



RECEIVED

APR 11 2022

COA# 22-22

Bldg. Permit # _____

CITY OF FORT PIERCE
PLANNING DEPARTMENT

Certificate of Appropriateness Application

Building & Site Information

Address of the Site: 718 Boston Ave, Fort Pierce, FL 34950

Parcel ID #: 2410-704-0011-000-6

Type of Designation: Contributing Non-contributing Site within the _____ Historic District

Individually Designated Site, City Commission Resolution No. _____

Property Owner/ Applicant Information

Property Owner(s)

Name(s): Jose Alanis

Mailing Address: 718 Boston Ave, Fort Pierce, FL 34950

Phone Number(s): (772) 216-0413 Email: jose@citrustransport.com

Applicant

Name(s): Daniel Fonzi (TESLA ENERGY OPERATIONS, INC.)

Mailing Address: 5350 NW 35 TERRACE SUITE 100, Ft Lauderdale, FL 33309

Phone Number(s): (954) 299 - 6607 Email: FORTPIC@TESLA.COM

Representative

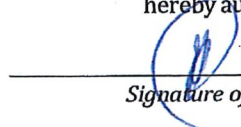
Name(s): TESLA ENERGY OPERATIONS, INC.

Mailing Address: 5350 NW 35 TERRACE SUITE 100, Ft Lauderdale, FL 33309

Phone Number(s): (954) 299 - 6607 Email: FORTPIC@TESLA.COM

Property Owner(s) Acknowledgements:- This application will not be considered complete without the signature of all property owners of record, which shall serve as an acknowledgement of the submission of this application. The property owner's signature below shall also authorize the Applicant (if other than the property owner) and/or Representative to act in his/her behalf for the purposes of seeking approval for the application described herein. The undersigned consents to inspection and photographing of the subject property by the Historic Preservation staff for purposes of consideration of this Application and/or presentation to the Historic Preservation Board.

I / We, JOSE ALANIS as Owner(s) of the subject property do hereby authorize the filing of this application on my/our behalf.


Signature of Owner

1-23-2022
Date

JK

Description of Requested Work

Please indicate the type of work requested:

- Fence Shed Door(s) Roof
- Window(s) Signage Shutter(s) Porch

- Rehabilitation New Construction Demolition Relocation

Site Improvements (describe) _____

Other (describe) _____

Please provide a detailed description of the proposed work to be performed: _____

Re-Roof To Tesla Solar Roof and Installation of Tesla Powerwall(s)

Have other alterations been made to the site within the last 12 months? No Yes, _____

Will the proposed work require a Zoning Variance? No Yes, Code Section(s): _____

Application Requirements

- \$10.00 Application fee
- Site Plan with dimensions.
- Architectural Drawings:
 - Drawings should show all current and proposed floor plans and elevations, fences, walls, and any other landscape features.
 - Drawings should indicate materials to be used.
- Photos - One (1) color photograph of the main façade of the site and photographs of any areas affected by the proposed project.
- Material(s) specifications and/or sample(s)
- Color samples.
- Demolition – Plans for what will be taking the demolished structure’s place should be submitted.

TESLA

SOLAR ROOF

OWNER'S DATASHEET



ROOFING SYSTEM SPECIFICATIONS

CERTIFICATIONS

UL Listed	ETL Listed
UL 61730	UL 790 Class A
UL 9703	TAS100
UL 1741	ASTM D3161 Class F
ANSI FM 4473 Class 3	

CHARACTERISTICS

Maximum open circuit voltage rating of connected branch circuits per diode (at STC): 13.34 V
Maximum series fuse rating: 10 A
Maximum system voltage: 600 V
Snow Load: 110 psf ground snow load and 150 psf roof snow load

PRINCIPAL MATERIALS

Glass, Polymers, Fiberglass, Silicon
Architectural Grade Steel, Architectural Grade Paint and Architectural Grade EPS Insulation

ROOF PITCH RANGE

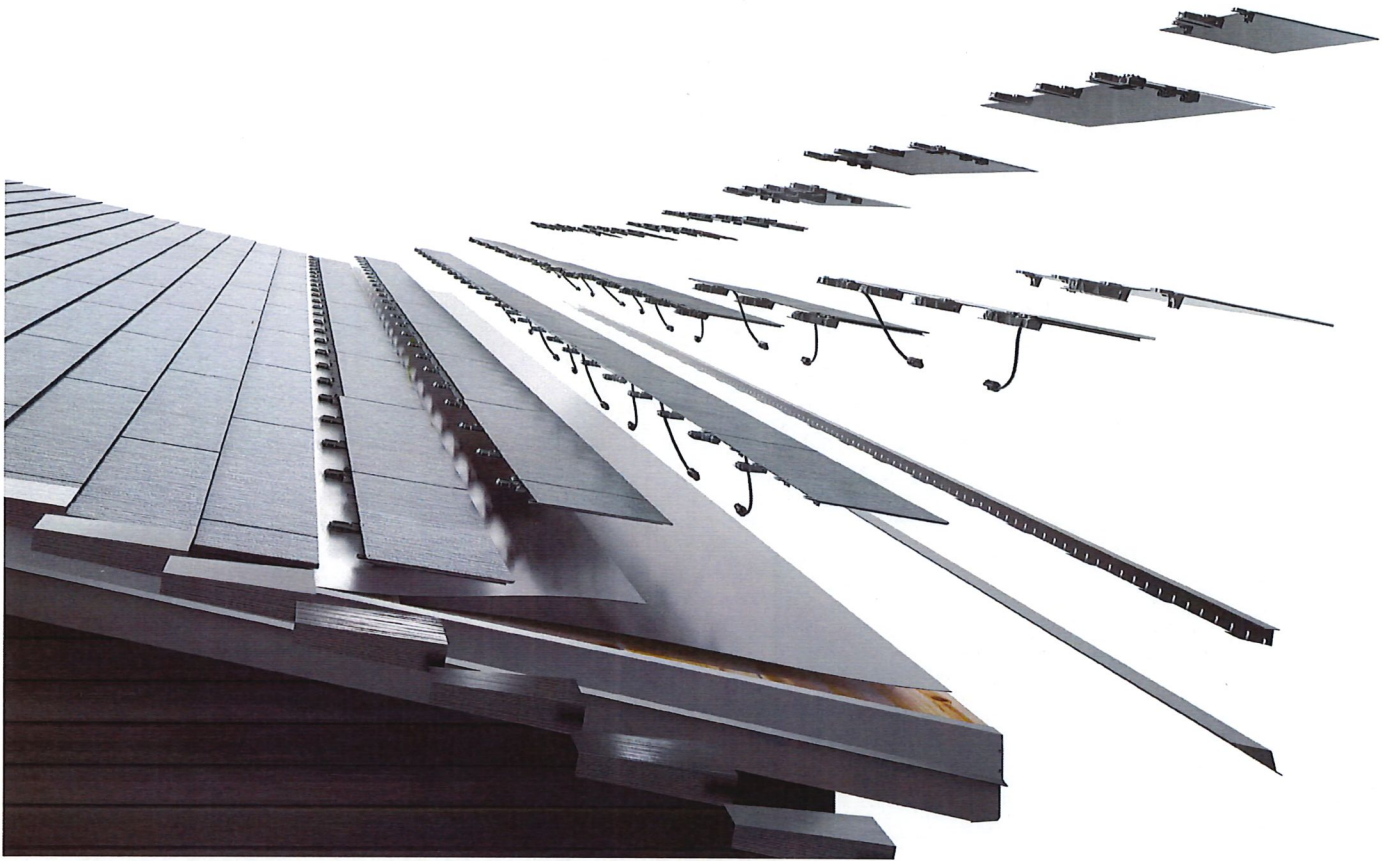
2:12 - 62:12

PHOTOVOLTAIC MODULE

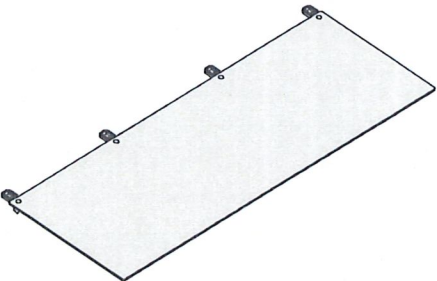
Irradiance (W/m ²)	Temp. (Celsius)	Voc (V)	Vmp (V)	Isc (A)	Imp (A)	Pmax (W)
1000	25	13.34	10.99	5.65	5.32	58.47

These electrical characteristics are within $\pm 5\%$ of the indicated values of Isc, Voc, and Pmax under standard test conditions (irradiance of 1000 W/m², AM 1.5 spectrum, and a cell temperature of 25 °C or 77 °F).

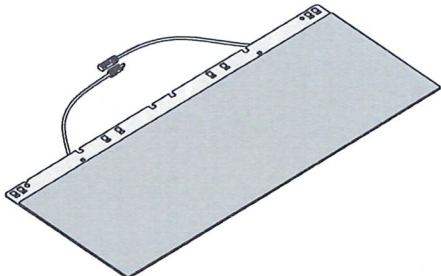
SOLAR ROOF SYSTEM



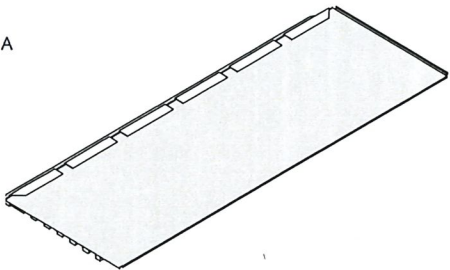
ROOFING MODULES, FULL AND PARTIAL
Listed to UL 61730
Listed to UL 790 Class A
ASTM D3161 Class F
TAS100



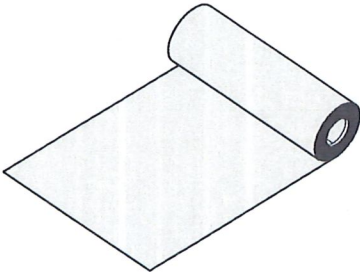
PV MODULE
Listed to UL 61730
UL 790 Class A
ASTM D3161 Class F
TAS100

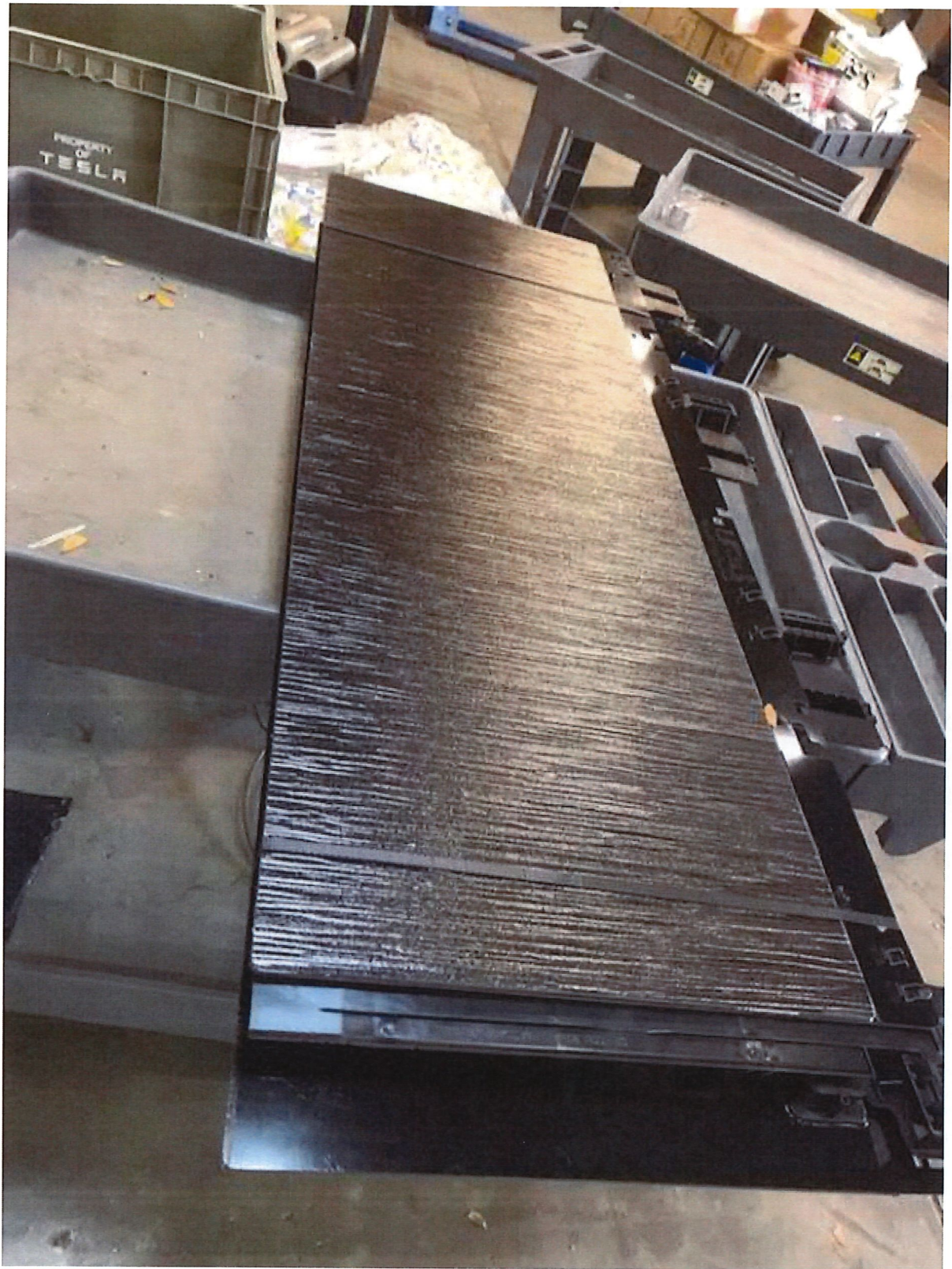


STEEL TILES, FULL AND PARTIAL
Listed to UL 1897
Listed to UL 790 Class A
ASTM D3161 Class F
TAS100



UNDERLAYMENT
FT Cobalt FR
ASTM D1970/ICC AC48
ICC AC188
ASTM E108 Class -A









YOUR SOLARGLASS

Congratulations on your new Solarglass roof. Welcome to the Tesla family and the energy revolution. Your beautiful and durable Solarglass roof will produce clean, renewable energy for years to come.

This manual walks you through each step of activating, monitoring, and maintaining Tesla Solarglass. If you have any questions about this manual or other functions of your Solarglass tiles, please contact **Tesla Customer Care**.

SOLARGLASS ROOF ACTIVATION

Tesla Customer Care notifies you when your utility company approves your Solarglass roof. If your system is approved and not yet turned on, you can activate Tesla Solarglass with guidance from Tesla Customer Care.

Glossary

Breakers Switches inside electrical panels that protect your home from harmful power surges.

Disconnect A switch, operated by a large handle, that disconnects or interrupts the electrical circuit.

Inverter A central component that converts solar-generated power from Direct Current (DC) voltage to Alternating Current (AC) voltage for your home's use.

System Activation

1. Turn on the breakers in your main electrical panel.

Go to your main electrical panel. Most electric panels are mounted on an outside wall, or mounted in a garage, basement, or closet.

Find the breakers labeled Solar System, PV, Photovoltaic Backfeed, or Tesla. Switch them On.

You may have an additional sub-panel. If you do, check to see if there are additional solar breakers in the sub-panel and switch them On.

2. Switch on the external AC and DC disconnects.

If your Solarglass system has one or both of these, switch them On.

3. Turn on your inverter.

Your inverter is typically installed near your electrical panel. Switch it On.



HOME ENERGY MONITORING

System Performance

The performance of Solarglass tiles is measured by how much energy is generated over time. Energy production can vary from month to month based on seasonal weather conditions. Other factors that can hinder production include:

- Unexpected shading due to new tree growth
- Debris or dirt on the tiles
- Snow coverage
- Long periods of inclement weather

You can find expected performance information on your Solarglass system layout document. You can also use the Tesla mobile app to follow your energy production in real time.

For homes with Powerwall, a Backup Gateway is installed for system monitoring and accessing Powerwall energy in case of a power outage. For homes without Powerwall, a Solar Gateway is installed for system monitoring. In both instances, you need an always-on Internet connection, a router with an open Ethernet port, an AC power outlet, and the Gateway.

Tesla Mobile App

Use the Tesla mobile app to monitor your Solarglass roof as well as products like Powerwall or your Tesla vehicle. The app gives you visibility into your Solarglass power generation and home energy use. The app also sends alerts from **Tesla Customer Care** if Tesla detects issues with your Solarglass system. Most issues can be resolved remotely by **Tesla Customer Care**. If not, Tesla sends a technician directly to your home.





Connecting to Your Solar Gateway

For homes without Powerwall, connect the Solar Gateway to monitor energy production from your Solarglass roof.

1. Download the Tesla mobile app on your smartphone.
2. Log into the Tesla mobile app.
3. Connect the Solar Gateway to your router.

Use the included Ethernet cable to connect the Solar Gateway to your router.

4. Turn on the Solar Gateway.

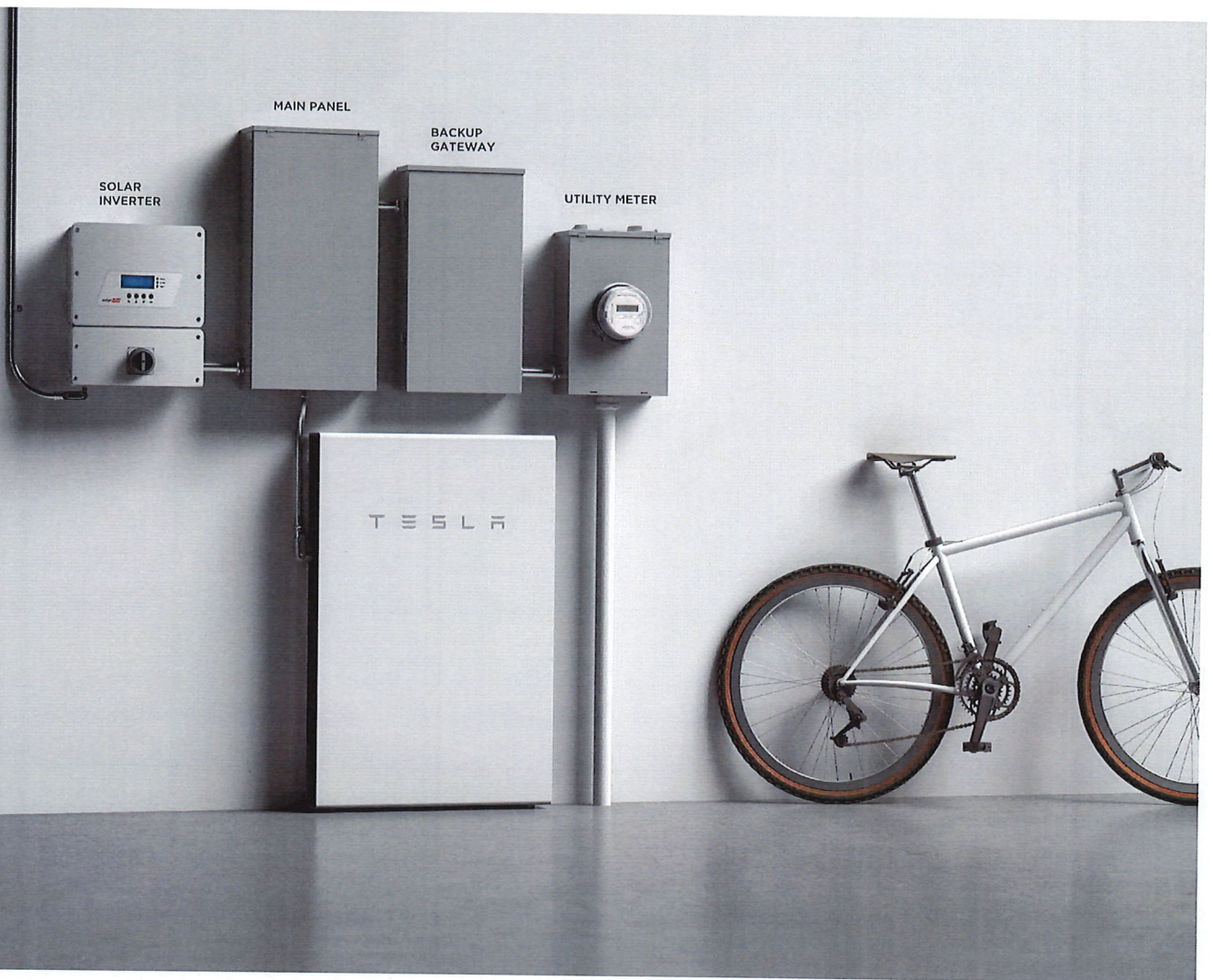
Plug your Solar Gateway into a power strip near your router using the included power supply. The power light on top will glow white.

5. Watch for a signal.

The Solar Gateway should be connected. If you see a WEAK SIGNAL notification, move the Solar Gateway closer to the inverter until the notification disappears. For any other error messages, please contact **Tesla Customer Care**.

6. Use the Tesla mobile app to monitor energy production in real time.

If you have trouble setting up or troubleshooting your Solar Gateway, please contact **Tesla Customer Care**.



Connecting to Your Backup Gateway

If your home has a Powerwall installed, the **Backup Gateway** is already installed and set up. Use the Tesla mobile app to follow your energy production in real time.

You can also find more information in the **Powerwall Owner's Manual** at:

www.tesla.com/support/energy/own/powerwall/owner-documents.

SOLARGLASS MAINTENANCE

Solarglass requires routine maintenance. Minor care on your part can ensure better system performance.


Shade Management

Shading on your roof can hinder electricity production. Keep trees or other tall plants trimmed to prevent shade on your Solarglass tiles.


Cleaning Solarglass Tiles

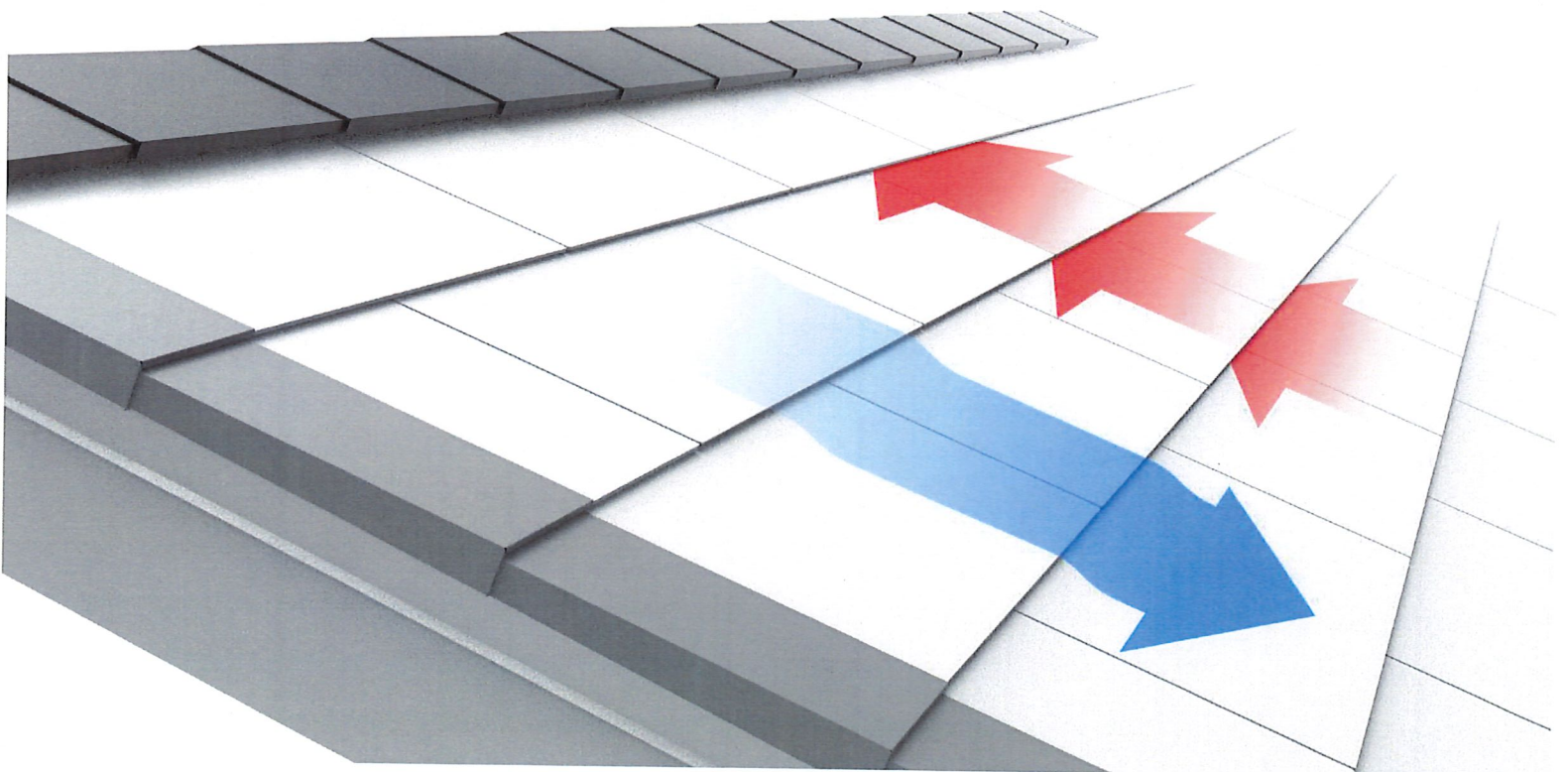
Debris or dirt on the tiles can hinder energy production. Tesla recommends that a professional perform any cleaning service required. Please contact **Tesla Customer Care** for guidance.

 **DANGER:** **DO NOT** walk or stand on the roof!

 **CAUTION:** **DO NOT** use detergents, abrasives, solvents, or other types of cleaning products. If you decide to clean your Solarglass roof, you can hose down your roof with water at standard garden hose pressures. Direct the spray or flow of water in the same direction that water typically flows on your roof (down) and avoid directly spraying the front edge of tiles, or between tiles. Where dust or debris has built up, or for problematic areas, use a telescoping soft brush (similar to soft brushes you use to wash your car) to gently wipe the roof surface.

Snow or Ice

 **DANGER:** Snow or ice may accumulate on your Solarglass roof during snow storms. Accumulated snow or ice may slide or fall, resulting in property damage or bodily harm. Please contact **Tesla Customer Care** for guidance.



WARRANTY AND SERVICE

Solarglass Warranty

Tesla provides a 25-year warranty on installation and weatherization of your Solarglass roof.

Solarglass Module Warranty

Your Solarglass tiles will produce power according to the Module Warranty listed in your Solarglass Warranty. This describes the amount of power your solar cells are capable of generating in optimal conditions. However, actual energy output may be affected by environmental factors such as shade, dust, debris, snow, and weather.

Inverter Warranty

Your power inverter comes with a 10-year warranty from its manufacturer. If you experience any issues with your power inverter during its 10-year warranty period, please contact **Tesla Customer Care** so we can help you file a warranty claim with the manufacturer. When you need to replace your power inverter after its warranted life, please contact Tesla Customer Service and we will help you obtain and install a replacement power inverter, at your cost.

Mid-Circuit Interrupter Warranty

Your Mid-Circuit Interrupter (MCI) comes with a 10-year warranty from its manufacturer. If you experience any issues with your Mid-Circuit Interrupter (MCI) during its 10-year warranty period, please contact **Tesla Customer Care** so we can help you file a warranty claim with the manufacturer. When you need to replace your Mid-Circuit Interrupter (MCI) after its warranted life, please contact Tesla Customer Service and we will help you obtain and install a replacement Mid-Circuit Interrupter, at your cost.

Powerwall Warranty

Powerwall is a maintenance-free product with a 10-year warranty. Please visit Tesla's support page for the Powerwall Owner's Manual at www.tesla.com/support/energy/own/powerwall/owner-documents.

How to Get Warranty Service

In the rare case that your Solarglass roof is not running properly, please contact **Tesla Customer Care**. If Tesla determines that a problem cannot be diagnosed or resolved remotely, **Tesla Customer Care** will troubleshoot the issue and arrange for service. If the issue is covered by warranty, your Solarglass roof will be repaired at no cost to you. If the issue is not covered by your warranty, **Tesla Customer Care** will assist you in resolving the issue and service charges may apply.





MP2	PITCH: 27° (6:12) ARRAY PITCH: 27° (6:12) AZIMUTH: 270 ARRAY AZIMUTH: 270 MATERIAL: Solar Roof STORY: Two
MP4	PITCH: 27° (6:12) ARRAY PITCH: 27° (6:12) AZIMUTH: 90 ARRAY AZIMUTH: 90 MATERIAL: Solar Roof STORY: Two
MP7	PITCH: 27° (6:12) ARRAY PITCH: 27° (6:12) AZIMUTH: 180 ARRAY AZIMUTH: 180 MATERIAL: Solar Roof STORY: Two
MP8	PITCH: 27° (6:12) ARRAY PITCH: 27° (6:12) AZIMUTH: 90 ARRAY AZIMUTH: 90 MATERIAL: Solar Roof STORY: Two
MP9	PITCH: 27° (6:12) ARRAY PITCH: 27° (6:12) AZIMUTH: 0 ARRAY AZIMUTH: 0 MATERIAL: Solar Roof STORY: Two

LEGEND

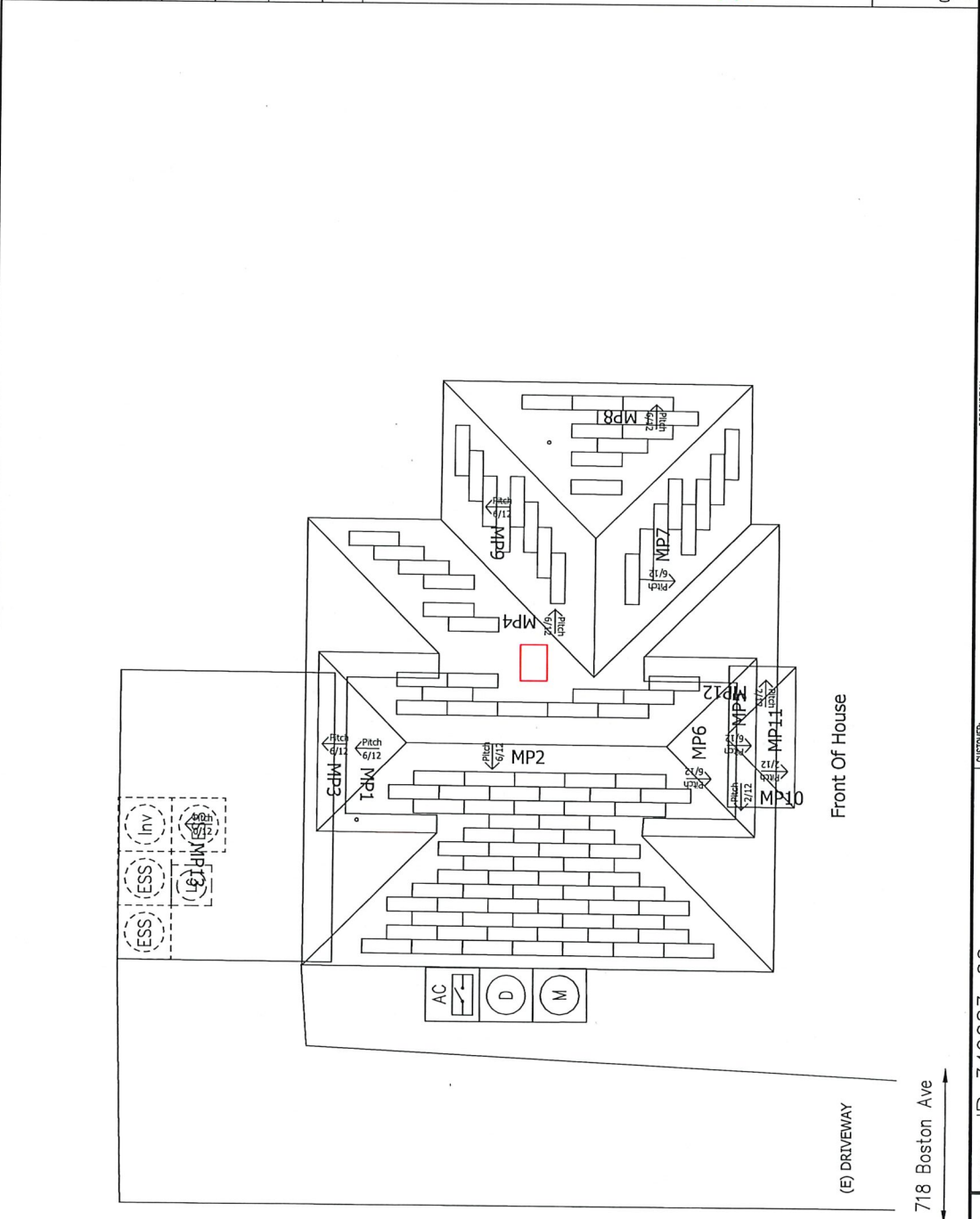
- (E) UTILITY METER & WARNING LABEL
- INVERTER W/ INTEGRATED DC DISCO & WARNING LABELS
- DC DISCONNECT & WARNING LABELS
- AC DISCONNECT & WARNING LABELS
- DC JUNCTION/COMBINER BOX & LABELS
- DISTRIBUTION PANEL & LABELS
- LOAD CENTER & WARNING LABELS
- DEDICATED PV SYSTEM METER
- RAPID SHUTDOWN
- STANDOFF LOCATIONS
- CONDUIT RUN ON EXTERIOR
- CONDUIT RUN ON INTERIOR
- GATE/FENCE
- HEAT PRODUCING VENTS ARE RED
- INTERIOR EQUIPMENT IS DASHED

SITE PLAN

Scale: 1/8" = 1'



DESIGNER: Mike Haugon
 REVISION: 2
 DATE: 10/7/2021



DESCRIPTION: 7.45368 KW PV ARRAY
 40.5 KWH ENERGY STORAGE SYSTEM
 PAGE NAME: SITE PLAN

CUSTOMER: Jose clanis
 718 Boston Ave
 Fort Pierce, FL 34950

JOB NUMBER: JB-349083 00
 MAINING SYSTEM: TESLA SOLAR ROOF
 MODULES: (104) 1547745-80-A
 INVERTER: Powerwall+ Tesla Inc [240V] # 1850000-00-B 7.6 kW / 13.5 kWh

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