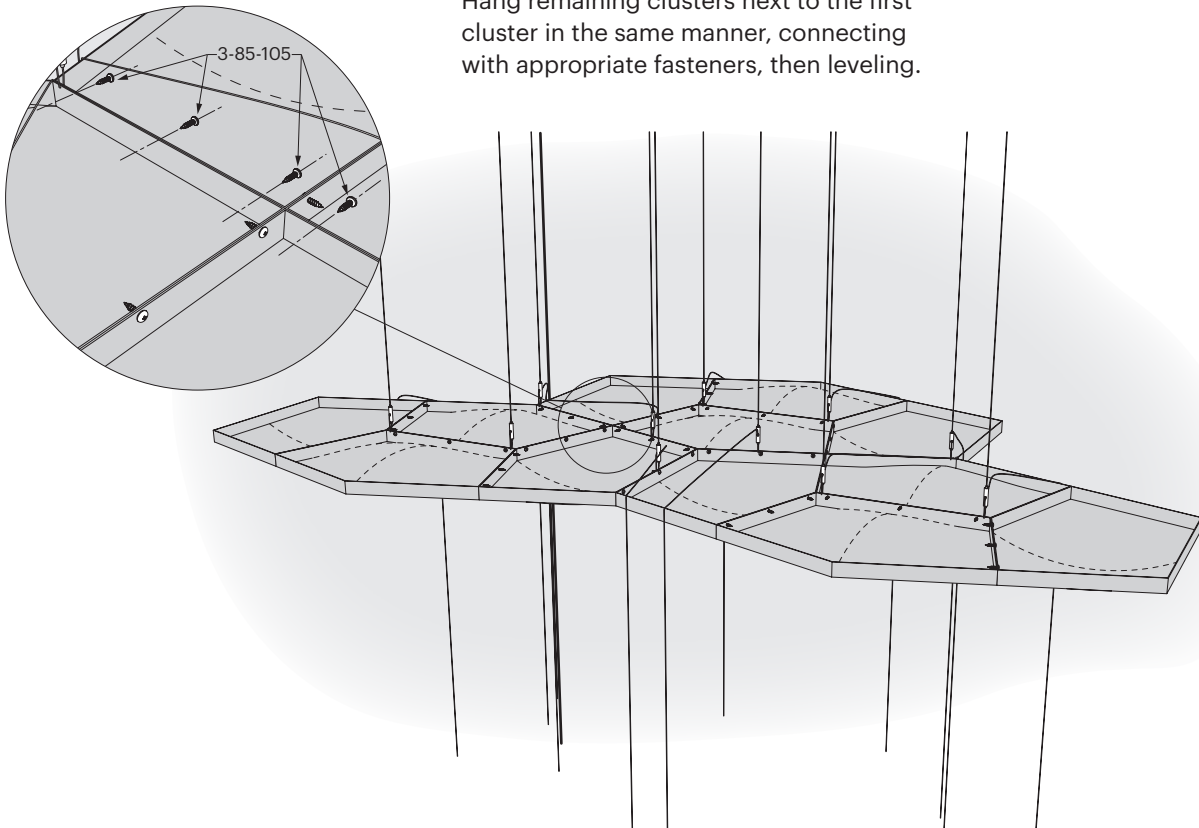
### 6 Level the Cluster

With the first cluster hung in place, level it with the gripper (either adjusting the gripper placement on the cable or the loop side).



### 7 Hang Additional Clusters

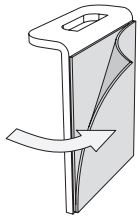
Hang remaining clusters next to the first cluster in the same manner, connecting with appropriate fasteners, then leveling.



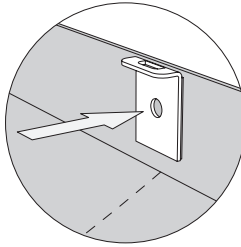
## Installation

### 8 Attach Cantilevered Attachment Brackets

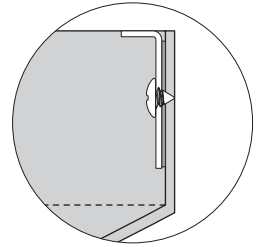
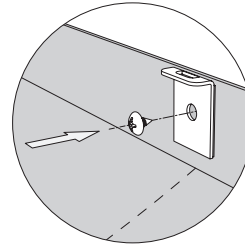
- a** Remove adhesive backing.



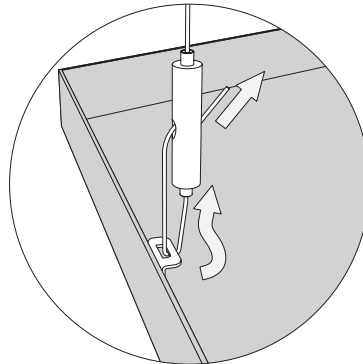
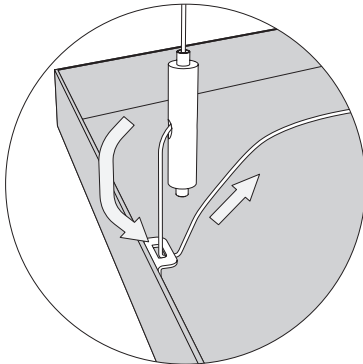
- b** Wipe tile clean before applying bracket. Firmly press for 8-10 seconds to engage adhesive to Velo Tiles. It is best to wait 1-2 hours before hanging weight on this connection to ensure the best bond strength (and 24 hours for optimal strength).



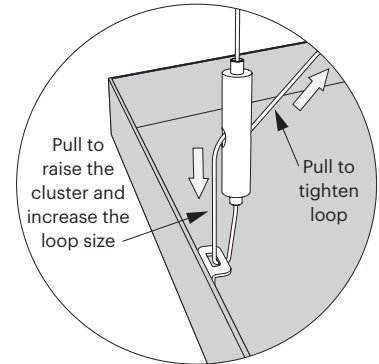
- c** Use a screw (3-15-2412) to attach for a better connection. Screw through adhesive into felt. **Hand tighten and do not strip!**



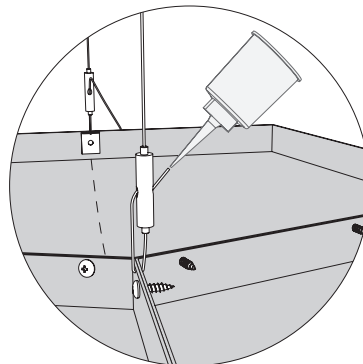
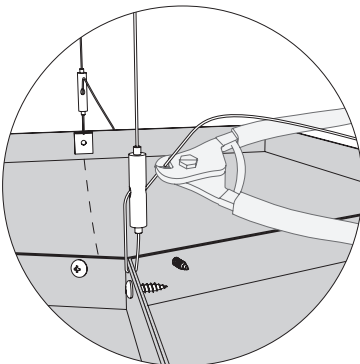
- d** Loop cable through bracket, with the cable position  $\pm 10^\circ$  of vertical. If the cable can't be set within this range, omit adhesive bracket and drill a hole in the edge of the tile to create a looped connection.



- e** Level tiles at edges.



### 9 Cut Cables and Glue Ends



## Product Description

### Features and Benefits

- Variety of color options
- Noise Reduction Coefficient (NRC) of 0.80
- Cost-effective decorative feature
- Easy to specify
- Easy to install

### Available Colors

Velo can be specified in a variety of color options.

See 3form's Sola Felt colors at:

<https://www.3-form.com/materials/sola-felt>

### Flammability and Smoke Test Results

*Building Code Approvals*

Sola Felt has been independently tested and meet the criteria for approved interior finishes as described in the 2018 International Building Code®.

| Test  | Sola Felt | Result                         |
|---|-----------|--------------------------------|
| ASTM E84<br>Flame Spread, 1/4" thickness<br>Smoke Generated                             | 10<br>105 | Class A: 0-25<br><450          |
| CAN/ULC 102.2 TRIPLICATE<br>Rounded Flame Spread (FSR)<br>Rounded Smoke Developed (SDC) | 75<br>200 | See Building<br>Code of Canada |

### Sound Absorption Test Results

| Material | Test - ASTM C 423           | Result |
|----------|-----------------------------|--------|
| Felt     | Noise Reduction Coefficient | 0.85   |
| Felt     | Alpha - W                   | 0.85   |

### Panel Weight

| Weight        |
|---------------|
| 1.02 lbs/tile |

### Cleaning Instructions

Velo Tiles should be cleaned periodically. A regular, seasonal cleaning program will dramatically help prevent noticeable weathering and dirt build-up.

To remove airborne debris and dust, it is recommended to periodically vacuum Velo Tiles. Please note the slight shedding of fibers from the Felt is normal and not indicative of any defect.

To treat liquid stains, remove spills immediately using a clean damp cotton cloth or with detergent soap and warm water. Carpet and fabric cleaners can usually be used; always test an inconspicuous area before the actual stain.

#### Do:

- Vacuum or use a soft brush to clean Velo Tiles

#### Do not:

- Use strong solvents, highly alkaline or abrasive cleaning agents.
- Do not completely saturate module with cleaning solution or water.