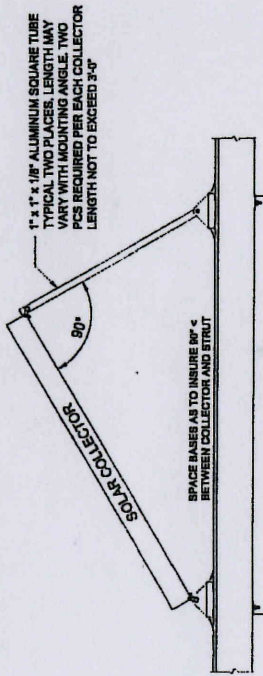
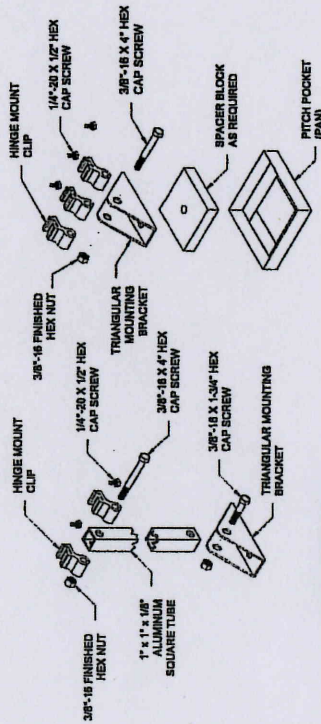


INSTALLATION DETAILS - FLAT WOOD FRAME ROOF



TYPICAL INSTALLATION DETAIL (FLAT WOOD FRAME ROOF)

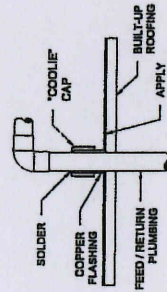


CONNECTION DETAIL

MANUFACTURER'S HARDWARE FOR TILTED MOUNT ON FLAT ROOFS. USE PITCH PAN (SEE DETAIL BELOW)

CONNECTION DETAIL

FOR MOUNT ON FLAT ROOFS (SEE DETAIL BELOW)



ROOF FLASHING DETAIL

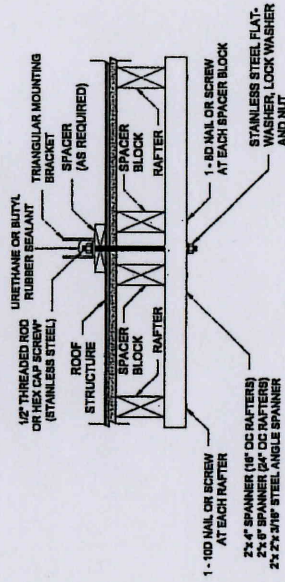
APPLY ROOFING SEALANT TO THE UNDERSIDE OF THE FLASHING BASE PRIOR TO INSTALLATION

NOTES

- 1) THE SOLAR COLLECTOR INSTALLATION AS DETAILED IN THESE DRAWINGS IS FOR THE INSTALLATION OF ALTERNATE ENERGY TECHNOLOGIES AE-SERIES SOLAR COLLECTORS ON STRUCTURES SUBJECTED TO A MAXIMUM UPLIFT PRESSURE OF 51 POUNDS PER SQUARE FOOT (PSF).
- 2) THE DESIGN OF THIS INSTALLATION IS BASED ON REQUIREMENTS OF THE: 2007 FLORIDA BUILDING CODE, ASCE 7 AND TESTING OF THE SOLAR COLLECTOR IN ACCORDANCE WITH PA 202 (FAS 202-94), ASTM E 330
- 3) THE INSTALLATION SHALL UTILIZE HARDWARE PROVIDED BY THE MANUFACTURER AS DETAILED IN THESE DRAWING.
- 4) ALL ALUMINUM STRUCTURAL MEMBERS TO BE 6061-T6. ALL STRUCTURAL STEEL MEMBERS TO BE LOW CARBON GALVANIZED STEEL, AND ALL HARDWARE (BOLTS, NUTS, ETC) TO BE STAINLESS STEEL.

DESIGN WIND PRESSURE

MAXIMUM SUCTION UPLIFT: 51 PSF



1. ALL MOUNTING HARDWARE (SCREWS, NUTS AND BOLTS) SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE.
 2. SPACER BLOCKS SHALL BE INSTALLED WITHIN 1" OF THE THRU-BOLT.
 3. WHEN THRU-BOLT IS WITHIN 2" OF A RAFTER, ONLY ONE SPACER BLOCK WILL BE REQUIRED ON THE OPPOSITE SIDE OF THE BOLT, AWAY FROM THE RAFTER.
 4. TWO SPACER BLOCKS ARE REQUIRED WHEN THE BOLT IS MORE THAN 2" FROM THE RAFTER.
 5. WHEN THE MOUNTING PROVISIONS OF ADJACENT COLLECTORS ARE INSTALLED SIDE BY SIDE AND THE THRU-BOLTS ARE 1 1/2" OR MORE APART, IT WILL BE NECESSARY TO HAVE AT LEAST ONE SPACER BLOCK (OR RAFTER) BETWEEN BOLTS.
 6. SEALANTS ARE REQUIRED BETWEEN MOUNTING BLOCK AND SHINGLES/SEALING. BOLT HOLES SHALL BE SEALED TO PREVENT MOISTURE PENETRATION.
 7. STEEL ANGLE SPANNER (2" x 2" x 3/16") MAY BE SUBSTITUTED FOR WOOD SPANNER.
- * HEX CAP SCREW LENGTH VARIES WITH ROOF CONSTRUCTION AND SPANNER DESIG.

General Notes

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3/1/09

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No.	Revision/Issue	Date

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Project Name and Number

Sheet	Date	Scale	Project
AE - 1	02 / 06 / 2008	N.T.S.	

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