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# HISTORIC DISTRICT COMMISSION APPLICATION FOR WORK APPROVAL

City of Detroit - Planning & Development Department 2 Woodward Avenue, Suite 808		APPLICATION ID
Detroit, Michigan 48226		HDC2025-00427
PROPERTY INFORMATION		
ADDRESS(ES): 1950 TRUMBULL ST, DETROIT, MICHIGAN	1	
HISTORIC DISTRICT: Corktown		
SCOPE OF WORK: (Check ALL that apply)		
Windows/ Walls/ Painting	Roof/Gutters/ Por Chimney	ch/Deck/Balcony
	Site	e Improvements dscape, trees, fences,
		os, etc.)
BRIEF PROJECT DESCRIPTION: Install 13.53kW solar array on roof of building.		
APPLICANT IDENTIFICATION		
TYPE OF APPLICANT: Contractor		
TYPE OF APPLICANT: Contractor         NAME: Emily Prehoda	COMPANY NAME: Solar Faith	nful
		nful STATE: MI <b>ZIP:</b> 49441
NAME: Emily Prehoda		<b>STATE:</b> MI <b>ZIP:</b> 49441
NAME:         Emily Prehoda           ADDRESS:         1310         11th         Street           PHONE:         +1         (231)         246-7816	CITY: Muskegon EMAIL: emily@solarfaithful.org	<b>STATE:</b> MI <b>ZIP:</b> 49441
NAME: Emily Prehoda         ADDRESS: 1310 11th Street         PHONE: +1 (231) 246-7816         I AGREE TO AND AFFIRM THE FOLLOWI	CITY: Muskegon EMAIL: emily@solarfaithful.org NG:	<b>STATE:</b> MI <b>ZIP:</b> 49441
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NOTE: Based on the scope of work, additional documentation may be required. See <a href="http://www.detroitmi.gov/hdc">www/detroitmi.gov/hdc</a> for scope-specific requirements.

# PROJECT DETAILS – TELL US ABOUT YOUR PROJECT

Instructions: Add project details using the text box in each section. If your details exceed the space provided, attach the details via the attachment icon for that section.

# **ePLANS PERMIT NUMBER:**

(only applicable if you've already applied for permits through ePLANS)

N/A

### GENERAL

#### 1. DESCRIPTION OF EXISTING CONDITION

Please tell us about the current appearance and conditions of the areas you want to change. You may use a few sentences or attach a separate prepared document on the right. (For example, "existing roof on my garage is covered in gray asphalt shingles in poor condition.")

We are looking to install solar panels on the southeast facing roof. I will attach photos to show this. The existing roof area we are looking to install the panels is currently asphalt shingle.

#### 2. PHOTOGRAPHS

Help us understand your project. Please attach photographs of all areas where work is proposed.

#### 3. DESCRIPTION OF PROJECT

In this box, tell us about what you want to do at the areas described above in box #1. (For example, Install new asphalt shingle roofing at garage.)

Install 3 solar panels in each roof section, detailed in the images in box #2. We are looking to install 14 panels on the upper shingle roof that is southeast facing. Finally, we have four solar panels that we would like to install in a flatter portion of the roof just below the pitched area that has 14 panels. These four panels will be minimally visible from the parking lot. All panels are not directly facing a right of way as they are facing the church's parking lot.

#### 4. DETAILED SCOPE OF WORK

In this box, please describe all steps necessary to complete the work described in box #3. (For example, "remove existing shingles, replace wood deck as necessary, replace wood eaves, install roof vents, replace rotted fascia boards, paint, clean worksite.")

I am attaching the planset to describe the detailed scope of work. I have attached the data sheets for the attachments we are proposing to use and the solar panels we plan to utilize for this project as well.

#### 5. BROCHURES/CUT SHEETS

Please provide information on the products or materials you are proposing to install. For example, a brochure on the brand and color of the shingles proposed.

# ADDITIONAL DETAILS

#### 9. OTHER

Please provide any additional details. HDC Staff may ask you to submit additional information at a later time depending on your project.





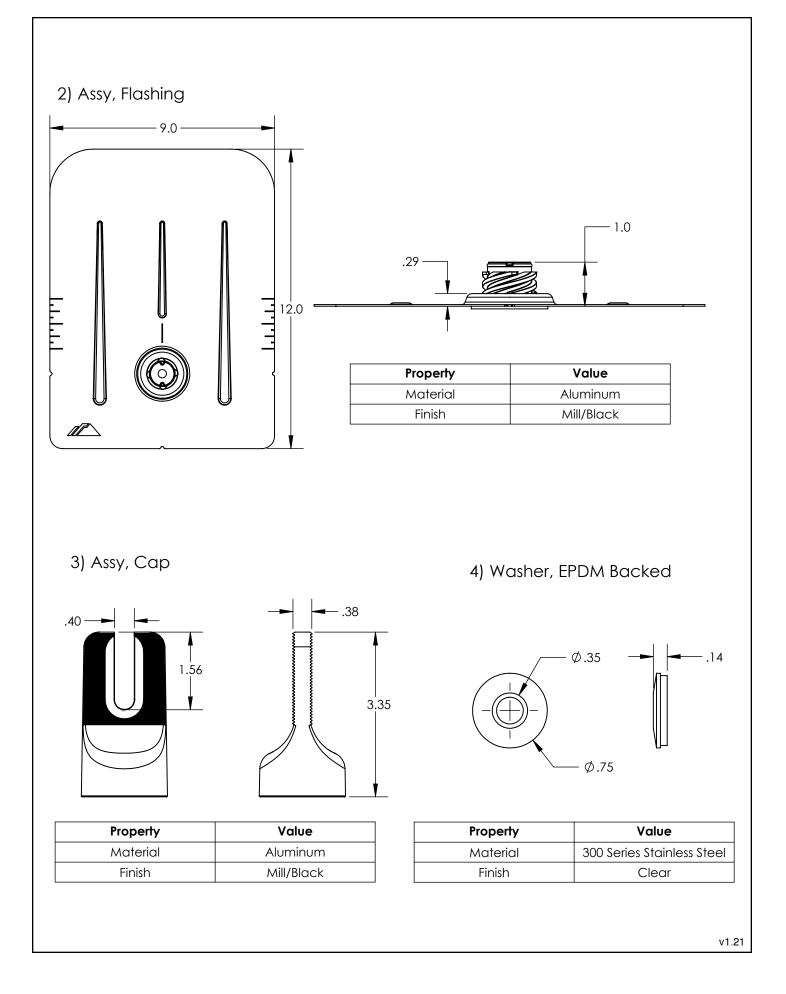
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# FlashFoot2

Cut Sheet

	ITEM NO.	DESCRIPTION	
	<b>ITEM NO.</b>		
		DESCRIPTION BOLT LAG 5/16 X 4.75" ASSY, FLASHING	
	1	BOLT LAG 5/16 X 4.75"	
	1 2	BOLT LAG 5/16 X 4.75" ASSY, FLASHING	
Parl	1 2 3	BOLT LAG 5/16 X 4.75" ASSY, FLASHING ASSY, CAP	
FF:	1 2 2 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BOLT LAG 5/16 X 4.75" ASSY, FLASHING ASSY, CAP WASHER, EPDM BACKED Description	
Parl FF: FF 1) Bolt, Lag 5/	1       2       3       4         Number       2-01-M1       2-01-B1	BOLT LAG 5/16 X 4.75" ASSY, FLASHING ASSY, CAP WASHER, EPDM BACKED Description FLASHFOOT2, MILL	









Positive Power Tolerance -0 to +3%



# FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year 1 and .55% annually from years 2 to 25 with 84.8% capacity guaranteed in year 25. For more information, visit www.missionsolar.com/warranty

# CERTIFICATIONS



If you have questions or concerns about certification of our products in your area, please contact Mission Solar Energy.



Mission Solar Energy is headquartered in San Antonio, Texas where we manufacture our modules. We produce American, high-quality solar modules ensuring the highest-in-class power output and best-in-class reliability. This product is tailored for residential and commercial applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, providing excellent performance over the long term.

# America's Module Company®



### Fair Trade Practices

- Free of forced labor at all stages of the supply chain
- Not subject to AD/CVD tariffs or investigations
   Polysilicon manufactured with sustainable hydroelectric power



## **Certified Reliability**

- Tested to UL 61730 & IEC Standards
- PID resistant
- Resistance to salt mist corrosion

## Advanced Technology

- M10 half-cut cell with 10 busbars
- Passivated Emitter Rear Contact
- Engineered for residential and commercial applications

#### Extreme Weather Resilience

- Up to 5,400 Pa snow and wind load
- Third-party hail tests exceed 2.2" at 76mph

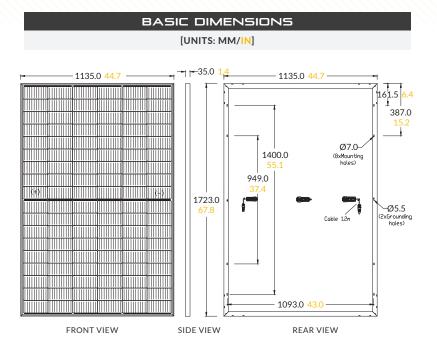
## **BAA Compliant for Government Projects**

- Buy American Act
- American Recovery & Reinvestment Act





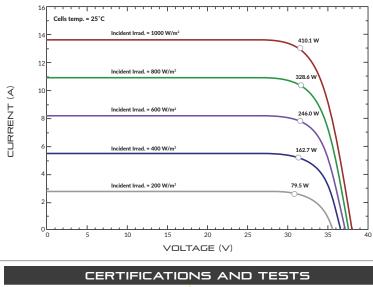
# Class Leading



#### CURRENT-VOLTAGE CURVE

MSE410HT0B: 410W, 108 HALF-CUT CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature



IEC 61215, 61730, 61701 UL 61730



# Mission Solar Energy

8303 S. New Braunfels Ave., San Antonio, Texas 78235 www.missionsolar.com | info@missionsolar.com

Mission Solar Energy reserves the right to make specification changes without notice.

C-MKTG-0033 VERSION: 7 VERSION DATE: 12/20/2024

# MSE PERC 108HC

ELECTRICAL SPECIFICATION					
PRODUCT TYPE	PE MSExxxHT0B (xxx = P <sub>max</sub> )				
Power Output	P <sub>max</sub>	$W_p$	400	405	410
Module Efficiency		%	20.5	20.7	21.0
Tolerance		%	0/+3	0/+3	0/+3
Short Circuit Current	$I_{sc}$	А	13.75	13.82	13.90
Open Circuit Voltage	Voc	V	37.09	37.27	37.41
Rated Current	Imp	А	12.92	13.00	13.07
Rated Voltage	Vmp	V	30.96	31.16	31.38
Fuse Rating		А	25A	25A	25A
System Voltage		V	1,000	1,000	1,000

#### TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	45.52°C (±3.7%)
Temperature Coefficient of Pmax	-0.343%/°C (±5.0%)
Temperature Coefficient of Voc	-0.254%/°C (±5.0%)
Temperature Coefficient of Isc	+0.0266%/°C (±10.0%)

#### OPERATING CONDITIONS

Maximum System Voltage	1,000Vdc
Operating Temperature Range	-40°F to 185°F (-40°C to +85°C)
Maximum Series Fuse Rating	25A
Fire Safety Classification	Type 1*
Front & Back Load (UL Standard)	Up to 5,400 Pa front and 5,400 Pa back load. Tested to UL 61730
Hail Safety Impact Velocity	2.2" at 76mph (55mm at 33.9m/s)

\*Mission Solar Energy uses quality sourced materials that result in a Type 1 fire rating. Please note, the 'Fire Class' Rating is designated for the fully-installed PV system, which includes, but is not limited to, the module, the type of mounting used, pitch and roof composition.

ME	CHANICAL DATA		
Solar Cells	P-PERC 182mm x 182mm		
Cell Orientation	108 half-cut cells		
Module Dimension	1723mm x 1135mm x 35mm		
Weight	42 lbs. (19kg)		
Front Glass	3.2mm tempered, low-iron, anti-reflective		
Frame	35mm anodized interlocking		
Encapsulant	Ethylene vinyl acetate (EVA)		
Junction Box	Protection class IP68 with 3 bypass-diodes		
Cable	1.2m, Wire 4mm <sup>2</sup> (12AWG)		
Connector	MC4 Staubli PV-KBT4/6II-UR and PV-KST4/6II-UR		

SHIPPING INFORMATION				
Truck Load	Ship To	Pallets	Modules	410W Bin
53'	Most States	26	806	330.46 kW
Double Stack: (Horizontal Orientation): 31 modules per pallet				
PALLET [31 MODULES]				
Weight 1,610 lbs. (730 kg)	Height 51 in (129.5 cm)	(1	Width 47 in 19.4 cm)	Length 70 in (177.8 cm)