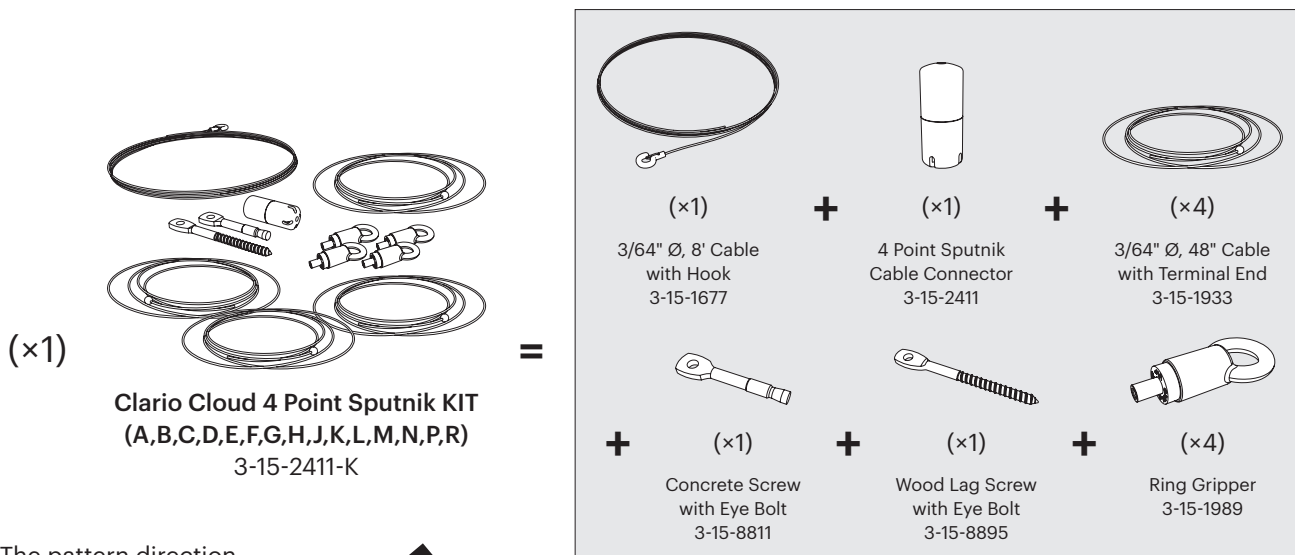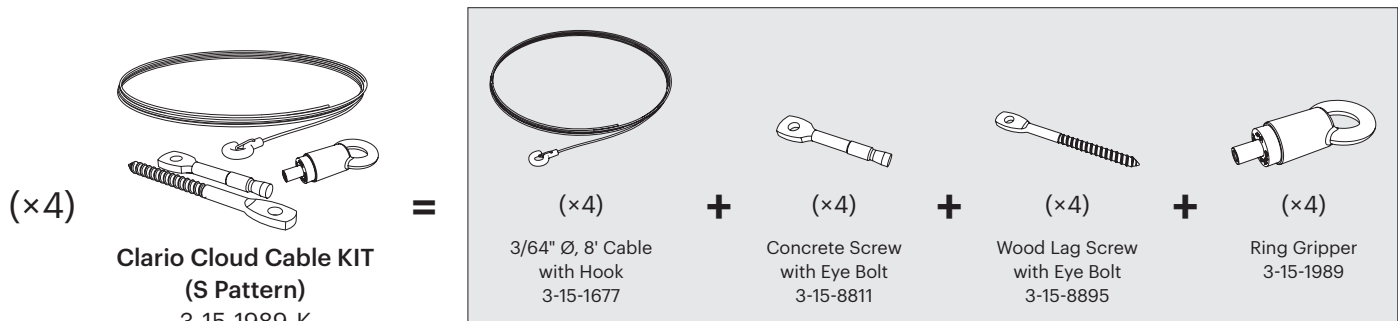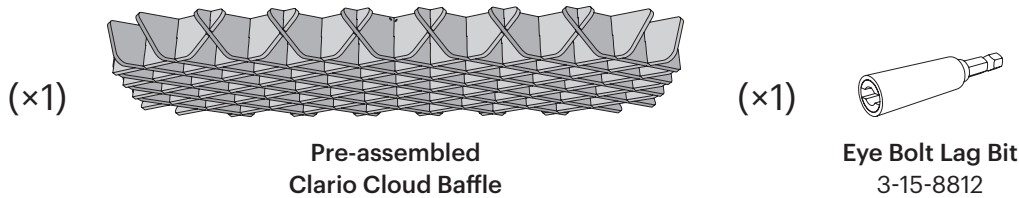*Clario Cloud Square*
SimpleSpec 400.48™

Installation Manual
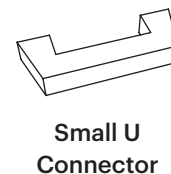
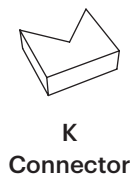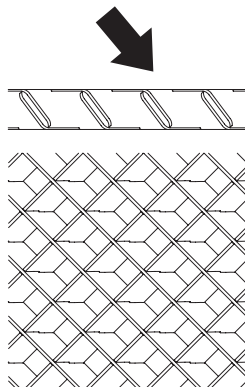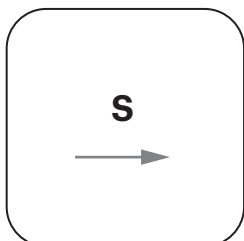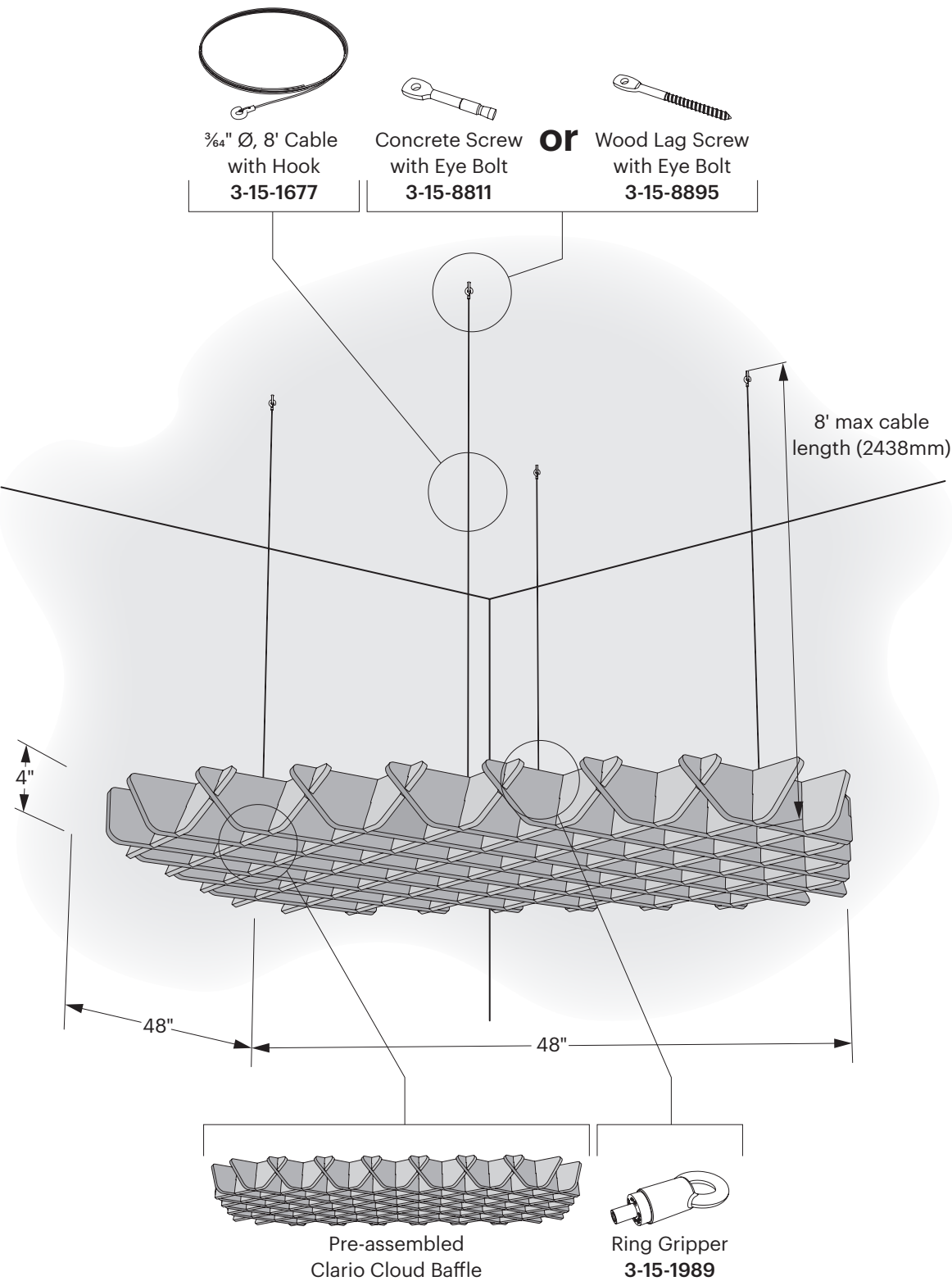For more information, please visit 3-form.com/Elements or call 800.726.0126

Contents Overview

*Quantities shown are for one (1) module. The hardware kit provided depends on whether the module is connected to another module or on it's own.

(×1) — Pre-assembled Clario Cloud Baffle

(×1) — Eye Bolt Lag Bit
3-15-8812

(×4) Clario Cloud Cable KIT
(S Pattern)
3-15-1989-K

=

(×4)
3/64" Ø, 8' Cable
with Hook
3-15-1677

+

(×4)
Concrete Screw
with Eye Bolt
3-15-8811

+

(×4)
Wood Lag Screw
with Eye Bolt
3-15-8895

+

(×4)
Ring Gripper
3-15-1989

(×1) Clario Cloud 4 Point Sputnik KIT
(A,B,C,D,E,F,G,H,J,K,L,M,N,P,R)
3-15-2411-K

=

(×1)
3/64" Ø, 8' Cable
with Hook
3-15-1677

+

(×1)
4 Point Sputnik
Cable Connector
3-15-2411

+

(×4)
3/64" Ø, 48" Cable
with Terminal End
3-15-1933

+

(×1)
Concrete Screw
with Eye Bolt
3-15-8811

+

(×1)
Wood Lag Screw
with Eye Bolt
3-15-8895

+

(×4)
Ring Gripper
3-15-1989

The pattern direction arrow indicates the visible direction through the cloud, in plan view.

S

K Connector

Large U Connector

Small U Connector

Overview: S Pattern

³⁄₆₄" Ø, 8' Cable
with Hook
3-15-1677

Concrete Screw
with Eye Bolt
3-15-8811

or

Wood Lag Screw
with Eye Bolt
3-15-8895

8' max cable
length (2438mm)

4"

48"

48"

Pre-assembled
Clario Cloud Baffle

Ring Gripper
3-15-1989

Overview: K,L,M Hallway

¾₄" Ø, 8' Cable
with Hook
3-15-1677

Concrete Screw
with Eye Bolt
3-15-8811

or

Wood Lag Screw
with Eye Bolt
3-15-8895

Pre-assembled
Clario Cloud Baffle

8' max cable to
Sputnik (2438mm)

Cable length from
Sputnik to Clario
4' maximum
30" recommended
20" minimum

4"

4'

4'

4'

4'

12'

4 Point Sputnik
Cable Connector
3-15-2411

+

¾₄" Ø, 48" Cable
with Terminal End
3-15-1933

+

Ring Gripper
3-15-1989

Overview: Available Modules

144"×144" Plan View

A →	**B** →	**C** →
D →	**E** →	**F** →
G →	**H** →	**J** →

144"
144"

144"×48" Plan View

K →
L →
M →

144"
48"

48"×144" Plan View

N →	**P** →	**R** →

48"
144"

48"×48" Plan View

S →

48"
48"

*S pattern uses the Cable Loop Kit (3-15-1989-K).
The 4 Point Sputnik Kit (3-15-1933-K) is used on patterns A, B, C, D, E, F, G, H, J, K, L, M, N, P, R.

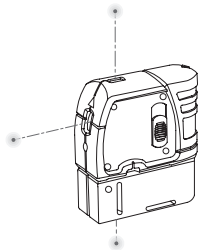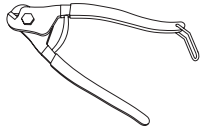## Installation: S Pattern

Required Tools

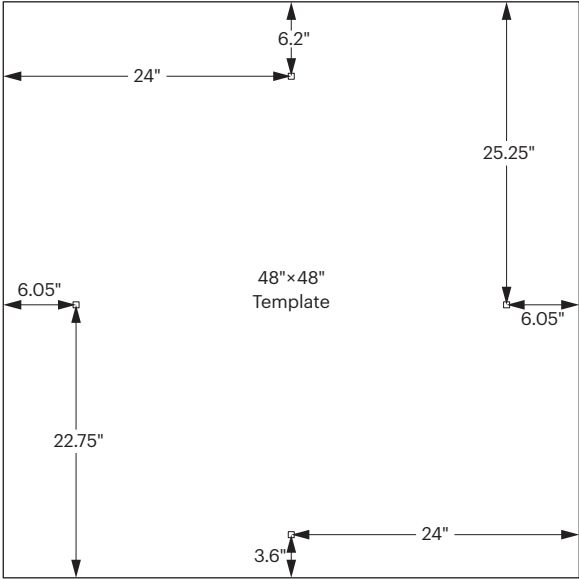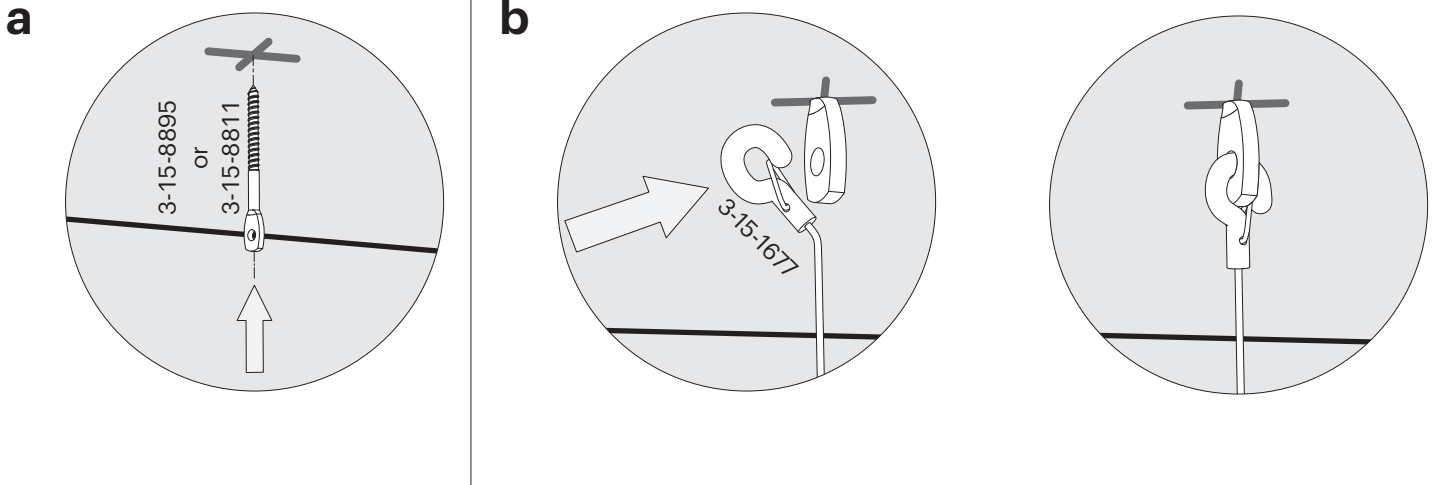|					
Drill	Drill Bits	Level	Laser Level	Cable Cutters	Glue

1 Position Clario Clouds and Mark Mounting Location

3form recommends creating a square template based on the outside dimension of the Clario Cloud, using something like a thin piece of wood or cardboard. Then using the dimensions provided here mark the pick points for your installation as needed. Multiple templates may be helpful with a larger installation of clouds. The pre-installed Clario Cloud Hooks can be used with a laser level to help determine the best anchoring locations for the site conditions.
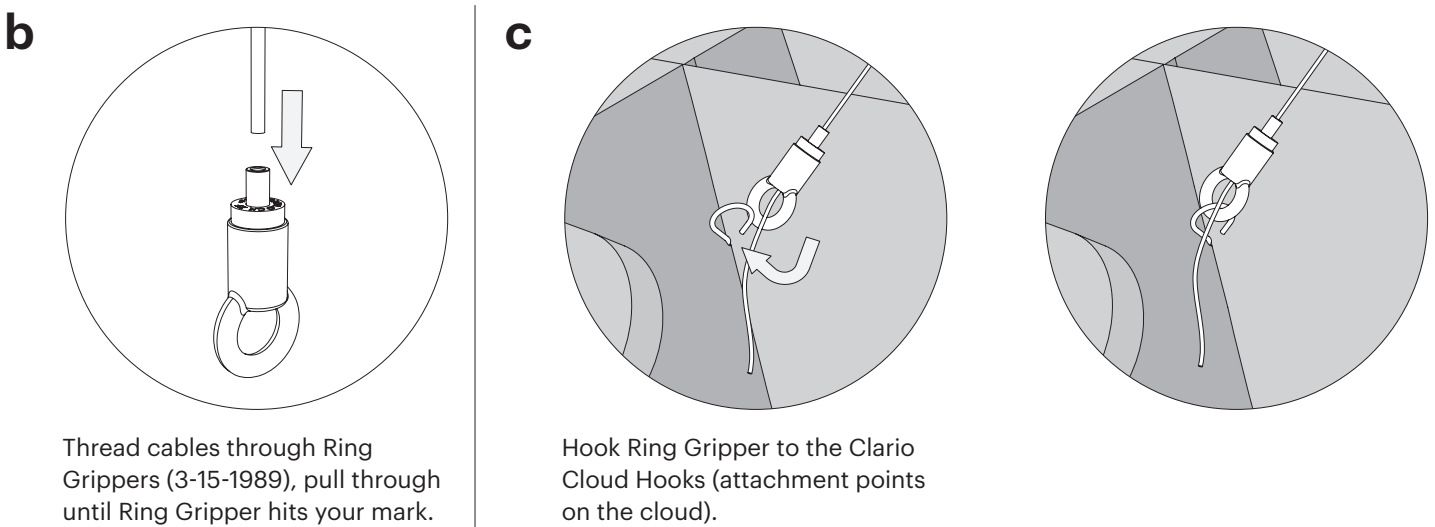
6.2"
24"
25.25"
6.05"
48"×48"
Template
6.05"
22.75"
24"
3.6"

For more information, please visit 3-form.com/Elements or call 800.726.0126

Installation: S Pattern

2 Install Cables and Eye Bolts (×4) into Mounting Surface

a

3-15-8895
or
3-15-8811

b

3-15-1677

3 Attach Cable to Clario Cloud

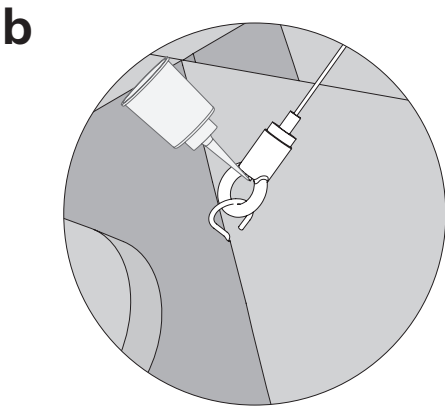**a** Mark lengths of the cables (depending on the chosen height) using a permanent marker.

b

Thread cables through Ring Grippers (3-15-1989), pull through until Ring Gripper hits your mark.

c

Hook Ring Gripper to the Clario Cloud Hooks (attachment points on the cloud).
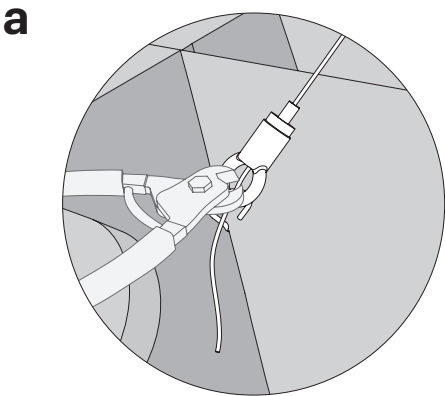
Installation: S Pattern

4 **Level the Clario Cloud**

Make sure cloud is level from all sides. Make micro adjustments at each ring gripper if needed.

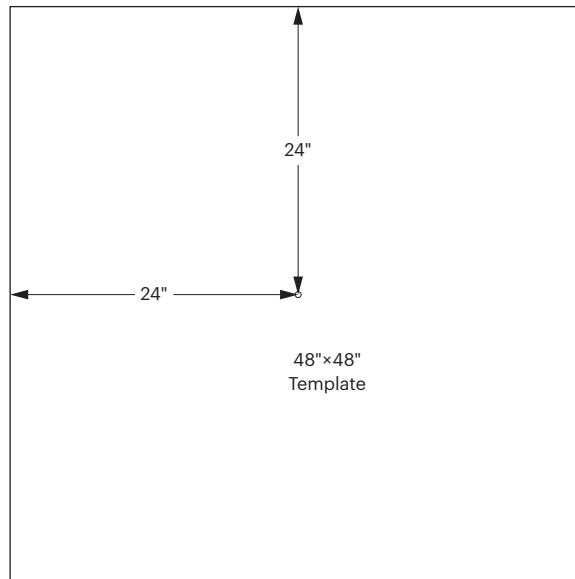**5** **Trim Cables and Glue Ends**

a

b

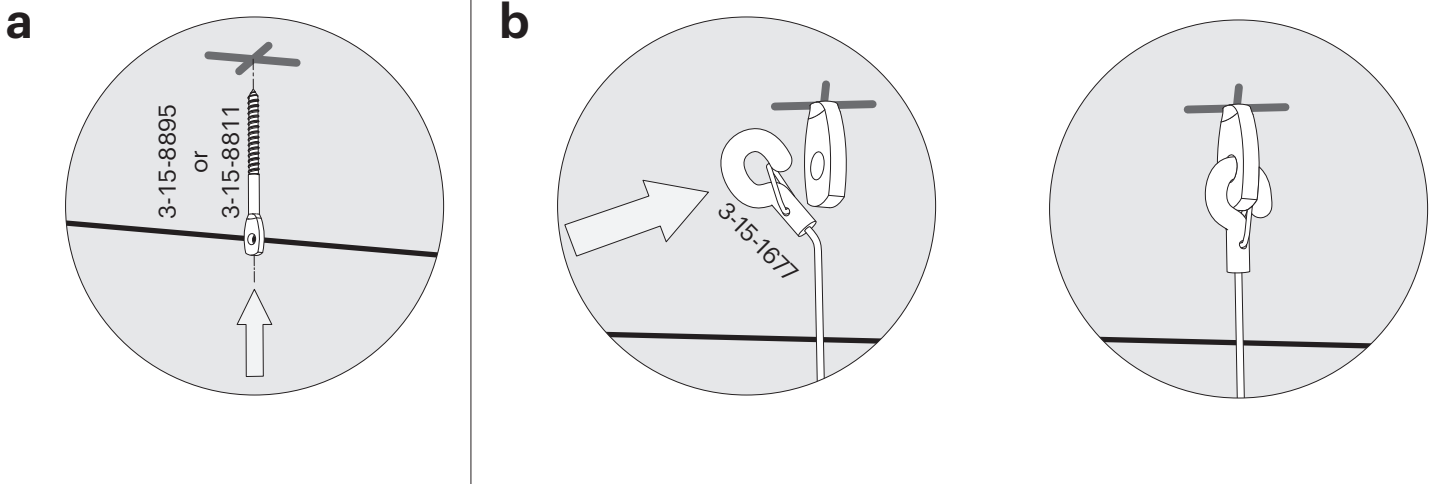## Installation: A,B,C,D,E,F,G,H,J,K,L,M,N,P,R Patterns

1 Position Clario Clouds and Mark Mounting Location

3form recommends creating a square template based on the outside dimension of the Clario Cloud, using something like a thin piece of wood or cardboard. Then using the dimensions provided here mark the pick points for your installation as needed. Multiple templates may be helpful with a larger installation of clouds. The pre-installed Clario Cloud Hooks can be used with a laser level to help determine the best anchoring locations for the site conditions.

When connecting multiple modules, the connection to the ceiling is 48" on center. The center location on the packaging is for reference only.
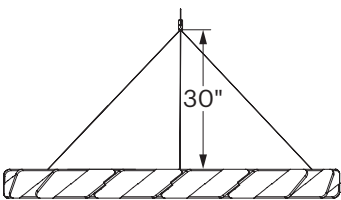
24"

24"

48"×48"
Template

2 Install Cable and Eye Bolt into Mounting Surface

a

3-15-8895
or
3-15-8811

b

3-15-1677

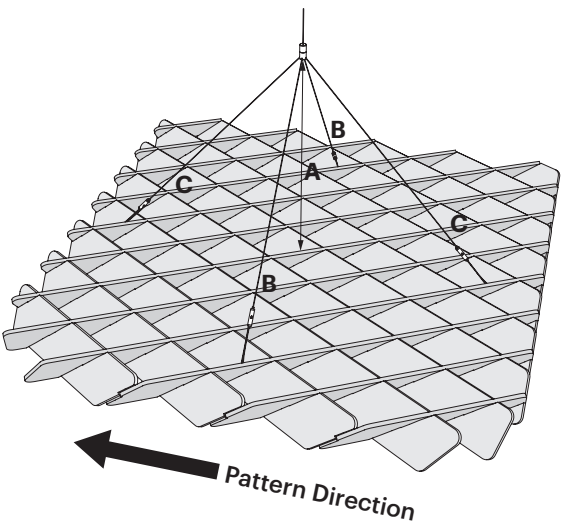## Installation: A,B,C,D,E,F,G,H,J,K,L,M,N,P,R Patterns

3 Assemble 4 Point Sputnik Hanging Anchor

3form recommends installing Sputnik with 30" from top of Clario Cloud to bottom of Sputnik, minimum distance of 20". If using a distance below the recommended 30" height the installer should plan on more time for installation and leveling of the system.
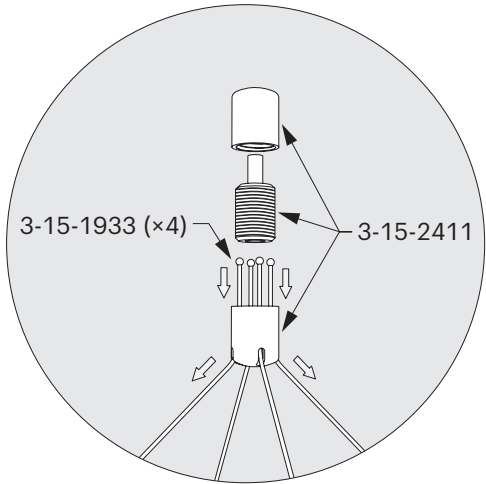
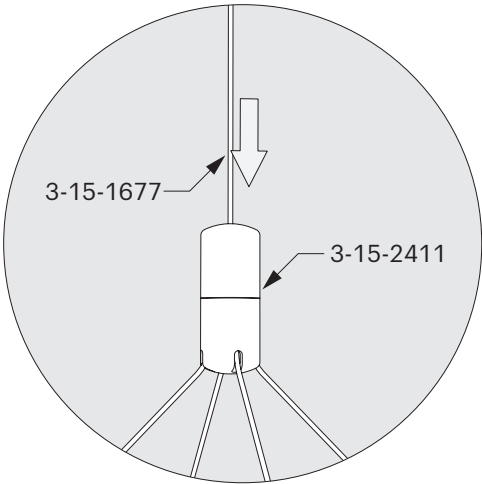| Top of Clario Cloud to Bottom of Sputnik	Cable Length* Perpendicular to Pattern Direction	Cable Length* Parallel to Pattern Direction
A	B	C
30" (recommended)	35.4"	36.3"
20" (minimum)	27.4"	28.6"

Cable lengths are measured from the far end of the ring-side of the Ring Gripper (3-15-1989) to where the cable enters the Sputnik.

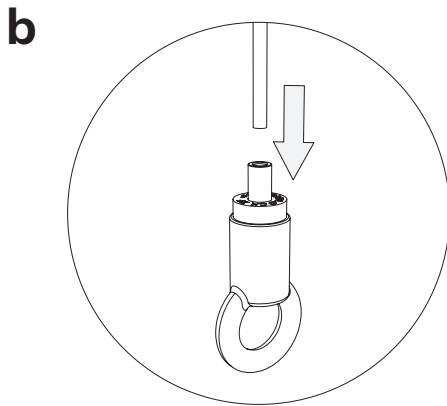**a** Insert ⁹⁄₆₄" cables (3-15-1933) into base and attach base.

3-15-1933 (×4)

3-15-2411

b Insert cable (3-15-1677) hanging from the ceiling.
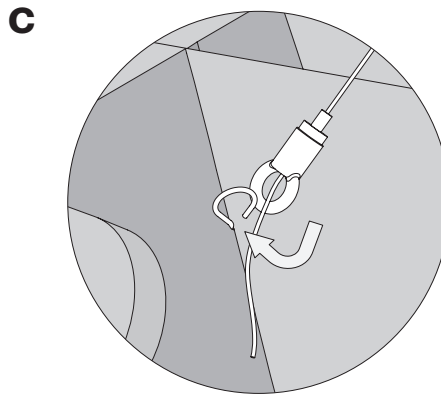
3-15-1677

3-15-2411

Installation: A,B,C,D,E,F,G,H,J,K,L,M,N,P,R Patterns
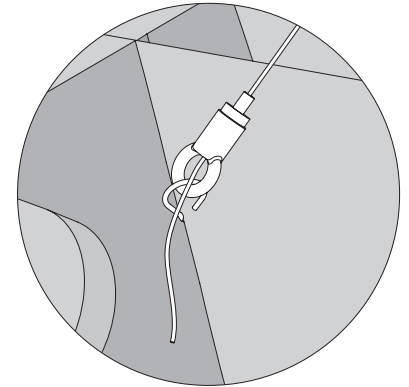
4 Attach Cable to Clario Cloud

a Mark lengths of the cables (depending on the chosen height) using a permanent marker.

---

b

Thread cables through Ring Grippers (3-15-1989), pull through until Ring Gripper hits your mark.
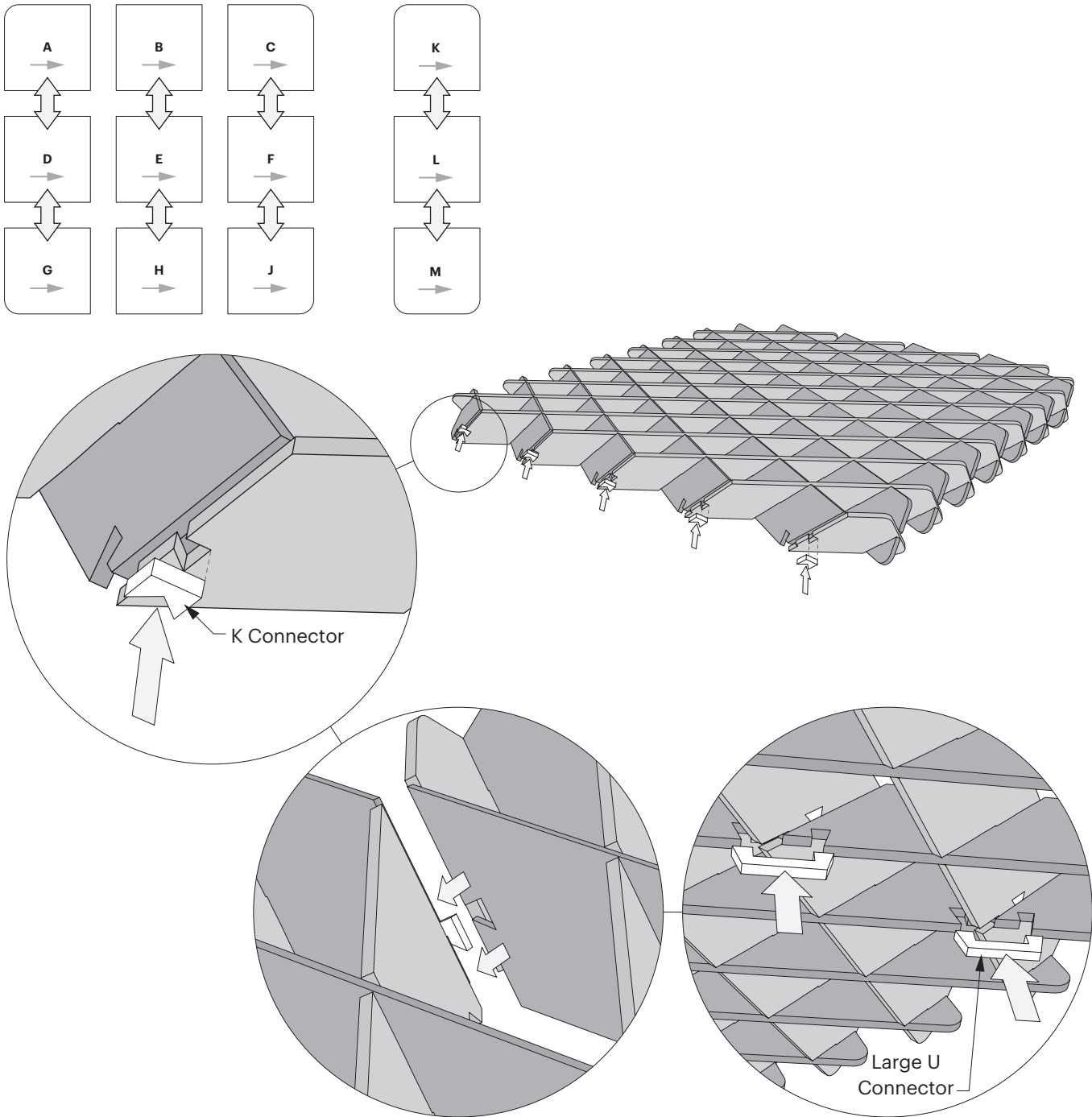
c

Hook Ring Gripper to the Clario Cloud Hooks (attachment points on the cloud).

Installation: A,B,C,D,E,F,G,H,J,K,L,M,N,P,R Patterns
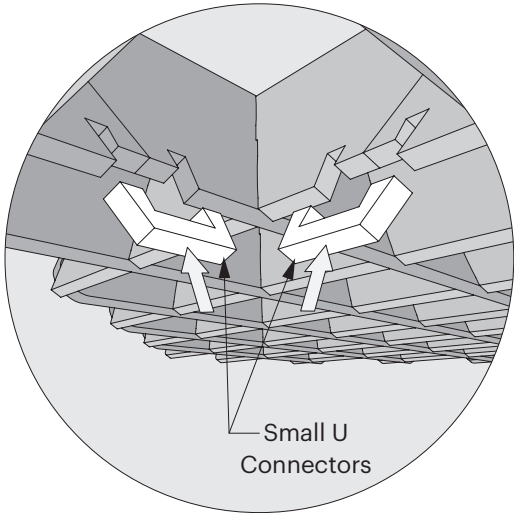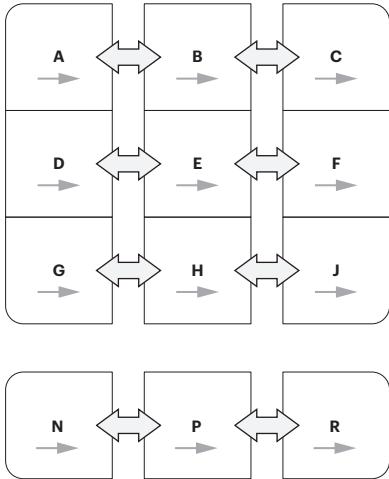
5 Attach Additional Modules

a K Connectors and Large U Connectors are used to connect modules at the locations indicated below.

K Connector

Large U Connector
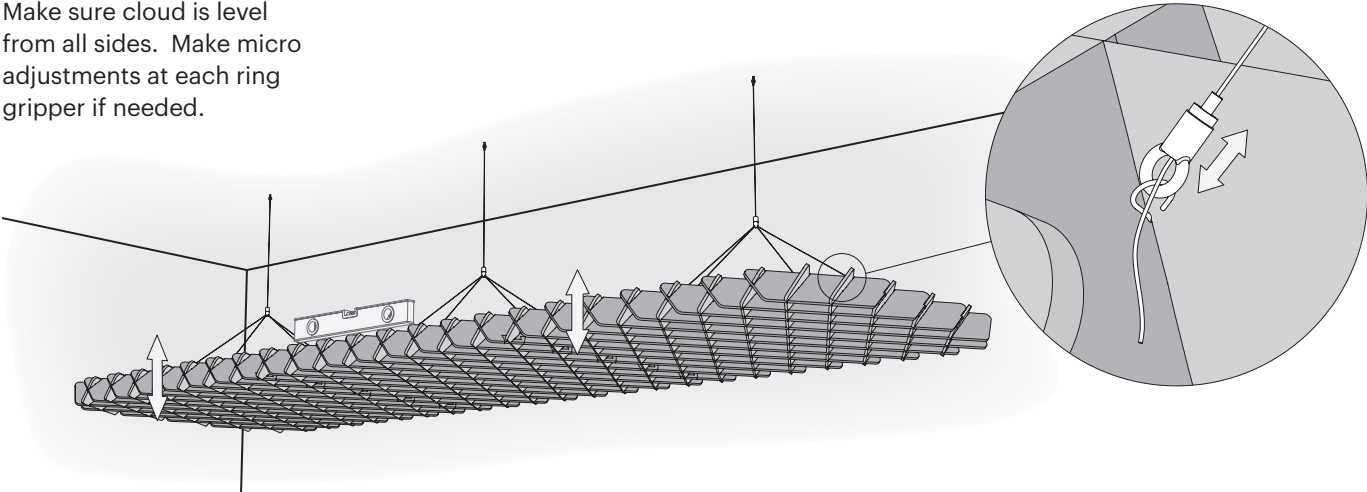
Installation: A,B,C,D,E,F,G,H,J,K,L,M,N,P,R Patterns

5 Attach Additional Modules *cont...*

b Small U Connectors are used to connect modules at the locations indicated below.

Small U
Connectors

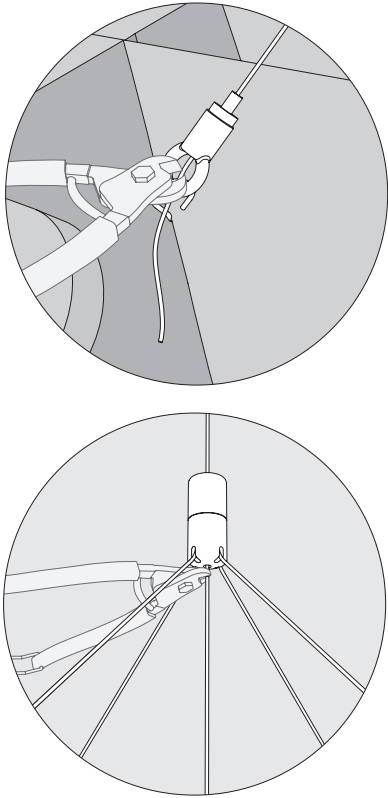## **6** Level the Clario Cloud

Make sure cloud is level from all sides. Make micro adjustments at each ring gripper if needed.

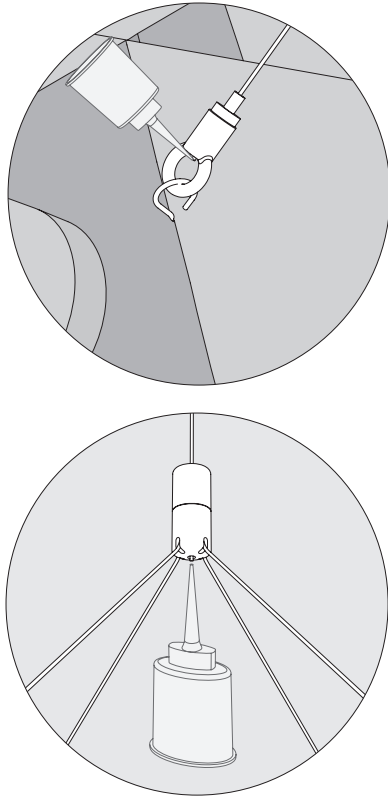## Installation: A,B,C,D,E,F,G,H,J,K,L,M,N,P,R Patterns

7 **Trim Cables and Glue Ends**

a

b

Product Description

Clario Cloud is a felt ceiling system that adds textures, color and acoustic performance to your space. Each module is made from 22 individual fins that are assembled to create a beautiful aesthetic. Available in a variety of Sola Felt colors.
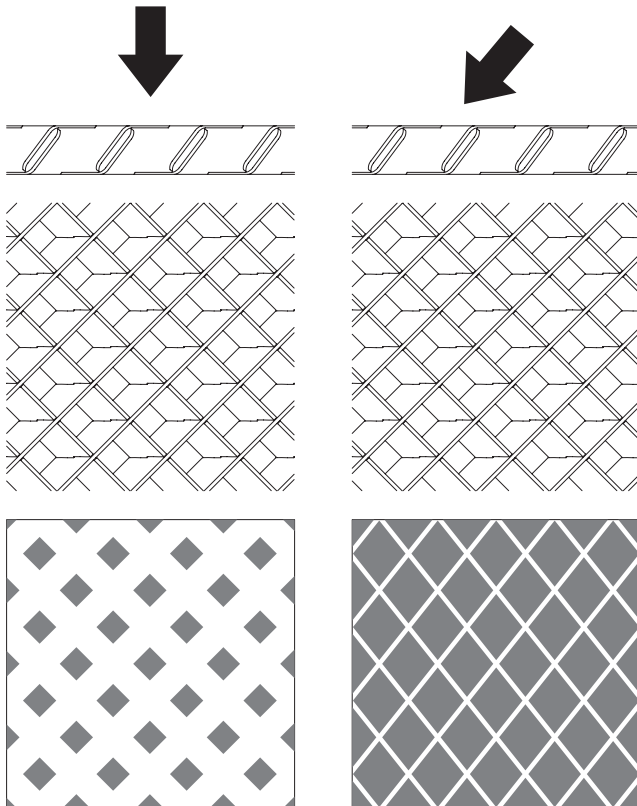
Available Finishes

Clario can be specified in a variety of color options.

See 3form's Sola Felt colors at:
https://www.3-form.com/materials/sola-felt

Openness of Clario Cloud Modules

21.5%   **89%**

Panel Weight

Panel Size	Panel Weight
48"	11 lbs/module

Sound Absorption Test Results

Material	Test - ASTM C423-09	Result
Sola Felt	Noise Reduction Coefficient	0.75
Sola Felt	Alpha-W	0.70MH
Sola Felt	Sound Absorption Average	0.77

Flammability and Smoke Test Results -

Building Code Approvals
Clario Cloud Modules have been independently tested and meet the criteria for approved interior finishes as described in the 2018 International Building Code®.

Test	Clario Cloud	Result
ASTM E84 Flame Spread Smoke Generated	50 300	Class B: 26-75 <450
CAN/ULC 102.2 Flame Spread Smoke Generated	75 200	See Building Code of Canada