

# **SYSTEM 1224**

# **ASSEMBLY & INSTALLATION**

# SYSTEM 1224

## SYSTEM OVERVIEW

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SEG GRAPHIC PANEL  
(Available in Proud and Flush)

8' ENDCAP  
(Available in Shallow & Deep)

PANEL  
(Available in multiple  
sizes and materials)

ACCESSORIES  
(Most available in 24" & 48",  
electrified & non-electrified)

8' UPRIGHT W/ PINS

ASSEMBLY JIG

DRIVER

**GENERAL SCOPE:** System 1224 is a highly customizable, grid-based merchandising system utilizing 8' uprights, panels, and shelving accessories. A key feature of System 1224 is its "Grid Breaking" capabilities, allowing different sized panels to be attached in creative and expressive ways. System 1224 can also be electrified adding a multitude of unique lighting options. This merchandising system's uprights are braced to a wall, with pins every 6" to attach accessories like shelves, cabinets, hangbars, and faceouts. The following pages are instructions for installing a basic System 1224 elevation.

**PROVIDED:**

- (3) Assembly Jigs
- (2) 5/32 Allen keys

**NOT PROVIDED:**

- Hardware to attach to wall (wood screws for furring strips and recommend #10 pan head screws for attaching uprights).
- Furring Strips
- Cord management materials like double-stick tape, zip ties, velcro and other material.

**RECOMMENDED TOOLS:**

- Hand Drill + necessary drill and driver bits
- Levels
- Tape Measure

**SAFETY INSTRUCTIONS:**

- For dry locations only.
- Use only with listed Class 2 driver.
- To reduce risk of fire, do not install in a compartment smaller than 24 inches by 12 inches by 12 inches.

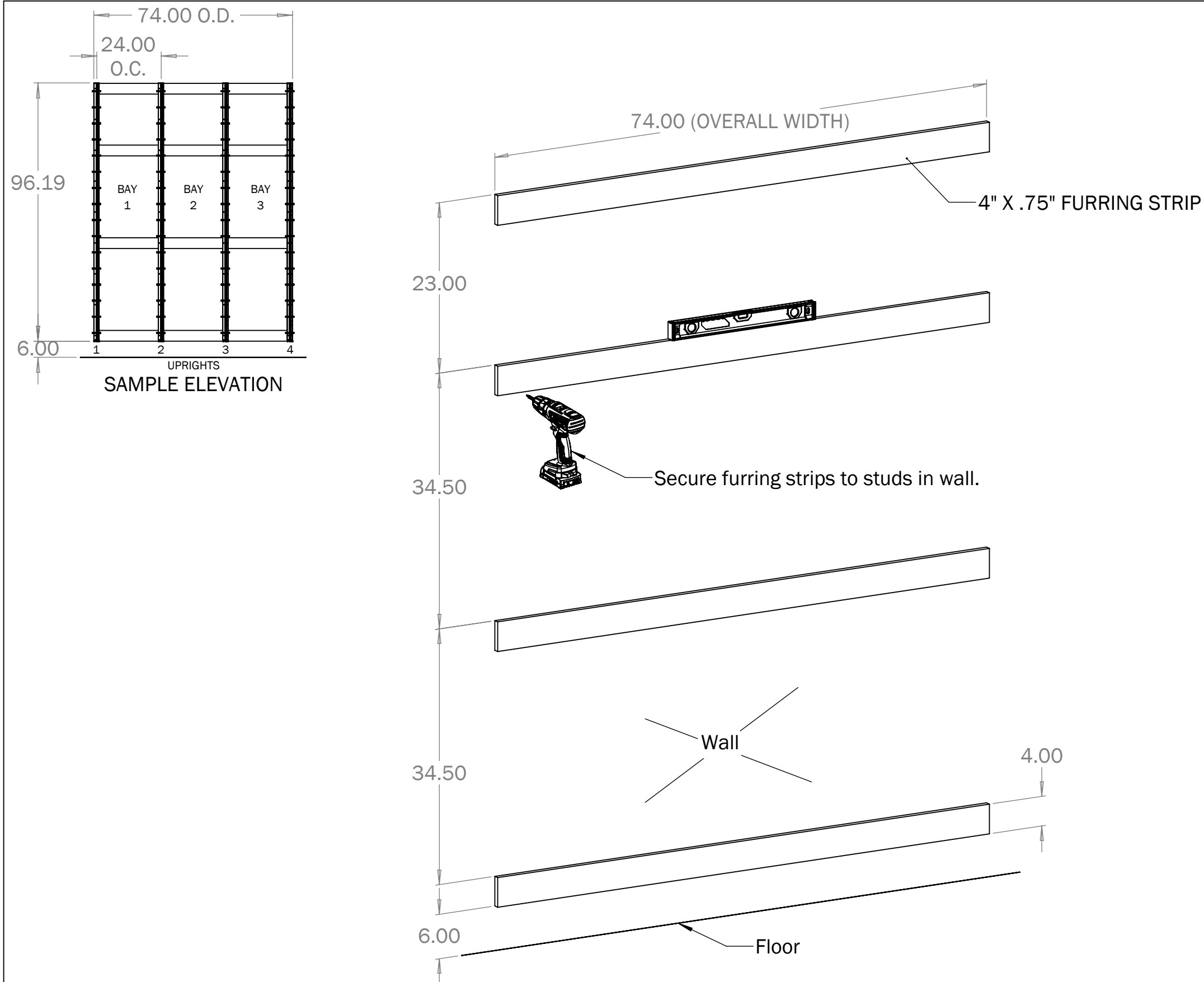
**CAUTION!**

To reduce the risk of fire, electric shock, or injury to persons:

- 1.) Use only insulated staples or plastic ties to secure cords.
- 2.) Route and secure cords so that they will not be picked or damaged when the cabinet or accessory is secured in place.
- 3.) Not intended for recessed installation in ceilings or soffits.
- 4.) The National Electric Code (NEC) does not permit cords to be concealed where damage to insulation may go unnoticed. To prevent fire danger, do not run cords behind walls, ceilings, soffits, or cabinets where it may be inaccessible for examination. Cords should be visually examined periodically and immediately replaced when any damage is noted,

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## FURRING STRIPS



**BEFORE YOU BEGIN:** The following instructions will show a three bay elevation using typical 8' uprights as a sample installation. Although System 1224 can be secured directly to a suitable substrate wall, B+N recommends the use of furring strips. Furring strips will insure a strong and stable installation.

**STEP 1:** Determine the overall width of the elevation. This can be calculated by adding the on-center dimension of the bays plus 1" on each end. For example a three bay elevation is  $24"+24"+24"+1"+1"=74"$ .

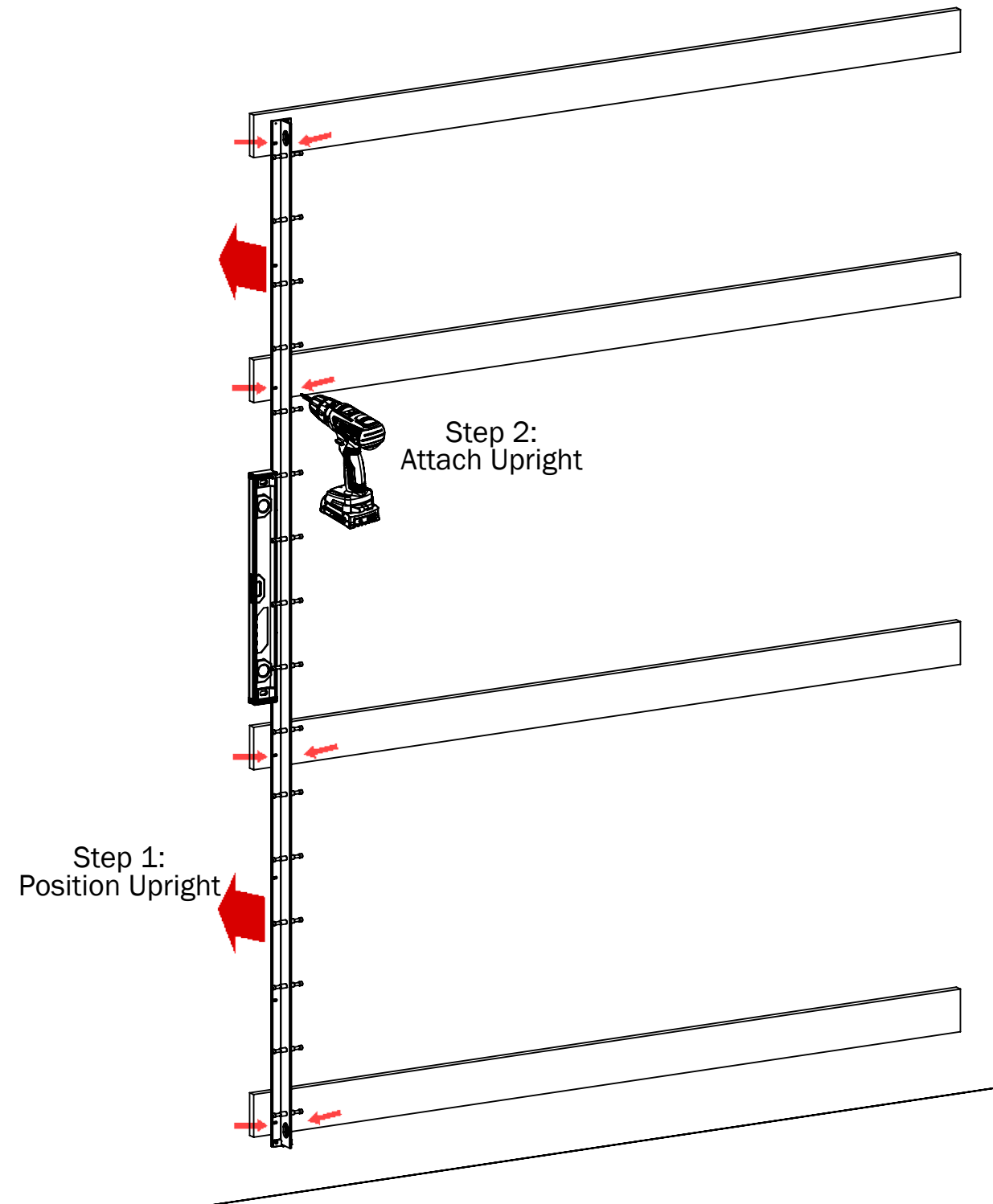
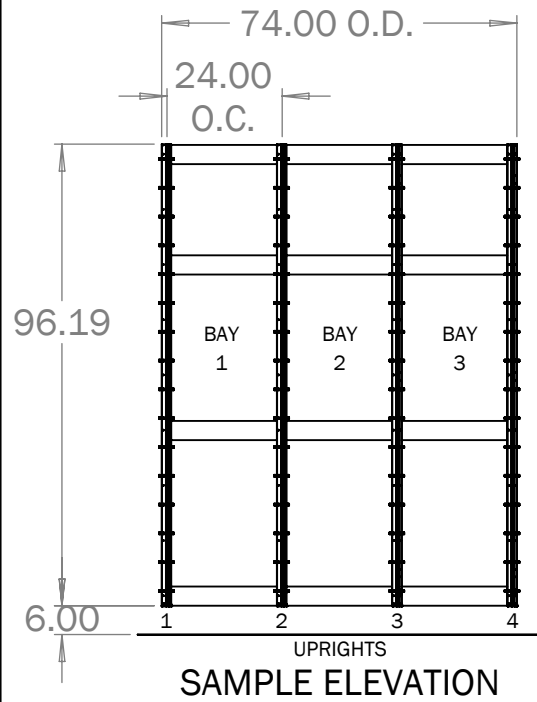
**STEP 2:** Cut four wood furring strips. Furring strip measurements are 4"H X .75" thick X 74" (length calculated above).

**STEP 3:** Locate and mark studs in the wall. Now determine the starting location of the elevation. The first furring strip will be installed 6" (recommended) off the floor. Using a level, secure the furring strip to the wall into the studs.

**STEP 4:** Attach the three additional furring strips using the dimensions shown.

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## INSTALLING 1ST UPRIGHT

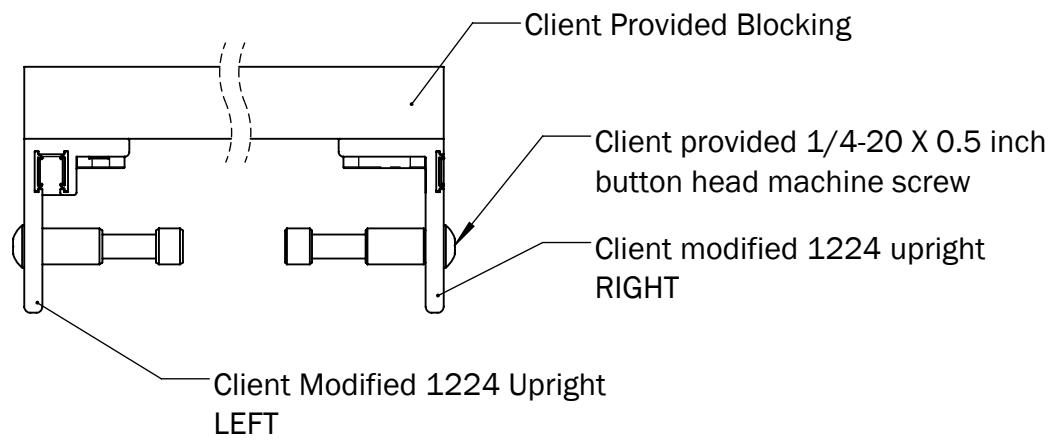


STEP 1: Hold the upright against the left side of the furring strips. The bottom left corner of the upright should align with the bottom left corner of the lowest furring strip.

STEP 2: Using a level, orient the upright vertically and, using #10 button head wood screws (not included) screw the upright to the furring strips in the locations marked. The holes in the upright are slotted allowing for some adjustability. If the furring strips were properly installed, the edges should align with the left edge of the upright.

STEP 3: Before fully seating screws, verify the upright is vertically level and not bowed. Proceed to next page.

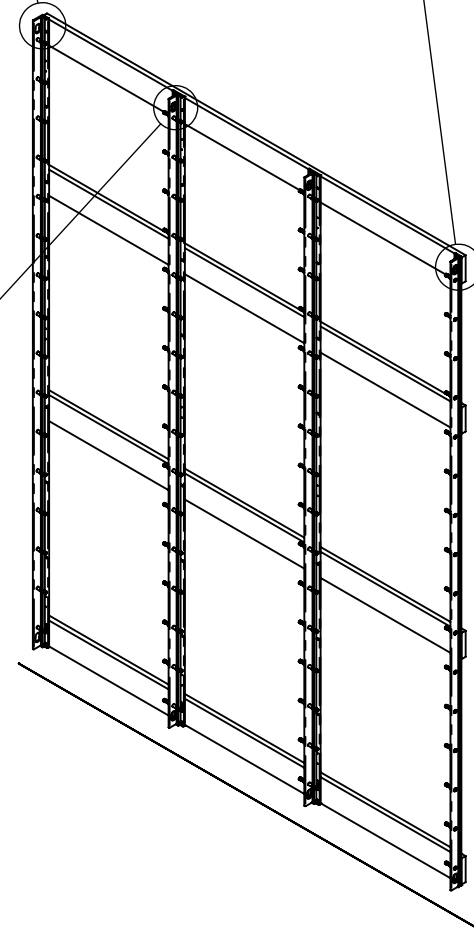
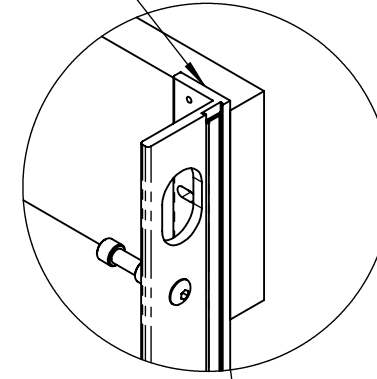
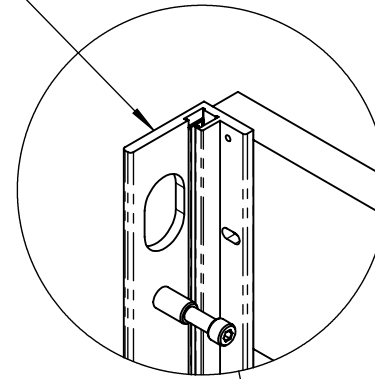
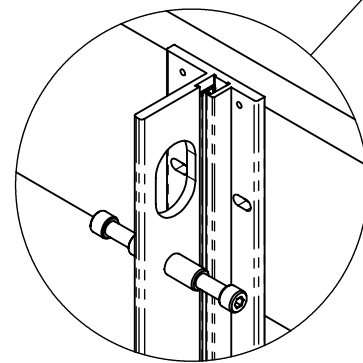
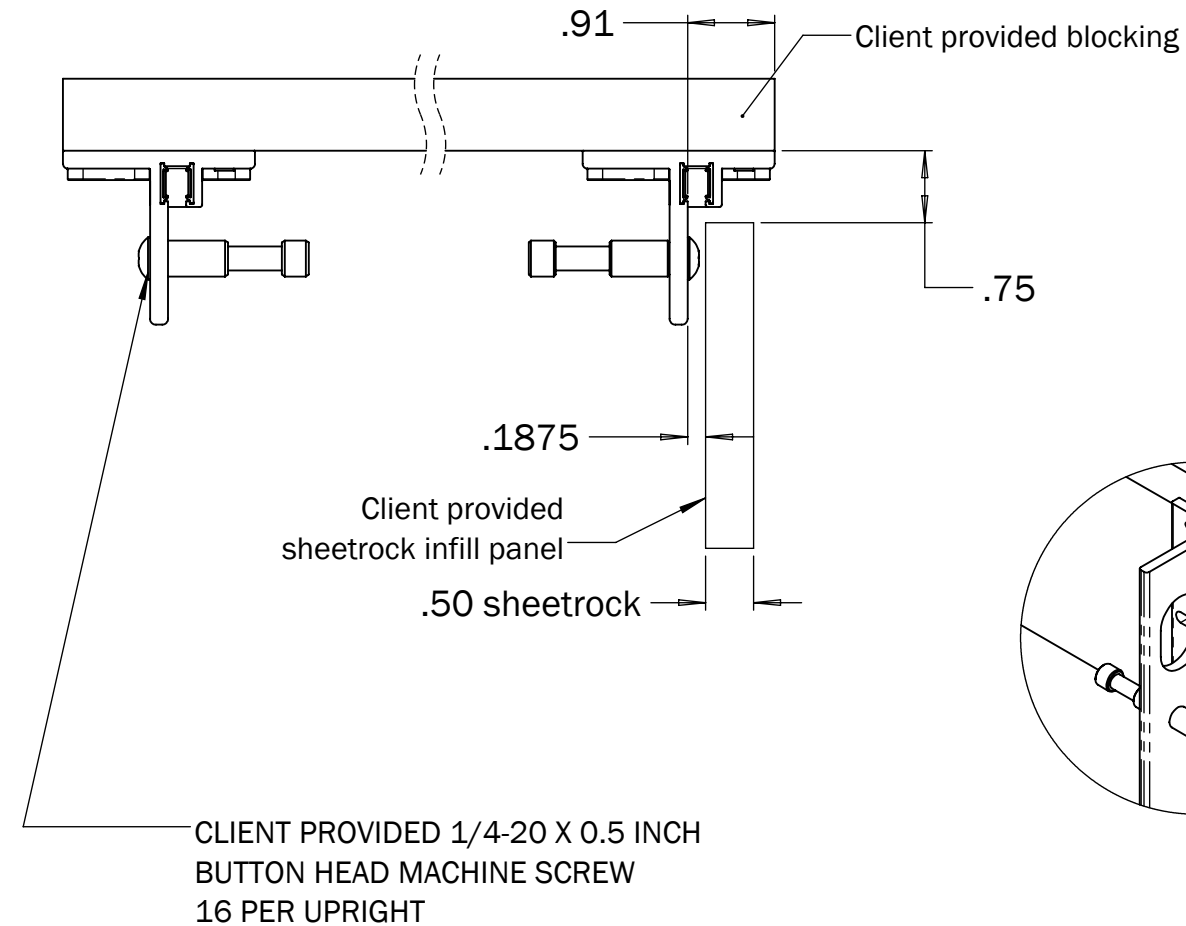
### OPTION 1: MODIFIED UPRIGHT



Client modified upright LEFT

Client modified upright RIGHT

### OPTION 2: STANDARD UPRIGHT



Some clients may prefer to create a custom recessed installation that due to space constraints or design preference, does not allow for the use of a B+N Endcap. With a skilled installer, these type of modifications are possible. The drawings and details below are provided as a guide to the installer only.

**Either type of installation as described below will void the B+N warranty as well as voiding the stated B+N System 1224 weight capacities. Perform these installations at your own risk.**

#### Option 1: Client Modified Uprights

By cutting off the outside wing of the upright, it is possible to install the upright very close to a sheetrock wall. As stated above, this type of installation will void the B+N warranty and reduce the overall weight capacity of the system. B+N not responsible in the event of structural failure.

1. Remove all pins
2. Cut upright as shown in images at left
3. Replace only the inward facing pin halves.
4. Use client provided 1/4-20 x 0.5 long button head machine screw to attach pins to upright.
5. Attach upright to wall/furring strips using remaining holes not removed in the upright modification process.

#### Option 2: Standard Upright.

It is also possible to get the same built in, no endcap look by first installing the full upright to the wall and then covering the unwanted exposed half of the upright with a sheetrock build up. This option will limit access to the upright and its electrical components after installation.

1. Remove all pins
2. Replace only the inward facing pin halves.
3. Use client provided 1/4-20 x 0.5 long button head machine screw to attach pins to upright.
4. Install upright as directed on previous install page, note the required clearances as shown at left.
5. Build up sheetrock to cover up the exposed 1224 upright.

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## USING ASSEMBLY JIGS

**GENERAL SCOPE:** To insure the uprights are installed at the proper distance apart, B+N provides Assembly Jigs. The jigs are installed between uprights by removing pins from the uprights, and attaching the jigs inbetween. The jigs are designed to create a perfect 24" on center installation; necessary to insure System 1224 functions properly.

**PROVIDED:**  
3 Spacing Jigs  
2 5/32" Allen Keys

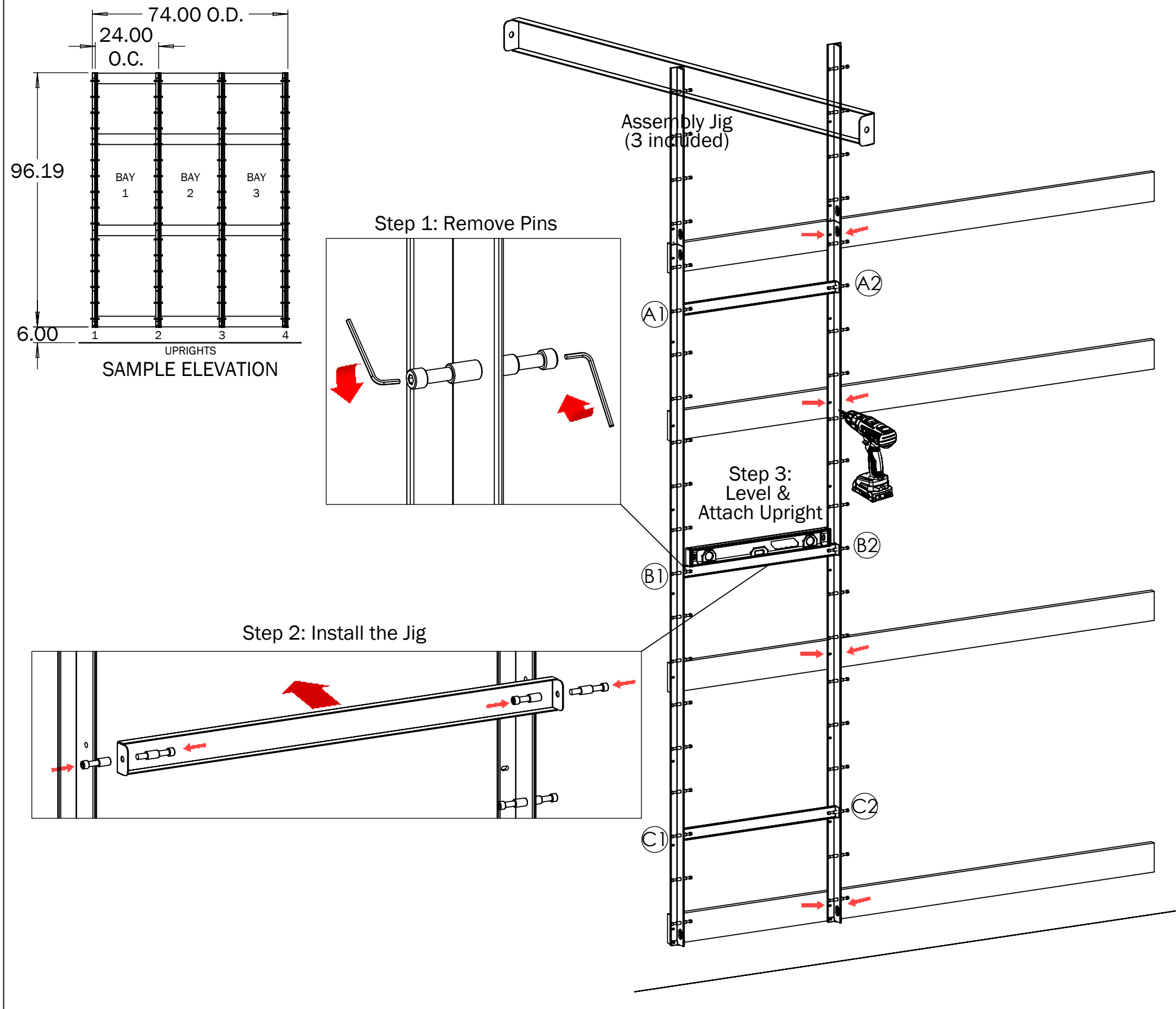
**STEP 1:** After installing the first upright, gather the three included Assembly Jigs. Select pins on the installed upright near the top, middle, and bottom (Labeled A1, B1, and C1) and remove them using two allen keys. Remove the corresponding pins on the next upright in a similar fashion (Labeled A2, B2, and C2).

**STEP 2:** Slide one of the Assembly Jigs in between the first upright and the next upright. This is easiest if one person holds the upright against the furring strips while another installs the jig. Attach one half of the pin set through one side of the jig, through the upright, and into the matching pin. Tighten the pin set. Do this for each end of the jig. Repeat the process for the remaining two jigs. The next upright is properly spaced to 24" on-center.

**STEP 3:** Using levels on the jigs and upright as needed, screw the next upright into the furring strip and into position where marked.

**STEP 4:** After removing the pins holding the jigs in place, remove the jigs. Some force may be required to pull the jigs out of position. Replace the three sets of pins on the first upright, but leave the three sets on the second upright off in preparation for installing the next jig and upright.

**STEP 5:** Install the remaining uprights following the steps above.



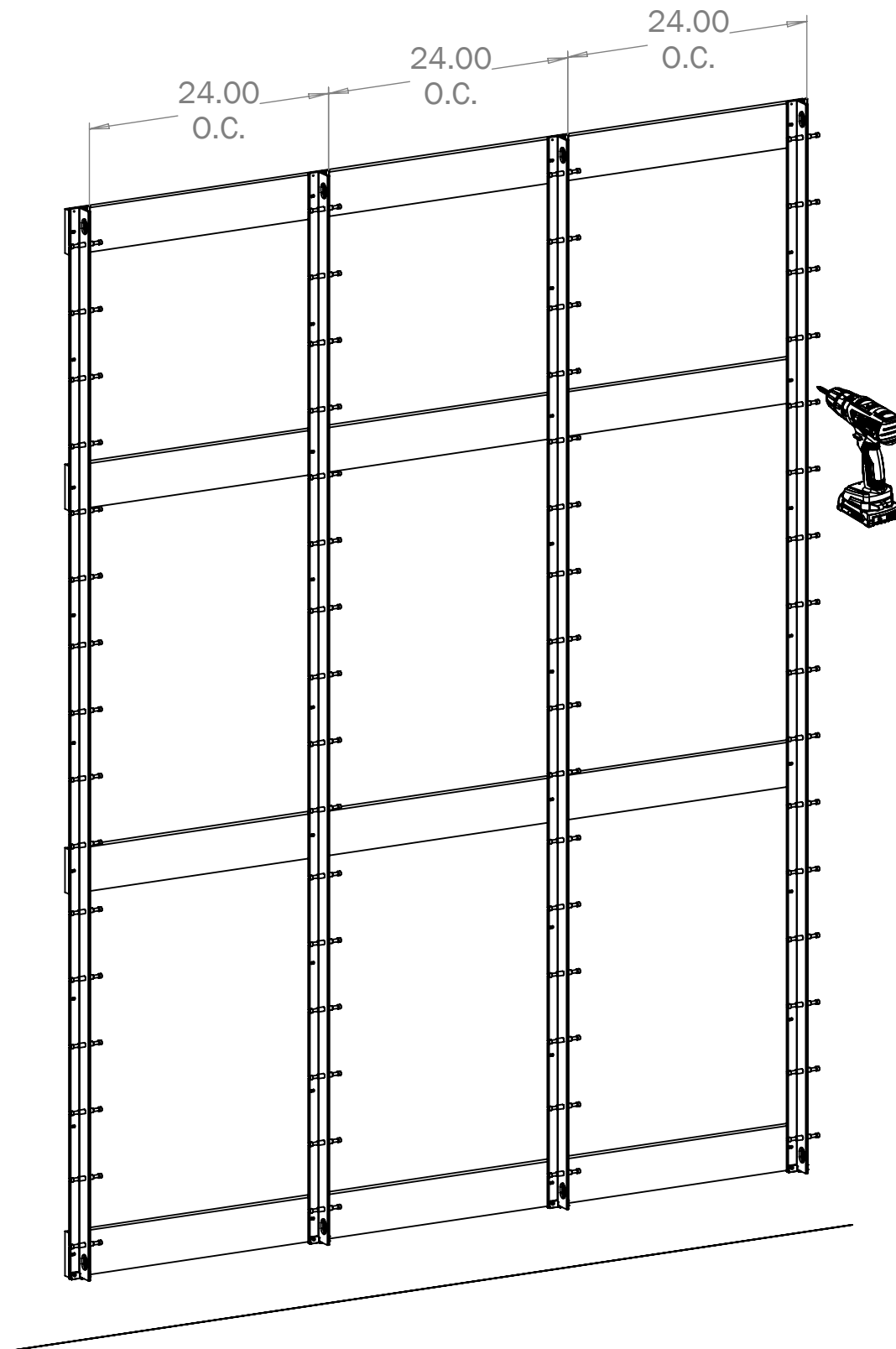
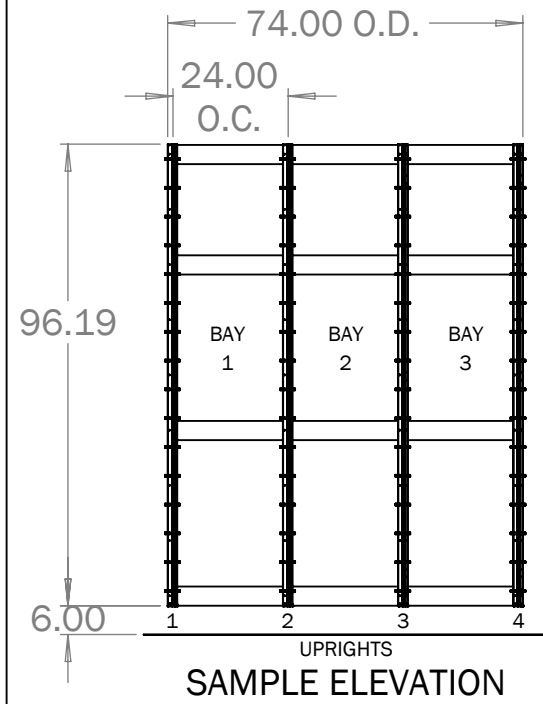
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## FINISHING UP

Repeat the steps from the previous page to install all remaining uprights.

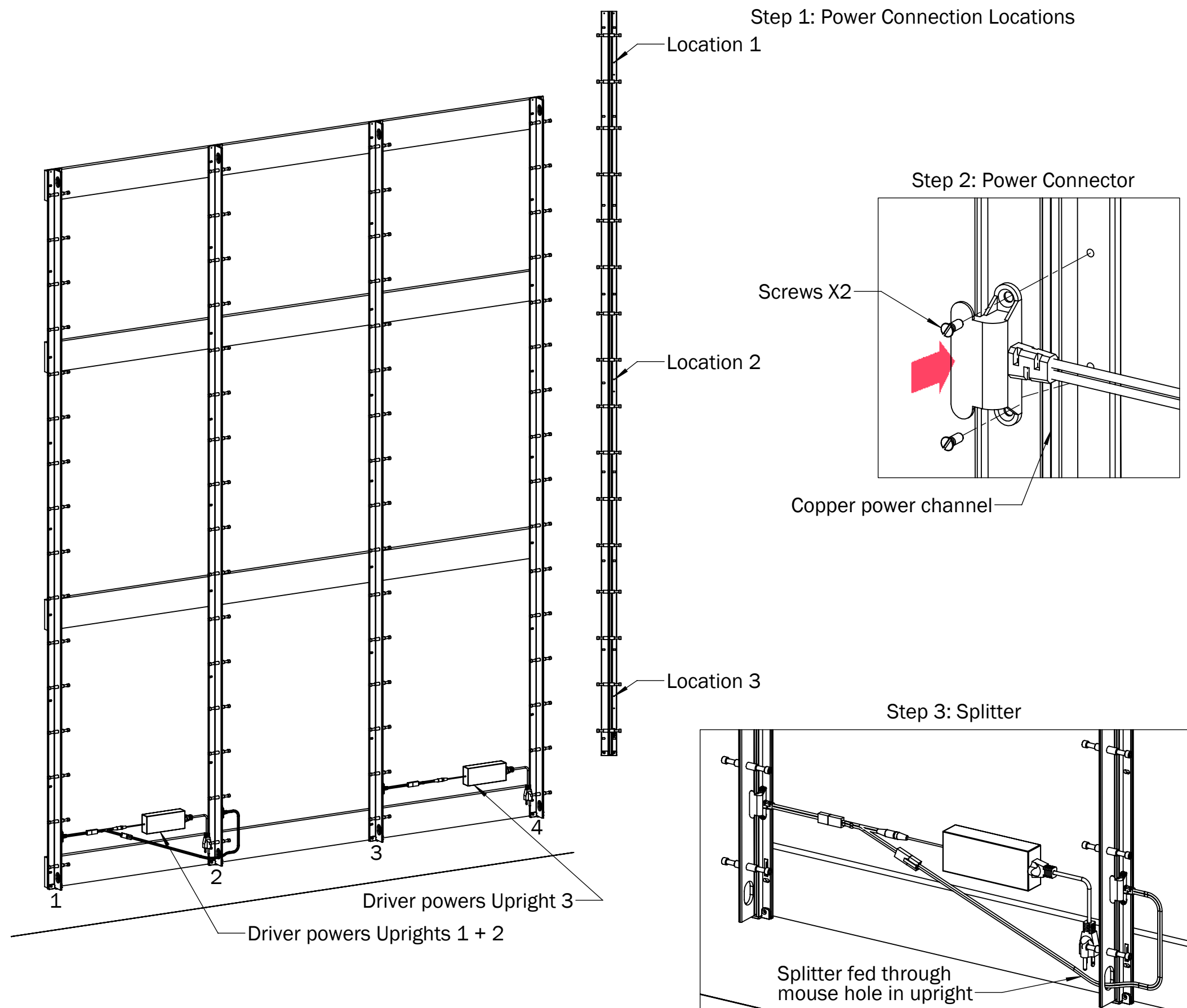
...If the elevation is electrified, continue with the next page "Connecting Power."

...If the elevation is *not* electrified, please proceed to "Installing Panels."



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## CONNECTING POWER



**General Scope:** The powering of the uprights is accomplished by using a driver connected to a power connector, which in turn is connected to the upright. The power connector makes contact with a copper channel that runs the length of the upright. The power needs of the setup will determine how many drivers are necessary to power the accessories. This example elevation will use a typical setup of one driver powering two uprights via a splitter.

**STEP 1:** There are 3 pre-determined locations for connecting the power along the upright (see image). Choose the one that best fits the needs of the setup. Using double stick tape (not included) affix the driver to the wall, assuring the power cord can reach the wall outlet.

**STEP 2:** Position the power connector into the copper channel on the first upright, and screw the connector into position. Use electrical tape, velcro, or wire cords to create a clean wire management layout.

**STEP 3:** Connect a power connector to the next upright. Feed the wire through a mouse hole and into the splitter coming off the driver. Again create a tidy wiring layout.

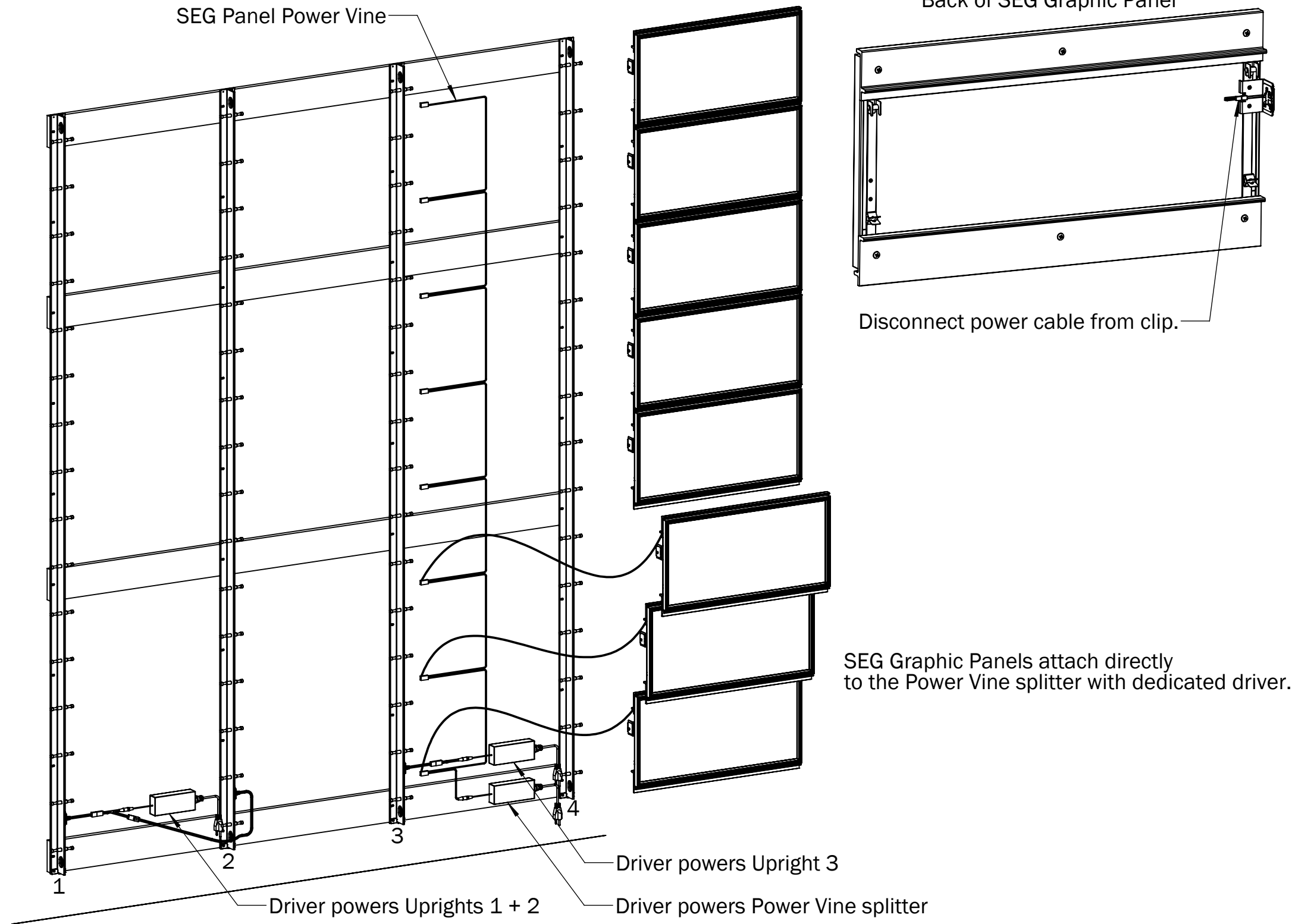
**STEP 4:** Because this example setup uses 3 bays (4 uprights), there is need for one more driver, which only powers the third upright. There is no need for a splitter. Attach the driver and power connector as done previously in Steps 2 and 3.

**STEP 5:** Connect the driver power cords to the wall outlets. The setup is now electrified and ready for electrified accessories.



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## DEDICATED POWER FOR SEG PANELS



General Scope: Drivers provide a total of 96 watts of power. For setups needing additional wattage to power not only shelving accessories, but also SEG graphic panels, the Power Vine splitter is used. The Power Vine provides dedicated power to only the SEG panels using an additional driver.

STEP 1: On the back of the SEG Graphic Panel, disconnect the connector to the clip.

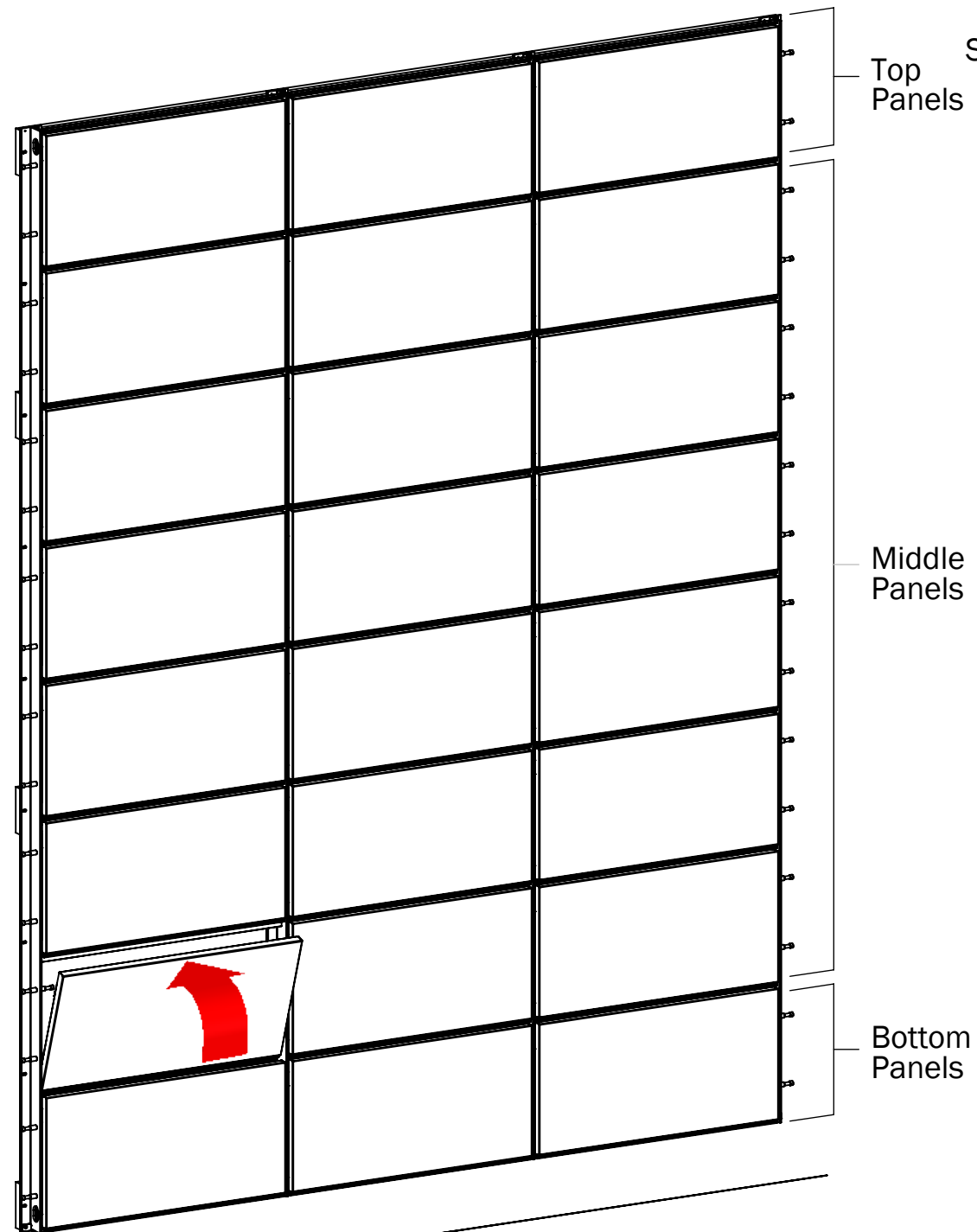
STEP 2: Using tape or other means to hold the Power Vine in place, position the Power Vine on the wall surface so that the splitter end connectors will align with the cable on the back of the SEG panel. Secure the additional driver in an appropriate location and connect it to the Power Vine.

STEP 3: Starting at the bottom-most SEG panel, connect corresponding Power Vine connector the cable on the back of the SEG panel and install the panel.

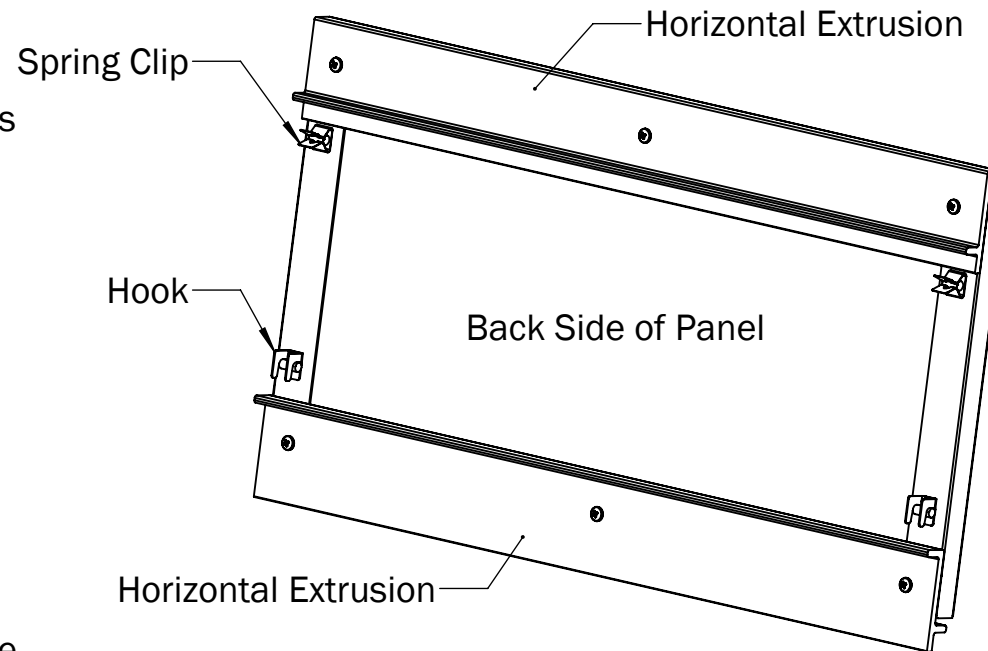
STEP 4: Repeat for all remaining SEG panels.

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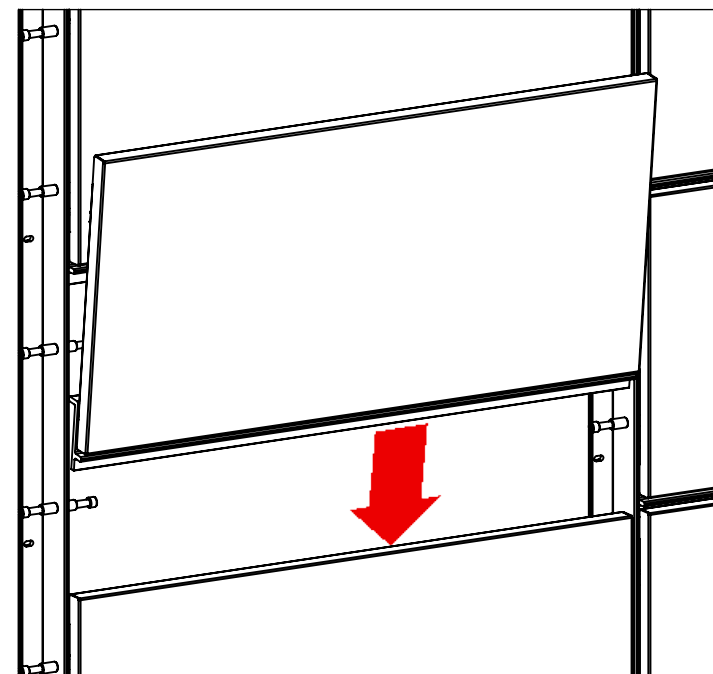
## INSTALLING PANELS



Step 3: Rotate panel, snap into place.



Step 2: Slide panel hook onto pins.



**GENERAL SCOPE:** The grid-breaking panels of System 1224 come in many different sizes and finishes, including electrified SEG graphic panels. Panels are location specific, labeled Top, Middle, or Bottom. The difference being the orientation of the horizontal extrusions on the back surface. Panels are attached by two hardware types: spring clips and hooks. Most panels have hooks located in the bottom, with the rest of the hardware being spring clips, the exception being Bottom panels which use just spring clips. The following instructions explain installing a typical 1 foot high by 2 foot wide metal panel.

**RECOMMENDED TOOLS:**  
No tools needed

**STEP 1:** Determine which panel will be installed and whether it is located Top, Middle, or Bottom (see image on left). Panels will be labeled accordingly.

**STEP 2:** Holding the panel at a slight angle, locate the lower hooks onto the upright pins.

**STEP 3:** Rotate the panel up and the spring clips will snap into position on the upright pins, locking the panel into place. Repeat for all other panels.

**Note:** Bottom panels only use spring clips and are pushed into position straight on.

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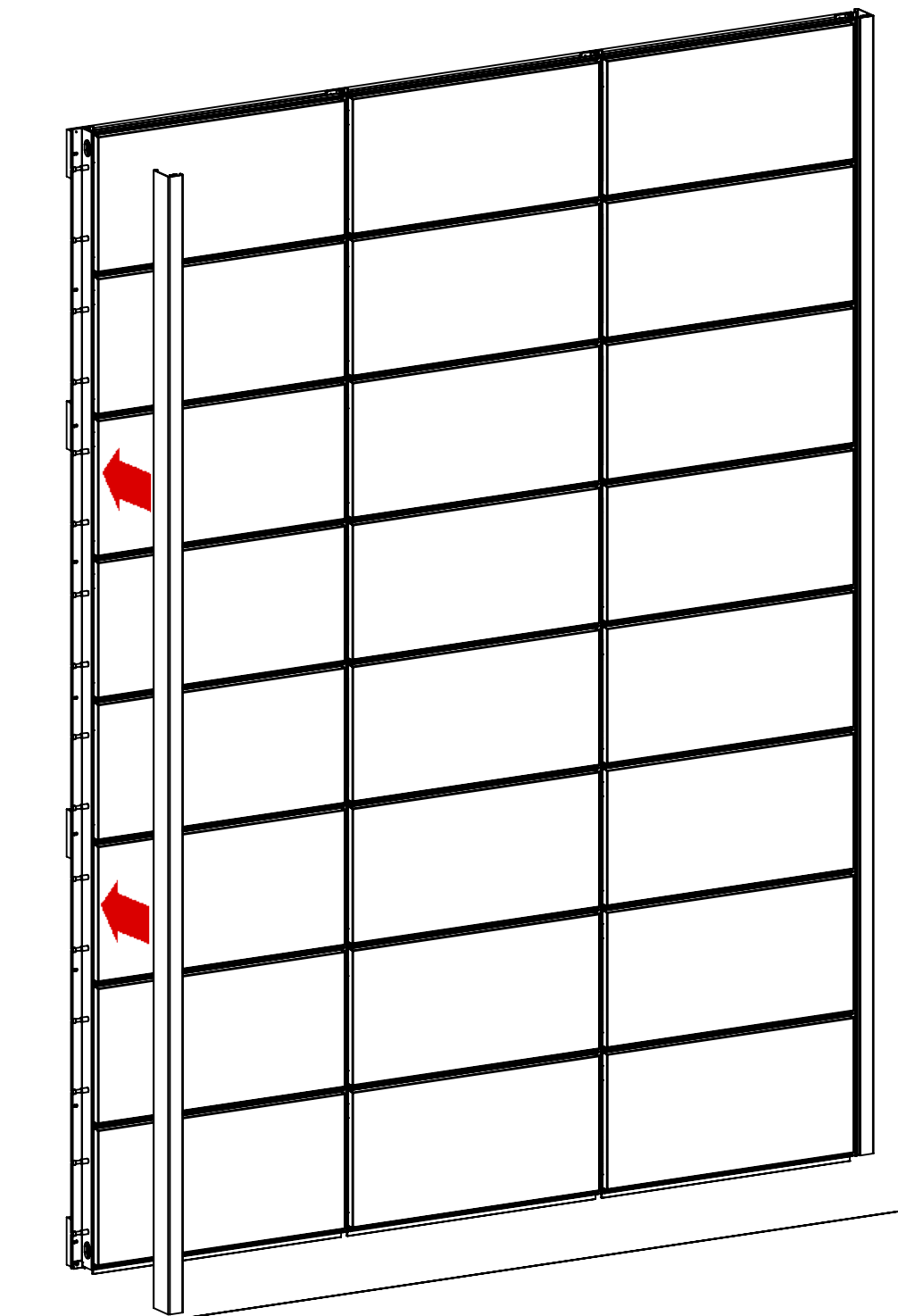
## ADDING ENDCAPS

**GENERAL SCOPE:** End Caps cleanly finish the System 1224 elevation. They are available in both Shallow and Deep variations. Deep End Caps are used when the uprights are secured to furring strips, and Shallow End Caps are used when the uprights are secured directly to the wall.

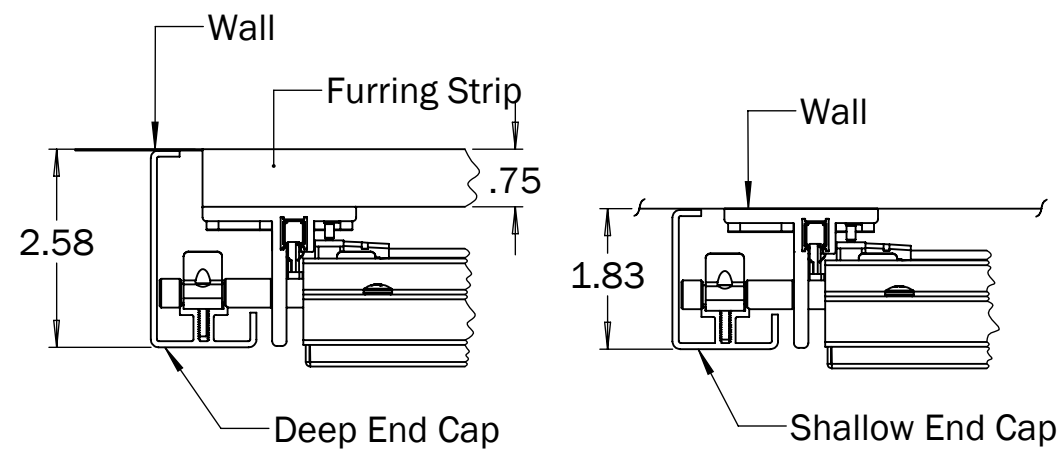
**RECOMMENDED TOOLS:**  
No tools needed

**STEP 1:** Starting on the left side, orient the End Cap properly so that the spring clips face the upright pins. Simply push the spring clips on to the pins and the End Cap will snap into position.

**STEP 2:** For the right side, repeat Step 1.



Step 1: Snap End Cap into place

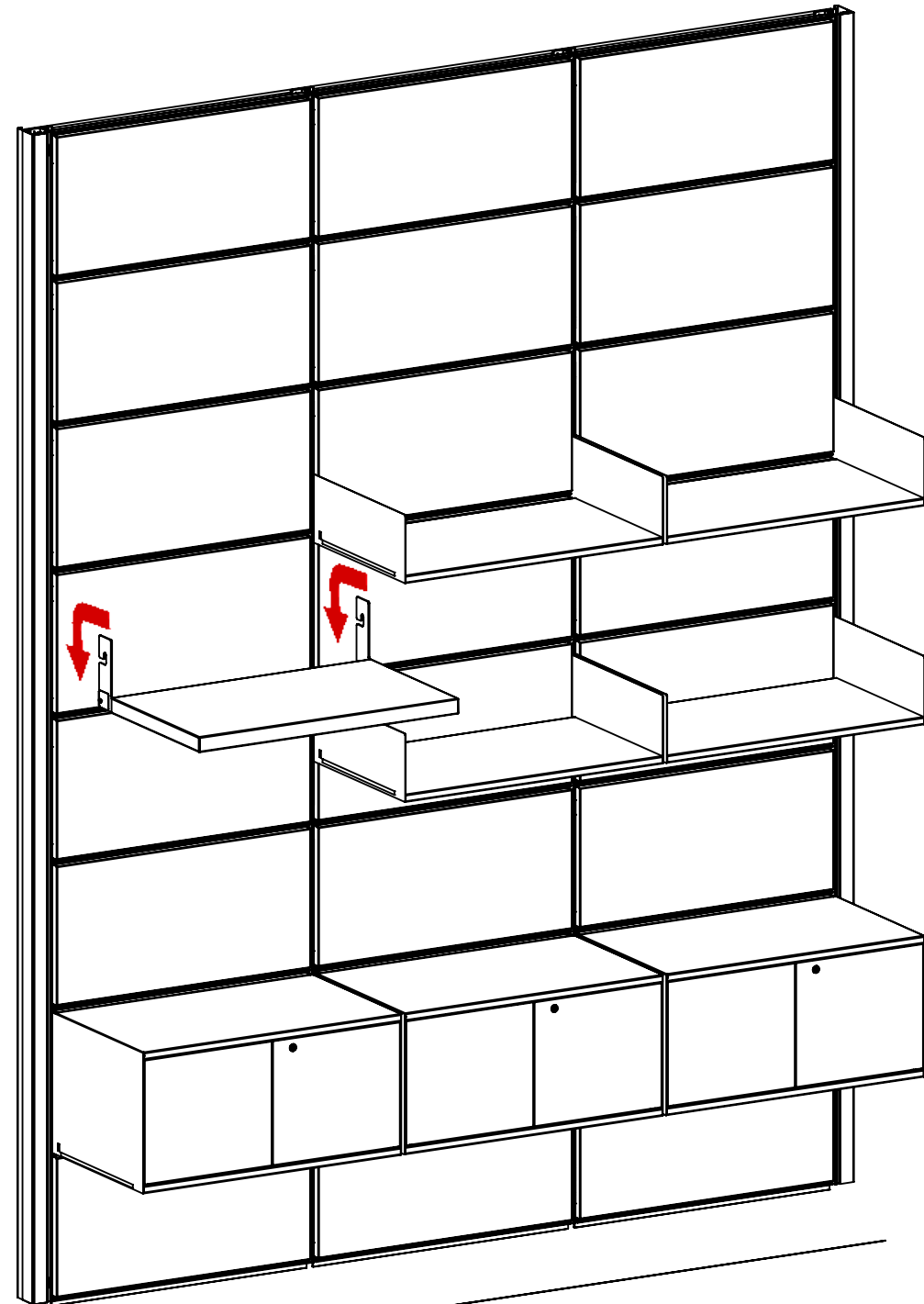


Top Views of End Caps

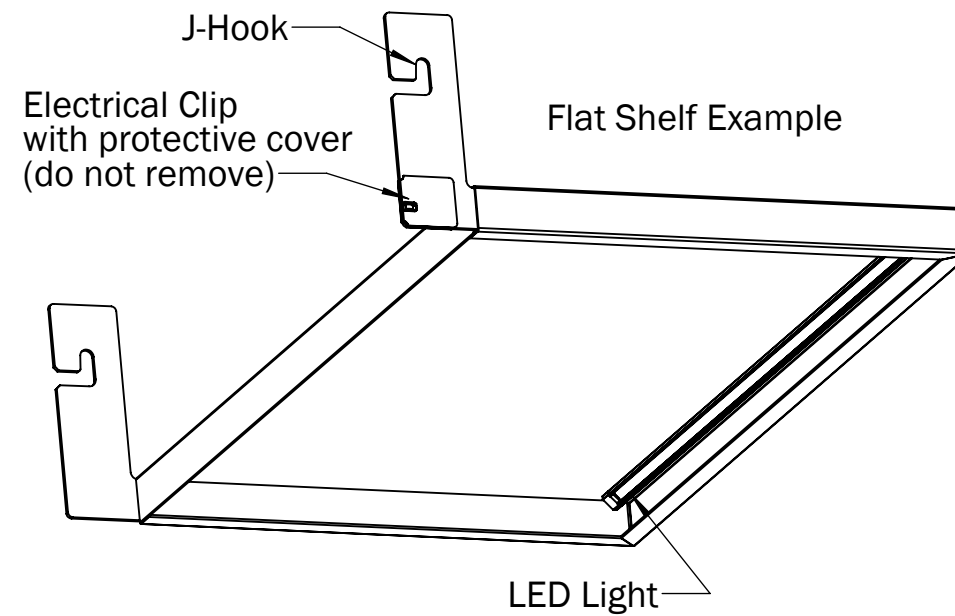
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## ADDING ACCESSORIES

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Step 2: Lock accessory into position



**GENERAL SCOPE:** System 1224 has a wide range of shelving and cabinet accessories, available in 24" and 48" wide, and many of those also come as electrified lit versions. Adding accessories is made effortless, utilizing the j-hook feature, and hanging from the upright pins. Install locations are vertically every 6" along the upright.

**RECOMMENDED TOOLS:**  
No tools needed

**STEP 1:** Determine the location of the accessory. Pin locations are visible in the gap between the panels and front visible edge of the upright.

**STEP 2:** Position the accessory so that the j-hook on the rear of the accessory lines up with the desired pin. Slide the accessory into the gap, with the slots of the j-hooks engaging the pins. Push the accessory down to lock it into place. If the accessory is electrified, the LED light will automatically turn on.

**Note:** Some accessories, like cabinets, use multiple j-hooks to support the accessory. They are installed in a similar manner.

**Thank you for choosing  
SYSTEM 1224!**

**BN**

**B+N INDUSTRIES, INC.**

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