# 568 ISLAND DRIVE PALM BEACH, FLORIDA 33480

## LEGEND

BRICK	STRUCTURAL CONCRETE	GTP. BD. OR STUCCO
STEEL	CERAMIC TILE	DIMENSION LUMBER
RIGID INSULATION	ALUMINUM	BLOCKING
EARTH/ COMPACT FILL	PLYWOOD	FINISH WOOD
UNDISTURBED EARTH	ROOF TILES	S GLASS
GRAVEL FILL	SIDING	STONE

# RENOVATIONS TO THE PROPERTY AT

	DRAWIN	IG INDEX	PR
	ECTURE		THIS IS A PERMIT APPL RESIDENCE.
4 <i>000</i>	COVER SHEET		
AØØ1	EXISTING SITE PLAN		THIS PROJECT IS CLAS
A100	EXISTING ROOF PLAN		BUILDING 2020.
A1Ø1	PROPOSED ROOF PLA	<sup>*</sup> N	
A4ØØ	EXISTING & PROPOSED	WEST ELEVATION	
A4Ø1	EXISTING & PROPOSED	SOUTH ELEVATION	PROJ
A4Ø2	EXISTING & PROPOSED	DEASTELEVATION	
A4Ø3	EXISTING & PROPOSEL	NORTH ELEVATION	
A4Ø9	1º115C. DETAILS		PROJECT —
			LOCITION
			L St N St CHADBOURN O St P-St Power Mac Center Palm St Penn St Park Pl uga Dr ngo Dr Biscayne Dr 1
ISSUANCE		d Rd ki Grill Vestwood Rd □ Sun VI VI VI VI VI VI VI VI VI VI	
FIRST SU	3MITTAL	JULY 11, 2024	
	GURMITTAI	1111 × 11 1A11	
JEUUND		JUL 1 22, 2024	
ARCOM		SEPTEMBER 25, 2024	

# ROJECT SUMMARY

PLICATION FOR RE-ROOFING AN EXISTING 2-STOREY

ASSIFIED AS A LEVEL 2 ALTERATION PER FBC EXISTING

## JECT LOCATION MAP

1	
Palm Beach Town Palm Beach Town Palm Beach Town Palm Beach Town Palm Beach Town Palm Beach Daily Paris Garden () Paris	
	NORTH

THE PROPERTY 568 ISLAND DRIVE PALM BEACH, FL 33480 **RENOVATIONS TO** 

AT

PHASE PR NO	CD 22205	
A000		



Sitescape - Island Drive







Existing Property - Motor Court / Garage



Existing Property - Rear Guest Bedroom



Existing Property - Entry



Existing Property - North Side



Existing Property - Rear Elevation from South



Existing Property - South Side



Existing Property - Rear Elevation from North



Existing Property - Rear Elevation from South Close







A100

NORTH

![](_page_6_Figure_0.jpeg)

EXISTING CONCRETE ROOFING TILE TO BE REPLACED WITH TESLA ROOFING TILE

DRIVE FL 33480 568 ISLAND I PALM BEACH, F

PROPERTY THE TO RENOVATIONS

AT

![](_page_6_Figure_4.jpeg)

PHASE PR NO	CD 22205
A1	01

1/4'' = 1'-0''

NORTH

![](_page_7_Figure_0.jpeg)

![](_page_8_Figure_0.jpeg)

![](_page_9_Figure_0.jpeg)

![](_page_10_Figure_0.jpeg)

## Similar to Existing Roof Tile

D1 : Existing

![](_page_11_Picture_2.jpeg)

D2 & D3: Proposed glass shingle roof tile

![](_page_11_Picture_4.jpeg)

Hail Rating Class 4 ANSI FM 4473 (Best hail rating)

Wind Rating Class F ASTM D3161 (Best wind rating)

Fire Rating Class A UL 790 (Best fire rating)

## ARCOM approved roof tile (2021)

### 127 Root Trail in Palm Beach

- Glass roof tile approved unanimously by ARCOM in 2021
- After the glass roof tile approval, 127 Root Trail was designated an official landmark of the Town of Palm Beach
- Similarly to 568 Island Drive, this is a historical home in a historical neighborhood on the island of Palm Beach in need of substantial renovation with a preservation-minded new owner

D2 & D3: Proposed glass shingle roof tile

![](_page_12_Picture_6.jpeg)

![](_page_12_Picture_7.jpeg)

127 Root Trail in Palm Beach with Proposed Glass Tile Approved and Landmarked

## Similar to Existing Roof Tile

![](_page_13_Picture_1.jpeg)

Existing Condition – View from East (Everglades Golf Course)

Rendering of Proposed Tile

![](_page_13_Picture_4.jpeg)

## Similar to Neighborhood Roof Tile

### Proposed glass roof tile not dissimilar to neighboring 576 Island Drive roof tile

![](_page_14_Picture_2.jpeg)

![](_page_14_Picture_3.jpeg)

Existing Condition

Rendering

#### Tesla Photovoltaic Module

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#### SR72T2 for full tear-off and overlay installations with SR-SAUL-1

Solar Roof shingle tiles are an aesthetically unparalleled solar energy solution. The combination of energy producing and non-energy tiles allows a Solar Roof to be functionally integrated and customizable to a variety of roof shapes and sizes.

![](_page_15_Picture_3.jpeg)

#### **Module Specifications**

Electrical Characteris	tics
Power Class	SR72T2
Test Method	STC
Max Power, $P_{_{MAX}}\left(W\right)$	72
Open Circuit Voltage, V <sub>oc</sub> (V) per diode	14.20
Short Circuit Current, I <sub>sc</sub> (A)	6.80
Max Power Voltage, $V_{_{\rm MP}}$ (V)	11.30
Max Power Current, $I_{_{MP}}(A)$	6.30
STC	1000 W/m², 25°C, AM 1.5 spectrum
Mechanical Loading	
Wind Rating	Up to 87 m/s   194 mph
Roof Snow Load	Up to 1280 kg/m²   263 lbs/ft² surface-normal Up to 270 kg/m²   55 lbs/ft² shear
Hailstone Rating	FM 4473 Class 3 (Intertek)
Mechanical Paramete	rs
Cells	14
Junction Box	IP68, 1 diodes
Cable	12 AWG PV Wire, 90 °C wet or dry, Long lead 315 mm   12.40 in. length Short lead 280 mm   11.02 in. length
Connector	Staubli MC4 type PV-KST4/6II-UR or type PV-KST4-EVO2 (male) and Staubli MC4 type PV-KBT4/6II-UR or type PV- KBT4-EVO2 (female)
Principal Materials	Glass, Polymers, Fiberglass and Silicon
Height From Deck	35.3 mm   1.39 in
Nominal System Weight	16.3 kg/m²   3.34 psf
HVHZ System Weight	17.6 kg/m²   3.61 psf
Dimension	430 mm x 1140 mm x 5 mm 16.93 in x 44.88 in x .20 in
<b>Operation Parameters</b>	s
Operational Temperature	-40 °C up to 85 °C
Power Output Tolerance	-0 /+5%
Max System Voltage	DC 1000 V (IEC/UL) for installations above 2000m but below 3000m the system voltage is 877 V
Max Series Fuse Rating	10 A
Safety Class	Class II
Fire Rating	UL 61730 Class A
Limited Warranties	
Module Warranty	25 years

The power output capacity of your Solar Roof will be at least 95% of maximum rated output power of the Solar Roof system at 5 years after install. The power output capacity • DOC POS-2 OSB sheathing: minimum 7/16" thick (11.1 mm) or will decline by no more than 0.5% per year for the following 20 years. This warranty covers the power your Solar Roof will produce under standard test conditions.

![](_page_15_Figure_10.jpeg)

#### TESLA

![](_page_16_Figure_0.jpeg)

![](_page_17_Picture_0.jpeg)

Overview Solar Roof is a fully integrated roof system comprised of matching solar tiles and non-solar tiles.	The layout provided only details the active solar tile positions. Solar tile positions are approximate and may change depending on roof conditions and electrical requirements	Customer Brand Residence 568 Island Dr, Palm Beach, FL 33480	Solar Roof Solar System Size: 23.54 kW	Est. Annual Energy Produced: 26,629.94 kWh/yr Building(s) with Solar Roof: Main Home Powerwall Quantity: 4
LEGEND	Solar Tiles	Non-Solar Tiles	Alternative Roof Surface	Color Rooftop vents, skylights, chimneys, and HVAC

![](_page_18_Figure_0.jpeg)