

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 INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AT THE DESIGN PRESSURE(S) STATED HEREIN. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON THE FOLLOWING.
 - 1.1. TAS 202-94 (ASTM E330-02)
 - 1.1.1. SIGNED AND SEALED TEST REPORT NCTL-210-4045-01, DATED 10/24/16 BY NATIONAL CERTIFIED TESTING LABORATORIES AND ASSOCIATED LABORATORY STAMPED DRAWINGS.
 - 1.2. TAS 100(A)-95
 - 1.2.1. SIGNED AND SEALED TEST REPORT TST-1657 (LAB NO. 9178, PROJECT NO. 16-6675) , DATED 10/27/16 BY FENESTRATION TESTING LABORATORY 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-210-4045-01 TESTING TO TAS 202-94 (ASTM E330-02) DIVIDED BY A FACTOR OF SAFETY OF 2 IN ACCORDANCE WITH SECTION 1504.9 OF THE FLORIDA BUILDING CODE.
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.
9. THE ROOF VENT MAY BE INSTALLED ON ROOF DECKS WITH MINIMUM SLOPE OF 3:12 AND ANY SLOPE UP TO 10:12.

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 15/32" 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 (SEE NOTE 7):
 - 6.1. 15/32" THICK PLYWOOD - SPECIES GROUP 1 OR 2 (APA VOLUNTARY PRODUCTS STANDARD PS-1) MINIMUM.
 - 6.2. 15/32" OSB - SHEATHING GRADE (APA VOLUNTARY PRODUCTS STANDARD PS 2) MINIMUM.
7. PLYWOOD THICKNESS & SPECIES AND OSB THICKNESS & SPECIES MUST MEET THE MINIMUM REQUIREMENTS OF THE FLORIDA BUILDING CODE.
8. ADDITIONAL INSTALLATION LIMITATIONS
 - 8.1. PRODUCT SHALL NOT BE INSTALLED AT AN ELEVATION EXCEEDING 75 FEET.
 - 8.2. PRODUCT SHALL NOT BE INSTALLED ON ROOF SHEATHING LESS THAN 15/32" IN THICKNESS.
 - 8.3. PRODUCT SHALL BE INSTALLED ON ROOFS UTILIZING ASPHALT SHINGLES ONLY

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

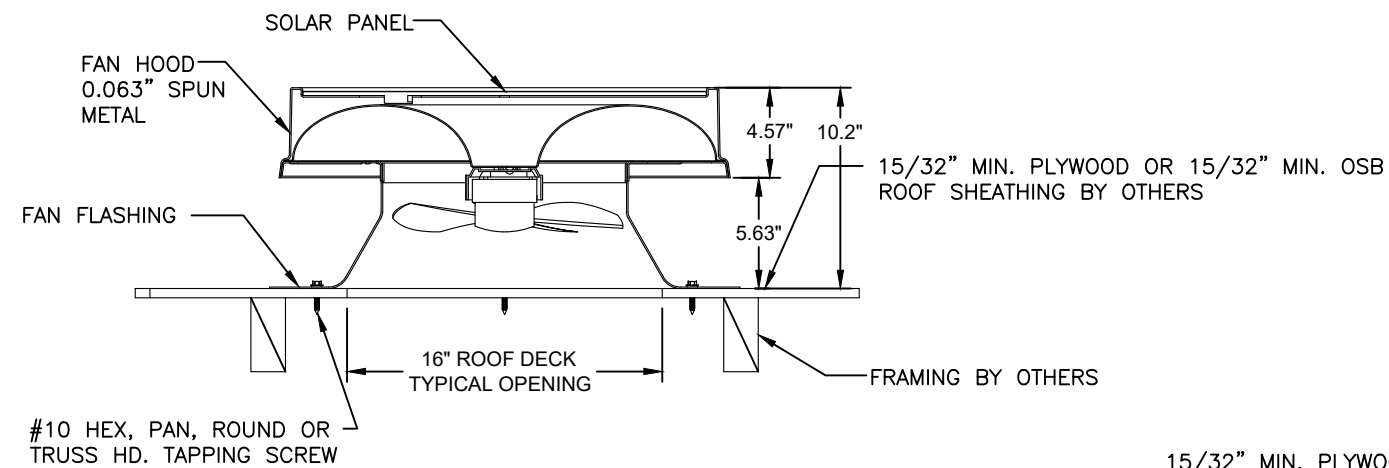
PERFORMANCE	
DESIGN PRESSURE RATING (PSF)	
DESIGN PRESSURE (PSF)	IMPACT
+/- 90.0	NONE

REV	DESCRIPTION	DATE	BY

SOLARO ENERGY, INC. 1404 ENTERPRISE ROAD SOCORRO, NM. 87801	TITLE: MODEL SOLARO AIRE-SOLAR ATTIC ROOF VENT GENERAL AND INSTALLATION NOTES	DRAWN BY: JM SCALE: N.T.S. REV: -	DATE: 10/19/16 DRAWING NO: NL_0075 SHEET: 1 OF 4
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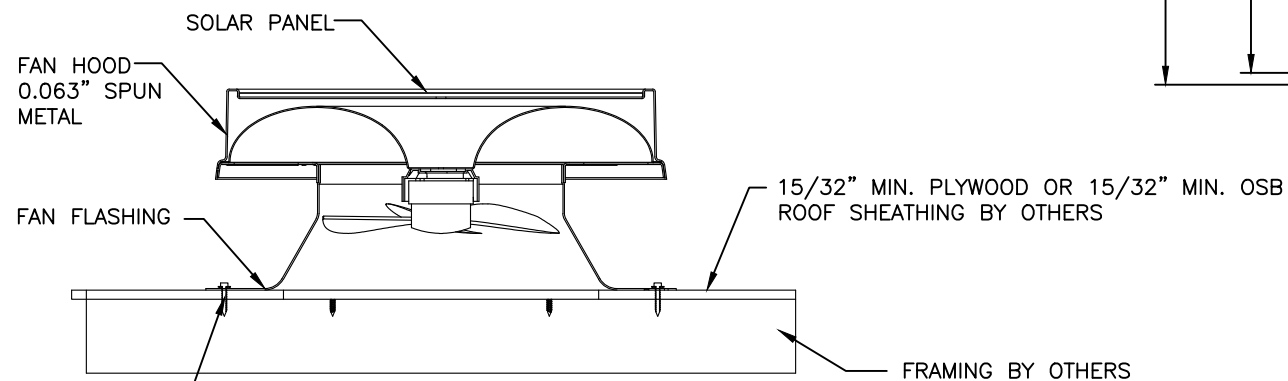
ROBERT J. AMORUSO
FL. P.E. NO. 49752

12472 LAKE
UNDERHILL RD
NO. 148
ORLANDO, FL 32828
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comcast.net



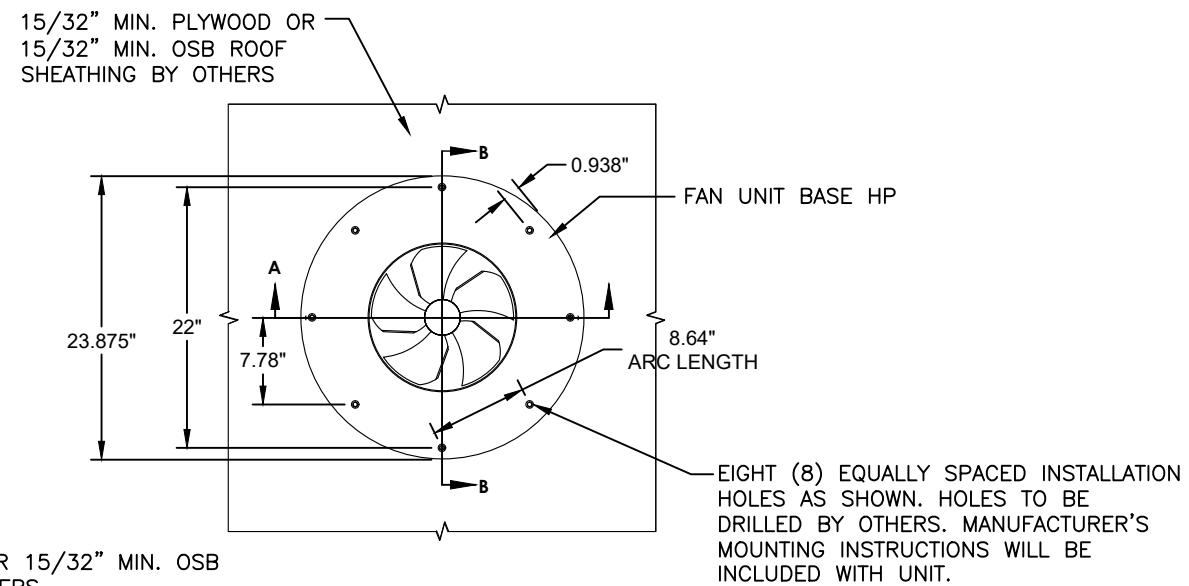
SECTION A-A-BASE UNIT ASSEMBLY
HIGH PROFILE FRONT SECTION VIEW
MODELS SA-20WB-HPE,
SA-20WB-HPE-YE

#10 HEX, PAN, ROUND OR
TRUSS HD. TAPPING SCREW



SECTION B-B-BASE UNIT ASSEMBLY
HIGH PROFILE SIDE SECTION VIEW
MODELS SA-20WB-HPE,
SA-20WB-HPE-YB

#10 HEX, PAN, ROUND OR
TRUSS HD. TAPPING SCREW

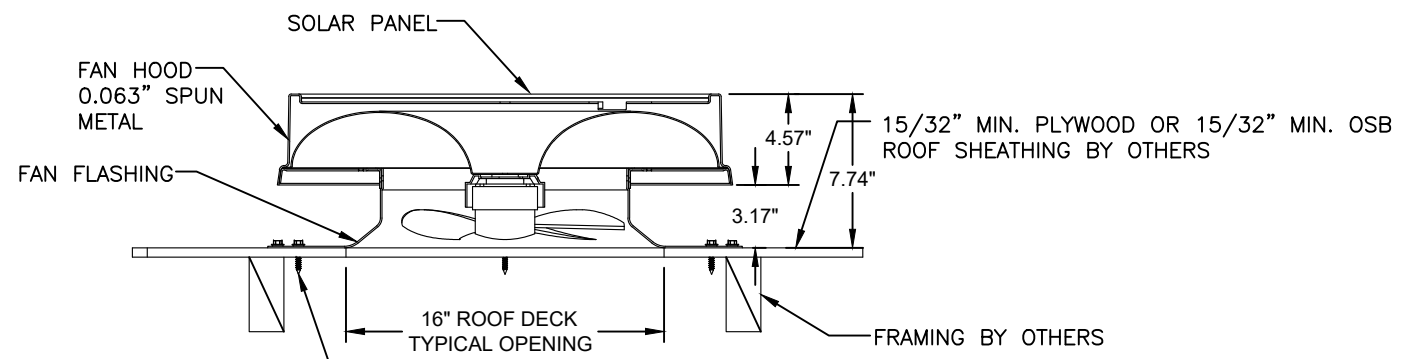


FAN BASE INSTALLATION
TOP VIEW

SOLARO ENERGY, INC. 1404 ENTERPRISE ROAD SOCORRO, NM. 87801		DATE: 10/19/16	BY:
TITLE: MODEL SOLARO AIRE-SOLAR ATTIC ROOF VENT HIGH PROFILE ANCHORING DETAILS		DRAWING NO: NL_0075	DESCRIPTION
PREPARED BY:	DRAWN BY: JM	SHEET: 2 OF 4	DATE
	SCALE: N.T.S.		REV
	REV:		

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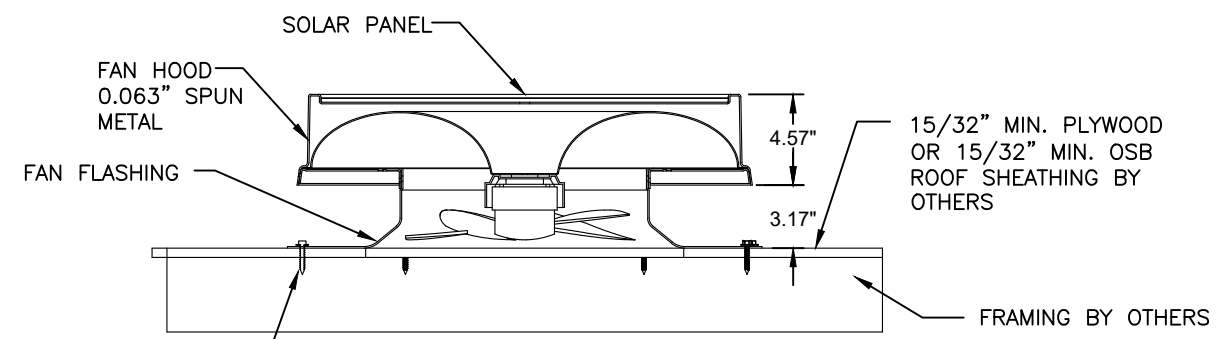
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comcast.net



#10 HEX, PAN, ROUND OR TRUSS HD. TAPPING SCREW

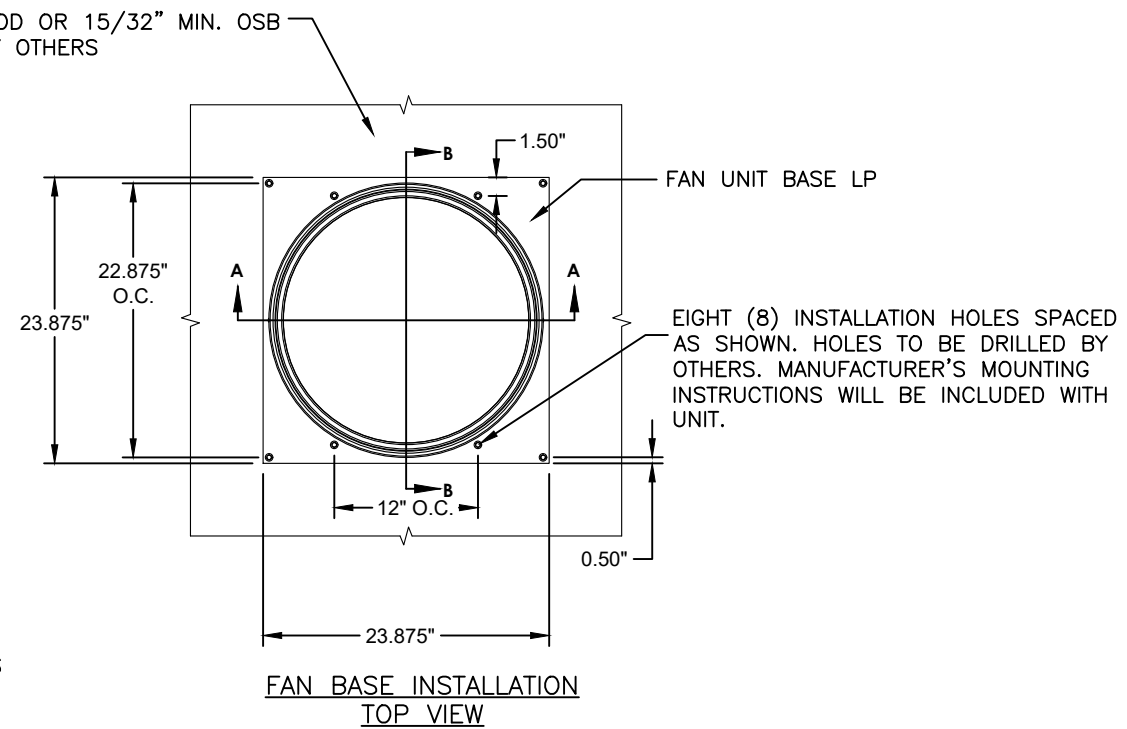
SECTION A-A-BASE UNIT ASSEMBLY
LOW PROFILE FRONT SECTION VIEW
MODELS SA-20WB-LPE,
SA-20WB-LPE-YB

15/32" MIN. PLYWOOD OR 15/32" MIN. OSB ROOF SHEATHING BY OTHERS



#10 HEX, PAN, ROUND OR TRUSS HD. TAPPING SCREW

SECTION B-B-BASE UNIT ASSEMBLY
LOW PROFILE SIDE SECTION VIEW
MODELS SA-20WB-LPE,
SA-20WB-LPE-YB



FAN UNIT BASE LP

EIGHT (8) INSTALLATION HOLES SPACED AS SHOWN. HOLES TO BE DRILLED BY OTHERS. MANUFACTURER'S MOUNTING INSTRUCTIONS WILL BE INCLUDED WITH UNIT.

FAN BASE INSTALLATION
TOP VIEW

SOLARO ENERGY, INC.
1404 ENTERPRISE ROAD
SOCORRO, NM. 87801

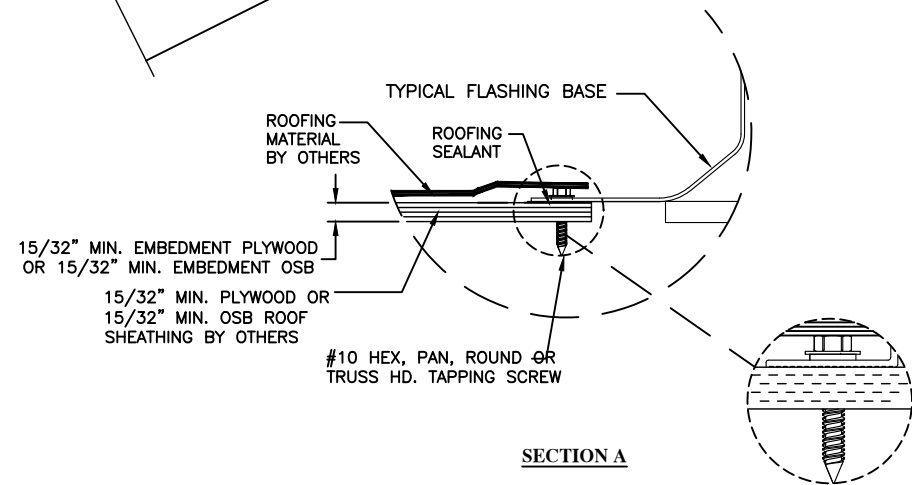
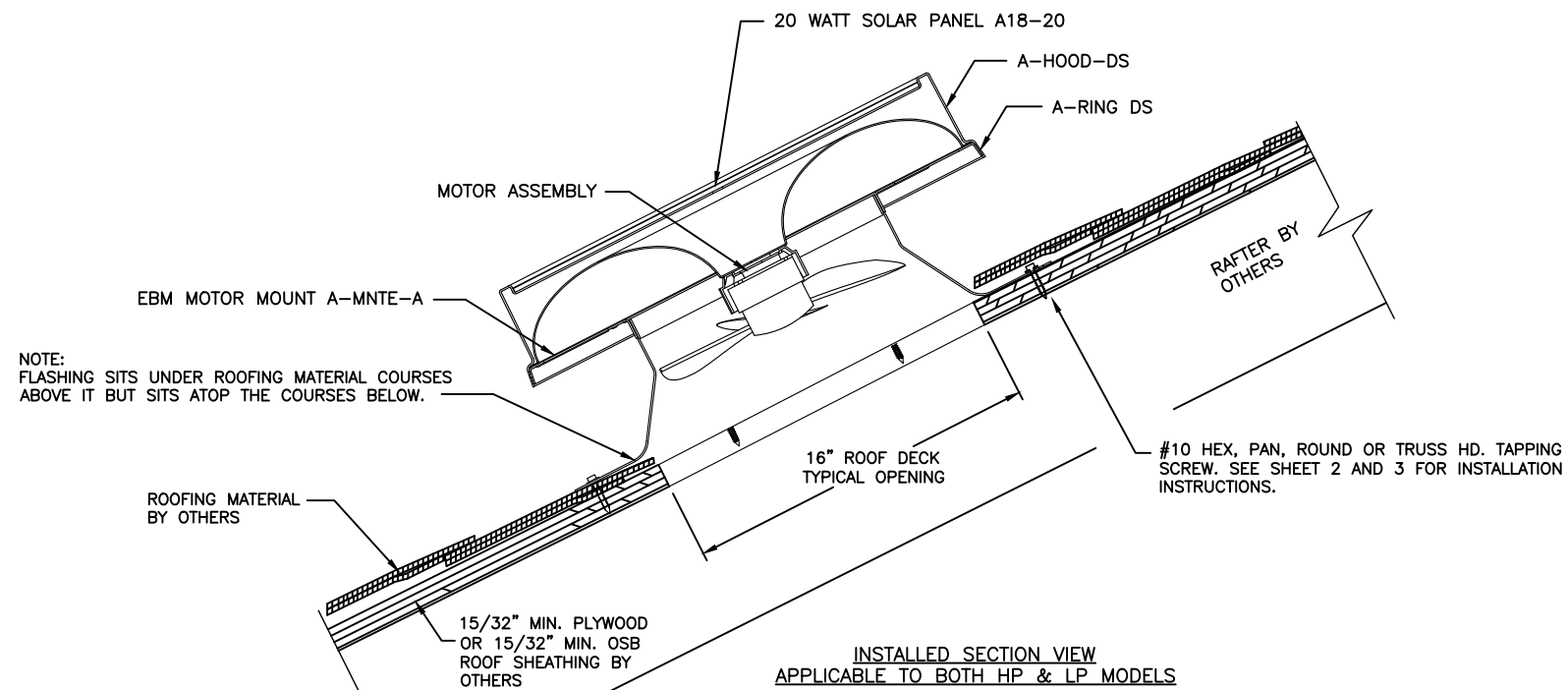
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LOW PROFILE ANCHORING DETAILS

DATE: 10/19/16
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SHEET: 3 OF 4
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SCALE: N.T.S.
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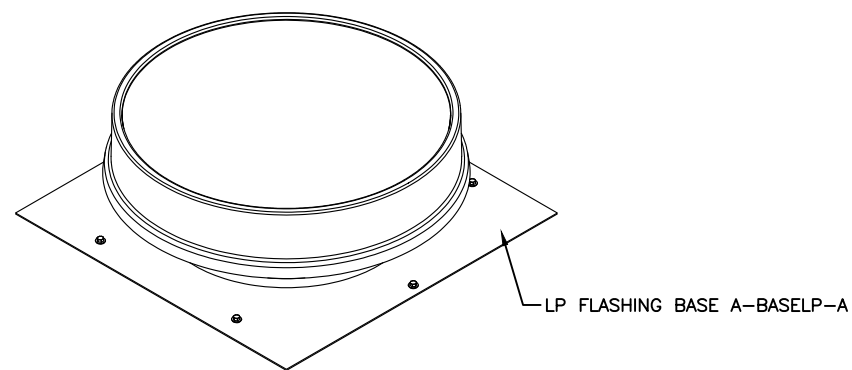
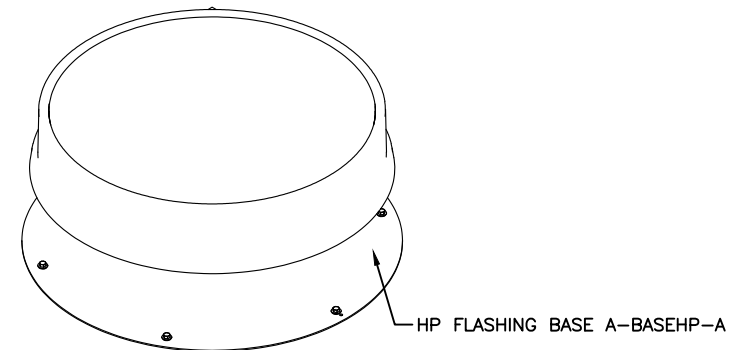
REV	DESCRIPTION	DATE	BY

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ITEM NO.	DESCRIPTION	QTY
1	20 WATT SOLAR PANEL A18-20	1
2	A-HOOD-DS 0.063" SPUN METAL	1
3	BRUSHLESS MOTOR MOUNT A-MNTE	1
4	A-RING DS	1
5	MOTOR ASSEMBLY	1
6	LP FLASHING BASE A-BASELP-A	1
7	HP FLASHING BASE A-BASEHP-A	1
8	#10 X 1-1/2" HEX HD. OR TRUSS HD. SCREW	8



REV	DESCRIPTION	DATE	BY

SOLARO ENERGY, INC.
1404 ENTERPRISE ROAD
SOCORRO, NM. 87801

TITLE: MODEL SOLARO AIRE-SOLAR ATTIC ROOF VENT
BILL OF MATERIALS AND INSTALLATION

PREPARED BY: J.M.S.

DRAWN BY: JM

DATE: 10/19/16

SCALE: N.T.S.

DRAWING NO: NL_0075

REV: -

SHEET: 4 OF 4

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