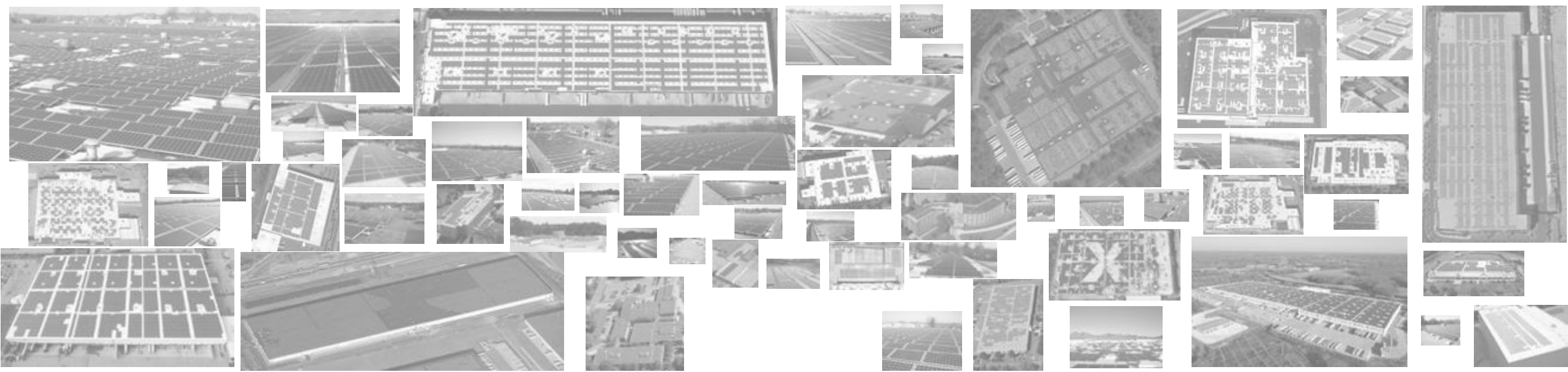
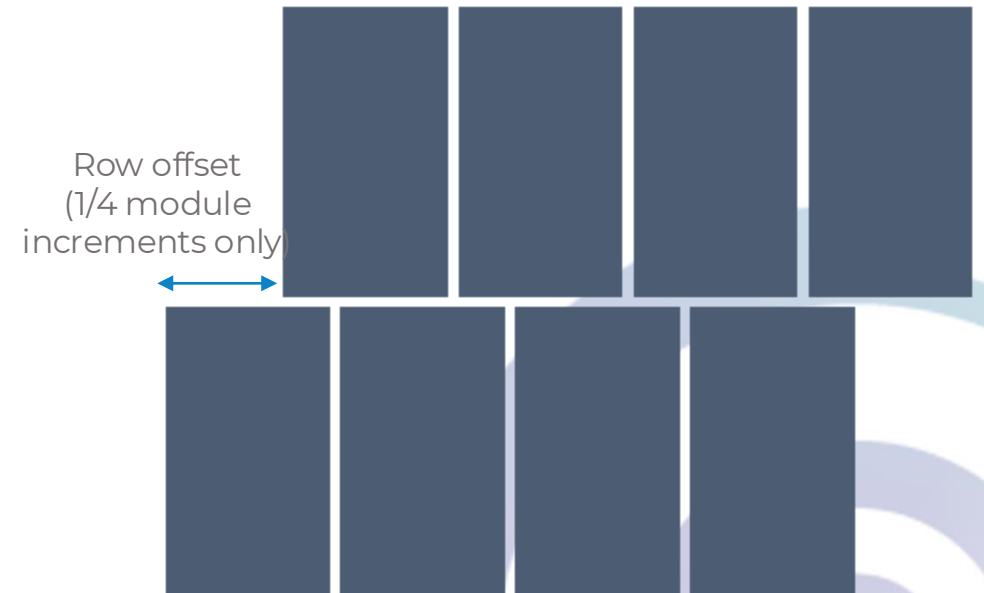
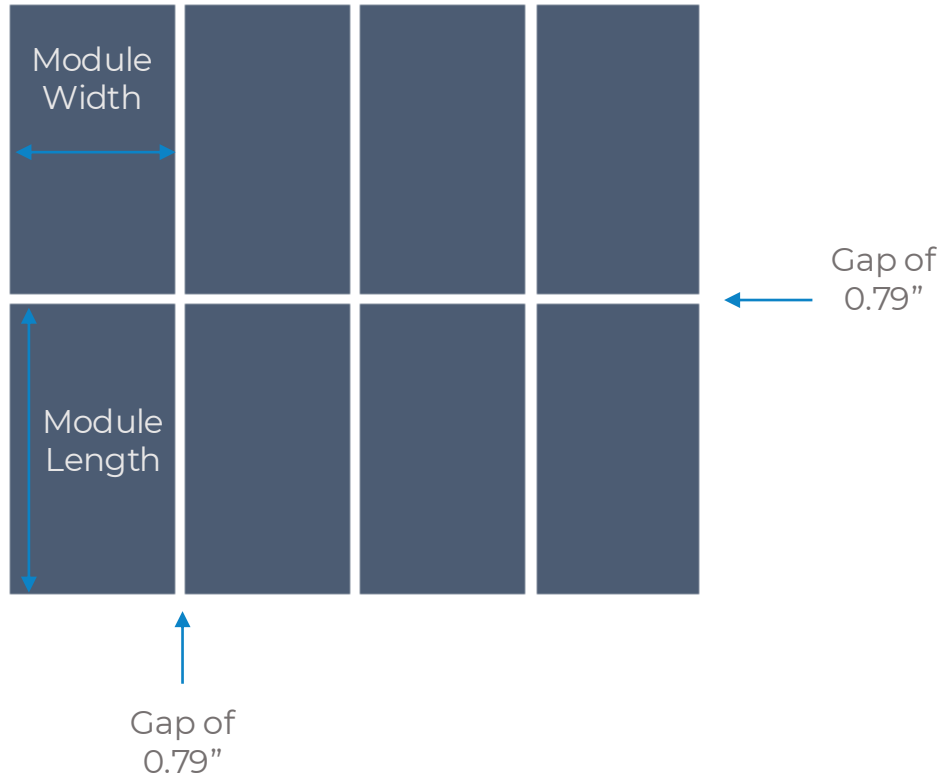




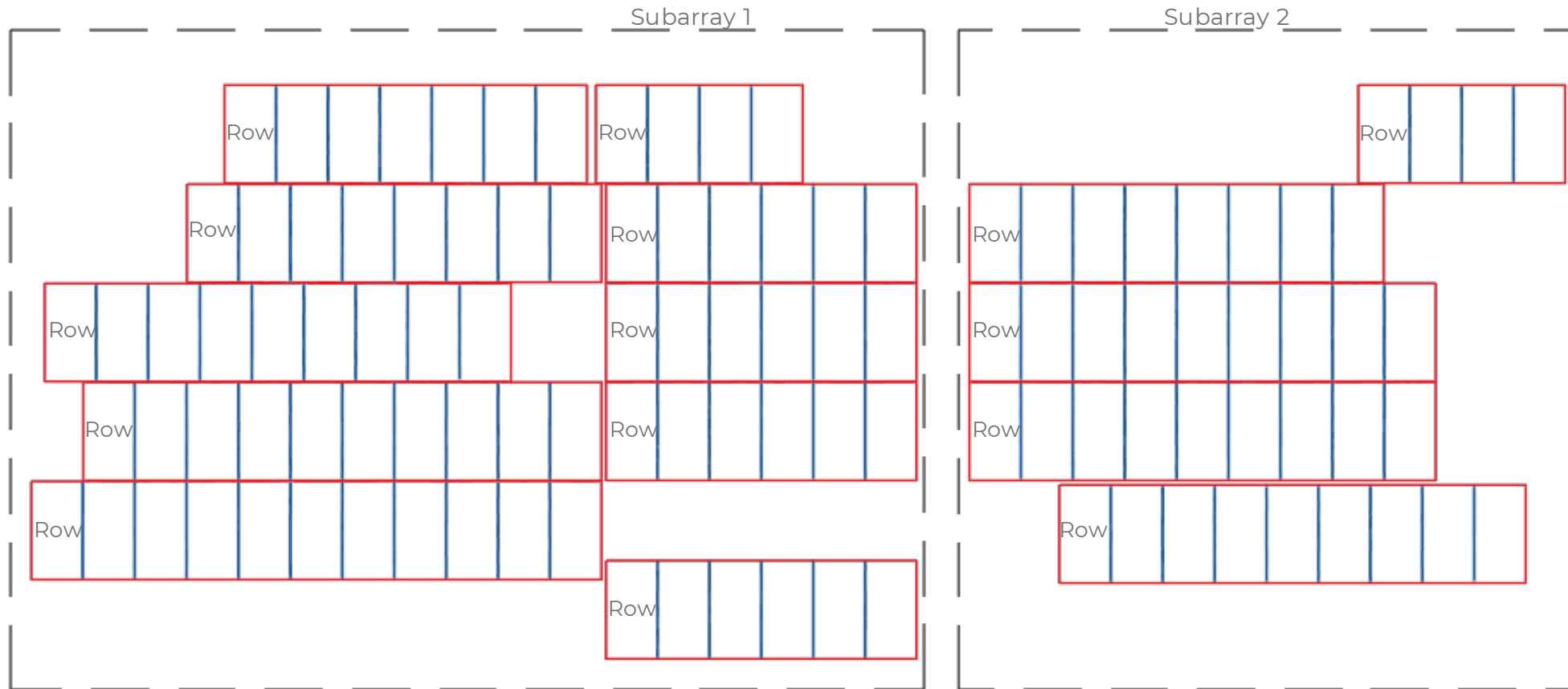
ClickFit Design Specifications, Rules and Guidelines

Roof Loading	XX psf to XX psf (XX kg/m ² to XX kg/m ²) including racking and modules
Roof Slope	1.19 - 45° max slope (0.25:12 - 12:12 pitch)
Wavy Roofs	ClickFit can span up to 3° in undulation in any two directions
Wind Speed	190 mph per ASCE 7-22
Exposures	ASCE wind exposure categories B, C and D
Seismic Design Category	USGS seismic design category A, B, C, D Seismic zones beyond D can also be evaluated upon request
Roof Types	Metal: Standing seam, trapezoidal, and corrugated
UL/ANSI 2703-2015 Grounding & Bonding	UL LISTED – Will accommodate max module fuse rating of 30 amps. Typical module fuse rating is ~15 amps
UL/ANSI 2703-2015 Mechanical Load	UL LISTED – Racking components meet electrical and mechanical requirements of standard System load rating is always module dependent (module allowable loads are typically the limiting factor)
UL/ANSI 2703-2015 Fire Listing	System Fire Rating Class A with Type 1, 2, 3, 4, 5, 13, 19, 25, 29, 30, and 38 modules. Any roof-to-module gap is permitted. This rating is applicable with any roof attachment. System Fire Rating Class B with Type 4 & 5 modules on steep slope roofs. Any roof-to-module gap is permitted. This rating is applicable with any roof attachment.
Module Layout Alignment	Modules must be in portrait aligned to either the ridge or gutter line

Dimensions shown are normal to the roof surface

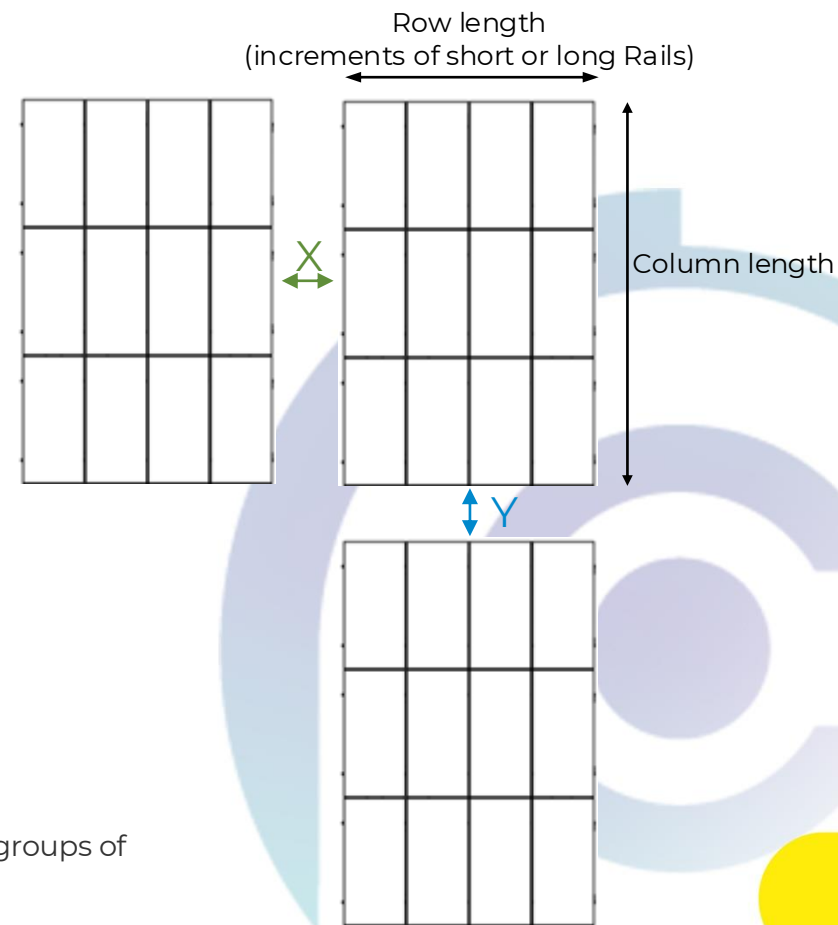


- A row is a collection of modules of the same type with outlines spaced 0.79" apart and short sides that are collinear
- A Subarray is a collection of Rows that are within 4" of each other in any direction.
 - Module type must be the same within the Subarray



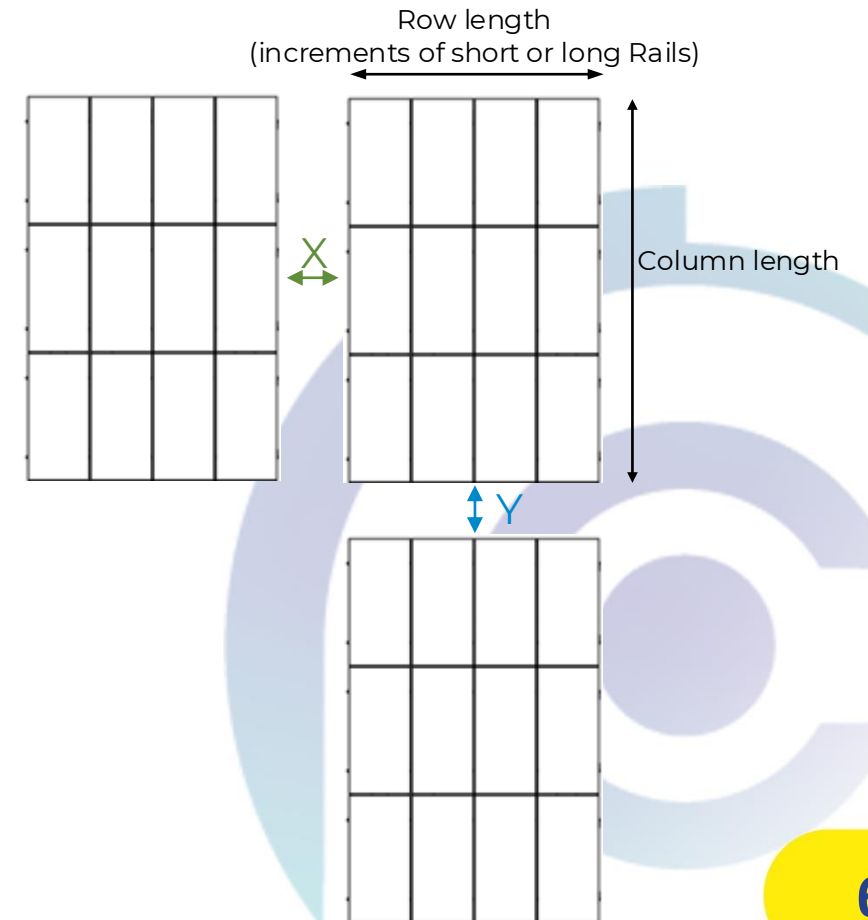
- These array layout guidelines were developed to maximize the performance of ClickFit over its 25+ year lifespan.
- Nonconforming arrays may require layout modifications, may not be buildable, or may require custom engineering.

- ▶ **Minimum Module setback from roof edges – 12" (30.5 cm)**
- ▶ **Maximum continuous row length¹: 80 ft (24.4 m)**
- ▶ **Maximum subarray row length (including thermal breaks): 150 ft (45.72 m)**
- ▶ **Maximum array column length¹: 150 ft (45.72 m)**
- ▶ **A Row can have a single module**
- ▶ **Minimum module clearance from obstructions: 12 in (30.5 cm)**
- ▶ **Minimum module-to-module clearance between sub arrays:**
 - ▶ **Along column (Y): 0.79" suggested for ease of install (0.5" allowed)**
 - ▶ **Along row (X): 4"**
- ▶ **Avoid going over existing pipes, lighting rods/cables or vents on the roof**
- ▶ **Module width must be within one of these ranges:**
 - ▶ 1132 -1136 mm based on rail lengths
 - ▶ 1300 - 1304 mm based on rail lengths



¹ Adjacent subarrays can be grouped with a minimum module-to-module clearances as long as those groups of subarrays do not exceed 150' x 150' IBC fire code requirements

- All previous rules apply unless superseded below.
- Consider the following to avoid cutting Rails.
 - ▶ **Module count in a continuous row is evenly divisible by 2**
 - ▶ Minimum array size of 1 row with 2 modules
 - ▶ One Rail SKU to hold 2 modules with another to hold 4 modules.
 - ▶ Using only multiples of 4 is more efficient.
 - ▶ **Minimum module-to-module clearance between sub arrays:**
 - ▶ Along row (X): 18"
 - ▶ **Module width must be within one of these ranges:**
 - ▶ 1132 -1136 mm based on rail lengths
 - ▶ 1300 - 1304 mm based on rail lengths





FOR QUESTIONS OR FEEDBACK CONTACT SALES@PANELCLAW.COM OR CALL US AT (978) 688-4900