## SOLARO ENERGY, INC "SOLARO AIRE" SOLAR ATTIC ROOF VENT INSTALLATION ANCHORAGE DETAILS

## **GENERAL NOTES:**

- 1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) REQUIREMENTS EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AT THE DESIGN PRESSURE(S) STATED HEREIN. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT NCTL-210-4009-01, DATED 07/29/15 BY NATIONAL CERTIFIED TESTING LABORATORIES AND ASSOCIATED LABORATORY STAMPED DRAWINGS.
- 2. THE PRODUCT HAS BEEN STRUCTURALLY TESTED TO AND FOUND TO BE IN CONFORMANCE TO SECTION 1709.2 OF THE FLORIDA BUILDING CODE (FBC). THE DESIGN PRESSURES SHOWN ON D.P. CHART ON SHEET 1 OF THIS DRAWING ARE BASED ON THE RESULT OF TEST REPORT NUMBER NCTL-210-4009-01 TESTING TO ASTM E330-02 DIVIDED BY A FACTOR OF SAFETY OF 2.
- 3. ADEQUACY OF THE EXISTING STRUCTURAL 2X FRAMING AND/OR SHEATHING TO WITHSTAND AND TRANSFER THE APPLIED PRODUCT LOADS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- 5. THE SOLARO INC PRIMARY COMPONENTS ARE COMPRISED OF THE FOLLOWING MATERIALS: 5.1. LOW OR HIGH PROFILE BASE: 0.080" 3003-0 SPUN ALUMINUM
- 5.2. FAN HOOD, 4.50" X 0.063" THICK: ALUMINUM 3003-0.
- 6. THIS PRODUCT EVALUATION DOCUMENT ADDRESSES THE STRUCTURAL ATTACHMENT OF THE ROOF VENT TO THE ROOF SHEATHING ONLY. PREPARATION OF THE ROOF SHEATHING AND ROOF COVERINGS TO RECEIVE THE ROOF VENT SHALL BE PER THE MANUFACTURERS INSTRUCTIONS.
- 7. INTERNAL MECHANISMS, ELECTRICAL COMPONENTS AND SOLAR COMPONENTS ARE BEYOND THE SCOPE OF THIS PRODUCT EVALUATION DOCUMENT.
- 8. THE SOLAR ATTIC FANS SHALL BE INSTALLED IN COMPLIANCE WITH THE INSTALLATION METHOD LISTED IN THIS DRAWING. THE INSTALLATION METHOD DESCRIBED HEREIN IS IN ACCORDANCE WITH THE SCOPE OF THIS EVALUATION AND BASED ON TESTING. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AS A SUPPLEMENTAL GUIDE FOR ATTACHMENT.

## **INSTALLATION NOTES:**

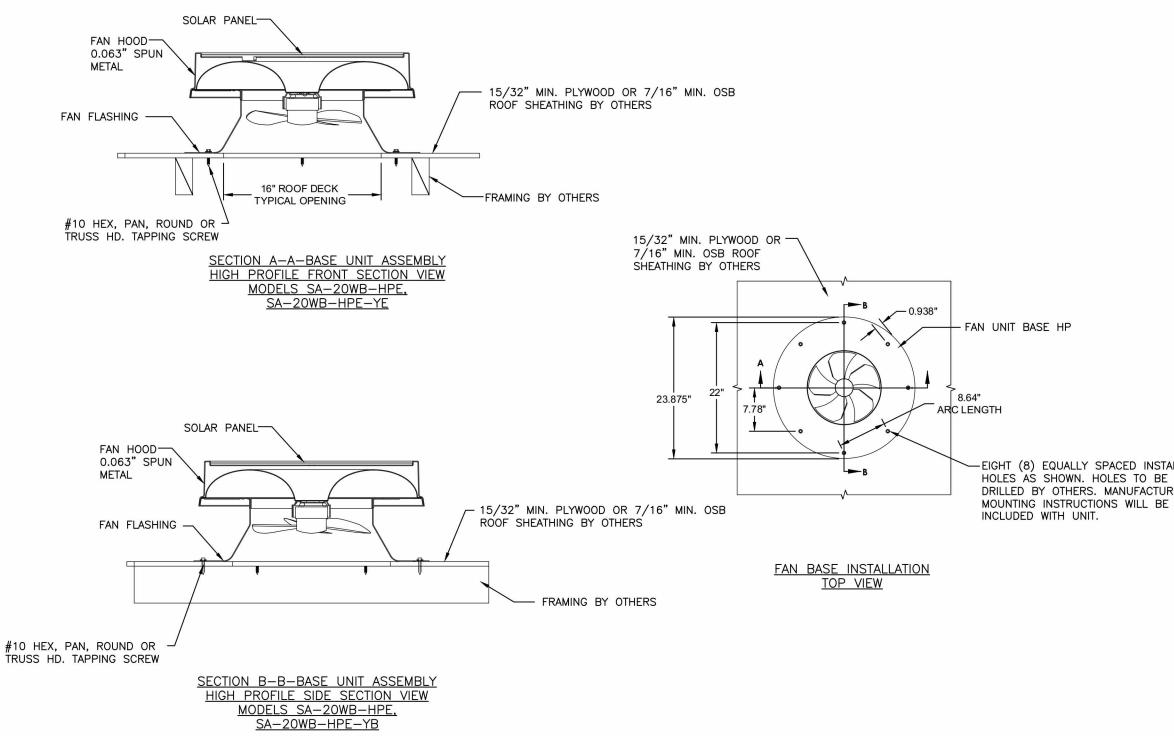
- 1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON SHEET 2 AND 3.
- 2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION AT THE TESTED SIZE SHOWN SEE SHEETS 2 AND 3 FOR ANCHORAGE.
- 2.1. SEE INSTALLATION TOP VIEWS ON SHEETS 2 AND 3 FOR ANCHOR QUANTITIES.
- 3. ANCHORS ARE TO MATCH TYPE, SIZE, AND SPACING OF THOSE SHOWN HEREIN.
- 4. FOR INSTALLATION INTO PLYWOOD /OSB SHEATHING, USE NO. 10 TYPE AB, HEX HEAD, PAN HEAD, ROUND HEAD OR TRUSS HEAD CORROSION RESISTANT STEEL TAPPING SCREWS MEETING ASME/ANSI B18.6.4 OF SUFFICIENT LENGTH TO ACHIEVE FULL DEPTH OF EMBEDMENT INTO MINIMUM 15/32" THICK PLYWOOD OR 7/16" OSB ROOF SHEATHING. EDGE DISTANCE FROM CENTERLINE OF SCREW TO EDGE OF PLYWOOD/OSB SHALL BE AT LEAST 1-1/4".
- 5. ALL ROOFING MATERIALS SHALL COMPLY WITH CHAPTER 15 OF THE FLORIDA BUILDING CODE AND CHAPTER 9 OF THE FLORIDA RESIDENTIAL CODE.
- 6. INSTALLATION CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON THE FOLLOWING PROPERTIES:
- 6.1. 15/32" THICK PLYWOOD SPECIES GROUP 1 OR 2 (APA VOLUNTARY PRODUCTS STANDARD PS-1) MINIMUM.
- 6.2. 7/16" OSB SHEATHING GRADE (APA VOLUNTARY PRODUCTS STANDARD PS 2) MINIMUM.

		TABLE OF CONTENTS
SHEET	REV.	SHEET DESCRIPTION
1		GENERAL AND INSTALLATION NOTES
2		HIGH PROFILE ANCHORING DETAILS
3		LOW PROFILE ANCHORING DETAILS
4		BILL OF MATERIALS AND INSTALLATION

PERFORMANCE

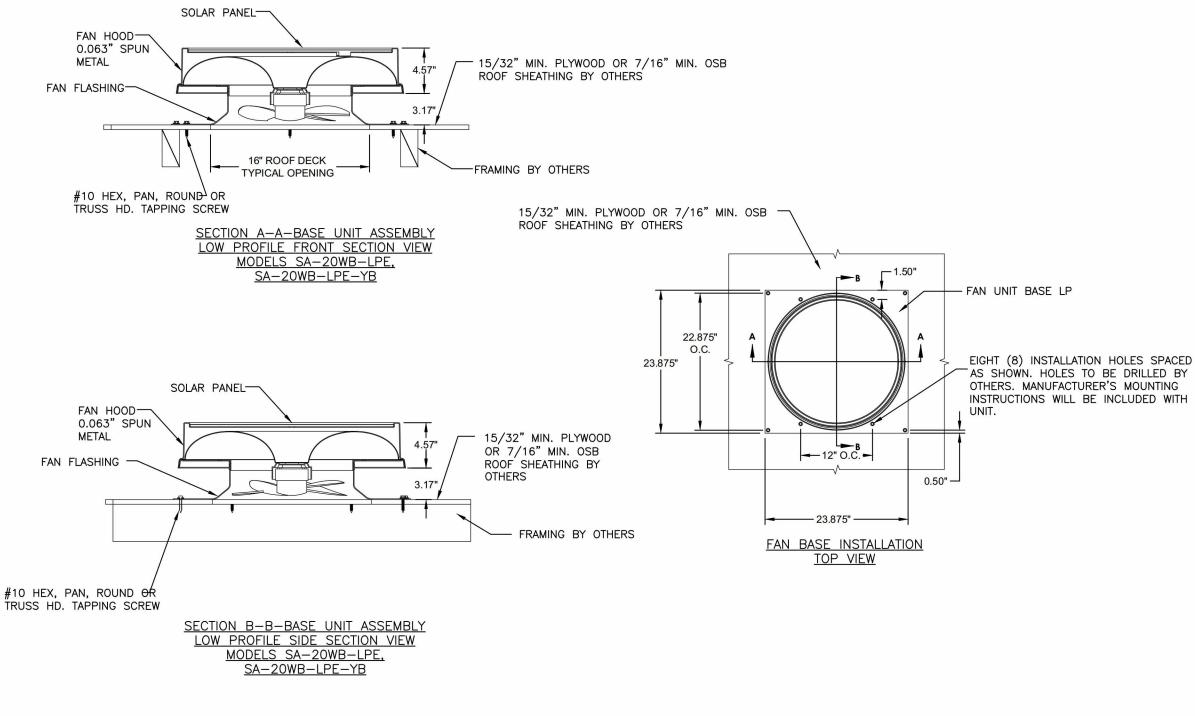
DESIGN PRESSURE RATING (PSF)						
DESIGN PRESSURE (PSF)	IMPACT					
+/- 90.0	NONE					

VENT 08 FER <u>
RRO, NM.</u> <u>
RE-SOLAR</u> <sup>
NNTALL</sub> <sup>
→</sup></sup> ENERGY SOLARO I 1404 ENTE AND SOLARO MODEL **ROBERT J. AMORUSO** FL. P.E. NO. 49752 Digitally signed by Robert J Amoruso, P.E. STATE OF Date: 2015.09.29 19:46:13 -04'00' 12472 LAKE UNDERHILL RD NO. 148 ORLANDO, FL 32828 robert.amoruso@ comcast.net

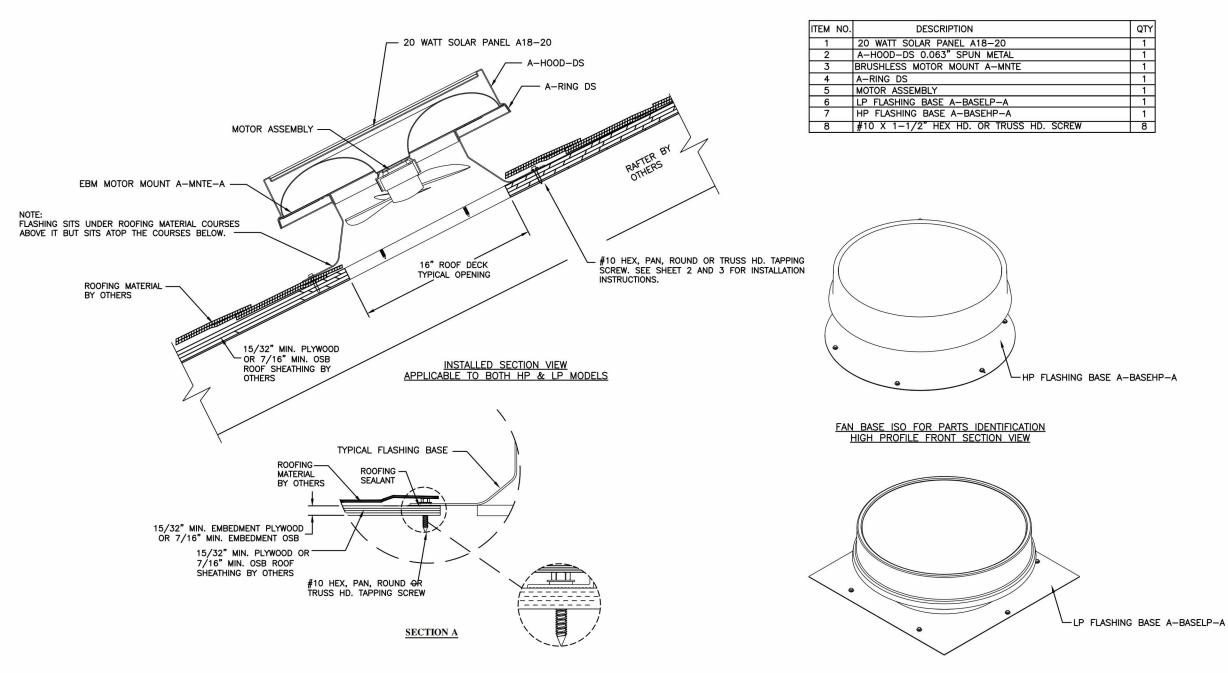


		_						×	
	_							BΥ	
								DATE	
								DESCRIPTION	
	_	_					_	REV	
		ROOF VENT	TAILS	DATE: 08/31/15	61/10/00	DRAWING NO:	NL_0054	SHEET: 2 OF 4	
SOLARO ENERGY, INC. 1404 ENTERPRISE ROAD	SOCORRO, NM. 87801	SOLAR ATTIC F	NCHORING DET	DRAWN BY: IM	NIC	SCALE:	N.T.S.	REV: -	
SOLARO E 1404 ENTE	SOCORR	MODEL SOLARO AIRE-SOLAR ATTIC ROOF VENT	HIGH PROFILE ANCHORING DETAILS	PREPARED BY:					
┍──└─		TITLE:							
ROBERT J. AMORUSO FL. P.E. NO. 49752 Digitally signed by Robert J Amoruso, P.E. Date: 2015.09.29 19:46:36 -04'00' 12472 LAKE UNDERHILL RD NO. 148 ORLANDO, FL 32828 robert.amoruso@ comcast.net									

EIGHT (8) EQUALLY SPACED INSTALLATION DRILLED BY OTHERS. MANUFACTURER'S



	_		_					_	
								ВΥ	
								DATE	
								DESCRIPTION	
								REV	
			JOF VENT	AILS	DATE: 08/31/15	DRAWING NO:	NL_0054	SHEET: 3 OF 4	
	SOLARO ENERGY, INC. 1404 ENTERPRISE ROAD	SOCORRO, NM. 87801	SOLAR ATTIC RC	<b>ICHORING DET</b>	DRAWN BY: IM	SCALE:	N.T.S.	REV: -	
	SOLARO I 1404 ENTE	SOCORR	MODEL SOLARO AIRE-SOLAR ATTIC ROOF VENT	LOW PROFILE ANCHORING DETAILS	PREPARED BY:				
	REDT	- 1		10		\$0			
ROBERT J. AMORUSO FL. P.E. NO. 49752 Digitally signed by Robert J Amoruso, P.E. Date: 2015.09.29 19:46:50 -04'00' 12472 LAKE UNDERHILL RD NO. 148 ORLANDO, FL 32828 robert.amoruso@ comcast.net									



FAN BASE ISO FOR PARTS IDENTIFICATION LOW PROFILE FRONT SECTION VIEW

								ВҮ	
								DATE	
								DESCRIPTION	
								REV	
			OOF VENT	ATION	DATE: 08/31/15	DRAWING NO:	NL_0054	SHEET: 4 OF 4	
	SOLARO ENERGY, INC. 1404 ENTERPRISE ROAD	SOCORRO, NM. 87801	O, NM. 87801	SOLAR ATTIC R	S AND INSTALL	DRAWN BY: IM	SCALE:	N.T.S.	REV: -
	SOLARO I 1404 ENTE		MODEL SOLARO AIRE-SOLAR ATTIC ROOF VENT	BILL OF MATERIALS AND INSTALLATION	PREPARED BY:				
ROBERT J. AMORUSO FL. P.E. NO. 49752 Mo. 49752 STATE OF ORAL STATE OF ORAL STATE OF ORAL STATE OF ORAL STATE STATE OF ORAL STATE OF ORAL STATE OF ORAL STATE OF ORAL STATE OF ORAL STATE OF ORAL STATE OF ORAL STATE OF OF ORAL STATE OF OF OF OF OF OF OF OF OF OF OF OF OF									