

Create fluid motion and dynamic presence with 3form Shapes and Twists. Design intimate or expansive installations with formed panels matching edge-to-edge using four separate Continuous Patterns. For a more artfully arranged installation, use any combination of our Sculptural Forms or infinite combinations of Twists. Shapes, Twists, and their compatible hardware have limitless compositional possibilities.



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General Overview



Thirty-eight shapes are available. These are presented below as Sculptural Forms, Continuous Pattern Shapes, and Twists. The key differentiation being that Continuous Patterns are “linkable” Shapes that have been modeled and designed to edge match with one another while Sculptural Forms and Twists are unique.

Continuous Patterns



Flow A
page 4



Flow B
page 4



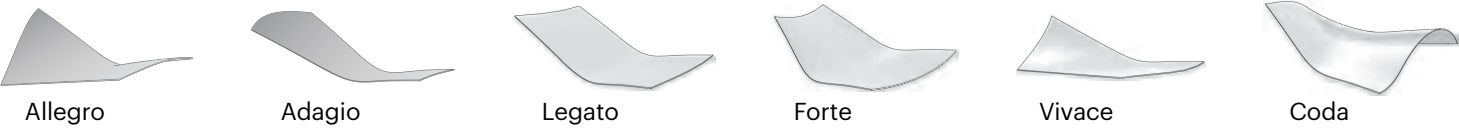
Valley
page 5

When Continuous Pattern will be used to match side-by-side, 6 points of attachment must be used to prevent any deflection in the shape. If you want to use a Continuous Pattern Shape but not in a continuous installation (e.g. randomly placed), you can use only 4 points of attachment, and therefore the shapes should be specified with 4 holes. When specifying your Continuous Pattern Shapes, please designate whether you want 6 points of attachment (6 holes) or 4 points of attachment (4 holes), and what type of hardware you will be using so the appropriate hole type is used. No holes for these Shapes is the default due to various potential installation conditions.

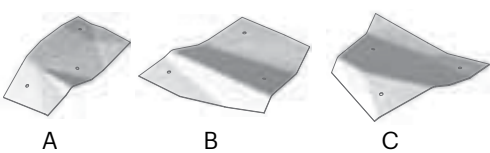
General Overview

Sculptural Forms

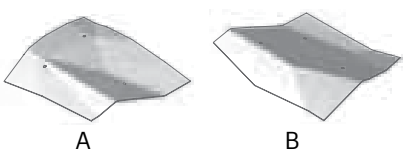
Symphony pages 6 - 7



Alta 3S page 8



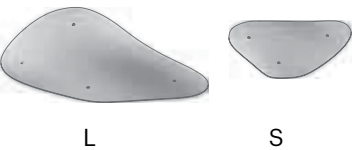
Alta 2M page 9



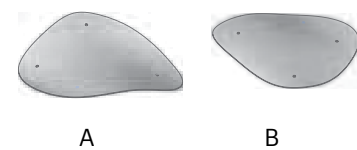
Flag page 10



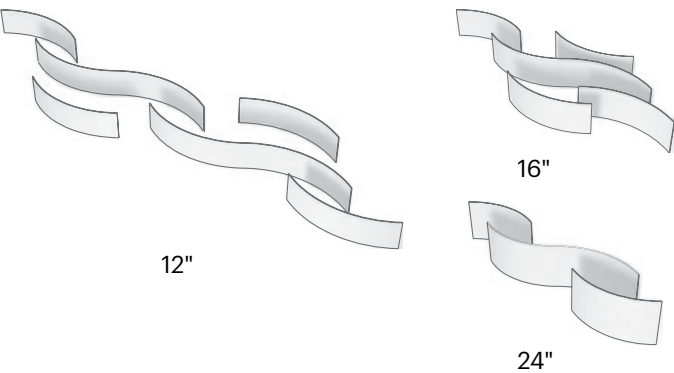
Solitude LS page 11



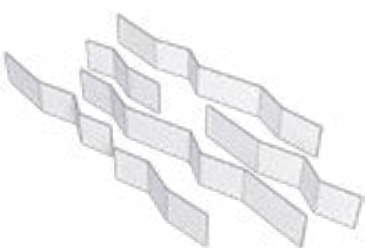
Solitude 2M page 12



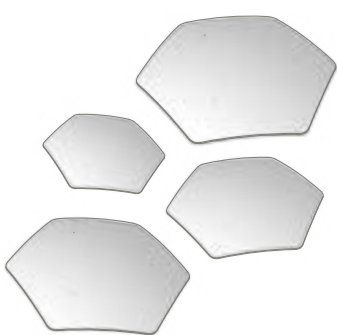
Sails page 13



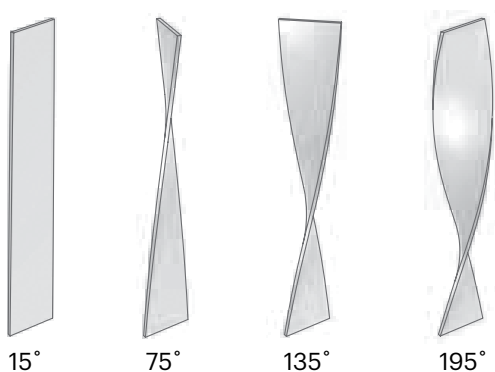
Crimp page 14



Parasol page 15



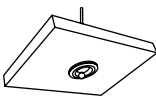
Twists page 16



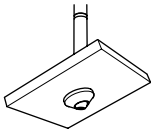
General Overview

Hardware Options

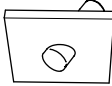
Additionally, there are several hardware options to choose from:



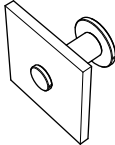
Bottom Release Gripper
page 18



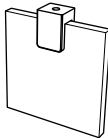
Variable Angle Standoff
page 19



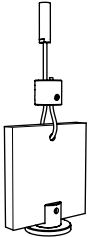
Angled Standoff Adapter
page 20



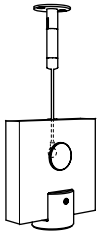
Point Support
page 24



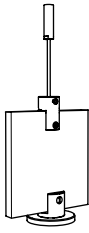
Surface Bracket (smooth collection)
page 21



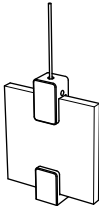
Cable Loop
page 22



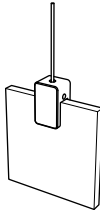
Twist Insert
page 23



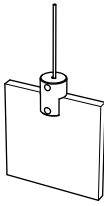
Top Gripper (t & b) (curve collection)
page 21



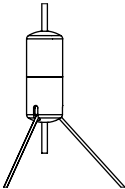
Top Gripper (t & b) (smooth collection)
page 21



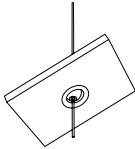
Top Gripper (smooth collection)
page 21



Top Gripper (curve collection)
page 21



Sputnik*
page 25

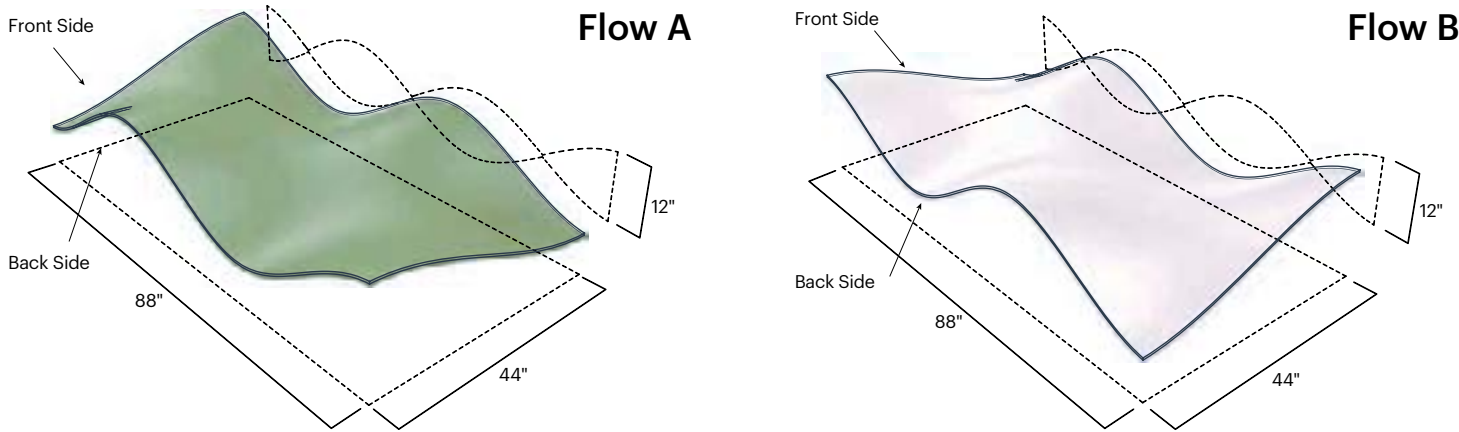


Mini Ball Gripper with Safety Nut*
page 25

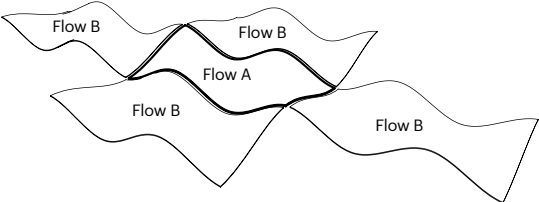
*Only available for use with Parasol Shapes

You may select the rod and Variable Angle Standoff or the Bottom Release Gripper w/cable option for any suspended Shape. Also, the Flow A and Flow B Shapes may be used with an Adapted Standoff washer to allow it to be installed vertically off a wall.

Continuous Patterns - *Flow*




General Information	
Gauge:	3/8"
Finish available:	Sandstone or Patent
Holes drilled at 3form by default:	No



Hardware Available:

Wall:


standard



works in conjunction with Point Support using 6" barrels and wall flange.

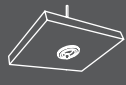
Ceiling:

standard




Variable Angle Standoff

standard



Bottom Release Gripper

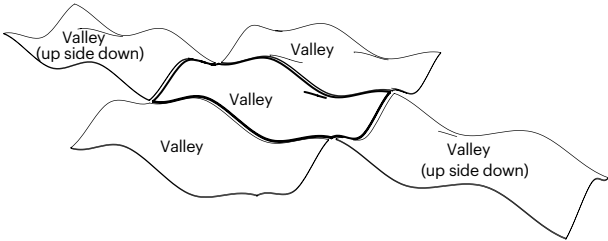
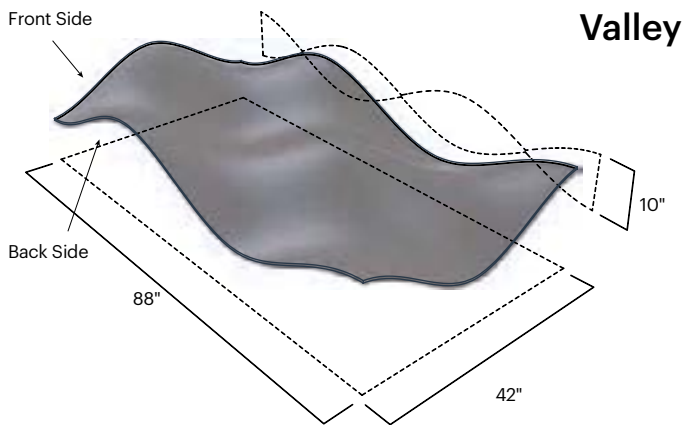
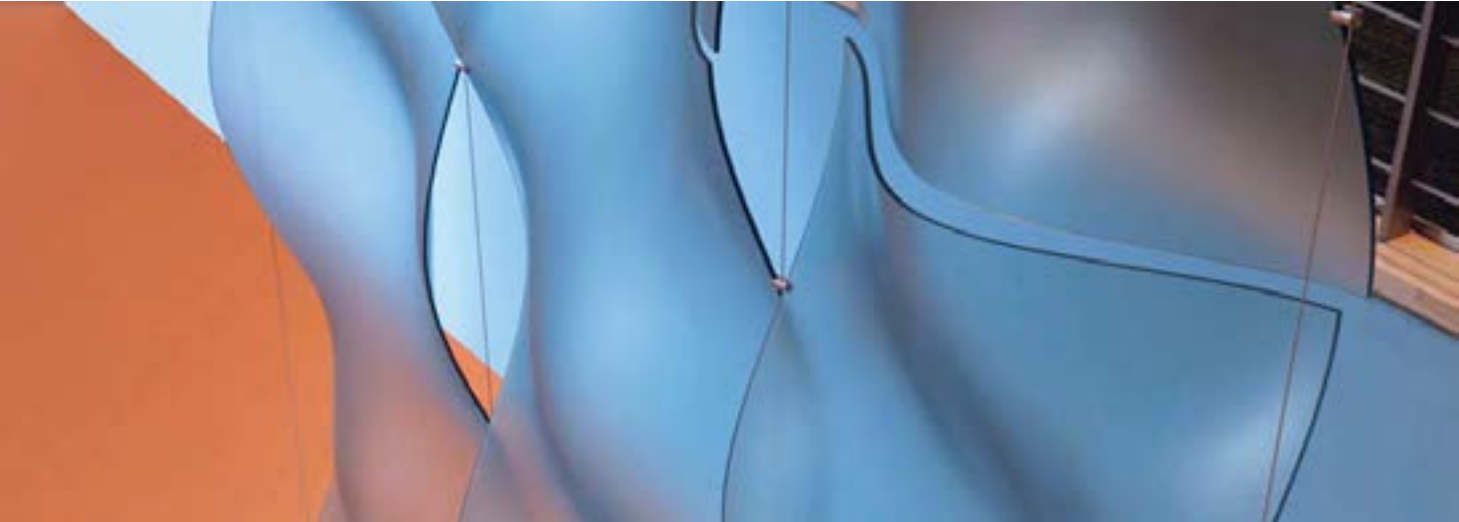


Suspend Swivel Connector
(curve collection)

Additional Info:

Due to variety of installation options no holes is default with Continuous Pattern. When Continuous Pattern Shapes will be used to match side-by-side, 6 points of attachment must be used to prevent any deflection in the Shape.

Continuous Patterns - Valley



General Information	
Gauge:	3/8"
Finish available:	Sandstone or Patent
Holes drilled at 3form by default:	No

Hardware Available:

Ceiling:

standard



Variable Angle Standoff

standard



Bottom Release Gripper



Suspend Swivel Connector
(curve collection)

Additional Info:

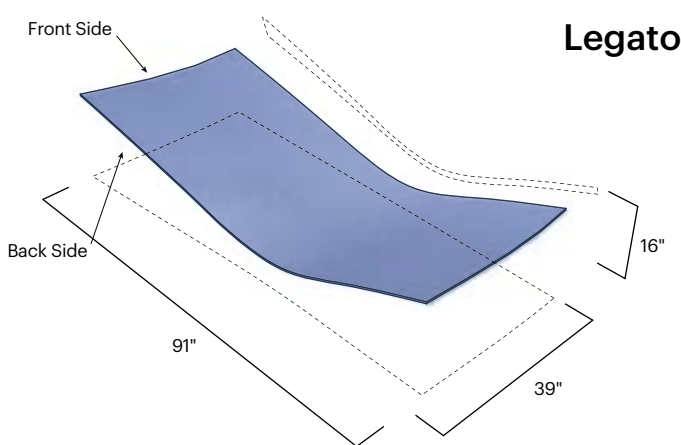
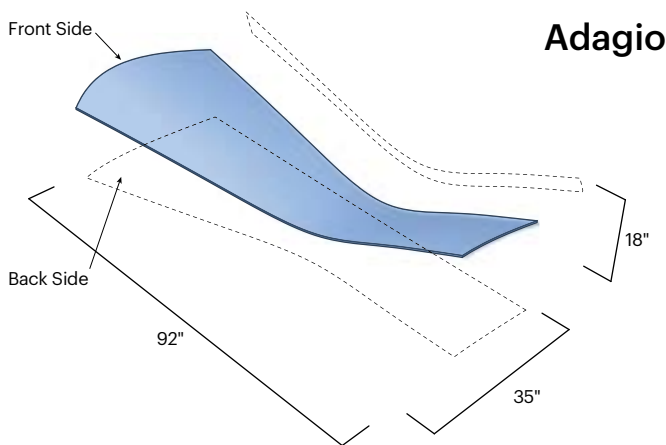
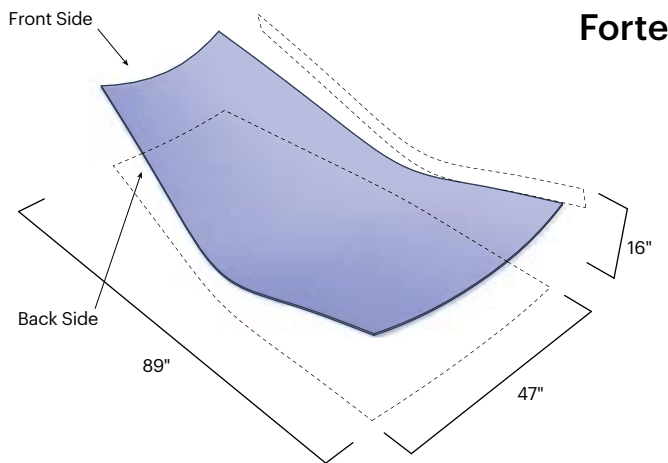
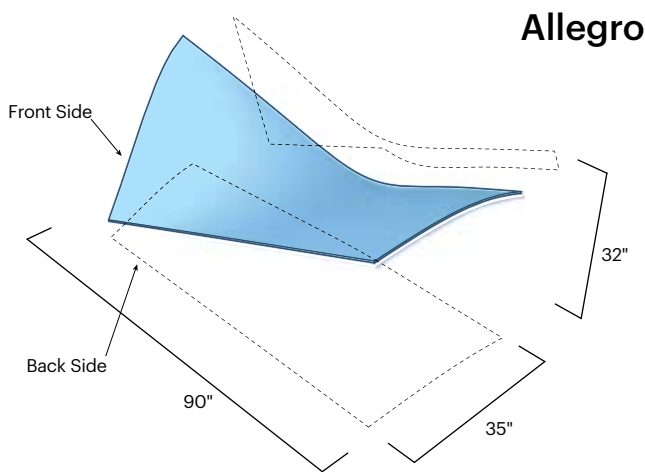
Due to variety of installation options no holes is default with Continuous Pattern. When Continuous Pattern Shapes will be used to match side-by-side, 6 points of attachment must be used to prevent any deflection in the Shape.



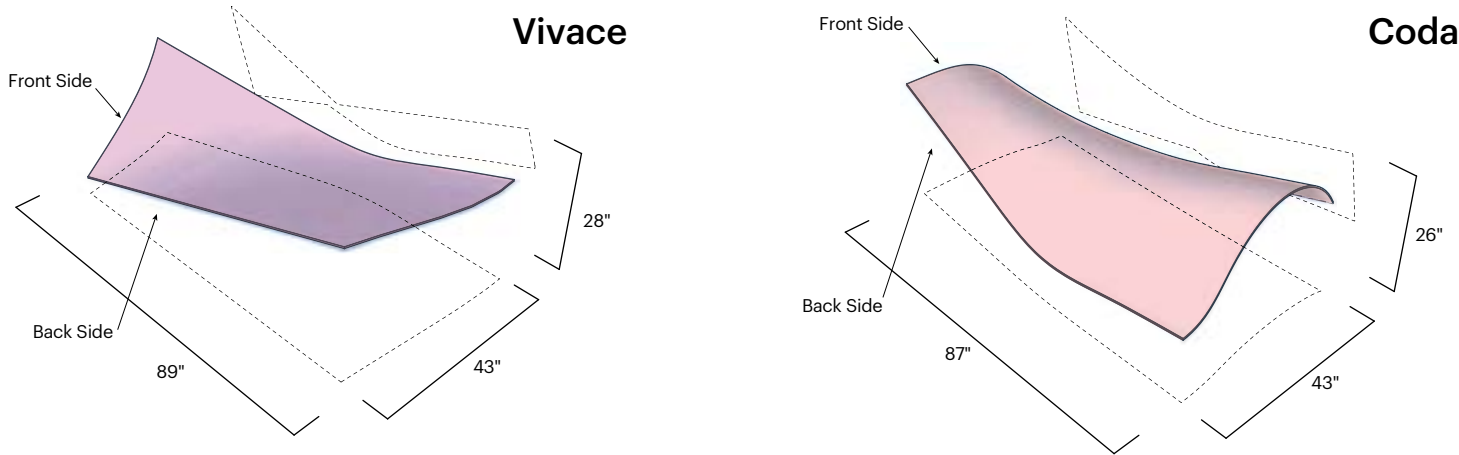
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Sculptural Forms - *Symphony*



Sculptural Forms - *Symphony Cont...*



General Information	
Gauge:	3/8"
Finish available:	Sandstone or Patent
Holes drilled at 3form by default:	No

Hardware Available:

Ceiling:

standard



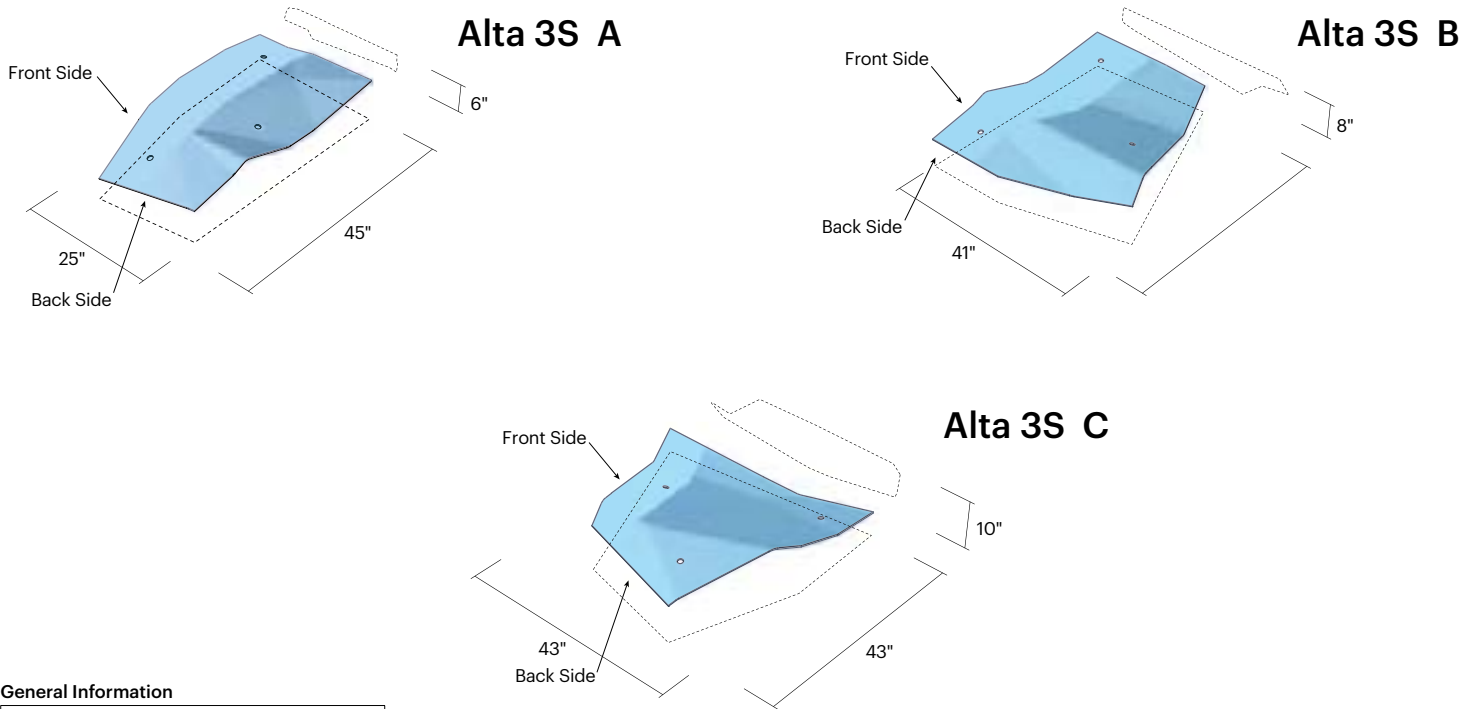
Bottom Release Gripper

standard



Variable Angle Standoff

Sculptural Forms - *Alta 3S*



General Information	
Gauge:	1/4"
Finish available:	Sandstone or Patent
Holes drilled at 3form by default:	Yes
Holes size:	1" (for Bottom Release Gripper)

Hardware Available:

Wall:

Point Support

Ceiling:

standard

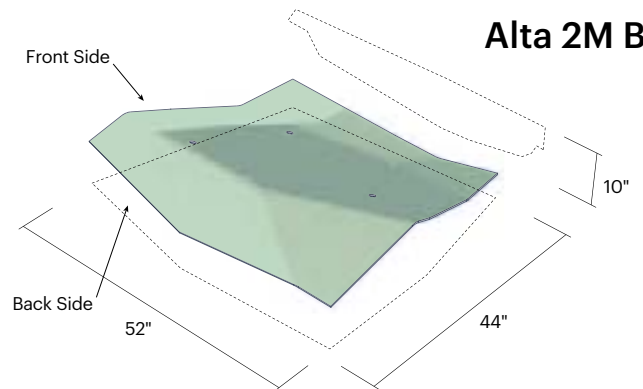
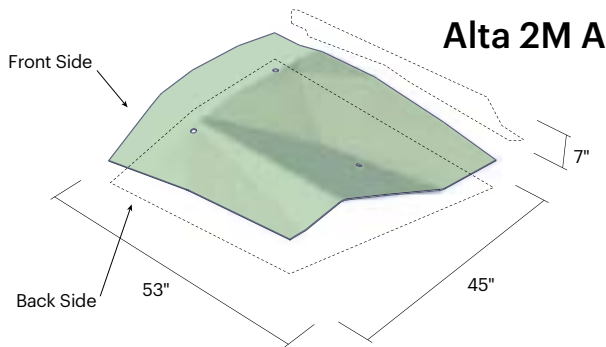
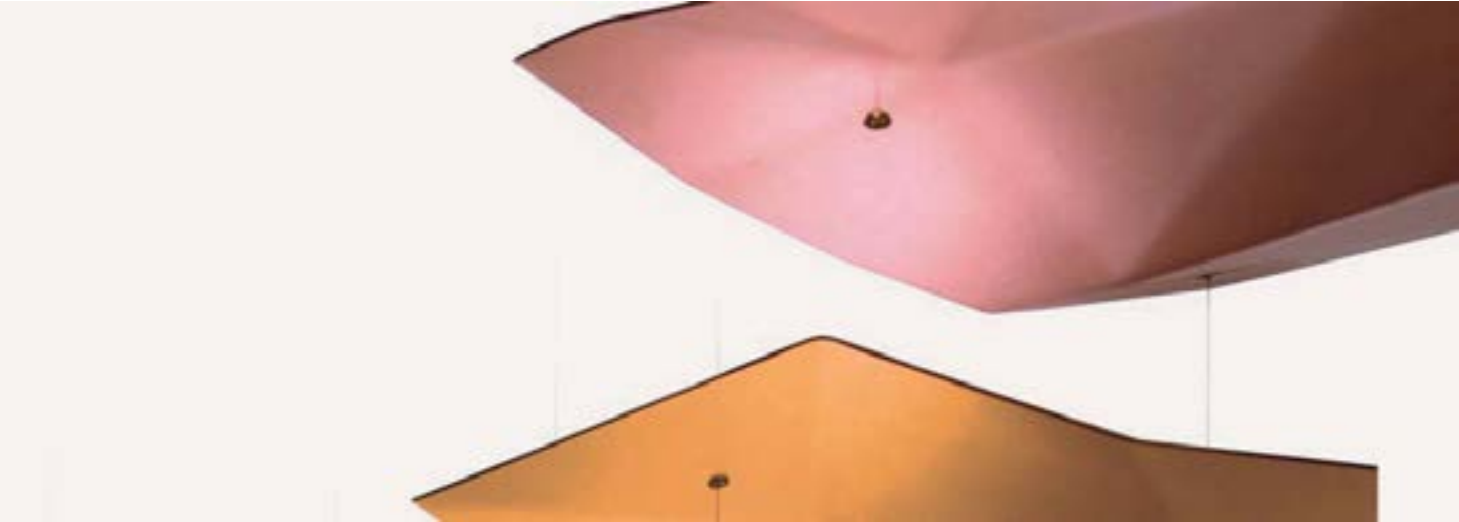
Bottom Release Gripper

Variable Angle Standoff

Top Gripper
(smooth collection)

Top Gripper
(curve collection)

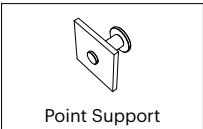
Sculptural Forms - *Alta 2M*



General Information	
Gauge:	1/4"
Finish available:	Sandstone or Patent
Holes drilled at 3form by default:	Yes
Holes size:	1" (for Bottom Release Gripper)


Hardware Available:

Wall:

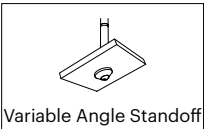


Point Support


Ceiling:




standard
Bottom Release Gripper



Variable Angle Standoff

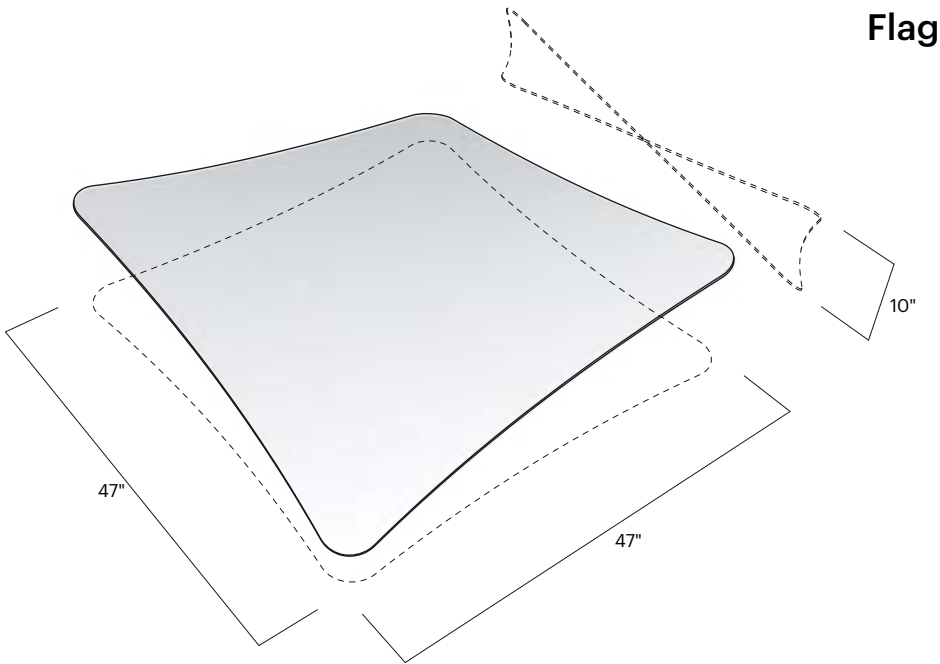


Top Gripper
(smooth collection)



Top Gripper
(curve collection)

Sculptural Forms - *Flag*



General Information	
Gauge:	1/4"
Finish available:	Sandstone or Patent
Holes drilled at 3form by default:	Yes
Holes size:	1" (for Bottom Release Gripper)
Yield:	2 Flag Shapes per 4' x 8' sheet

Hardware Available:

Ceiling:

standard

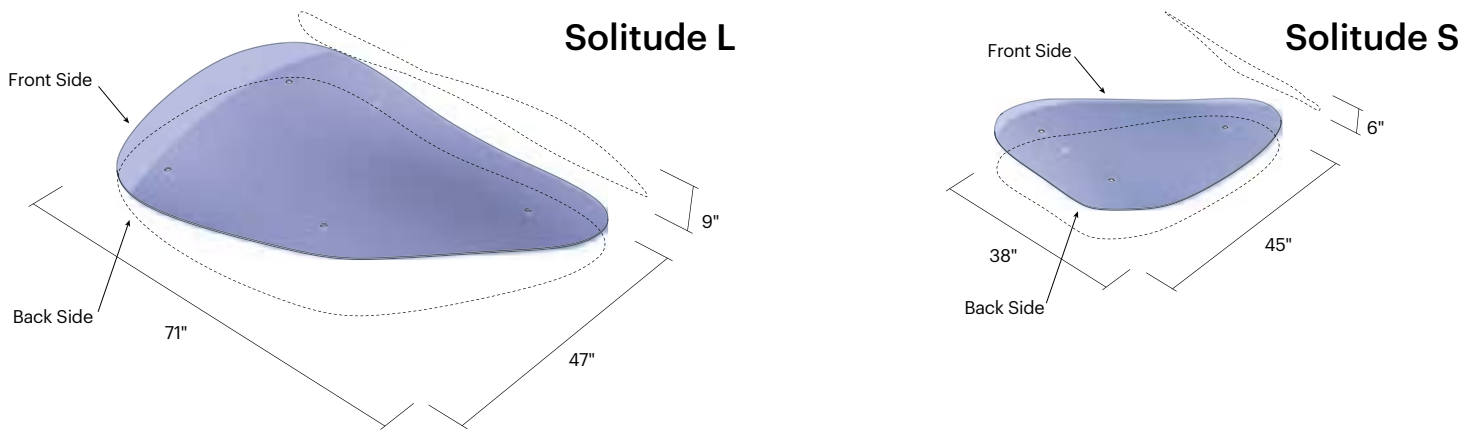


Bottom Release Gripper



Variable Angle Standoff

Sculptural Forms - Solitude LS



General Information	
Gauge:	1/4"
Finish available:	Sandstone or Patent
Holes drilled at 3form by default:	Yes
Holes size:	1" (for Bottom Release Gripper)

Hardware Available:

Wall:

Point Support

Ceiling:

standard

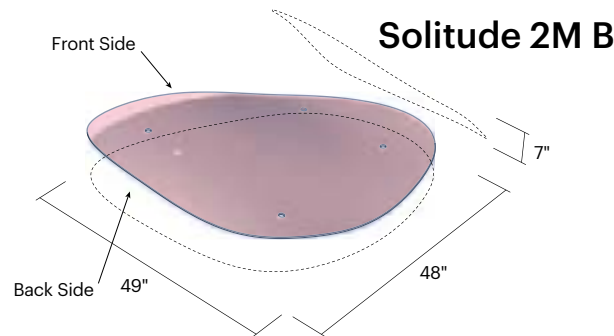
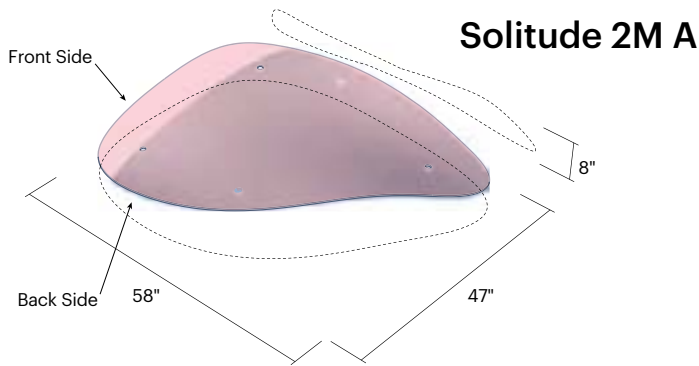
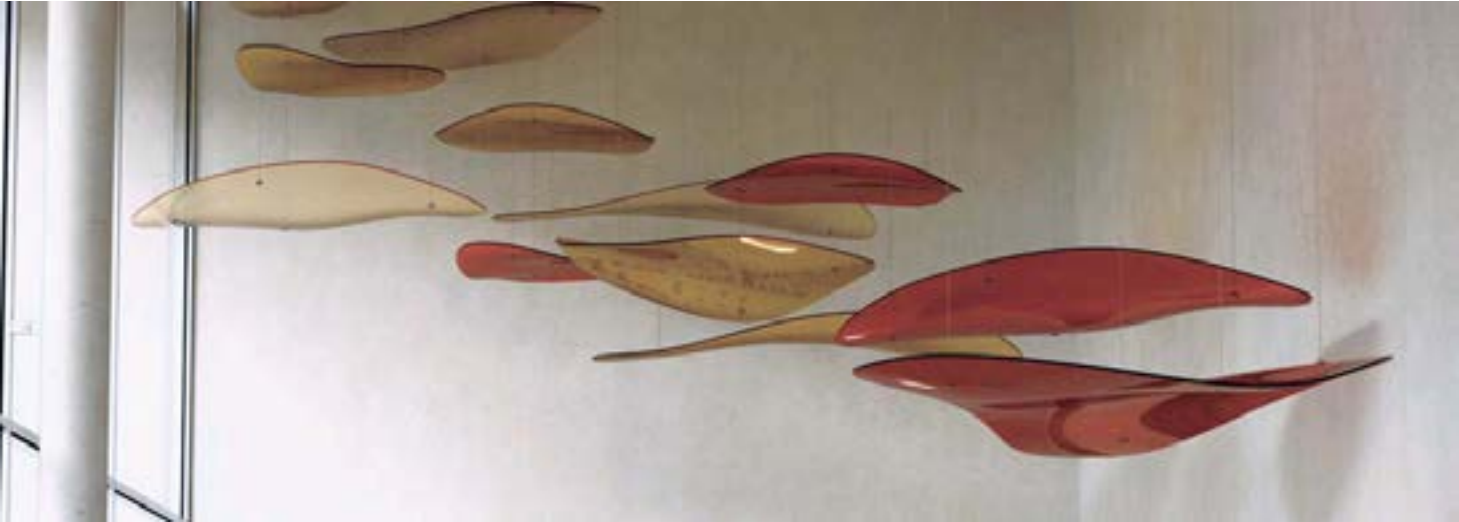
Bottom Release Gripper

Variable Angle Standoff

Top Gripper
(smooth collection)

Top Gripper
(curve collection)

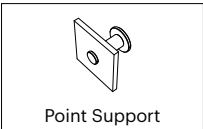
Sculptural Forms - Solitude 2M



General Information	
Gauge:	1/4"
Finish available:	Sandstone or Patent
Holes drilled at 3form by default:	Yes
Holes size:	1" (for Bottom Release Gripper)


Hardware Available:

Wall:

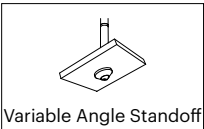


Point Support


Ceiling:




standard
Bottom Release Gripper



Variable Angle Standoff

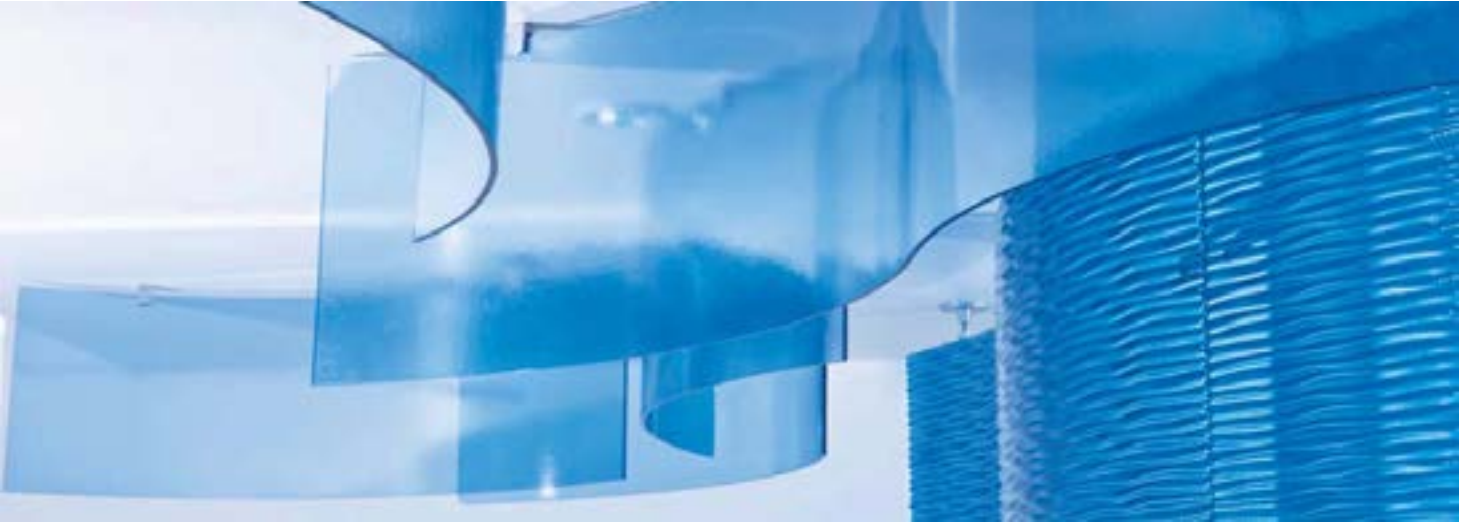


Top Gripper
(smooth collection)

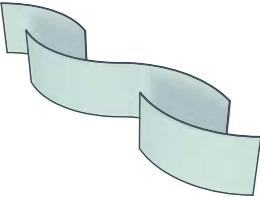


Top Gripper
(curve collection)

Sculptural Forms - Sails



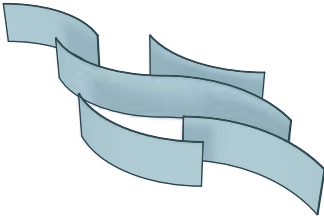
Sails 24"



(24" × 45" × 7") ×2

(24" × 90" × 14") ×1

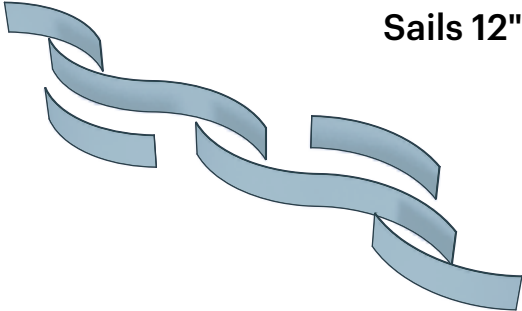
Sails 16"



(16" × 45" × 7") ×4

(16" × 90" × 14") ×1

Sails 12"



(12" × 45" × 7") ×4

(12" × 90" × 14") ×2

General Information
Gauge: 3/8"
Finish available: Sandstone or Patent
Holes drilled at 3form by default: No

Hardware Available:

Wall or Ceiling:

standard



Surface Bracket
(smooth collection)

Ceiling:

Variable Angle
Standoff

standard



Top Gripper
(smooth collection)



Top Gripper
(curve collection)



Suspend Hardware
(smooth collection)



Suspend Hardware
(curve collection)

3form

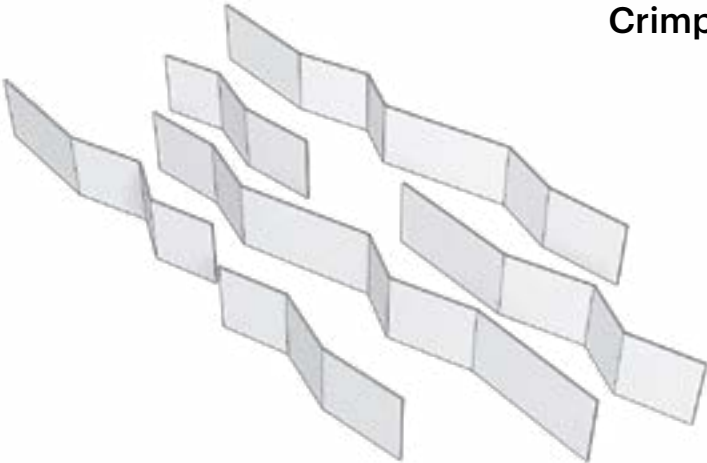
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Sculptural Forms - *Crimp*



Crimp



(12" × 3¼" × 33") ×2
(12" × 5½" × 58") ×2
(12" × 5½" × 96") ×2

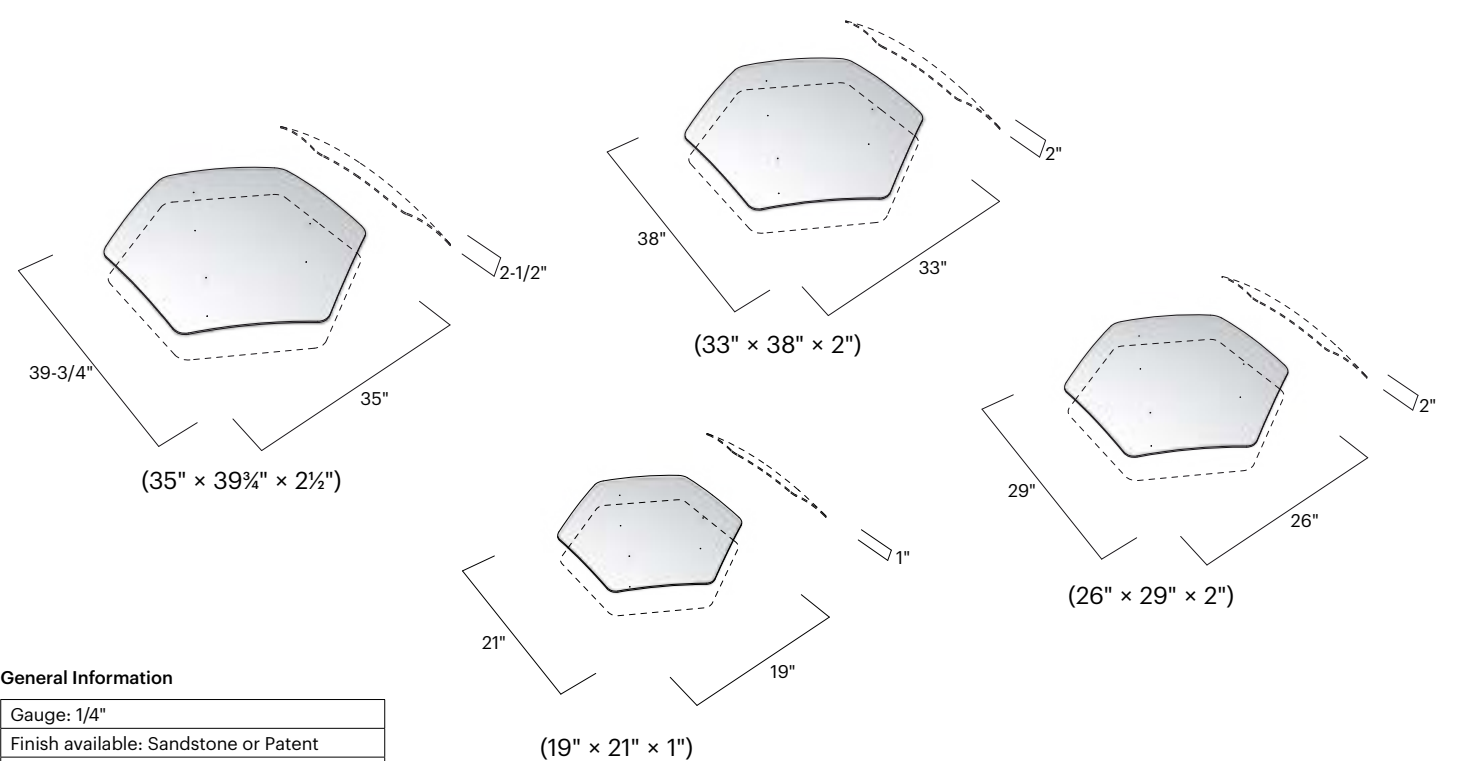
General Information

Gauge: 1/4"
Finish available: Sandstone or Patent
Holes drilled at 3form by default: No

Hardware Available:

Wall or Ceiling:	<div>standard<div>Surface Bracket (smooth collection)</div></div>	Ceiling:	<div><div>Variable Angle Standoff</div></div>	<div>standard<div>Top Gripper (smooth collection)</div></div>	<div><div>Top Gripper (curve collection)</div></div>	<div><div>Suspend Hardware (smooth collection)</div></div>	<div><div>Suspend Hardware (curve collection)</div></div>
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Sculptural Forms - *Parasol*




General Information	
Gauge:	1/4"
Finish available:	Sandstone or Patent
Holes drilled at 3form by default:	Yes
Yield:	4 Shapes per 4' x 8' sheet

Hardware Available:


Ceiling:

standard



Mini Ball Gripper with Safety Nut

standard



Sputnik

Note: The Mini Ball Gripper with Safety Nut and Sputnik are only available with the Parasol Shape

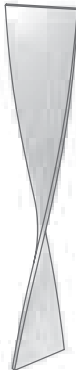
Sculptural Forms - *Twists*



15°



75°



135°



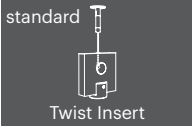
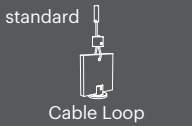
195°

General Information

Gauge: 1/2" or 1"
Finish available: Sandstone or Patent
Holes drilled at 3form by default: No

Hardware Available:

Ceiling:

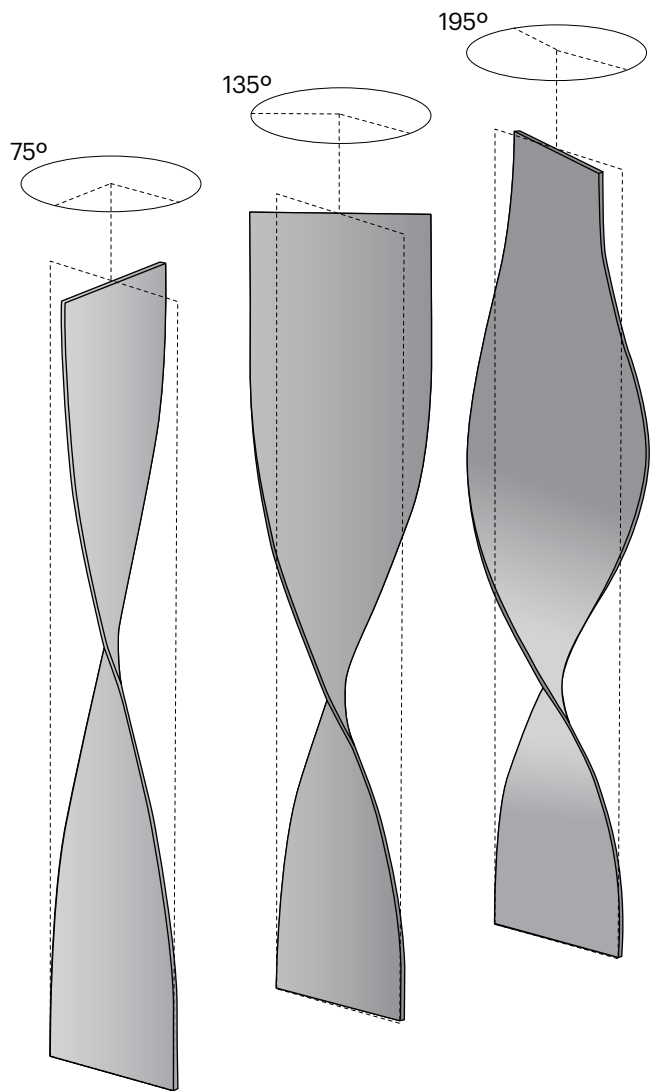


1/2" gauge

1" gauge

Sculptural Forms - *Twist Details*

Twists are available in clear and color Varia with Patent finishes on each side. Varia edges come polished as a standard. Chroma edges come sanded with a renew finish as a standard. See your Sales Rep for more information on pricing and options.

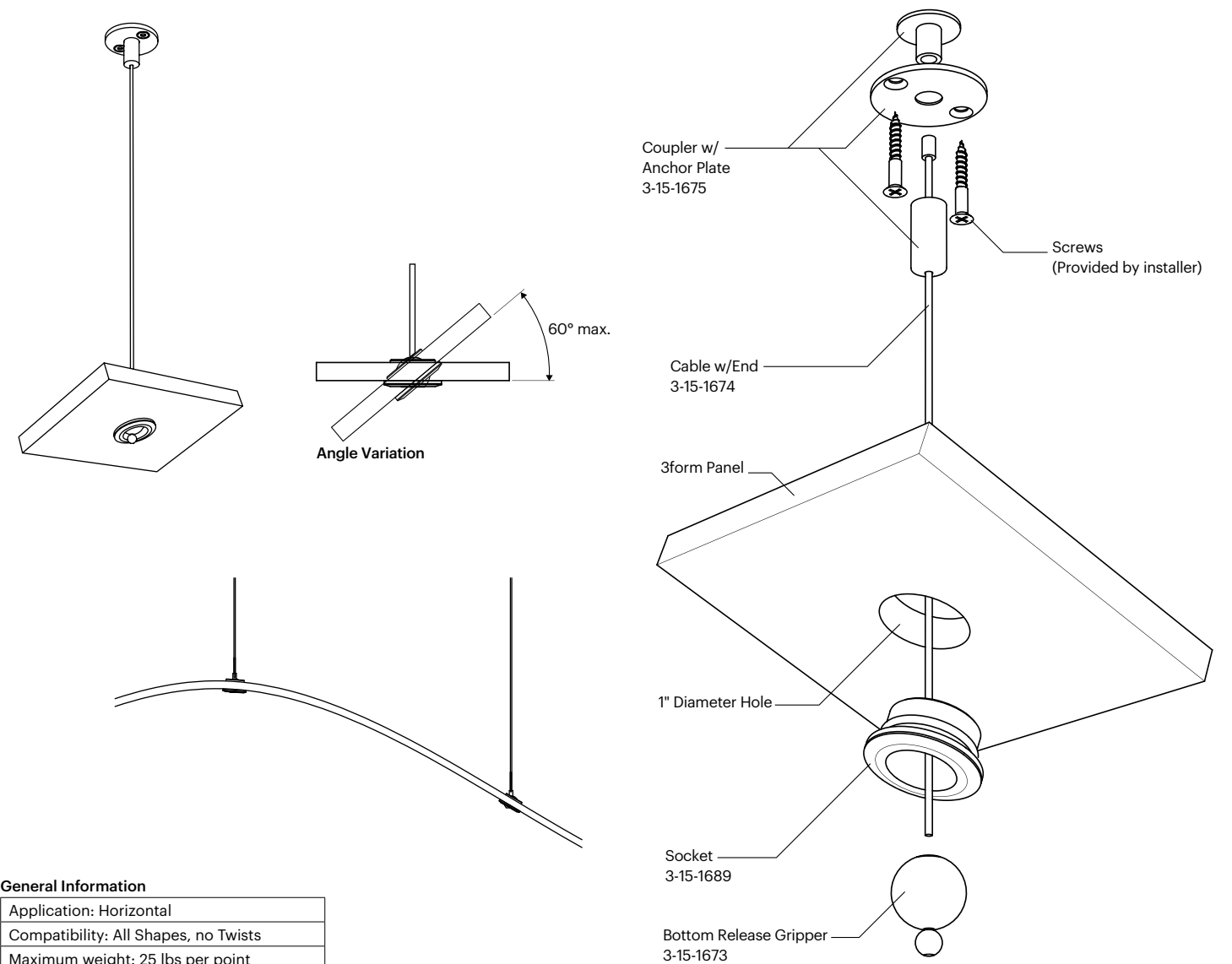


Various Twist rotations are available with different gauges and widths of material. Twist is available in 90" and 114" lengths. Please use the following matrix as a reference when deciding your Twist options.

Rotation	12" Width	16" Width	24" Width
15°-195°	1/2" Gauge or 1" Gauge	1/2" Gauge or 1" Gauge	1/2" Gauge or 1" Gauge
150°-195°	1" Gauge	1" Gauge	Not Available

Hardware Options - Bottom Release Gripper

Please take into account the substrate you are anchoring into when selecting the method of attaching the anchor plate to the ceiling. Each point of hardware holds up to 25 lbs., so ensure that the anchor will bear the appropriate weight of the panel. Confirm that the Ball Grip Plunger Cap is on the cable before threading the cable through the Ball Gripper. After the cable is threaded through the ball gripper, clip the cable at the bottom of the release ball.



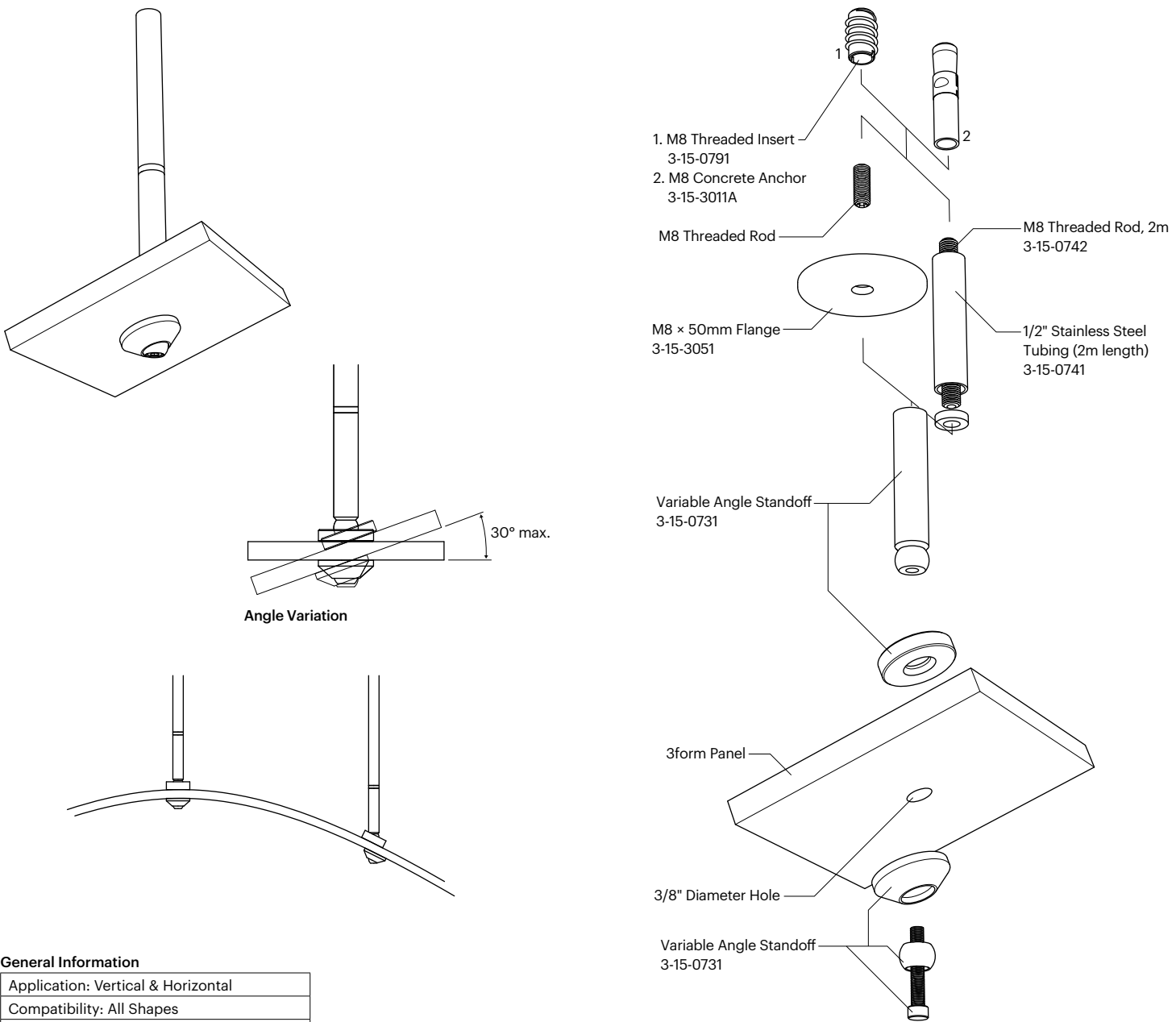
General Information	
Application:	Horizontal
Compatibility:	All Shapes, no Twists
Maximum weight:	25 lbs per point
Cable size:	1/16"
Gauge:	1/4" - 1/2" (1/2" max)

Available With:



Hardware Options - Variable Angle Standoff

Depending on the substrate you are anchoring to, use either the M8 threaded insert, option 1, or the concrete anchor, option 2.



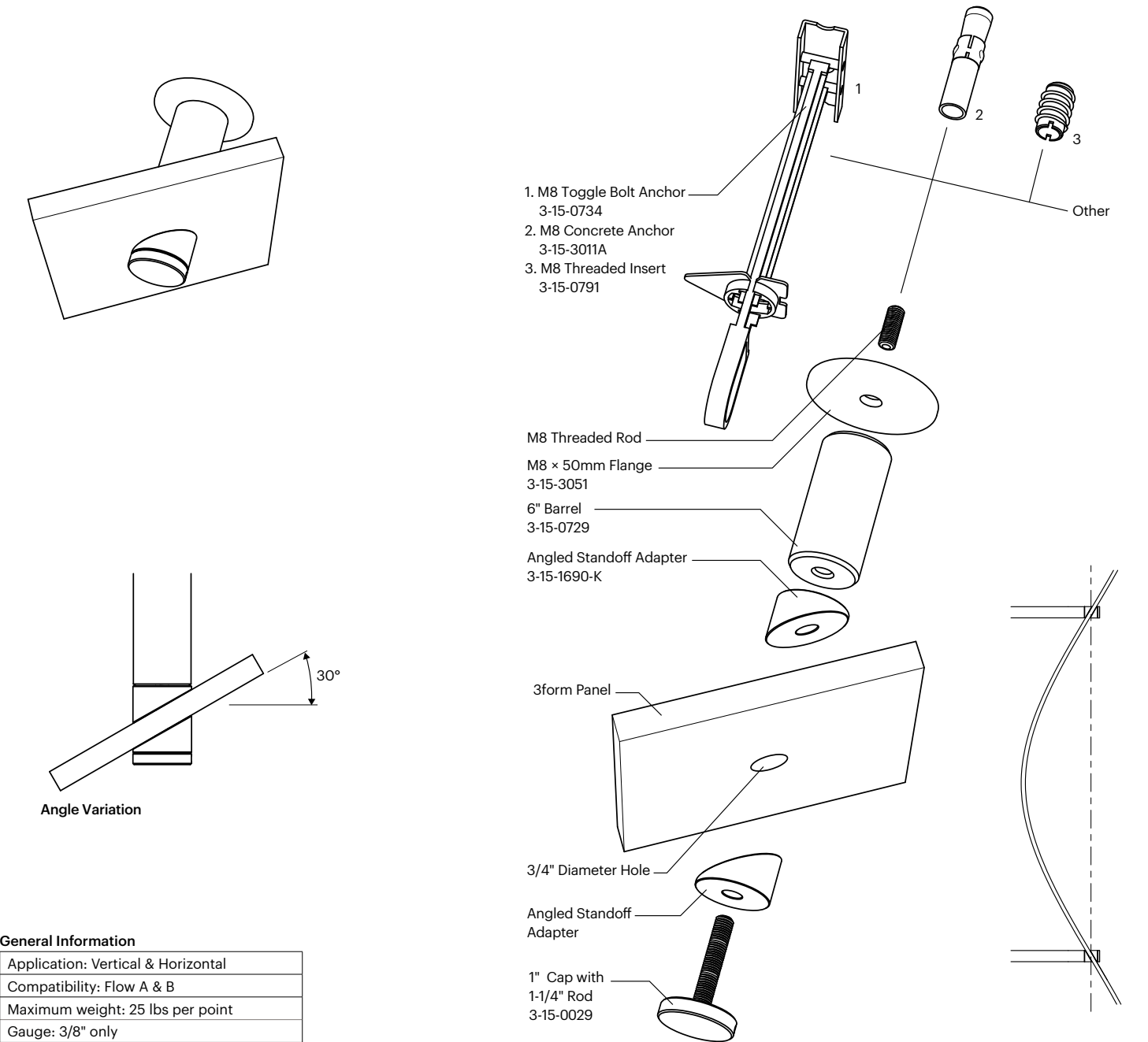
General Information	
Application:	Vertical & Horizontal
Compatibility:	All Shapes
Maximum weight:	25 lbs per point
Gauge:	3/8" max

Available With:



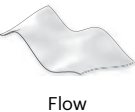
Hardware Options - Angled Standoff Adapter

The adapted standoffs are made for 30° angles, and can only be used with Flow A and B.



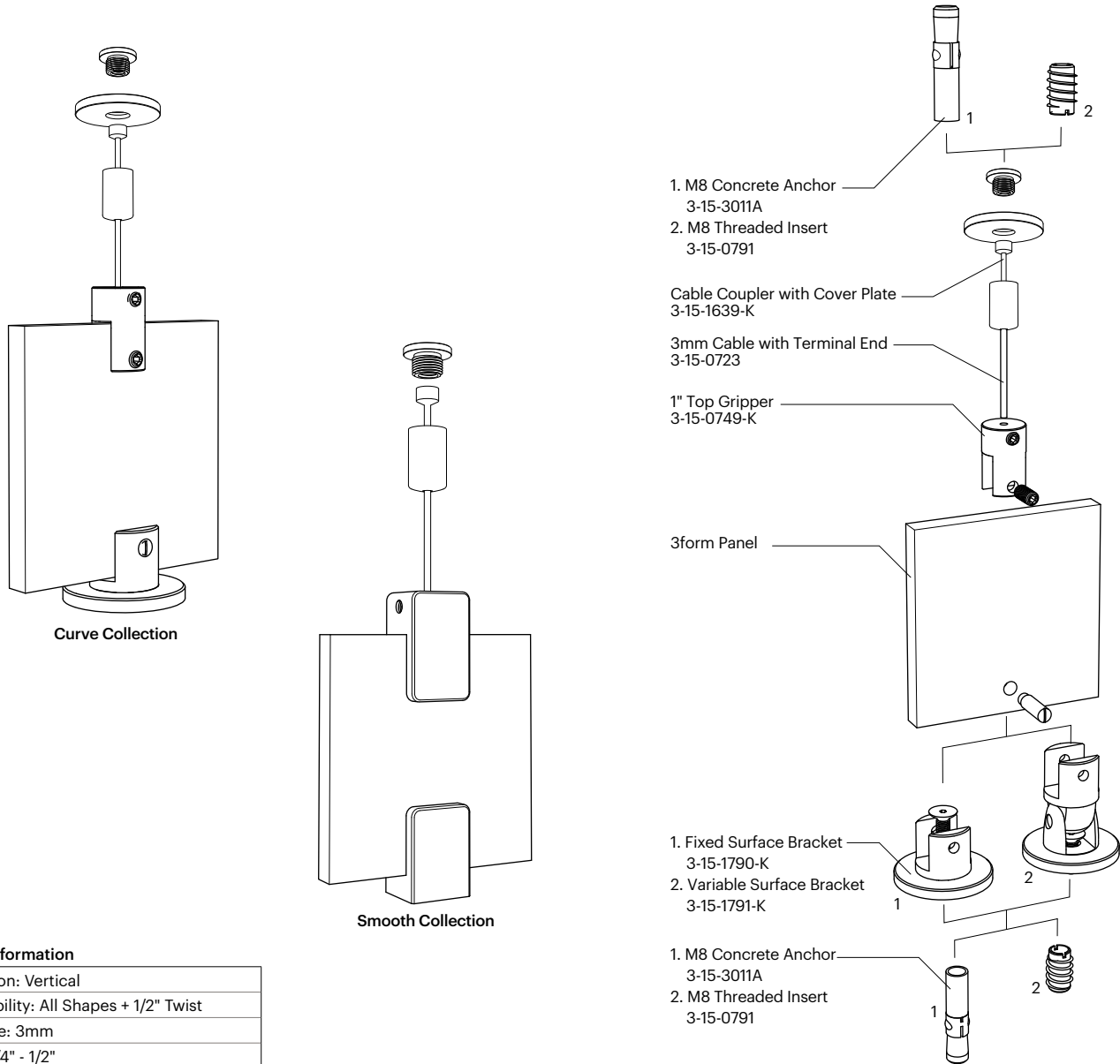
General Information	
Application:	Vertical & Horizontal
Compatibility:	Flow A & B
Maximum weight:	25 lbs per point
Gauge:	3/8" only

Available With:



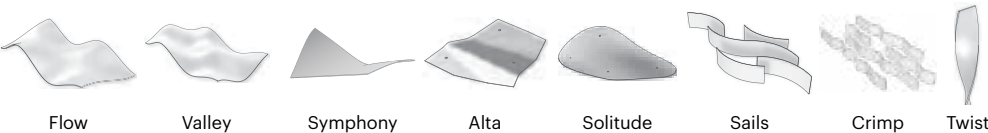
Hardware Options - Cable Top Gripper

For most vertical applications of Shapes, it is recommended that you use an installation with weight born on the floor with a surface bracket and stabilized with a Top Gripper anchored to the ceiling with a cable. This application works with all Shapes and with ½" Twist. For 1" Twist, please see the 1" Twist Insert installation instructions. Hole in Twist for variable surface bracket will need to be drilled on-site.



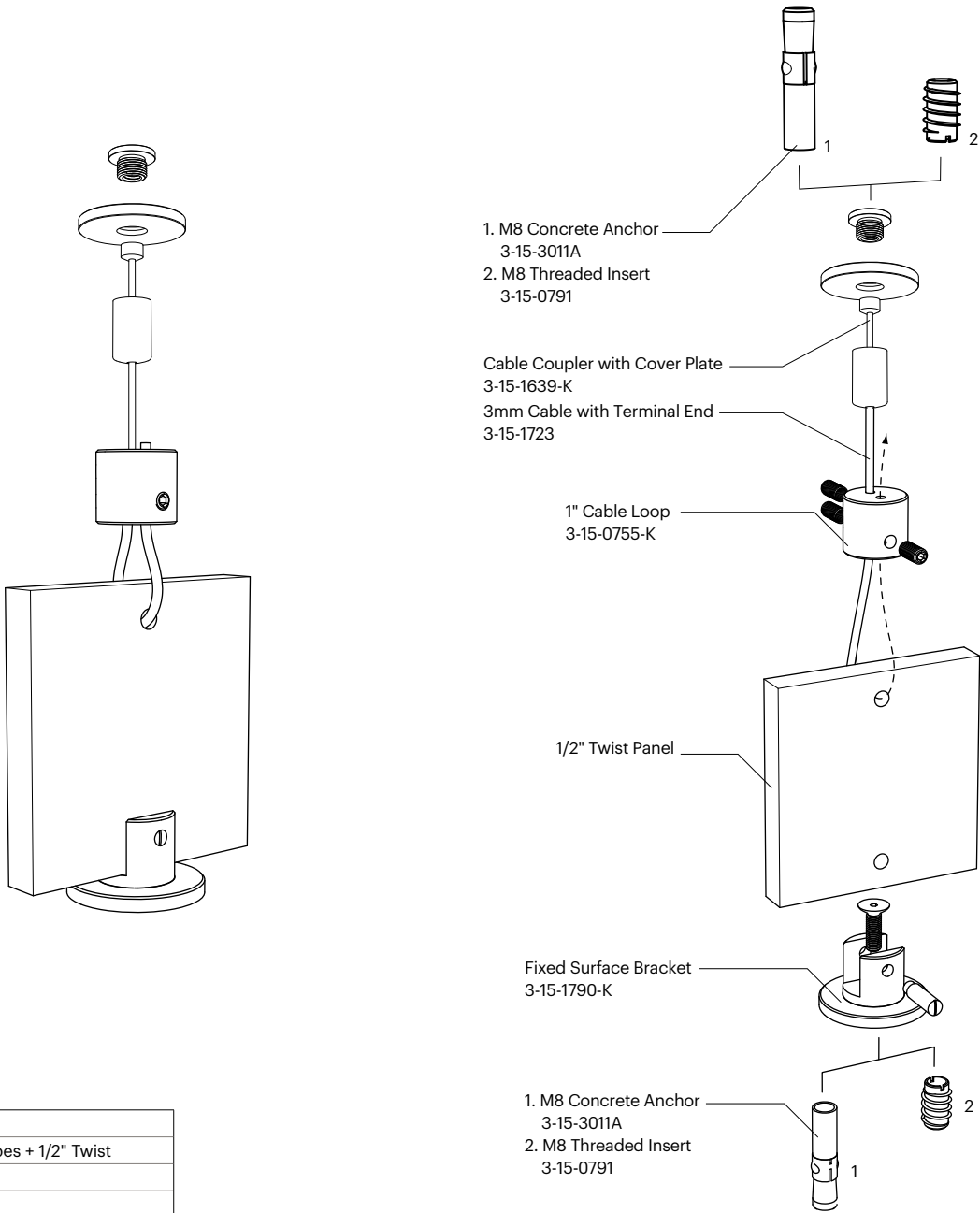
General Information	
Application:	Vertical
Compatibility:	All Shapes + 1/2" Twist
Cable size:	3mm
Gauge:	1/4" - 1/2"

Available With:



Hardware Options - Cable Loop

For straight 1/4" drill-thru holes Twists version.



General Information	
Application:	Vertical
Compatibility:	All Shapes + 1/2" Twist
Cable size:	3mm
Gauge:	1/2" - 1"

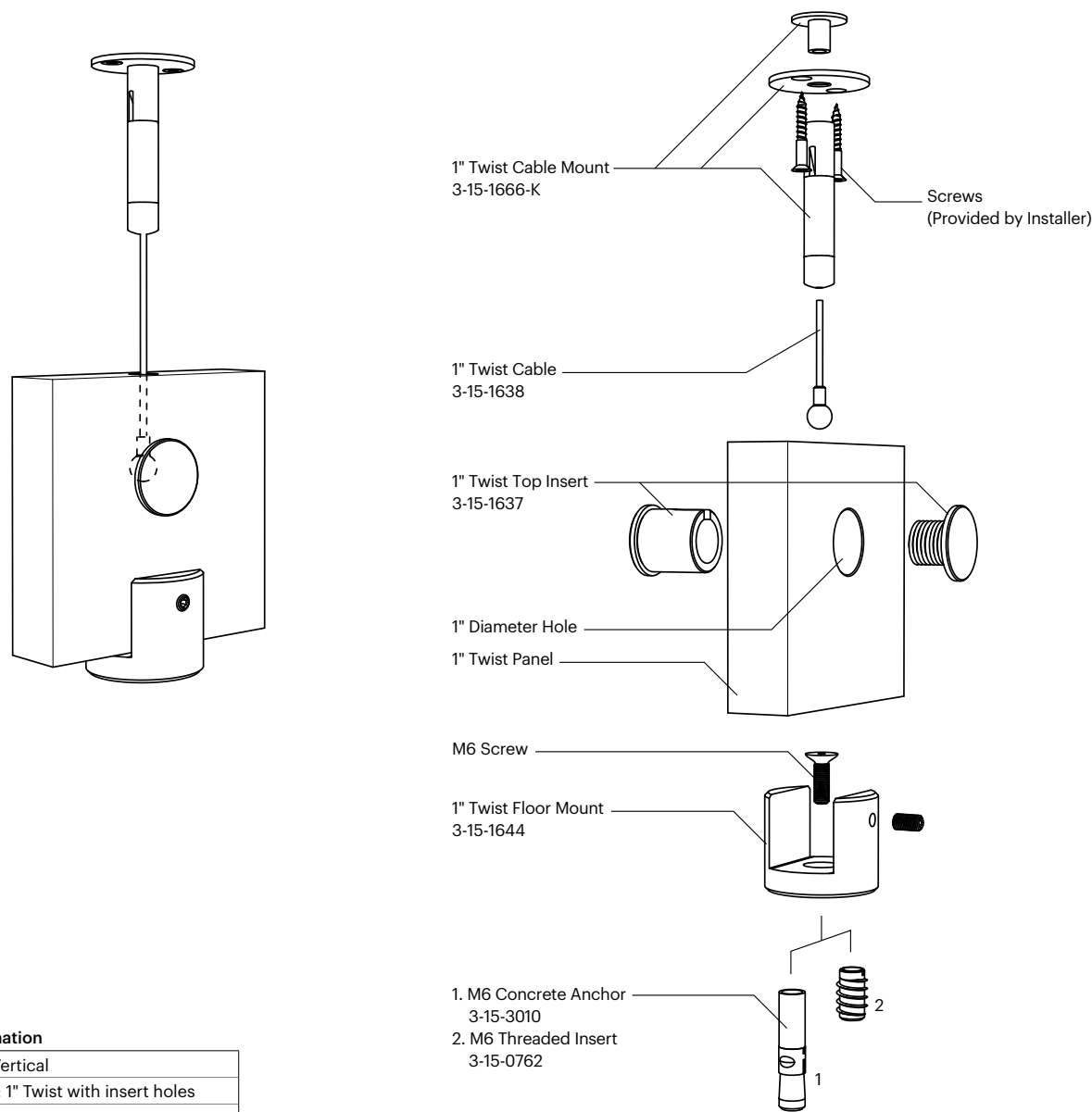
Available With:



Twist

Hardware Options - 1" Twist Insert

There is specific hardware for use with 1" Twists. Twists must be supported on the floor using a Twist floor mount, then stabilized using a cable anchored to the ceiling. Twists should come pre-drilled for this hardware. For this hardware it must be a 1" gauge Twist specified with a 1" hole for the Twist top insert piece.



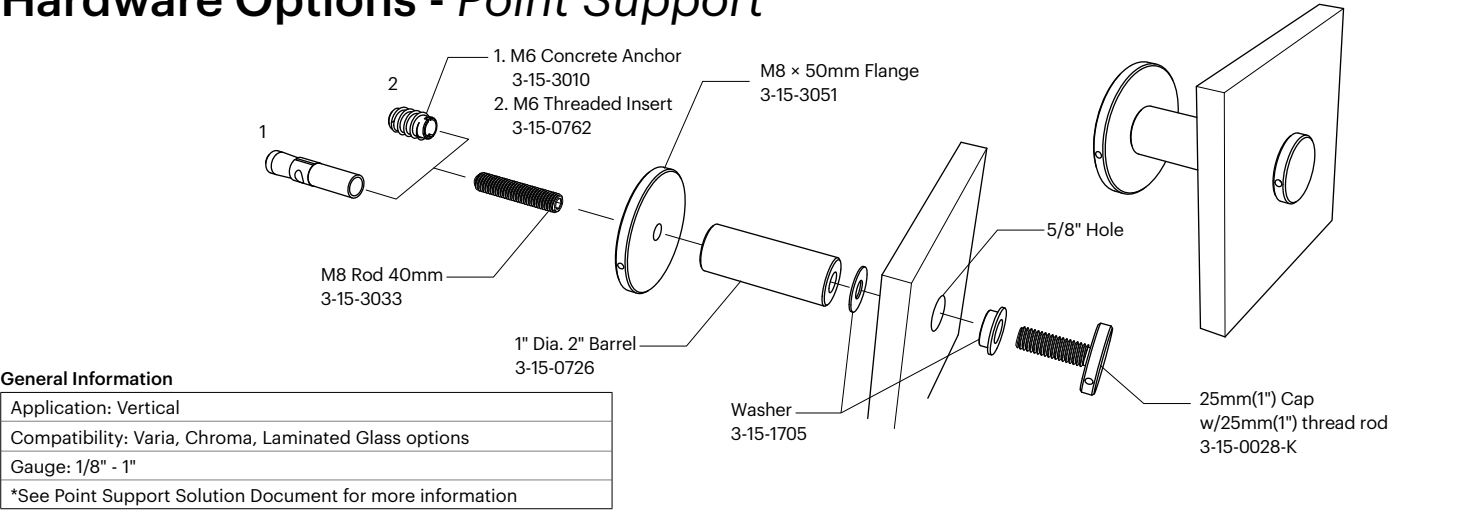
General Information

Application: Vertical
Compatibility: 1" Twist with insert holes
Cable size: 3mm
Gauge: 1" Chroma only

Available With:



Hardware Options - Point Support

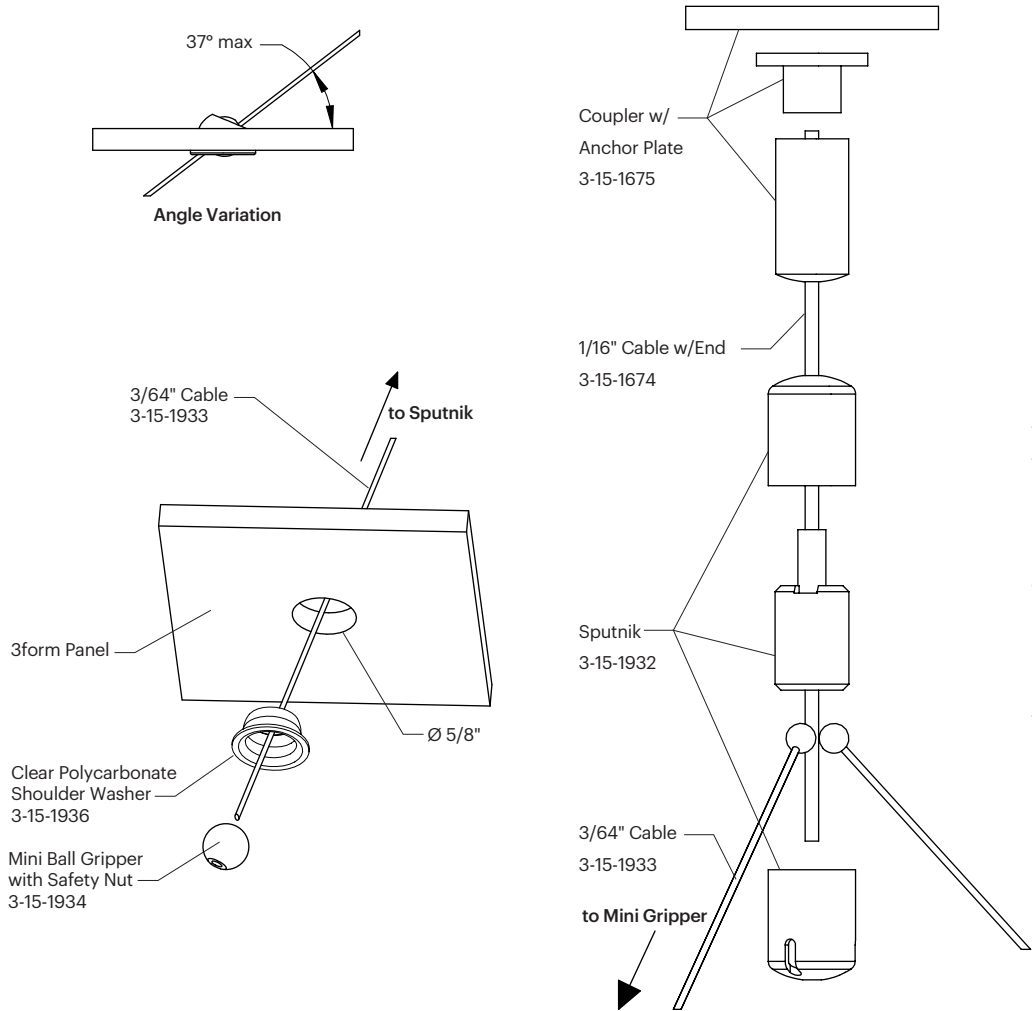


Available With:



Hardware Options - Sputnik and Mini Ball Gripper with Safety Nut

Anchoring is the same as the Bottom Release Gripper. See page 18 for more information. Each Sputnik holds up to 50 lbs. Ensure that the anchor and Sputnik will hold the appropriate amount of weight. Confirm that the Mini Ball Gripper safety cap is on the cable before threading through the Mini Ball Gripper. Once the cable is threaded, leave 1" of cable below the ball, and then secure the safety cap to the ball gripper by threading it onto the release.



Note: Finished assembly must have 1" of cable below the Mini Ball Gripper as well as the Sputnik.

As an alternative to the 1" cable overhang you can swage a stop sleeve on the cable underneath the Mini Ball Gripper and the Sputnik. However, one of these two methods (the 1" overhang under the ball or the compression stop sleeve) must be used during installation. The sleeves and the crimping tool are available through McMaster-Carr using the following information:

McMaster #3936T35 – Zinc-Plated Copper Stop Compression Sleeve for 1/16" Rope Diameter

McMaster #3936T34 – Zinc-Plated Copper Stop Compression Sleeve for 3/64" Rope Diameter

McMaster #3377T11 – Multi-diameter Compression Tool for 1/16", 3/64", 3/32" Oval, 1/16", 3/64" Stop Sleeves

General Information	
Application:	Horizontal
Compatibility:	Parasol
Maximum weight:	Sputnik - 50 lbs Mini Gripper - 22 lbs
Cable size:	1/16" (main) - 3/64" (legs)
Gauge:	1/4"

- 3-15-1932-K includes these parts in the following quantities:
- 1× 3-15-1932 Sputnik
 - 1× 3-15-1674 1/16" Cable w/ End
 - 3× 3-15-1936 Shoulder Washer
 - 3× 3-15-1934 Mini Gripper w/ Safety Nut
 - 3× 3-15-1933 3/64" Cable

Available With:



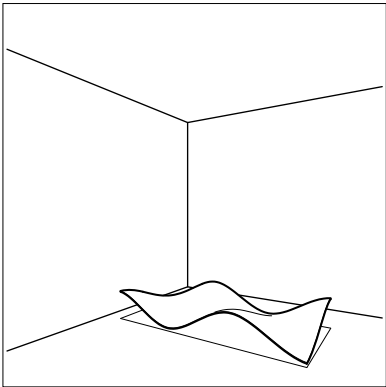
Installation

Horizontal Applications

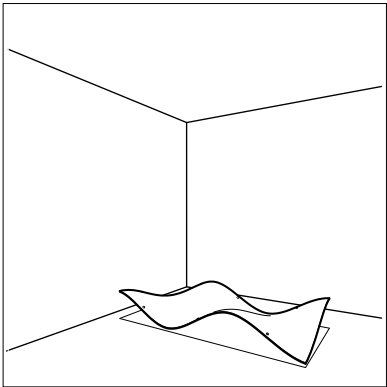
The tools you will need vary depending on the type of hardware you are using to mount the Shapes and the application details, such as anchoring.

Shapes are most easily installed in a ceiling mounted environment, but can be installed vertically on a wall. For wall mounted environments, please see the Vertical Application instructions on page 27.

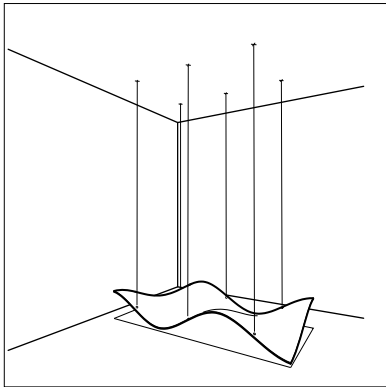
- 1
- Place the panel(s) on the floor in the desired position



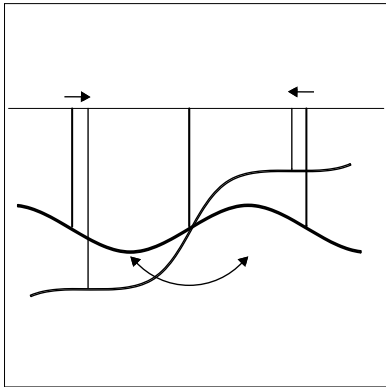
- 2
- Prepare the panel. Drill holes for the appropriate hardware, see specific hardware pages for more detail.



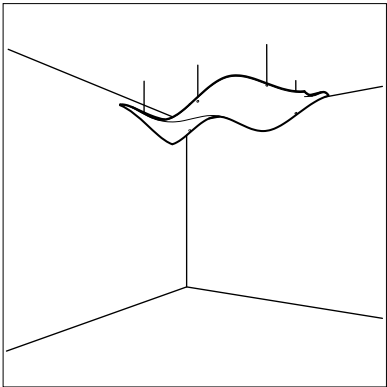
- 3
- Drill holes into the mounting surface.



-
- Take into account the angle of the panel. It may change the hole locations.



- 4
- Suspend the panel to the ceiling with selected hardware. (See specific instructions)



Installation

Vertical Applications

Any Shape can be installed vertically depending on the hardware used. For the Shapes Flow A and B, it is recommended that you use the 6" Angled Standoff Adapters. For detail on that hardware, please see page 20. For other Shapes in a vertical orientation, it is recommended that the Shape is supported either from the top using 3form Cable or along the bottom, allowing it to rest on the ground or in a Variable Angle Floor Bracket (see Fig. 1 below). The included threaded rods and stainless steel tube covers will deflect significantly if they are the sole means of supporting a Shape in a vertical position off another vertical surface (Fig. 2). If that is not possible, it is recommended that two of the Shape Supports are threaded into wood blocking or concrete in such a manner that the Variable Angle Standoff butts up directly against the flange (Fig. 3).

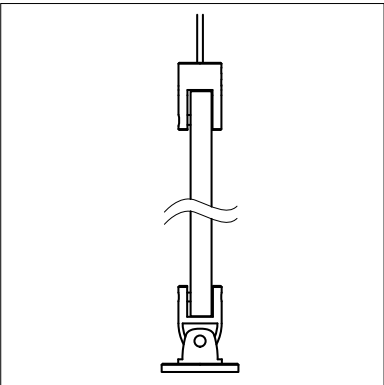


Figure 1

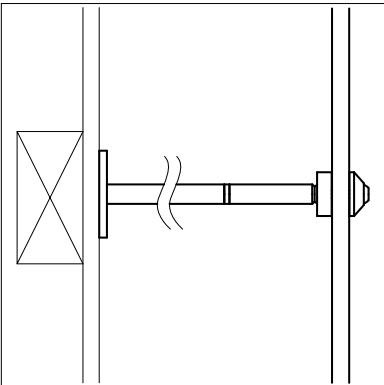


Figure 2

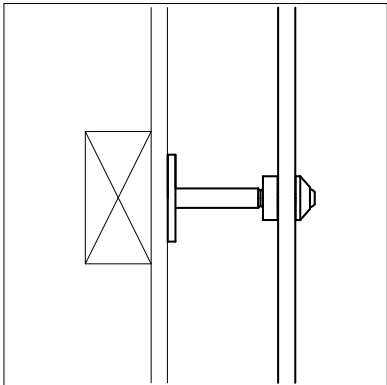
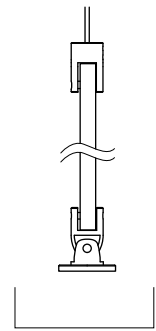
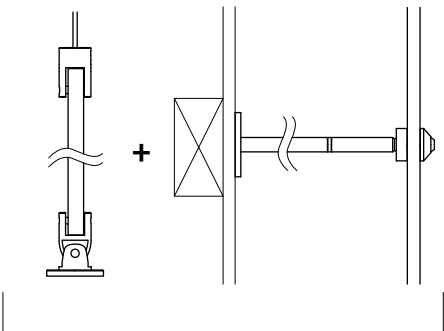


Figure 3

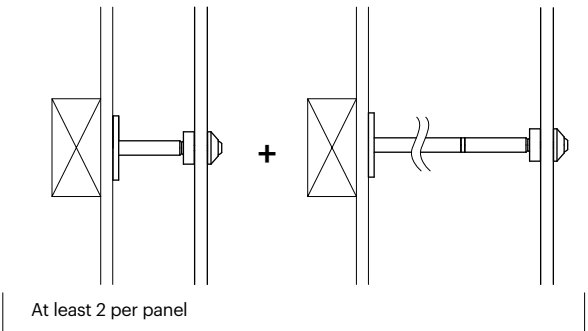
The allowable combinations are presented below:



Combination 1



Combination 2



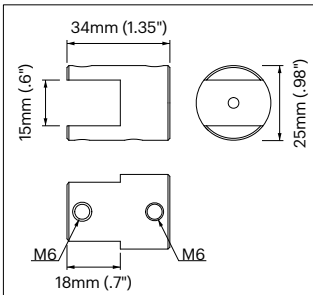
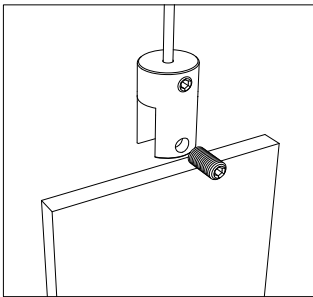
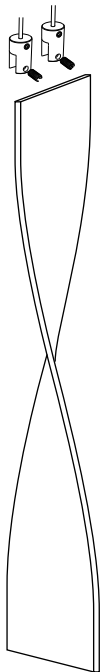
Combination 3

Installation

Twist Details

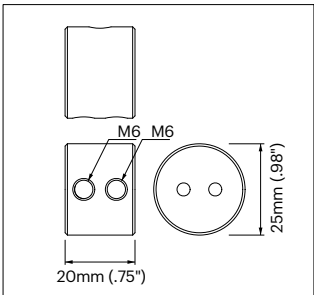
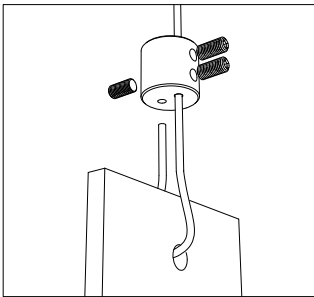
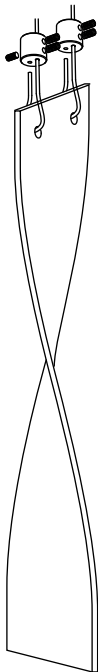
Shapes will come with no holes unless specified otherwise, see page 17.

Top Gripper*



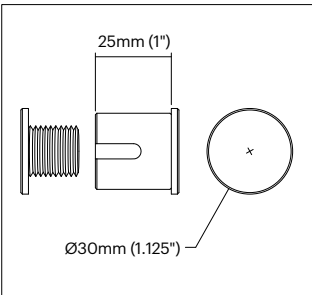
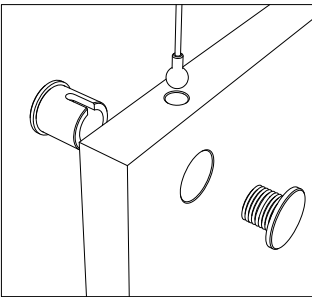
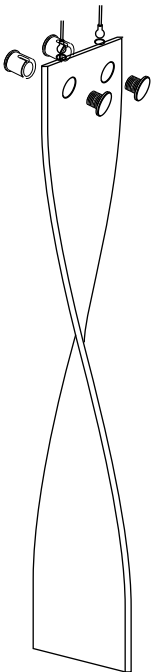
1/2" gauge
*1" gauge available for built-in fitting

Cable Loop



1/2" and 1" gauge
1/4" top holes for Cable Loop

Top Insert



1" gauge
1" top insert hole for Twist Insert hardware

General Specifications

	Part Numbers	Material	Finish	Recommended Use	MSDS Information
Nickel Plated Brass	3-15-1675 3-15-1673 3-15-1639-K	Nickel Plated Brass	-	Interior Only	-
Milled Stainless Steel	3-15-0731 3-15-1689 3-15-1791-K 3-15-0749-K 3-15-0757-K 3-15-0801-K 3-15-0802-K 3-15-0066 3-15-1792	303 or 304 Stainless Steel	Mill Finish Powdercoating available (may not be feasible for all parts)	Interior Only	Recycled content typically between 25% - 35% Post Industrial 5% Post Consumer
Fasteners & Miscellaneous	-	18-8 Stainless Steel unless otherwise specified	Plain	Interior Only	Recycled content typically approx. 60% 35% Post Industrial 25% Post Consumer

Hardware	Hole Size	Page
Bottom Release Gripper	1"	18
Variable Angle Standoff	3/8"	19
Angled Standoff Adapter	3/4"	20
Twist Top Insert	1"	23
Point Support	5/8"	24