eFacade LITE Installation Steps

Open Joint System

MITREX™

eFacade LITE - Plug & Power Up

eFacade LITE is transforming the building-integrated photovoltaic industry with its cutting-edge design and flawless integration. With no visible wiring and a simple plug-and-power setup, eFacade LITE ensures fast and cost-effective installation.

Available in two sizes and five colors, it harmonizes effortlessly with Cladify sustainable cladding, EIFS, stucco, ACM, and many other materials and finishes—making it an ideal choice for modern architectural projects. Combining advanced solar technology with effortless installation, Mitrex eFacade LITE delivers performance, beauty, and sustainability in one sleek package.

Plug & Power, Simplified Wiring

- Eliminate panel-to-panel wiring
- Streamlined solar systems

Easy Installation

- Pre-engineered for optimal performance, ease, and aesthetic appeal
- Quick to install, making a big impact in no time

Design Versatility

- 150 SQFT of solar material with a variety of architectural configurations
- 5 colors and texture finishes available

Sizing Options

- Choose from 73 × 36 in or 73 × 18 in modules
- Modular design for customizable building solutions

Long-Lasting Confidence

- Backed by a 25-year product and energy performance warranty

Applications

- Ideal for both new constructions and retrofits
- High-performance rainscreen system – one complete solution for all your needs

Sustainable Energy Generation

- Power range of 10 to 18 W/SQFT

Product Scalability

Mitrex eFacade LITE is designed with enhanced scalability in mind, offering a lightweight, high-performance cladding solution that can be efficiently adapted to a wide range of building types and sizes. Its reduced weight makes it especially suitable for retrofits, mid-rise buildings, and structures with load limitations, while still providing the aesthetic and functional benefits of solar-integrated façades.

The modular nature of eFacade LITE panels enables simplified handling, and faster on-site installation, which significantly reduces construction time and labor costs. Its scalability is further supported by customizable design options allowing architects to maintain creative freedom while achieving energy and sustainability goals.

Whether for retrofit or new build buildings, eFacade LITE ensures easy installation, design versatility, and cost-effective deployment.

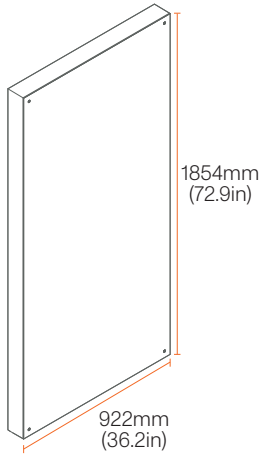
System Components

This system package includes material to build **150 SQFT wall**.

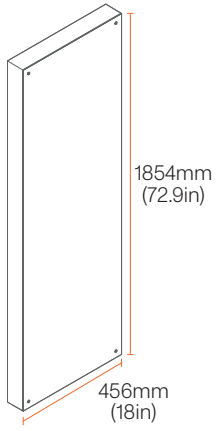
System Pieces Specs

System piece	Piece specs
Mitrex SunTile	Check Mitrex eFacade LITE datasheet
Support Bar	Aluminum Alloy
Power Bar	Aluminum Alloy
System Screws	#10x 1 ¾ pan head self-drilling screw
Wall Screws	NOT INCLUDED

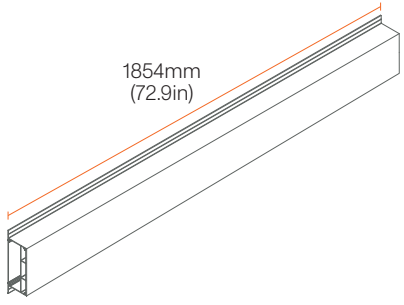
For installation system details please check Cladishield System page



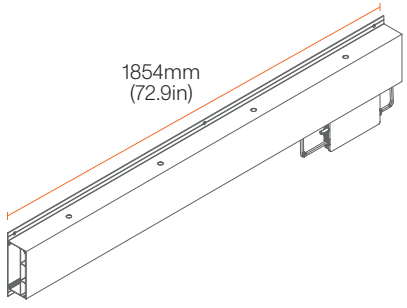
Mitrex SunTile Large



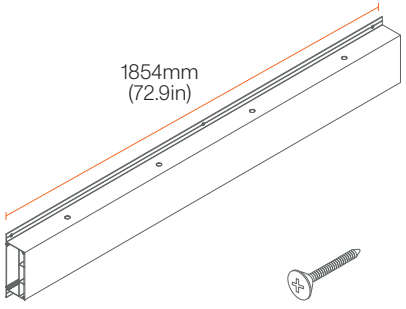
Mitrex SunTile Small



Support Bar

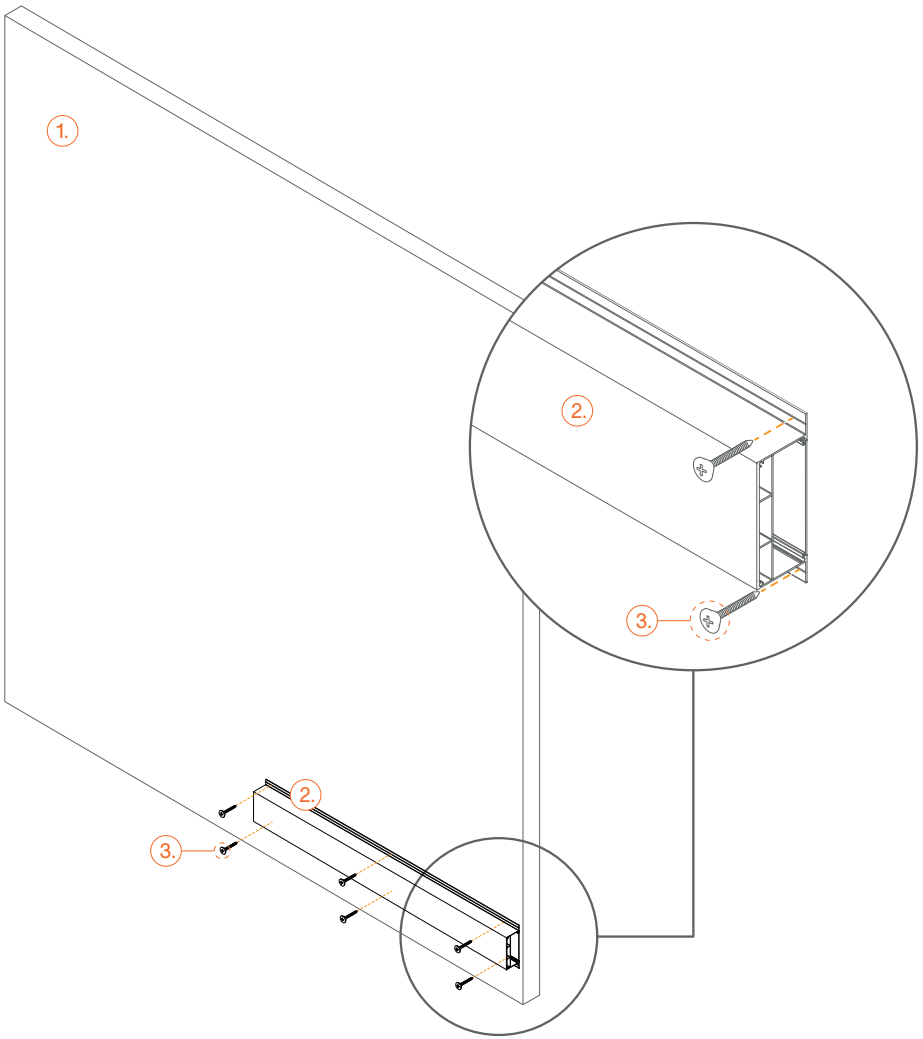


Power Bar A



Power Bar B

System Screws

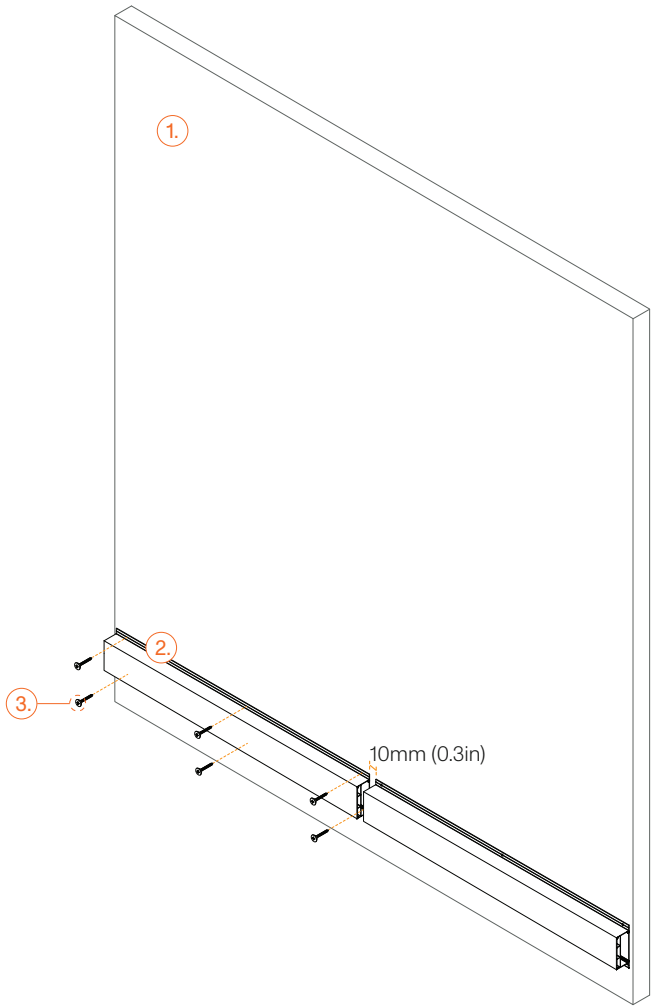


- Measure and level the first Support Bar from the bottom of the wall.
- Fasten the Support Bar. Depending on the wall material, select the appropiate screws.

Components Guide

1. Wall
2. Support Bar
3. Screws

For information on screw types for different walls, check the Mitrex downloads section.

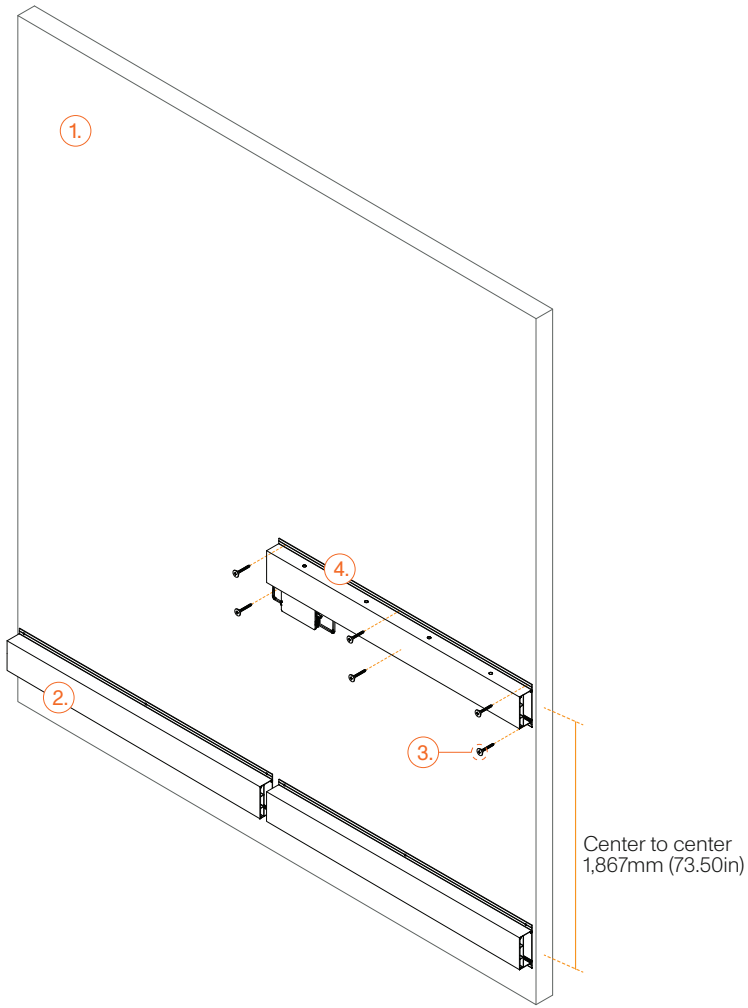


- Measure and level the second Support Bar from the bottom of the wall and at 10mm away from the first Support Bar
- Fasten the Support Bar. Depending on the wall material, select the appropiate screws.

Components Guide

1. Wall
2. Support Bar
3. Screws

For information on screw types for different walls, check the Mitrex downloads section.

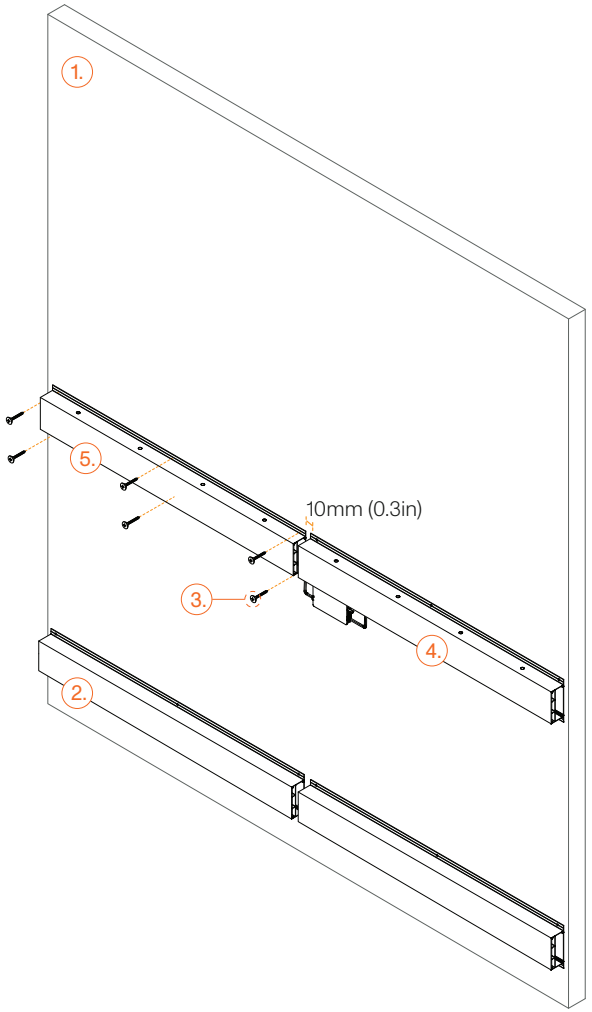


- From center to center, measure 1,867mm (73.50in) and level the Power Bar A (has microinverter).
- Fasten the Power Bar A. Depending on the wall material, select the appropiate screws.

Components Guide

1. Wall
2. Support Bar
3. Screws
4. Power Bar A

For information on screw types for different walls, check the Mitrex downloads section.

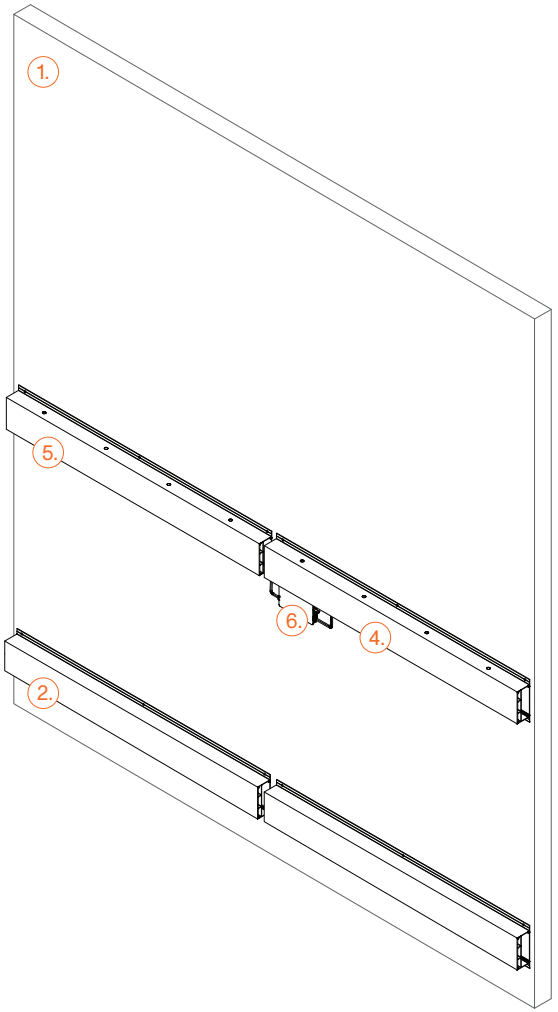


- Measure and level the Power Bar B.
- Fasten the Power Bar B 10 mm away from Power Bar A.
- Depending on the wall material, select the appropiate screws.

Components Guide

1. Wall
2. Support Bar
3. Screws
4. Power Bar A
5. Power Bar B

For information on screw types for different walls, check the Mitrex downloads section.

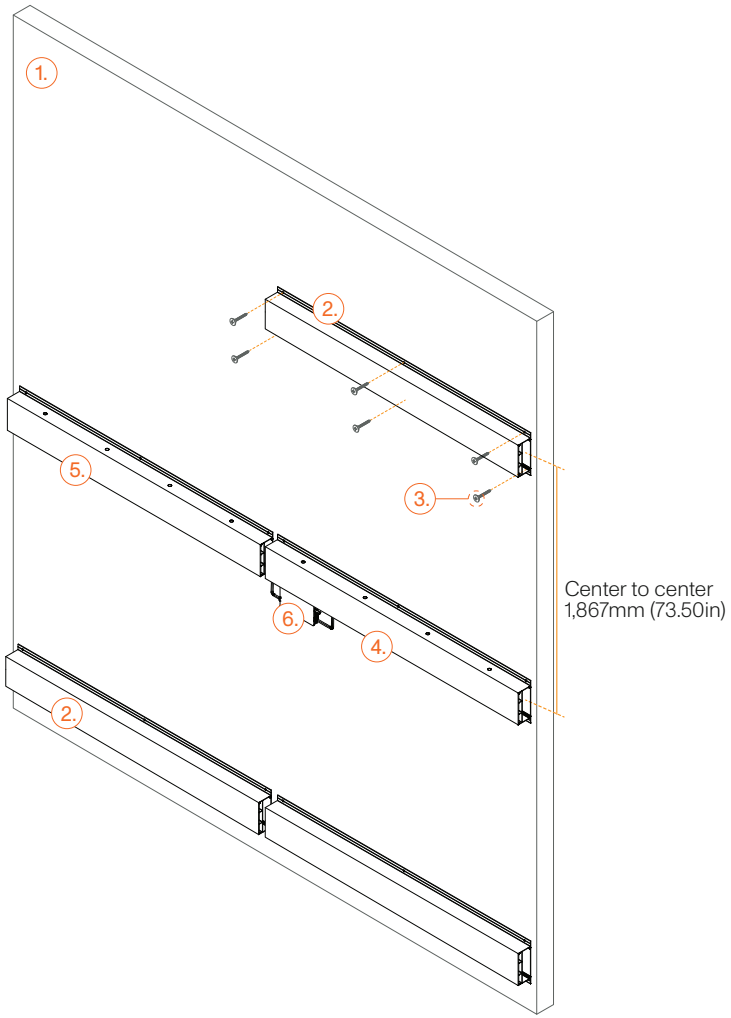


- Connect the wire in Power Bar B to the microinverter on Power Bar A

Components Guide

1. Wall
2. Support Bar
4. Power Bar A
5. Power Bar B
6. Microinverter

For information on screw types for different walls, check the Mitrex downloads section.

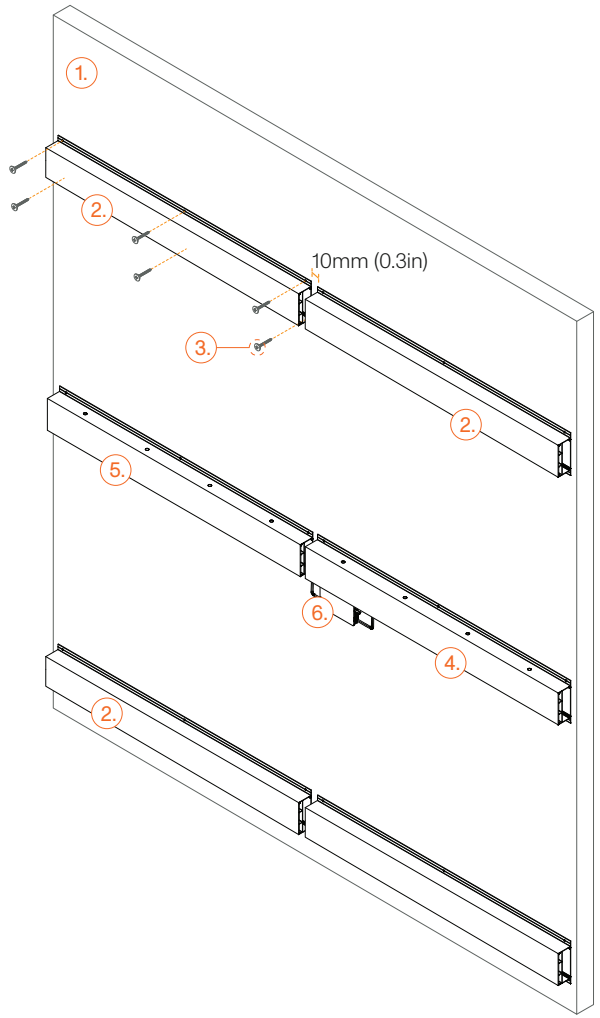


- From center to center, measure and level the Support Bar.
- Fasten the Support Bar. Depending on the wall material, select the appropiate screws.

Components Guide

1. Wall
2. Support Bar
3. Screws
4. ⚡Power Bar A
5. ⚡Power Bar B
6. Microinverter

For information on screw types for different walls, check the Mitrex downloads section.



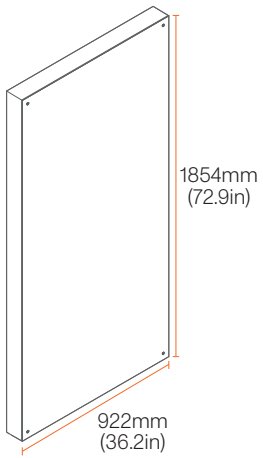
- From center to center, measure and level the Support Bar.
- Fasten the Support Bar 10 mm apart from the first Support Bar.
- Depending on the wall material, select the appropiate screws.

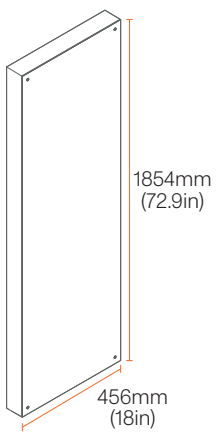
Components Guide

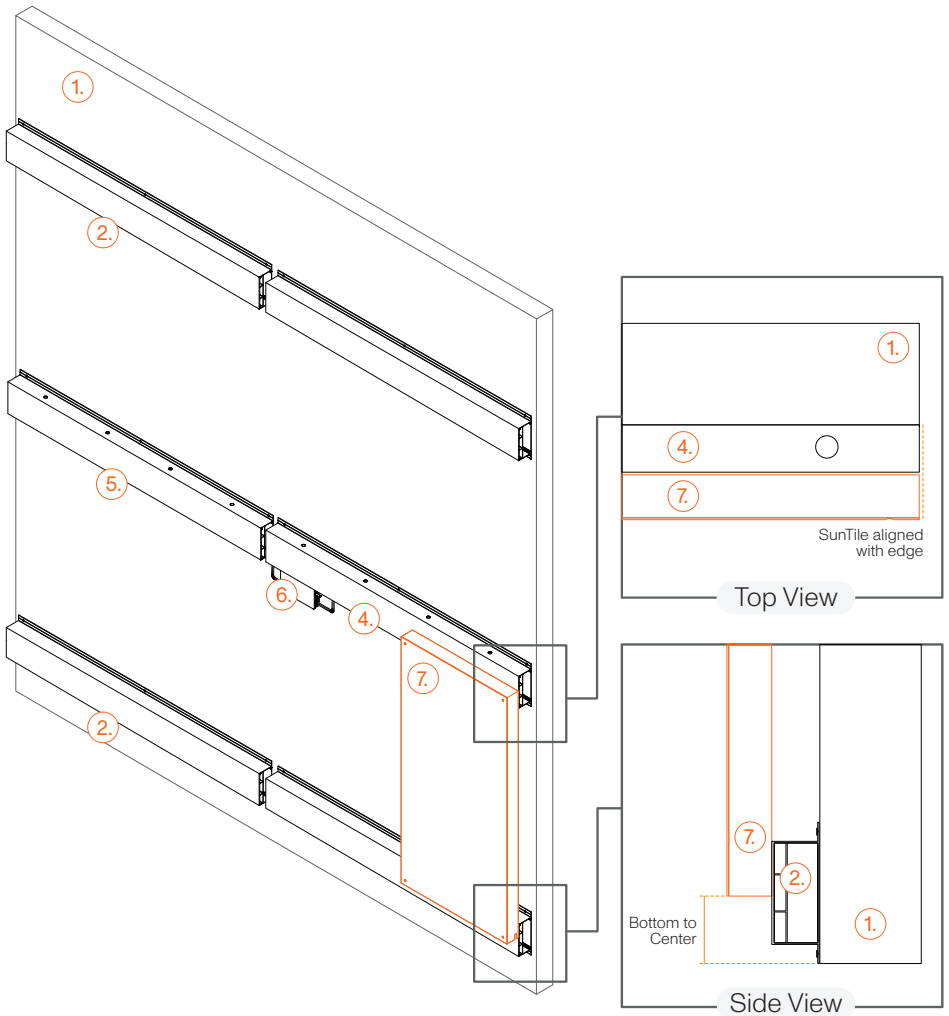
1. Wall
2. Support Bar
3. Screws
4. Power Bar A
5. Power Bar B
6. Microinverter

For information on screw types for different walls, check the Mitrex downloads section.

Mitrex SunTile Measurements



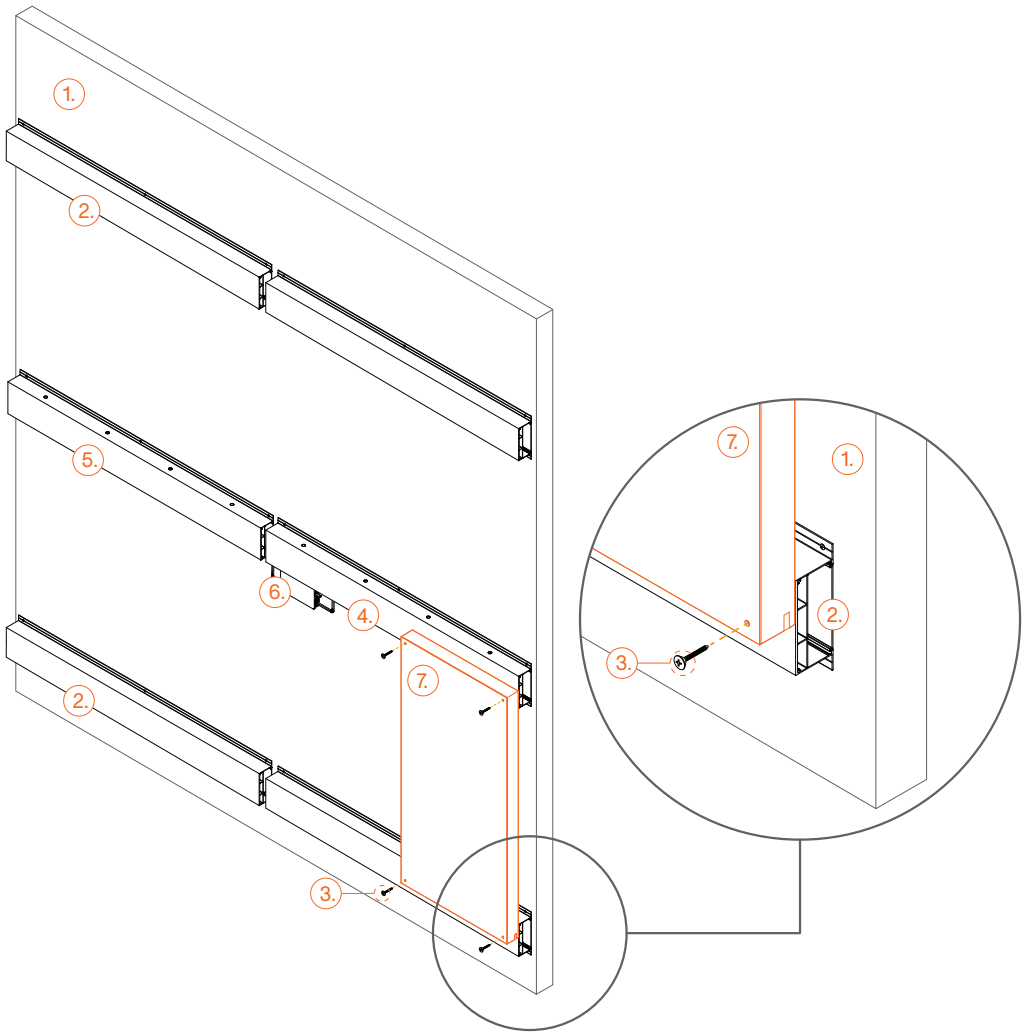




- BEFORE screwing, the first SunTile needs to be aligned as follows:
  From the side, the SunTile needs to be aligned with the edge of the Support Bar.
  From the bottom, the SunTile needs to be aligned with the center of the Support Bar.

Components Guide

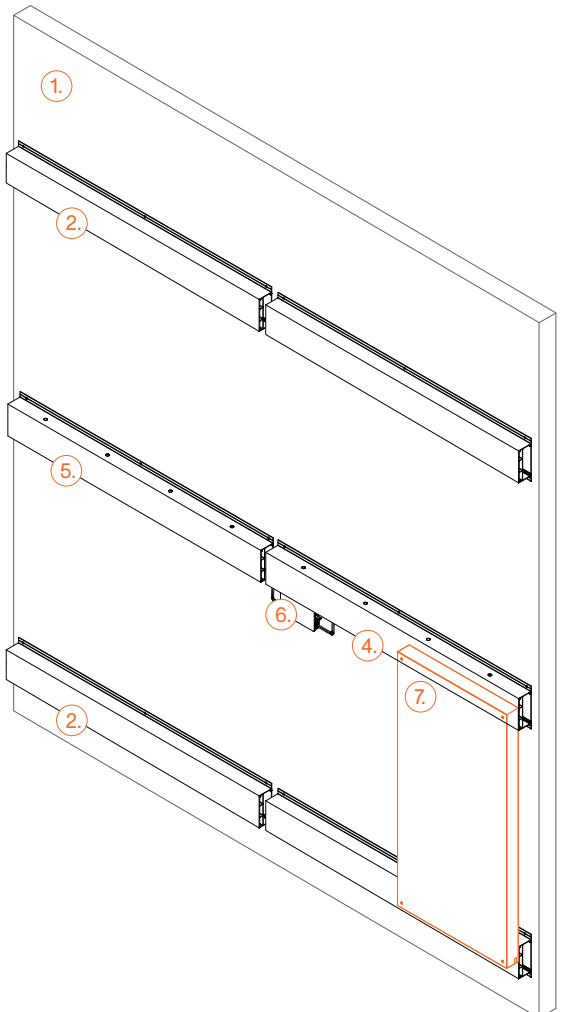
1. Wall
2. Support Bar
4. Power Bar A
5. Power Bar B
6. Microinverter
7. SunTile



- Once placed, fasten the first SunTile using the provided screws.

Components Guide

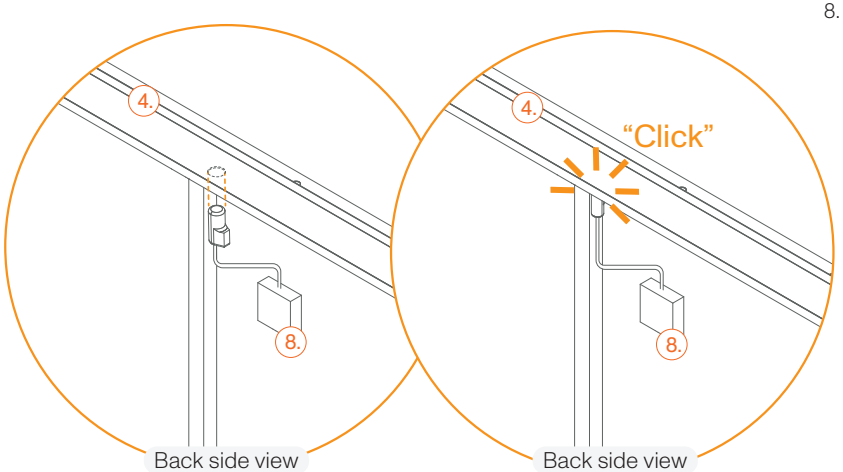
1. Wall
2. Support Bar
3. Screws
4. Power Bar A
5. Power Bar B
6. Microinverter
7. SunTile

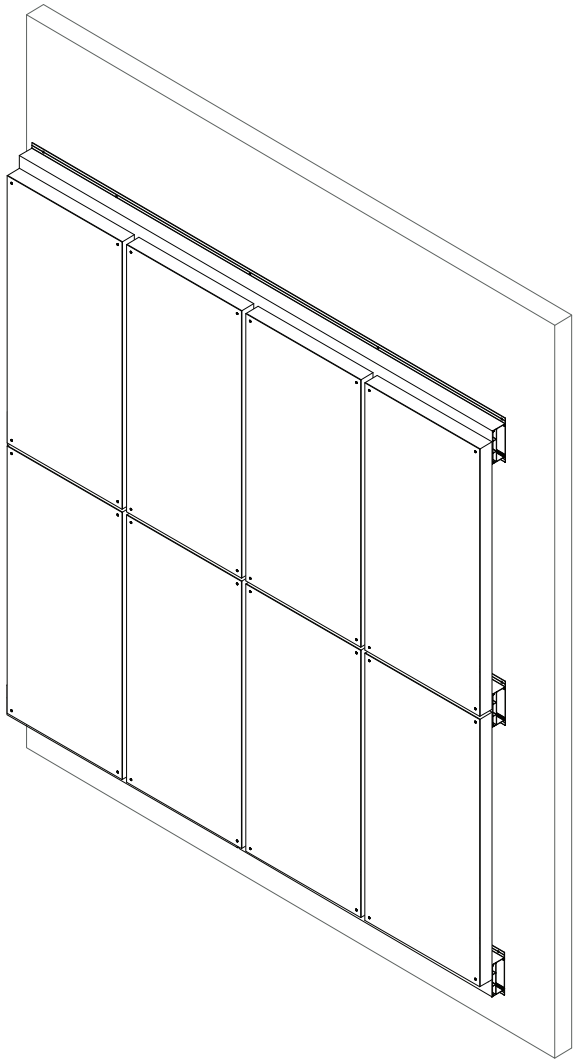


- Reach for the single wire coming out from the SunTile and connect it to the closest entry in the Power Bar until you hear a “Click”.

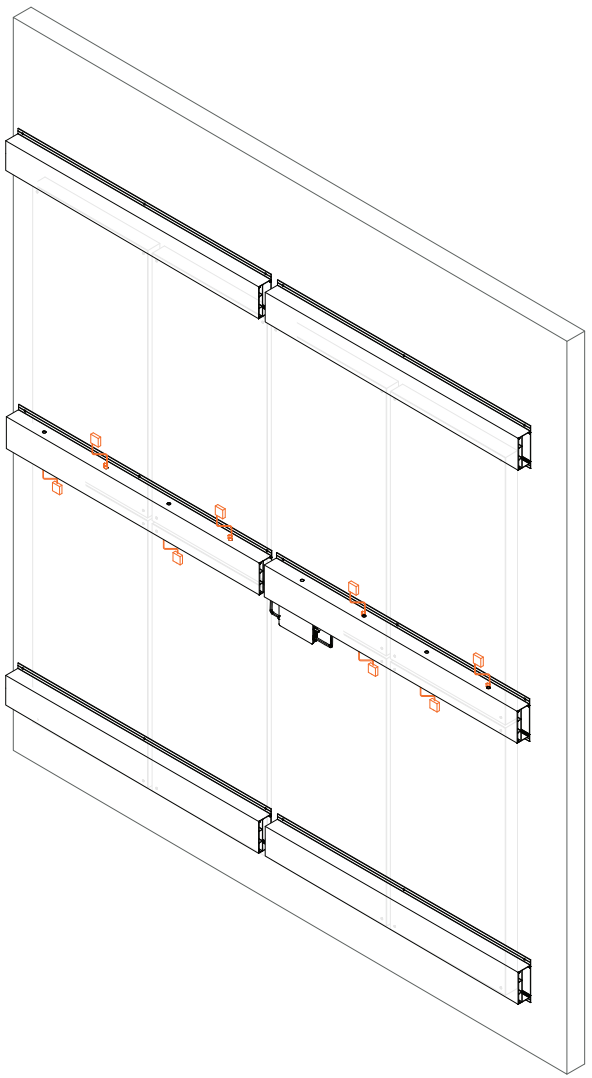
Components Guide

1. Wall
2. Support Bar
3. Screws
4. Power Bar A
5. Power Bar B
6. Microinverter
7. SunTile
8. Connector





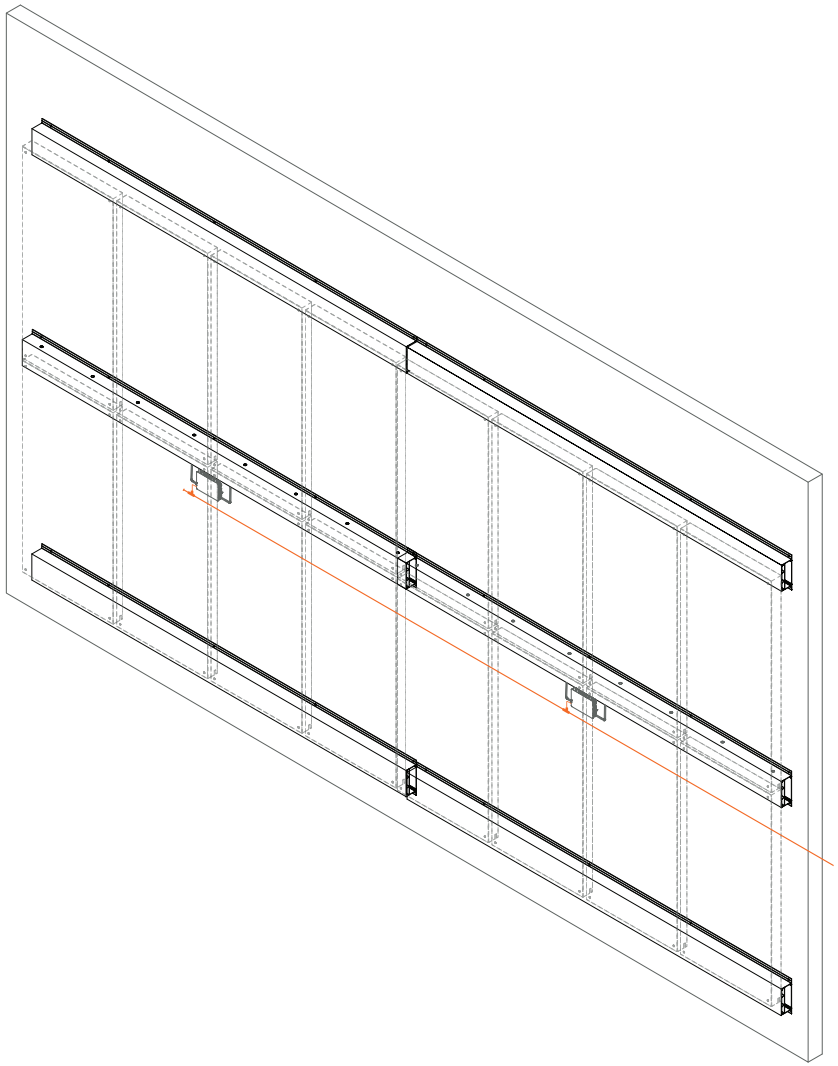
- Repeat the process until all 8 SunTiles are installed.
- Please note that this is an open joint system.



- Each panel needs to be connected to the closest plug in the Power Bar.

Wall To Wall Scenario

When you are connecting one **150 SQFT** system to another one, you need to connect the microinverters in the power bars with an AC trunk cable.



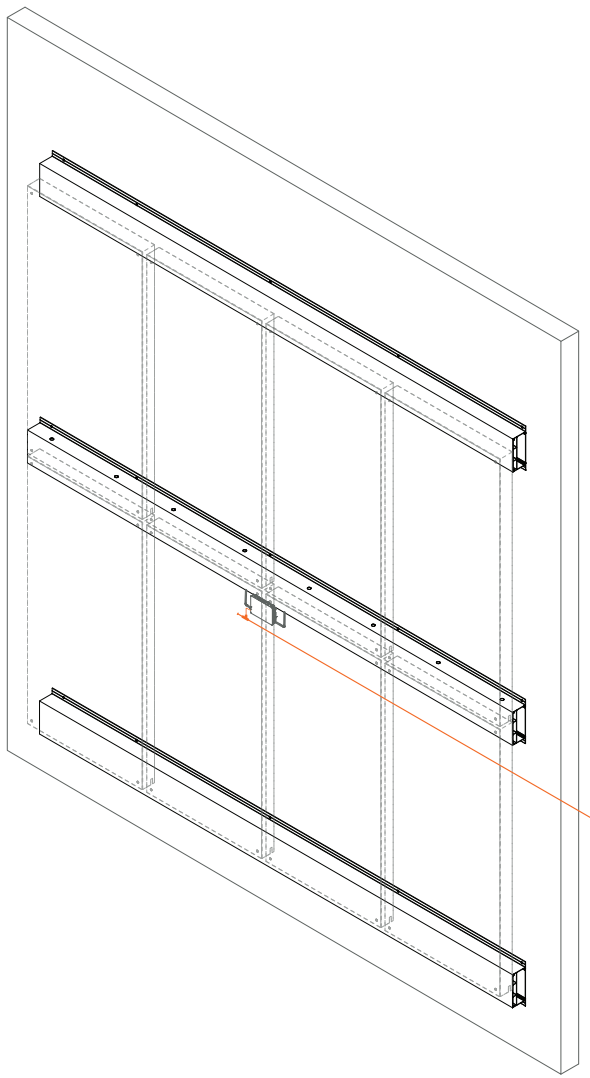
- The AC trunk cable needs to be run before installing the SunTiles.

- **Max Number of Microinverters Per Circuit**

480 V	Up to 15 Microinverters
208 V	Up to 6 Microinverters

Wall To Electrical Panel Scenario

When you reach the end of your circuit, you need to connect the microinverter in the power bar to the building electrical panel with an AC trunk cable. You will need to consult a registered electrician.



Layouts Inspiration

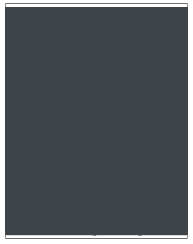
Linear Precision

Layout Variations

Horizon Grid

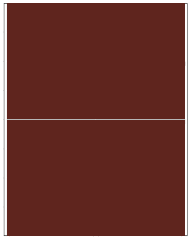
Layout Variations

Half Linear Precision



Layout Variations

Half Horizon Grid



Layout Variations

Dual Linear Precision A

Layout Variations

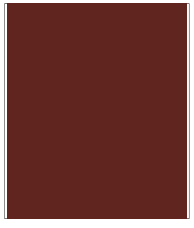
Dual Horizon Grid

Layout Variations

Mixed Linear Precision

Layout Variations

Mixed Horizon Grid



Layout Variations

Dual Linear Precision B

Layout Variations

Dual Linear Precision C

Layout Variations

Dual Linear Precision D

Layout Variations

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