Flex Series

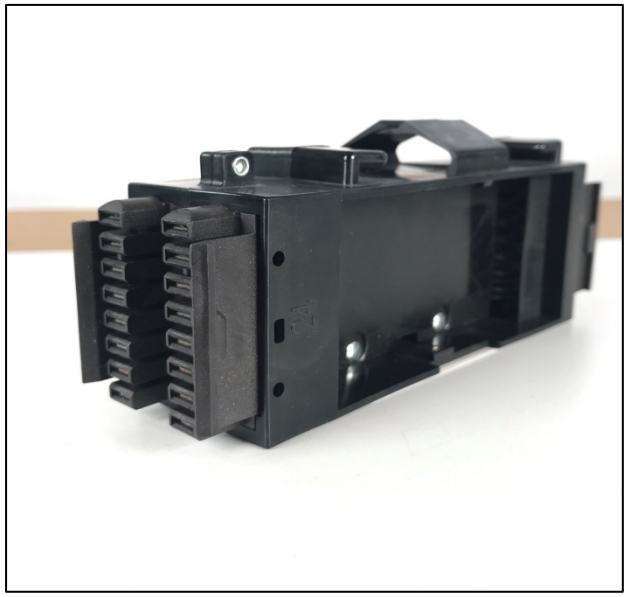
Byrne Electrical System Installation
Low Voltage Data Installation

Materials - Electrical Components:

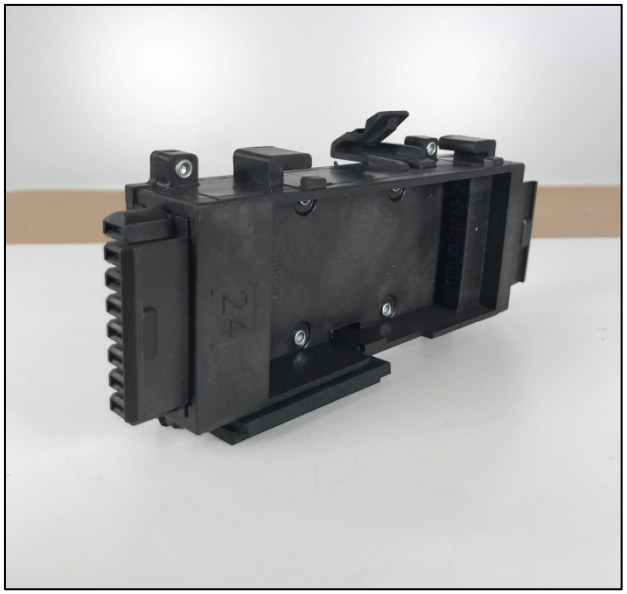
Power Entry

Male-Male Jumper

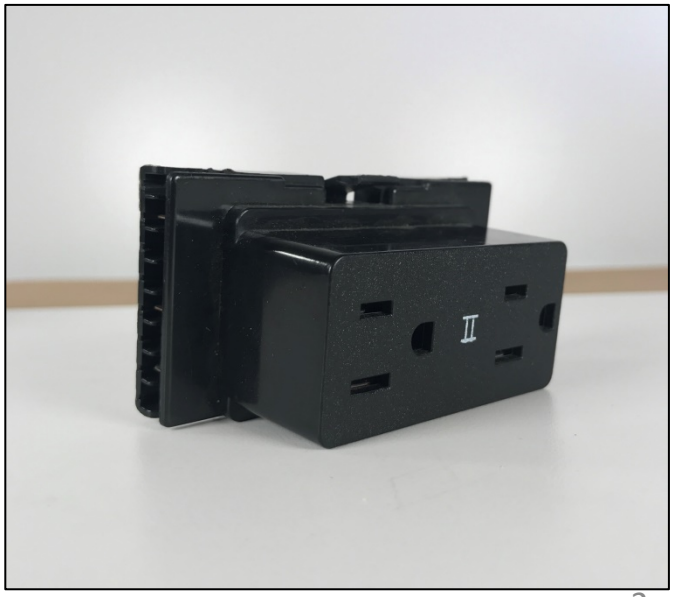
Face Plate with Screws



Single Block

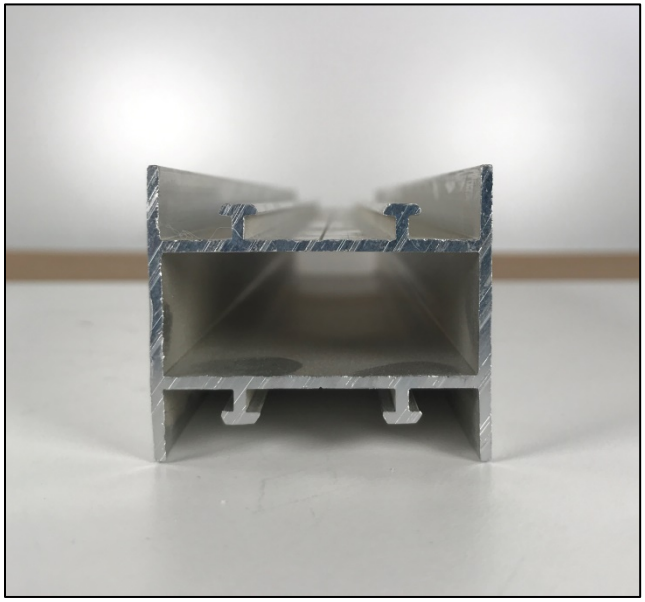


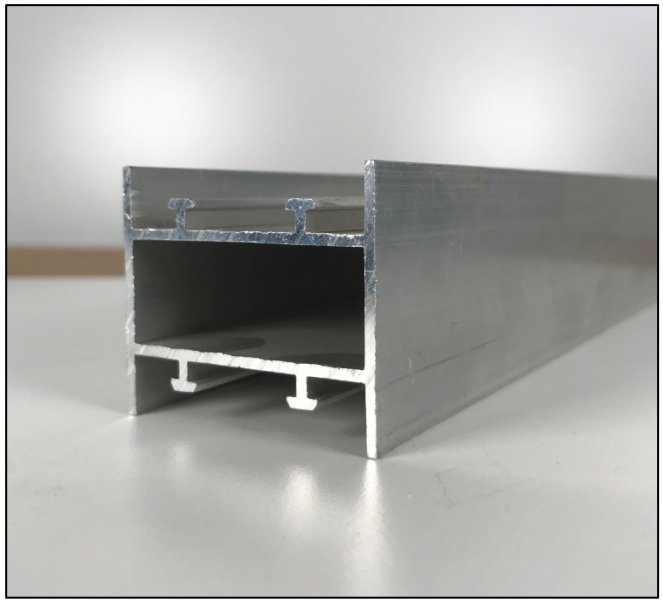
Single Half Block



Receptacle Duplex

Materials - Mounting Components :

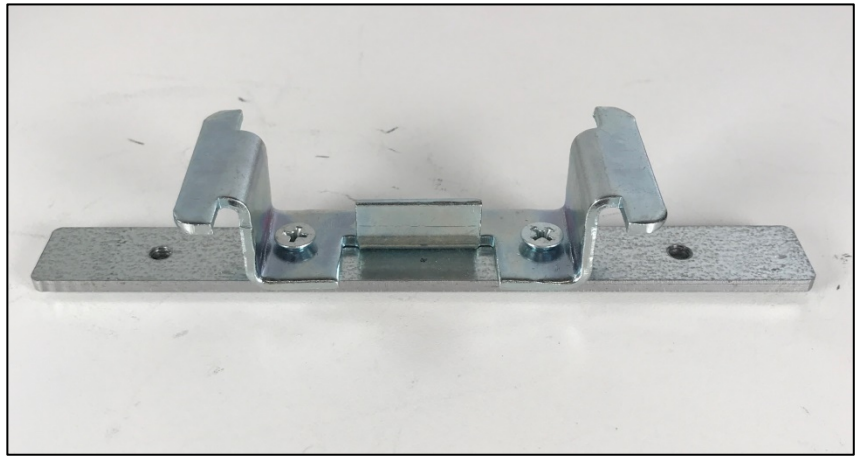




Reinforced Stud

(AKA "Support Stud", "Finless Stud")

Flex L-Bracket

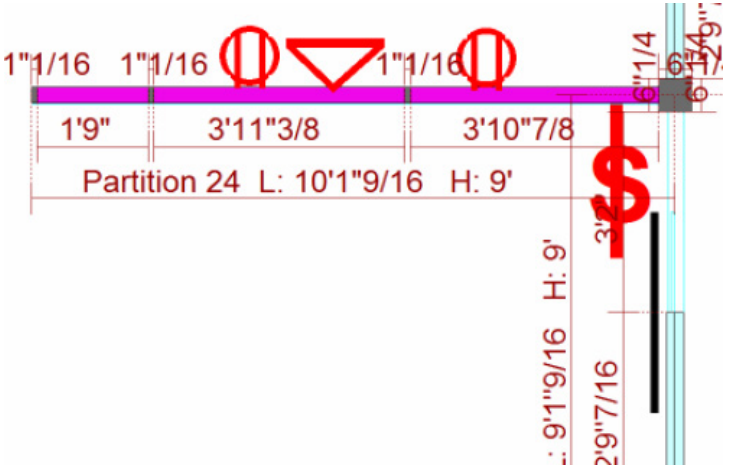


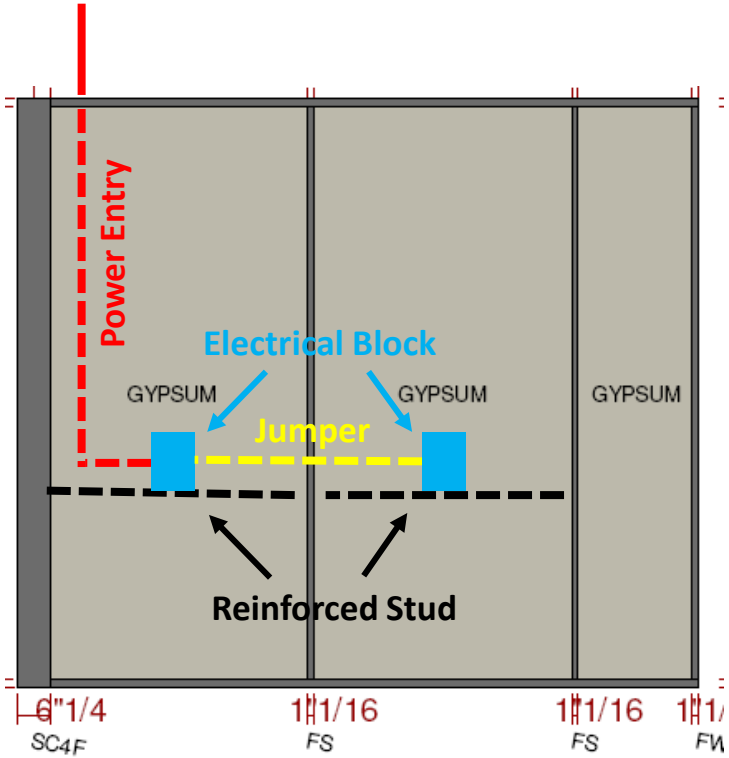
Raceway Bracket mounted to Track Joiner

Byrne Electrical Pathway for Floor to Ceiling Solid Panels:

Key:

- Byrne Electrical
- Data
- Wireless Light Switch





Partition 24

When installing the Byrne Electrical System with Floor to Ceiling Solid Panels, the Power Entry can be brought down through multiple locations. Typically the Power Entry is brought down through the ceiling-attached Flex Track within the same panel that one of the Receptacles is located within.

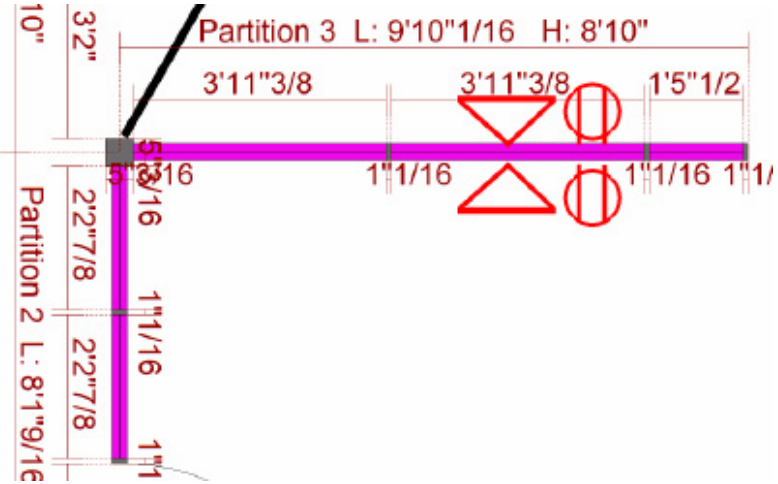
NxtWall sends the proper length of Power Entry and Jumpers based on the drawing. Use the drawing to determine the location(s) of the Byrne System.

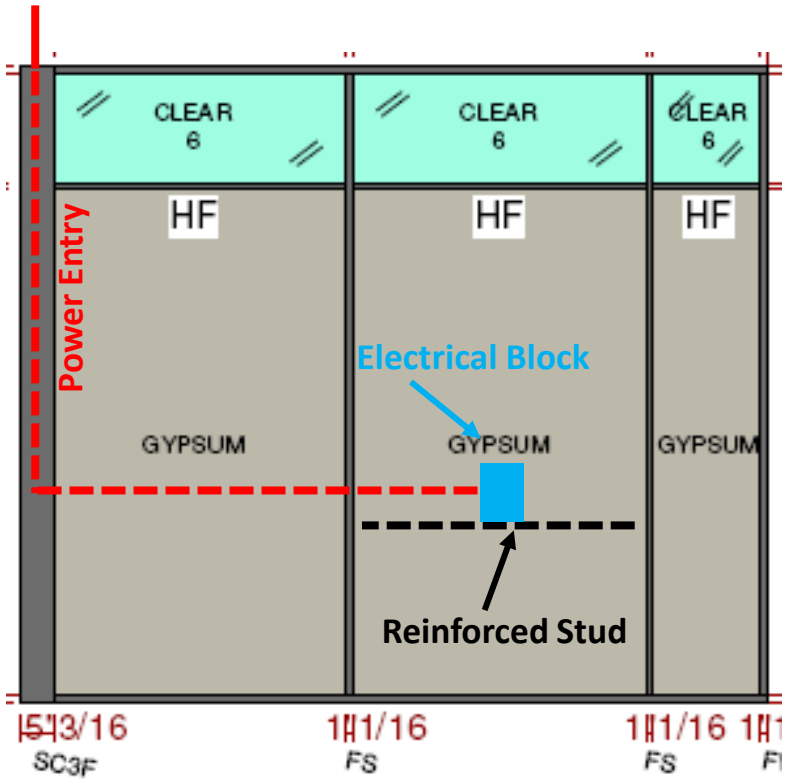
<u>Example Using Partition 24</u>:
The Power Entry is brought through the Flex Track down into the first Single Half Block mounted to the Reinforced Stud. The Power Entry is plugged into the Single Half Block. Then, a Jumper is used to connect the first Single Half Block to the second Single Half Block in the next panel. Power will only be available on one side of the wall per the drawing.

Byrne Electrical Pathway for Solid Panels with Clerestory:

Key:

- Byrne Electrical
- Data
- Wireless Light Switch





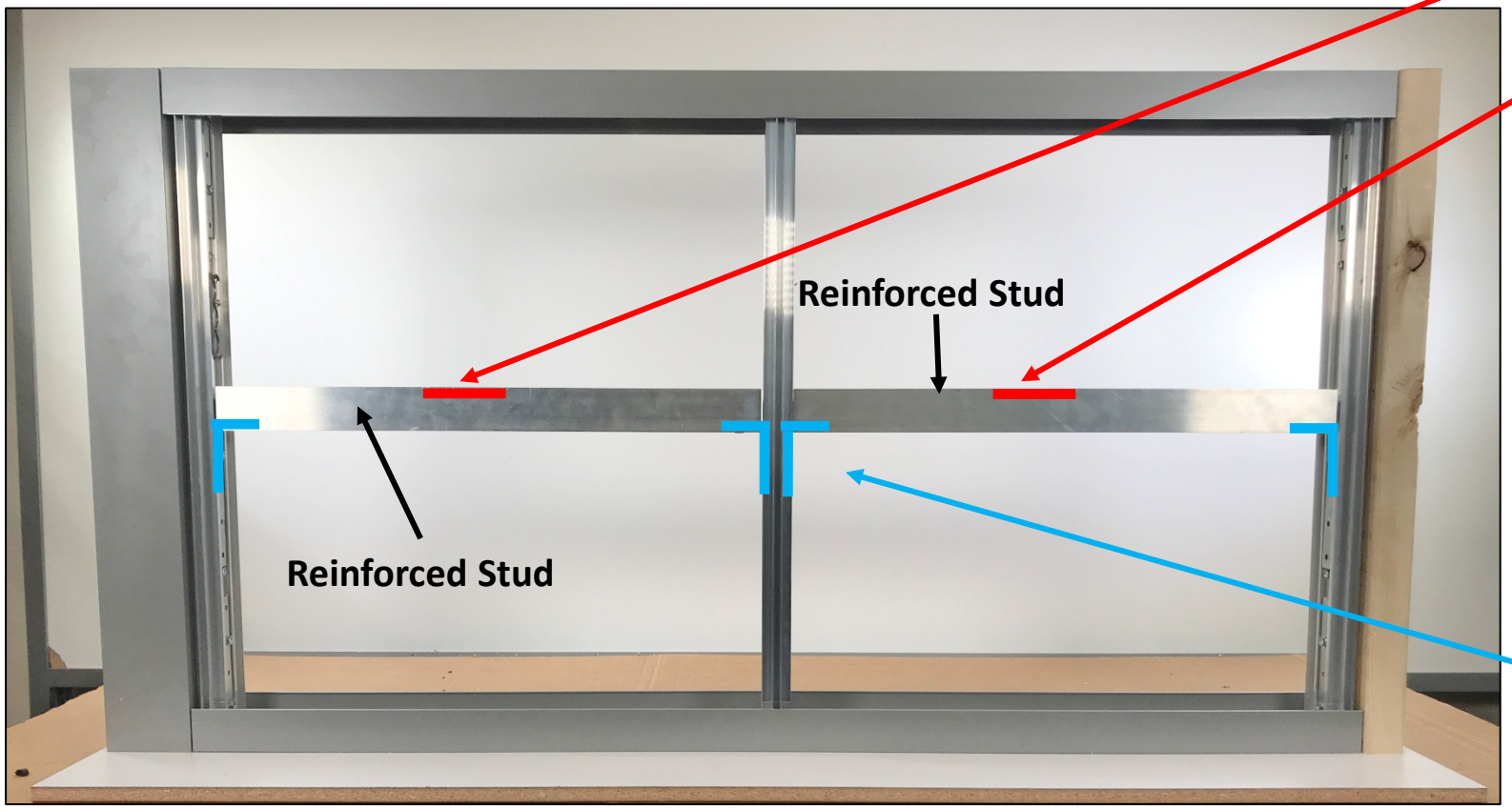
Partition 3

When installing the Byrne Electrical System with a Glass Clerestory, the Power Entry will need to be brought down through the Flex Post. Exceptions to this would be a building's power source coming through the floor or existing walls.

NxtWall sends the proper length of Power Entry and Jumpers based on the drawing. Use the drawing to determine the location(s) of the Byrne System.

<u>Example Using Partition 3</u>:
Due to there being a clerestory, the Power Entry is brought down the Flex Post. The Power Entry is plugged into one Single Block mounted to the Reinforced Stud which will include Receptacles for each side of the wall per the drawing.

Framing:

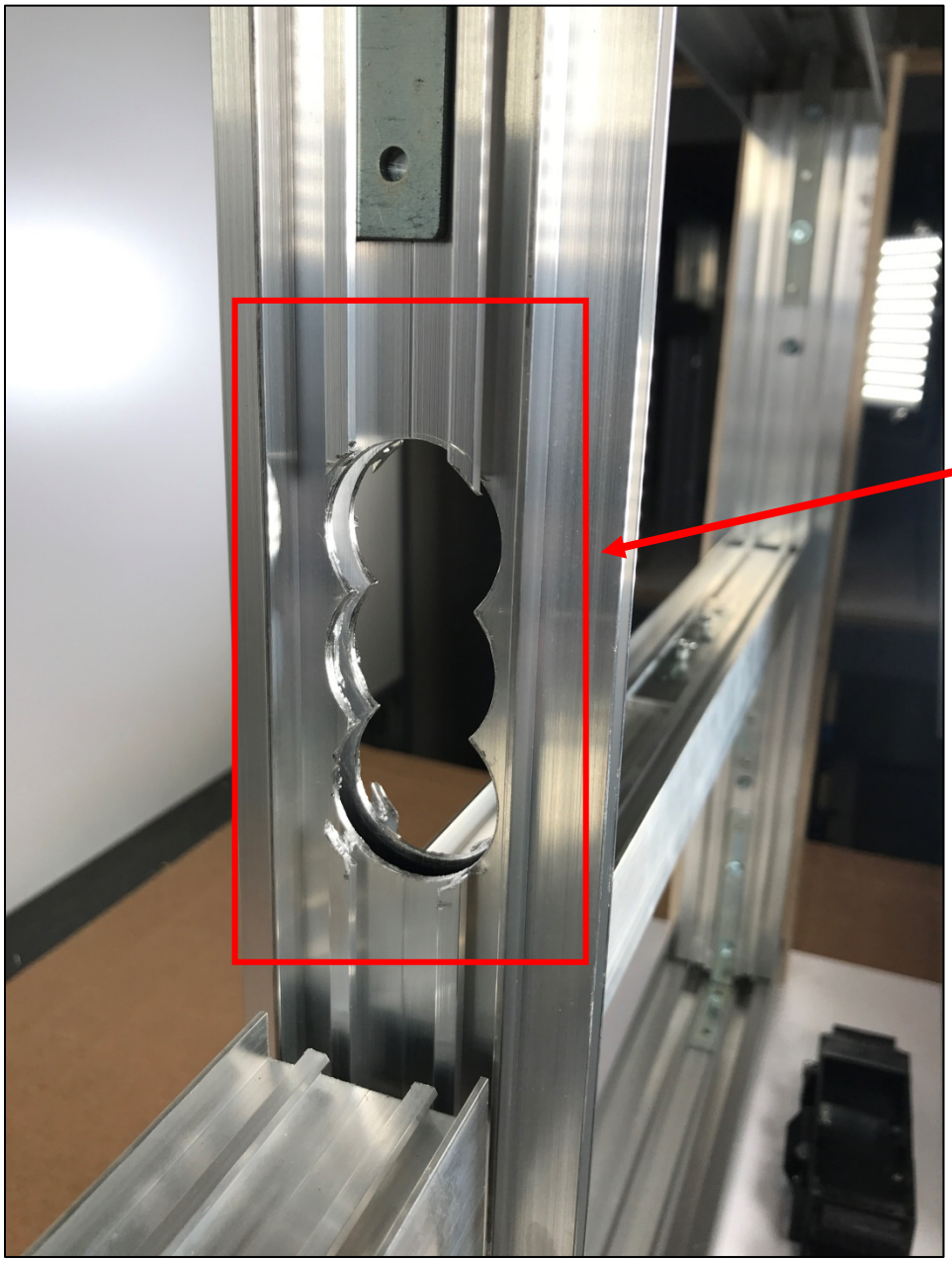


Reinforced studs are only needed at the electrical locations. Cut the Reinforced Studs to fit between the vertical Flex Studs. Cut the Reinforced Studs a 1/4” short, leaving a small gap to avoid bowing the vertical Flex Stud. Slide two Flex L-Brackets into the bottom side of the Reinforced Stud. Prior to attaching the L-Brackets, slide the Track Joiner in the top side of the Reinforced Stud.

Determine the desired height of the receptacles and then attach the L-Brackets to the vertical studs.

NOTE: NxtWall does not provide the receptacle heights. We recommend discussing this with the customer.

Stud Prep:



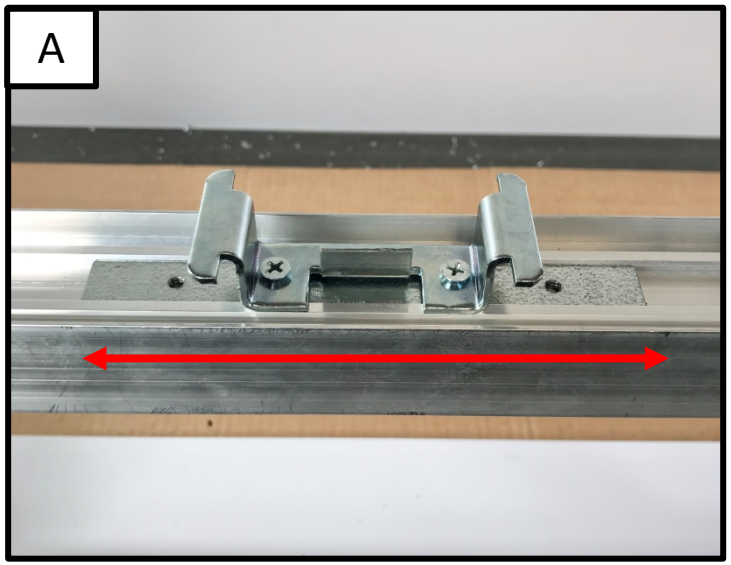
In the locations where the Power Entry and/or Jumpers are needed to pass through a Post/Flex Stud or Flex Stud a hole will need to be drilled out to allow the heads of the Power Entry and/or Jumpers to be brought through.

The hole size must be at least 2 ½" x 1" to fit the heads of the Power Entry and Jumpers. Aesthetics are not a concern when drilling the holes.

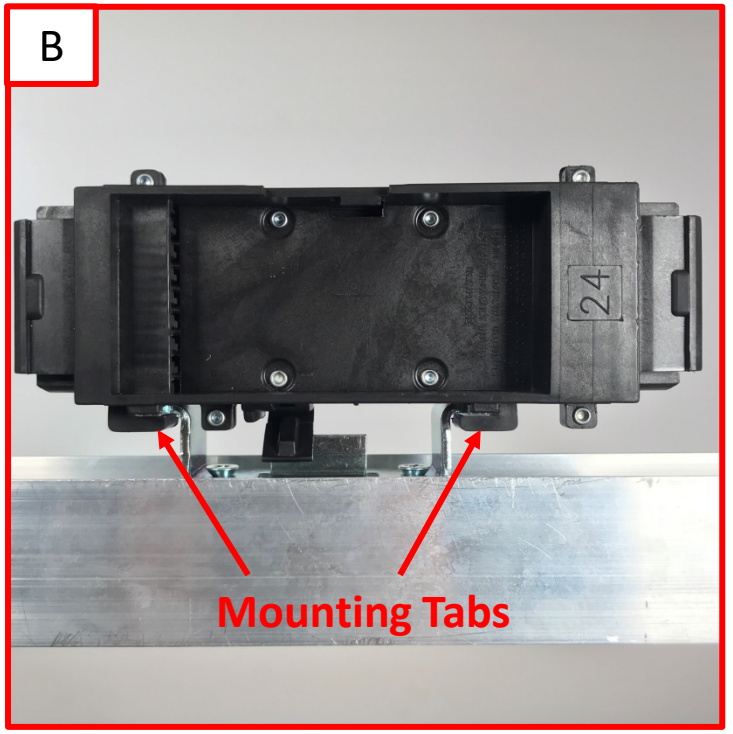
We recommend using a 1" Hole Saw bit to drill three holes vertically which will create a large enough hole, see photos for reference.

****Completed Installation****

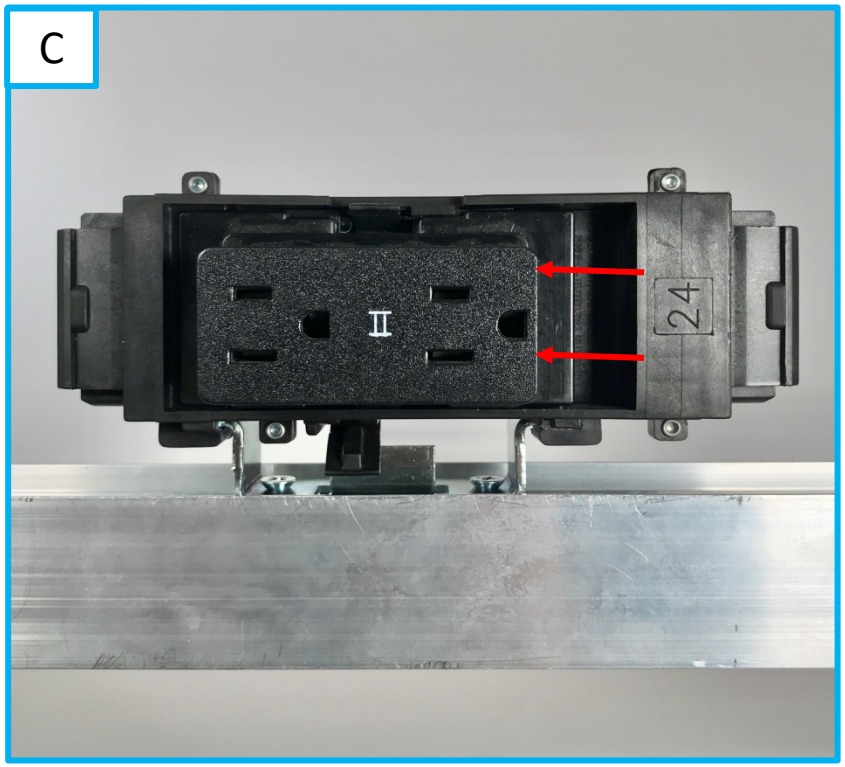
Mounting Electrical:



A: Attach the Raceway Bracket to the Track Joiner. Use the set screws already installed in the Track Joiner. The Track Joiner & Bracket can be slid side-to-side until it is in the desired location. Tighten the set screws to fix in place.

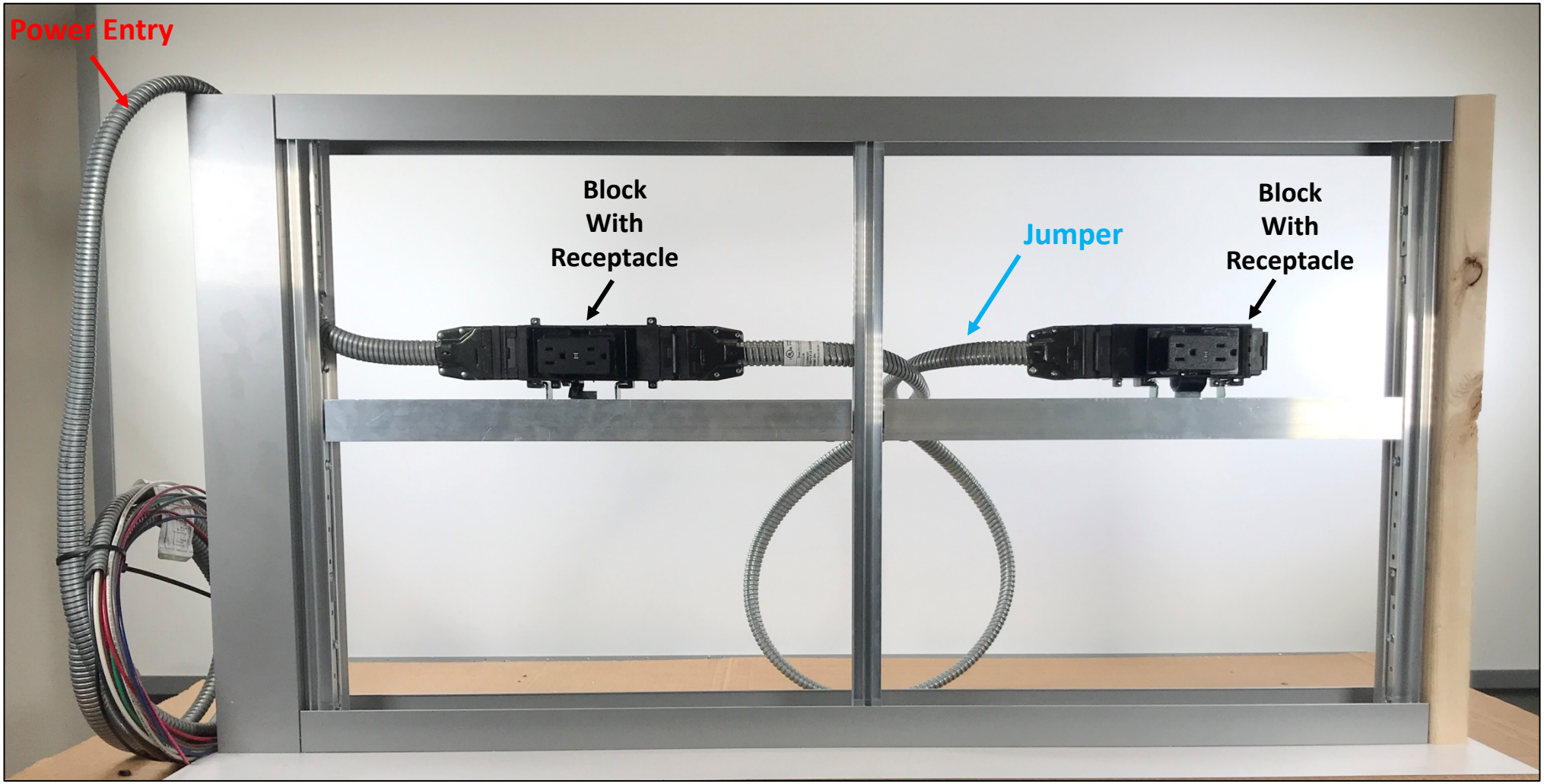


B: Slide the Byrne electrical block onto the mounting bracket tabs until it locks into place.



C: Push the receptacle into the electrical block. Then, slide the receptacle all the way to the side to lock it into place.

Power Entry and Jumpers:



Run the Power Entry and Jumper feeds through the determined locations and connect to the electrical blocks. The Power Entry/Jumpers simply plug into the electrical blocks. Jumpers are used to connect one electrical block to the other.

Note: Connecting the Byrne Electrical System to the building's power supply is to be completed by a Certified Electrician only.

Face Plate Installation:

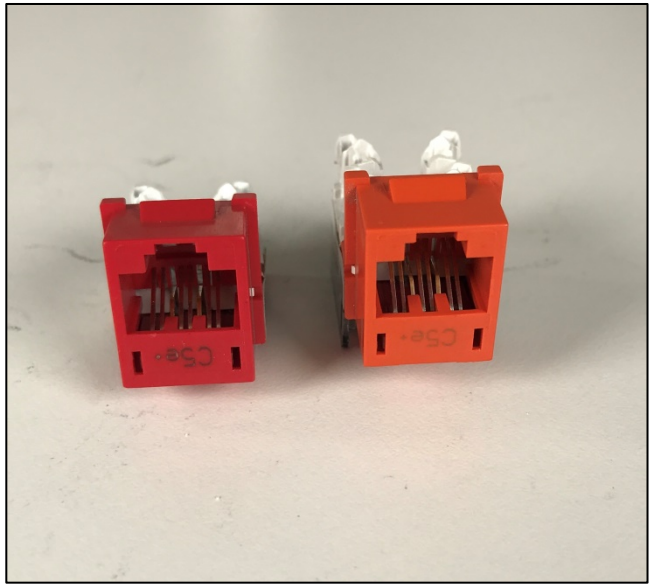
Cut the hole for the Receptacle in the solid panel. Install the solid panel into the wall. Install the Faceplate over the Receptacle and attach using the provided 1” screws.

Note: There are small machine screws in the package with the Faceplate, these screws cannot be used. The 1” wood screws will need to be used. The wood screws will screw directly into the solid panel, there is not a threaded hole for these screws.

Materials - Low Voltage Data Components :

Mounting Plate

Quickport Insert

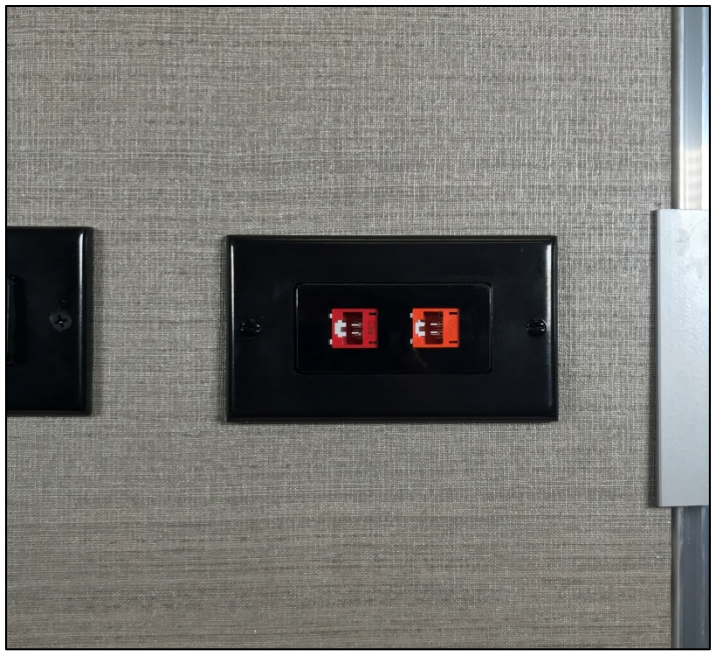


Data Ports

Face Plate with Screws

Note: **Nxtwall does not provide the data cable. This is to be provided by others.**

Low Voltage Data Installation:



1. Cut the hole into the solid panel for the Data location.
2. Install the mounting plate into the hole, tighten the screws until the plate is tight on the panel.
3. Install the Quickport Insert onto the mounting plate.
4. Press the Data Ports into the Quickport Insert.
5. Install the Faceplate. **(Note: The machine screws that come with the faceplate can be used to attached the faceplate to the mounting plate).**
6. Installation is complete. A Data Technician is needed to run the data cabling.