

The images in this document may reflect exaggerated sizes for better comprehension.

It is the installer's responsibility to ensure the installation meets all local codes and standards. All hardware processes used during display installation must meet the approved, stamped drawings from a professional engineer.

Site Overview

During the site overview, a contractor surveys for as-built conditions of the structure or mounting location through the following procedures:

- Measuring for elevation differences
- Measuring the structural dimensions
- Checking for variation in the face location
- Scanning the concrete fascia for rebar locations (recommended)

After completing the initial site survey, the installer compares the results to the contract-specific Shop Drawing. If any variations or discrepancies between the plan dimensions and the site survey exist, contact the project manager and the general contractor for the best course of action.

It is the installer's responsibility to ensure the mounting structure and hardware are built per the stamped engineering drawings and are capable of supporting the display. Daktronics is not responsible for mounting decisions made by others.

Figure 1 illustrates a front view of a typical display layout that is linearly scalable with all available section sizes, and **Figure 2** illustrates a front view of a typical wall channel support structure. Refer to the supplied display section layout documentation for dimensions (X_{ix}) and (Y_{ix}) and to the **RTX-2101/2801 Series Section Lifting Quick Guide (DD3884528)** for available section sizes. The horizontal center-to-center dimensions (X_{ix}) between wall channels should match the (X_{ix}) dimensions of the display section size layout. If the dimensions (X_{ix}) between wall channels differ from the dimensions (X_{ix}) on the display section layout by more than $1\text{--}3/4"$ [44.45 mm] at any point, adjust the wall channels (if possible) or plan ahead for section adjustments.

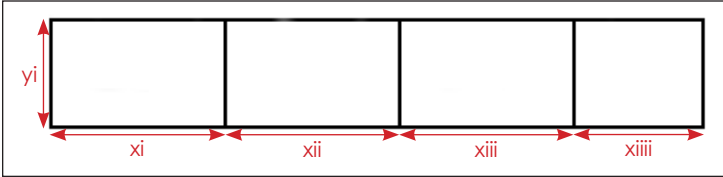


Figure 1: Typical Display Layout (Front View)

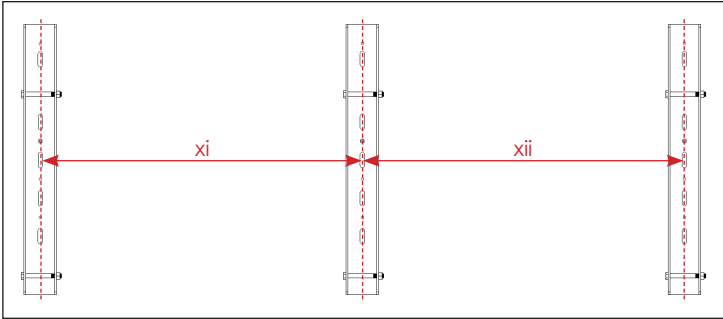


Figure 2: Typical Wall Channel

Sub Assembly

Wall Channel Sub Assembly

Sub assembly of the wall channel is recommended before wall channel attachment to the fascia. Standard locations are shown in **Wall Channel Pin Location (p.1)**.

Insert an M16-2x140 mm bolt (Daktronics part number HC-3829061) through the wall channel in the location specified on the contract-specific Shop Drawing and secure with an M16 nut (HC-3829062). Snug-tighten the bolt, mark the nut, and rotate the nut an additional $1/3$ turn. This method is known as the Turn-of-Nut method. After tightening, damage the exposed threads to ensure the nut remains on the wall clip.

Verification

Wall Channel Location

Straight Run

It is recommended to run a tape the entire length of the run. Mark the center line and verify the center of the clip locations based on the center line. Refer to **Figure 3**.

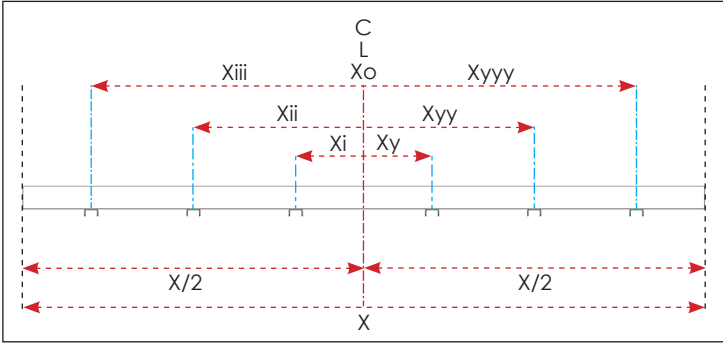


Figure 3: Straight Run

Corner Transition

It is recommended to start in the corner *after* a straight run is completed and measure the center of the clip locations. Refer to **Figure 4**.

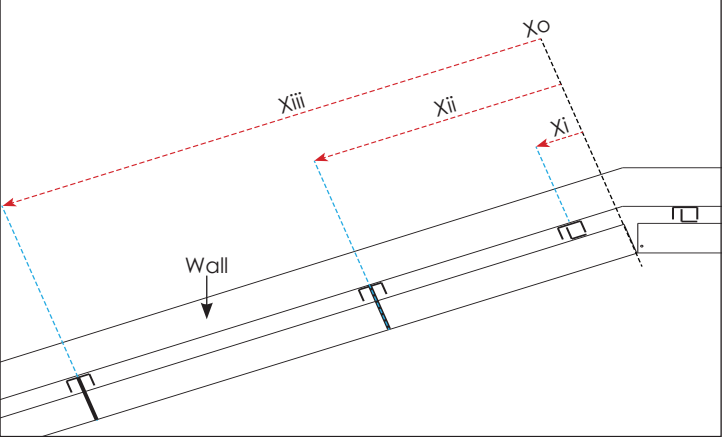


Figure 4: Corner Transition

Wall Channel Pin Location

Measure the Pin A and Pin B locations shown in **Figure 5**. Refer to the contract-specific Shop Drawing for references and dimensions. Use a chalk line or laser level to ensure all pin locations are aligned.

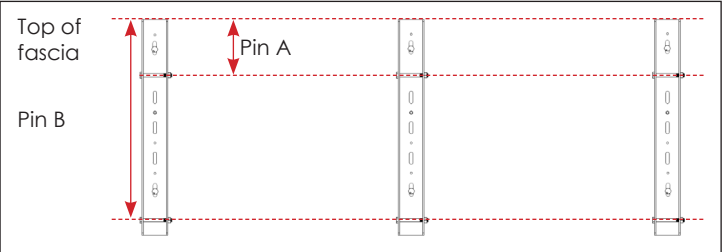


Figure 5: Verify Vertical Member Height

Plumb/Straight Vertical Member

Use appropriate shims to ensure all clips are both plumb and level across the entire fascia as shown in **Figure 6**.

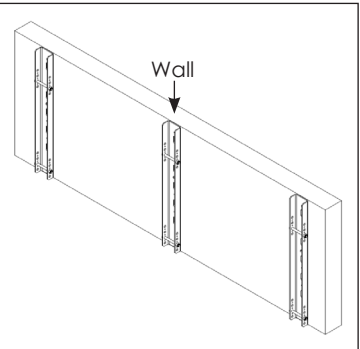


Figure 6: Verify Vertical Members

Vertical Member Alignment

Measure (X) a set distance at both ends of the structure from the front face of the fascia and stretch a line tight between the two points as shown in **Figure 7**.

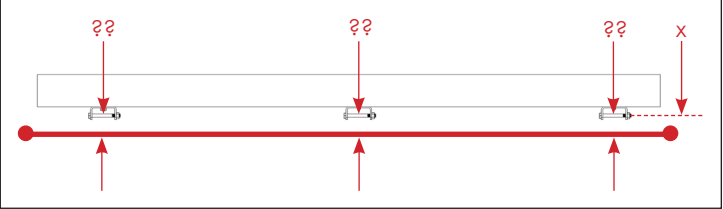


Figure 7: Verify Vertical Member Alignment

Measure (??) from the pin location to the string line vertically at each wall channel location as shown in **Figure 7**. If the difference between any measurements exceeds $\pm 1/4"$ [± 6.4 mm], adjust the structure (if possible) or plan ahead for section adjustments during display section installation.

Dead Load Anchor

When the wall channels are level and plumb, install a dead load anchor in the wall channels as shown in **Figure 8**. Dead load anchors are dependent on site-specific requirements and may not be needed. Refer to the stamped drawings for quantity and placement.

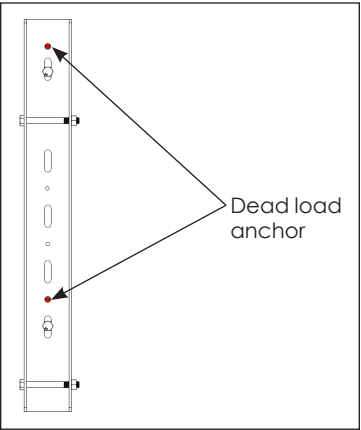


Figure 8: Dead Load Anchor