VILLAGE OF KEY BISCAYNE

Department of Building, Zoning, Planning and Public Works

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HVHZ Electronic Solar Permit Form

Master Permit No. | Process No.

Contractor's Name | Job Address

Municipality | County | State

☐ New Roof (requires separate roof permit) ☐ Re-Roof (requires separate roof permit) ☐ Existing Roof

Roof Type | Select Roof Type | Select Roof Deck Type | Deck Type

Support Spacing | Structural Support Type

Roof Slope | Roof Mean Height (ft)

Type of Solar Array

Select Solar Array Type | Solar Panel Manufacturer

Solar Module Model No. | Florida Solar Energy Center Certification No.

Provide Roof Top Location of the Solar Modules

☐ P(1) Field of Roof ☐ (P) 2 Perimeter of Roof Perimeter Width (a')

Solar Modules Shall Not Be Installed in (P) 3 Corners of any Roof or Roof Section

Wind Exposure Category per ASCE-10 ○ Exposure C ○ Exposure D

Calculated Roof Uplift Pressures per ASCE -10

Prescriptive Steep Slope Roof Uplift Pressures per RAS-127 [1]
Prescriptive Low Slope Roof Uplift Pressures per RAS-128 [2]

Calculated P(1) pressure (psf) | Select Prescriptive P (1) Pressures

Calculated P(2) pressure (psf) | Select Prescriptive P (2) Pressures

[1] RAS-127 steep slope roofs ≥ 2:12 & [2] RAS-128 low slope roofs < 2:12
Test Protocols for High-Velocity Hurricane Zones

Is the Solar Array Installed Parallel to the Roof Surface? ◯ Yes ◯ No

Is the Solar Array Installed Inclined to the Roof Surface? ◯ Yes ◯ No

Roof Top Solar Array Attachment

Roof Top Mounting Bracket Type

- ◯ Stand-Off ◯ Angle Support
- ◯ S Clamps (Standing Seam Metal Roofs)
- ◯ Other Mount Type

Other Mount Type

Solar Rack System

Mount Spacing Field P (1)

Mount Spacing Perimeter P (2)

Provide Support Mount Height

Provide # of Fasteners Per Mount

Select Fastener Type

Minimum 2.5" Embedment, Pilot Hole Required

a. Solar Module Size

b. Module Area (ft^2)

c. Total Installed Modules

d. Total Area of Installed Modules {b xc} (ft^2)

Solar Module Weight (lbs.)

e. Total weight of Modules & Attachment Rails (lbs.)

f. Total Number of Roof Attachment Points

Weight per Attachment Point {e ÷ f} (lbs.)

Support Rail Height Above Finished Roof Surface

Provide # Support Rails in Field P(1)

Provide # Support Rails in Perimeter P (2)

Photovoltaic Laminate Modules (PVL) Adhered Directly to Roof Systems

A Separate Roof Permit is Required for Adhered PVL Modules

Provide Roof Top Location of the PVL Modules

PVL Modules Shall Not be Installed in Zone (P) 3 Corners of any Roof or Roof Section

☐ P(1) Field of Roof

☐ (P) 2 Perimeter of Roof

Perimeter Width (a')

Wind Exposure Category per ASCE-10

◯ Exposure C ◯ Exposure D

Calculated Roof Uplift Pressures per ASCE -7

Prescriptive Steep Slope Roof Uplift Pressures per RAS-127 [1]
Prescriptive Low Slope Roof Uplift Pressures per RAS-128 [2]

Calculated P(1) pressure (psf)

Select Prescriptive P (1) Pressures

Calculated P(2) pressure (psf)

Select Prescriptive P (2) Pressures

[1] RAS-127 steep slope roofs ≥ 2:12 & [2] RAS-128 low slope roofs < 2:12
Test Protocols for High-Velocity Hurricane Zones

PVL Manufacturer

PVL Product Control Approval No.

PVL Model No.

* Roof System Product Approval Number

** With PVL Module Listed as an Approved Component*

Select Roof Type PVL is Adhered to

Roof System Type

* PVL Maximum Design Pressure

** From Roof System Product Approval*

Does the Roof System Have a Class "A" Fire Rating with the PVL as a Tested Component?

◯ Yes ◯ No

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