

CITY OF SACRAMENTO

Permit No: 9808376

1231 I Street, Sacramento, CA 95814

Insp Area: 2

Site Address: 30 STARLIT CR SAC

Sub-Type: RES

Parcel No: 0300054011

Housing (Y/N): N

CONTRACTOR

SIERRA PACIFIC HOME & COMFORT
3790 OMBEL CR
RANCHO CORDOVA, CA 95742

OWNER

MILLER RICHARD A CLARE P GA
30 STARLIT CR
SACRAMENTO CA 95831

ARCHITECT

Nature of Work: INSTALLATION OF SOLAR PANELS & CONTROLLER

CONSTRUCTION LENDING AGENCY: I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name _____ Lender's Address _____

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class CS94620 License Number 453302 Date 8/27/98 Contractor Signature

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00).

I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code). The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code). The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.

I am exempt under Sec. _____ B & PC for this reason: _____

Date _____ Owner Signature _____

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the above mentioned property for inspection purposes.

Date 8/27/98 Applicant Agent Signature

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:

I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier Golden Eagle Policy Number NWCS4331603

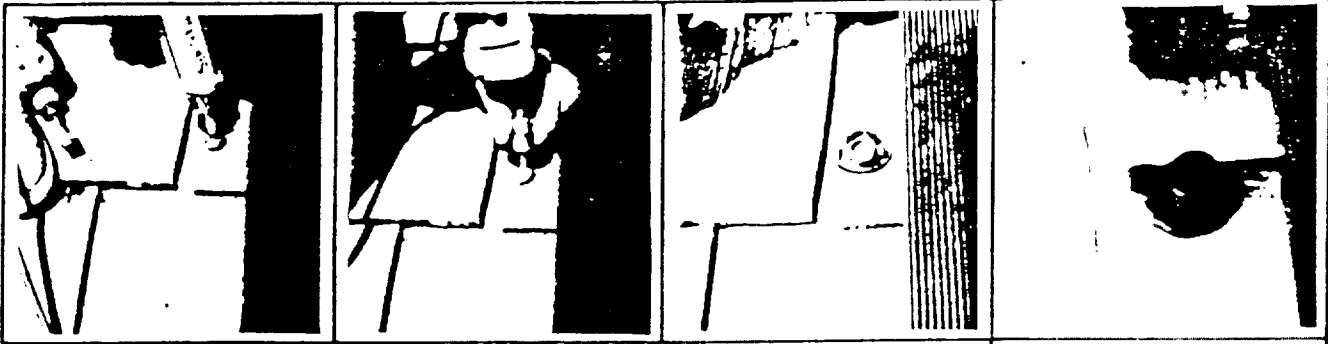
(This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall fully comply with those provisions.

Date 8/27/98 Applicant Signature

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

BRACKET INSTALLATION



1. Locate bracket base on roofing above subroof or sheathing. (Do not attempt to attach brackets to roof material only)
2. Mark and drill a pilot hole.
3. Inject the FAFCO recommended sealant into the pilot hole, being certain to leave enough on top of the hole so that a small amount will ooze out around the bracket when it is secured.
4. Put the lag screw into the bracket base and secure the bracket base to the roof.
5. Lay the panel strap through the bracket base. Panel straps can be put through single or doubled over.
6. Screw on a bracket cap and hand tighten. A 1/2" ratchet may be used to tighten the cap if desired.



SUBSTRATE

Substrate is a sheet of 2 1/2" corrugated 4 oz. fiberglass that is used as a protective measure and goes between the solar panel and mounting surface. It will provide the necessary support for the panels and protect the roof. Substrate is required on all roof types and shake or wooden shingle, tar and gravel, tile or cement shingle. Simply lay it under the panel.

BUILT UP ROOFING

A tar and gravel or tile roof requires special care. For further instructions contact your local distributor.

SEALING SEQUENCE

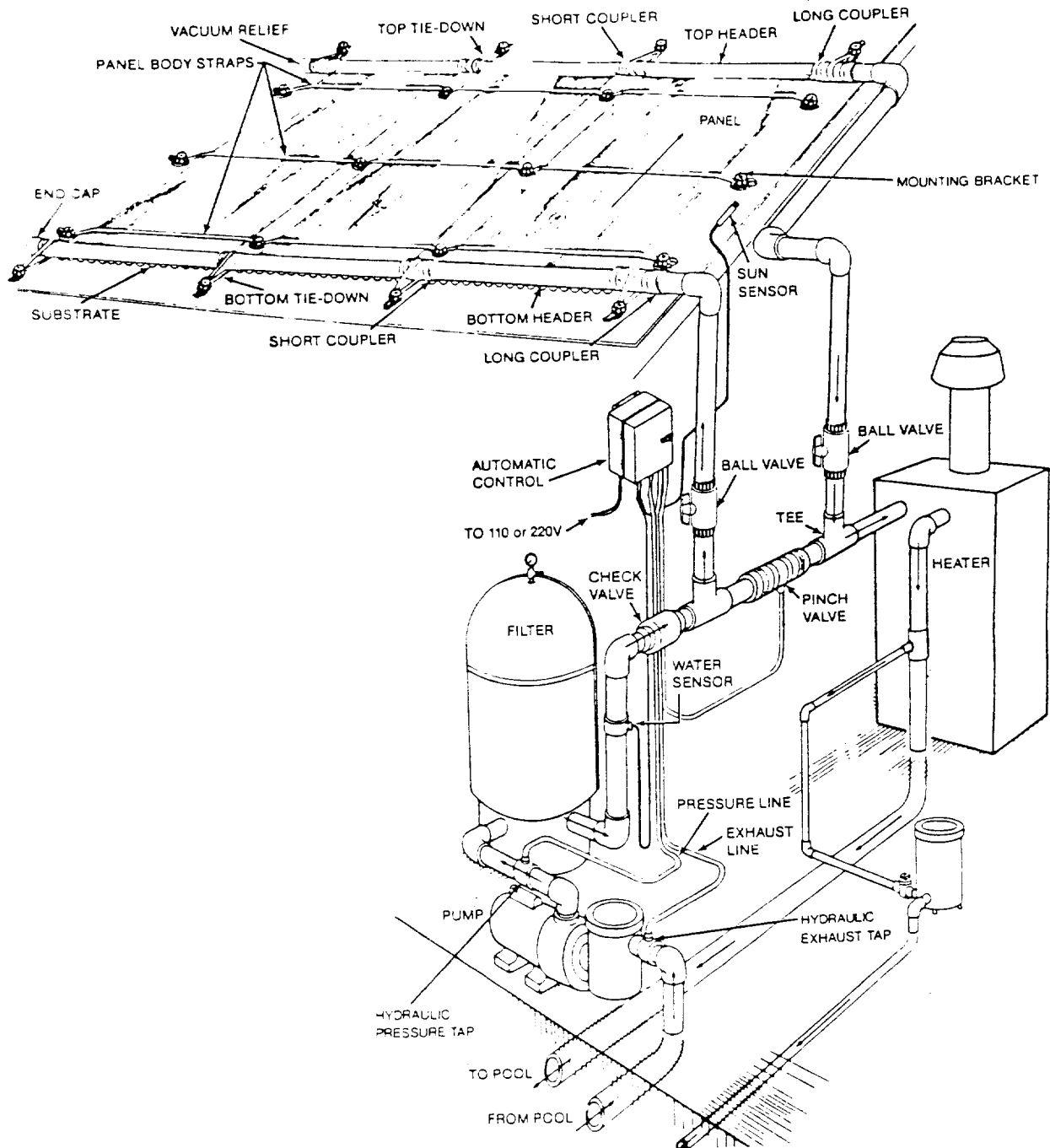
SPECIAL CARE AND ATTENTION SHOULD BE EXERCISED IN SEALING THE LAG SCREWS WHERE THEY PENETRATE THE PRIMARY ROOF. FOLLOW THE DIRECTIONS CAREFULLY.

TOP AND BOTTOM HEADER TIE-DOWN



Both the top and bottom ties are secured the same way. Use the webbed strap for the top ties and the stretchy vinyl strap for the bottom ties.

1. Pass the strap around the rubber coupler.
2. Mark a spot 4" to 7" from the header pipe of the panel.
3. Secure a mounting bracket at the spot you marked per the instructions above.
4. Lay both ends of the strap through the mounting bracket base and screw on a cap.

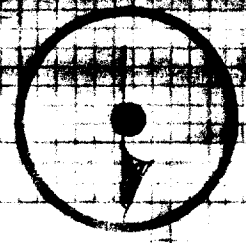


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MILLER

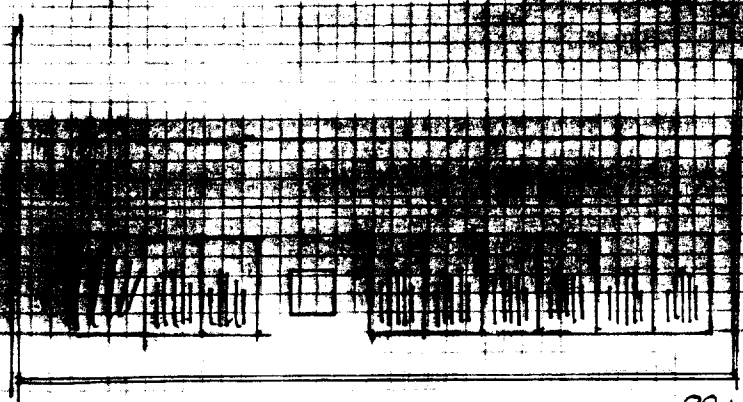
30 STARLITE
SAC 9583



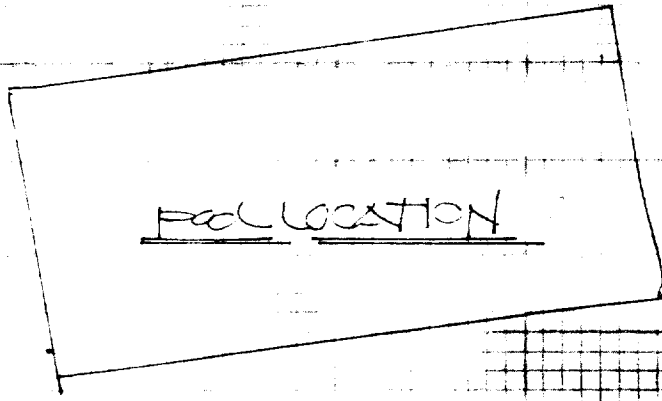
INDICATE SOUTH

PROGRAM INSTRUCTIONS

Indicate location of house as situated on property in relation to pool and pool equipment pad. Indicate roof measurements and placement of solar collector panels.



00 REERS



10 lines per inch

3790 OMEGA CIRCLE
FANCHO CORDOVA, CA 95742



Will call back
(916) 638-0543
(209) 948-1919 STOCKTON

PROPOSAL SUBMITTED TO:		PHONE	DATE
NAME	<i>Richard Miller</i>	<i>422-3040</i>	<i>5/22/98</i>
STREET	<i>30 Starlit Cir.</i>	JOB NAME	
CITY	<i>SACRAMENTO</i>	STREET	
STATE	<i>CA 95831</i>	CITY	<i>SAME</i>
			STATE

We hereby submit specifications and estimate for: *installing NEW 110' Revolution Panels on Shale Roof. Price includes NEW SOLAR CONTROL, SENSORS, ISOLATION VALVES, DRAINAGE ISOLATION VALVES, TIME DELAY KIT FOR BOOSTER PUMP. ALL PLUMBING, LAGS, SEALS, HARDWARE, ETC.*

*Price reflects \$50⁰⁰/sq panel discount (4450⁰⁰)
ALL DISCOUNTS TAKEN*

SOCIAL SECURITY - 316-36

PUMP will be additional if needed

We hereby propose to furnish labor and materials — complete in accordance with the above specifications, for the sum of

Three Five Hundred Seventy Seven ^{29/100} ~~dollars~~ (\$ *3577.70*) with payment to be made as follows:

Payment due upon completion.

Contracting Business
All materials guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs, will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon accidents or delays beyond our control. This proposal subject

to acceptance within *70* days and is void thereafter at the option of the undersigned

Authorized Signature *[Signature]*

ACCEPTANCE OF PROPOSAL

The above prices, specifications and conditions are hereby accepted. You are authorized to do the work as specified. Payment will be made according to the terms of the proposal.

ACCEPTED: _____ Signature _____
DATE: _____ Signature _____

ACCORD. CERTIFICATE OF INSURANCE

CSR AC
SIERRA-4
DATE (MM/DD/YY)
01/04/98

PRODUCER
Dwight Halverson Ins. Services
00 Douglas Blvd Ste 295
Seville CA 95661

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
JOHN JACKSON
Phone No 916-773-0206 Fax No
Sierra Pacific Home & Comfort, Inc.
Sierra Windows A Joint Venture
3790 Omec Circle
Rancho Cordova, CA 95742

COMPANIES AFFORDING COVERAGE	
COMPANY A	GOLDEN EAGLE INSURANCE CORP.
COMPANY B	
COMPANY C	
COMPANY D	

COVERAGES
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR <input type="checkbox"/> OWNER'S & CONTRACTOR'S PROT				GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ PERSONAL & ADV INJURY \$ EACH OCCURRENCE \$ FIRE DAMAGE (Any one fire) \$ MED EXP (Any one person) \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS				COMBINED SINGLE LIMIT \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN AUTO ONLY EACH ACCIDENT \$ AGGREGATE \$
	EXCESS LIABILITY <input type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURRENCE \$ AGGREGATE \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY THE PROPRIETOR, PARTNERS, EXECUTIVE OFFICERS ARE <input type="checkbox"/> INCL <input checked="" type="checkbox"/> EXCL OTHER	NWC- 543316-03	01/01/98	01/01/99	<input checked="" type="checkbox"/> STATUTORY LIMITS EACH ACCIDENT \$1,000,000 DISEASE - POLICY LIMIT \$1,000,000 DISEASE - EACH EMPLOYEE \$1,000,000

DESCRIPTION OF OPERATIONS/LOCATION(S)/VEHICLES/SPECIAL ITEMS
Evidence of Coverage. License # 453302

CERTIFICATE HOLDER
SANJOAQ

CANCELLATION
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT. SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE
JOHN JACKSON *Jackson* (2)
ACCORD CORPORATION 199

SIERRA PACIFIC
HOME & COMFORT
 "The Guys in the Big Red Trucks"

Divisions

- Heating and Air Conditioning
- Thermal Dual Pane Windows
- Solar Pool Heating
- Kitchen and Bath Remodel

3790 OMEC CIRCLE
 RANCHO CORDOVA, CA 95742
 (916) 638-0543 • FAX (916) 635-9568

June 2, 1998

Power of attorney is herewith authorized for the persons named herein for the purpose of securing building permits on behalf of Sierra Pacific Home & Comfort, Inc.

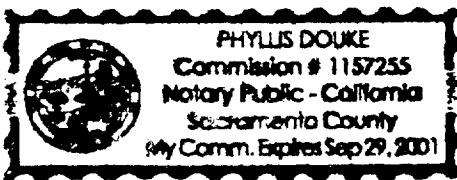
Vern Morrison <i>Vern Morrison</i>	David Hagel <i>D. Hagel</i>	Mike Loer <i>Mike Loer</i>
Mike Smallwood <i>Michael Smallwood</i>	Dan Mc Nay <i>Dan Mc Nay</i>	Dick Percy <i>Dick Percy</i>
Mike Gaffney <i>Mike Gaffney</i>	Jeff Rankin <i>Jeff Rankin</i>	Andrew Blunk <i>Andrew Blunk</i>
Darren Bewely <i>Darren Bewely</i>	Orville Chatterton <i>Orville Chatterton</i>	Mark Miller <i>Mark Miller</i>
Everett Scarnery <i>Everett Scarnery</i>	James McKeever <i>James McKeever</i>	Richard Reynolds <i>Richard Reynolds</i>
Russ Karr <i>Russ Karr</i>	Chris Riniker <i>Chris Riniker</i>	Mike Patterson <i>Mike Patterson</i>
Erik Stilling <i>Erik Stilling</i>	Tony Bassler <i>Tony Bassler</i>	

This letter has been duly notarized.

Authorized signature
Michael G. Loer
 Michael G Loer
 Vice President of Operations

State of California County of Sacramento

On June 2, 1998, Before me the undersigned, a Notary Public in and for said state, personally appeared Michael G. Loer, personally known to me or proved to me on the basis of satisfactory evidence to be the Persons whose name is subscribed to the within instrument and acknowledge that he executed the same. Witness my hand and official seal.



Signature *Phyllis Douke*



Divisions

- Heating and Air Conditioning
- Thermal Dual Pane Windows
- Solar Pool Heating
- Kitchen and Bath Remodel

3790 OMEC CIRCLE
RANCHO CORDOVA, CA 95742
(916) 638-0543 • FAX (916) 635-9568

June 11, 1998

Power of attorney is herewith authorized for the persons named herein for the purpose of securing building permits on behalf of Sierra Pacific Home & Comfort, Inc.

Leah Curl

This letter has been duly notarized.

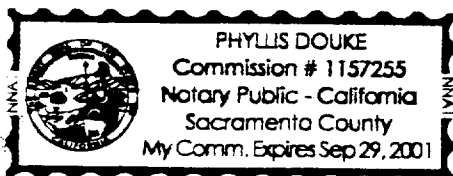
Authorized signature

Michael G Loer
Vice President of Operations


State of California County of Sacramento

On June 11, 1998, Before me the undersigned, a Notary Public in and for said state, personally appeared Michael G. Loer, personally known to me or proved to me on the basis of satisfactory evidence to be the Persons whose name is subscribed to the within instrument and acknowledge that he executed the same. Witness my hand and official seal.

Signature



Class
53420


 State of California
CONTRACTORS STATE LICENSE BOARD
ACTIVE LICENSE

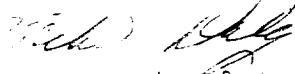
License Number: **453302**
Business Name: **SIERRA PACIFIC HOME
INC**

Classification: **C46 C53 C20 B**

Expiration Date: **03/31/2000**




This business or residence must be reported to the Registrar within 90 days of the date of acquisition.
This license is not transferable, and shall be returned to the Registrar if the license is suspended, revoked or invalidated for any reason.
This postage is guaranteed through the expiration date.
Do not place in any mail box.
Postage guaranteed by
United States License Board
P.O. Box 26000
Sacramento, CA 95826


Licensee Signature

County of Sacramento

SOLAR INSTALLATION WORKSHEET

Pool/Spa

Domestic Hot Water

Space Heating

FLOOR PLAN Show Location of Collector(s), Storage Tank(s) and Control

DESIGN DATA

Collector MFG. FAFCO Model PROFILE
 Dimensions: L 12 x W 4 x H 4
 Weight 21 lbs. Dry 73.3 lbs. Wet
 Max. Live Load 1.33 lbs/ft
 Heat Transfer (Fluid/Gas)
 Certification IAPMO S-1889
 Storage Tank MFG. N/A Size IAPMO No.
 Model
 Control MFG. COMPOOL IAPMO No. S-1889
 Model LX-22 Motor IAPMO No.
 Circulator Pump MFG.
 Model
 Max. Flow Rate 8 GPM/SCFM
 System Operating Pressure 0-15
 System Operating Temp.: Hi. 95° F/Lo 40° F

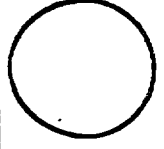
ROOF DESIGN

Type Covering
 Type Frame: Truss Conventional
 Size of Frame Members 2 x 6 @ 2 o.c.
 Clear Span 10 Ft. Roof Pitch 4:12
 Support Required: Yes No

ADDITIONAL INFORMATION

MFR. Installation Data Yes No
 MFR. System Flow Diagram Yes No
 MFR. Electrical Schematic Yes No
 MFR. Test Instruction Yes No
 System Certification(s) Yes No

Front Scale:



Indicate North

Owner: Telephone:

Address: Zip:

Location:

EH/CL 2-26-81

Contractor SIERRA SUN INDUSTRIES Co. Req. No.



To avoid unnecessary service calls...use this check list for your FAFCO System.

If There's No Power Light (300 Series Only)

1. Put Function Switch (A) on "On" Position...if still no light, check to see if circuit to auto control is powered.

If The System Does Not Appear To Be Heating The Pool

1. Is the Filter and Leaf Trap clean?
2. Is timer set 8-10 a.m. to 4-5 p.m., or for at least 8 hours operation during solar hours?
3. Have you been refilling the pool with cold water a lot lately?
4. Has weather been marginal?
5. Are the panels operating "cool" to the touch on a sunny day?
6. If night time temperatures are very low, are you using a pool blanket to retain the heat provided by the solar system during the day?

If There Are No Initial Bubbles

1. Make sure the pump is turned on and is working (if it does not go on, check fuse if it has one, and check the power to the pump).
2. (300 only) Place Function Switch (A) on Automatic Control in "On" position...it is possible that the system is not supposed to be working due to the fact that the pool temperature is already at Desired Temp, or there is not enough radiant heat available.
3. Check Isolation Valves (5) to make sure they are open.

If Tiny Champagne Bubbles Continue

...past the initial purging (3-5 minutes)...this may be an indication that the water circulation through the panels has been reduced to the point where the Vacuum Relief Valve (mounted in the end of the solar collector array) is admitting air either continuously or intermittently; therefore: check Pump and Leaf Trap for proper operation...be sure the pool filter and leaf trap is clean. It is possible that some small bubbles will always be discharged into the pool due to the particular characteristics of the system's normal operation. They do not affect the operation of the system nor impair the proper function of any other pool equipment.

Occasionally Check the Automatic Timer

...for your pool pump to see that the clock is set for the proper time. Power failures, adjustments for Daylight Saving Time, etc. will put it behind. It will be necessary to adjust the timer according to the season so that the Solar System will operate during the most beneficial hours of the day.

Pool Cleaner Timer

Special care must be taken when setting the timer for automatic pool cleaning equipment. Set your pool cleaning equipment timer to turn on after the solar system. Typically, operating hours between 12:00 and 8:00 a.m. or p.m. are acceptable. This precaution prevents air from entering and possibly damaging pool cleaning equipment during the startup of your solar system.

Your FAFCO Solar System

Thank you

Since 1969, our goal has been to design, test and produce a solar heating system that will let you get additional swimming pleasure from your pool. Keep this manual within easy reach and refer to it often.

What You can Expect From Your Solar System

As wonderful and abundant as solar energy is...it will not work miracles. And, with systems being installed in every part of the country varying widely in weather conditions...it is difficult to give performance temperatures here that would hold true in all areas. With these considerations in mind...and assuming you're having sunny weather and your system is on...you can expect it to:

1. heat the water 2°F-5°F every time it passes through the system.
2. raise your pool's temperature 5°F-15°F over a period of several days of good weather.
3. eliminate or significantly reduce the cost of operating your fossil fuel pool heater...but not totally replace it during the colder less sunny months (a nighttime pool cover will enhance #2 & 3 above).
4. give you years of trouble-free service even beyond the 10-year warranty.

System Specifications

ROOF MOUNTING SPACE:	Width— (number of panels x 51.5") + 24" Length— Panel length + 24"	
RACK SPACE:	Width— (number of panels x 51.5") + 2" Length— Panel length + 6"	
FLOW:	Recommended flow— 4 gpm per panel (0.88 psi headloss) Maximum recommended flow— 8 gpm per panel (3.53 psi headloss) Minimum recommended flow— 3 gpm per panel (0.50 psi headloss)	
PANELS PER BANK: (Maximum)	12 panels single end feed 17 panels diagonal feed	
PRESSURE:	Normal Operating Pressure 0 to 15 psi	Maximum Intermittent Pressure 35 psi
80°F (27°C)		
CORROSION:	Non-corrosive	
WEIGHT: (4' x 10')	Without water— 19 lbs. or 0.47 lbs./ft. ² Full of water— 53 lbs. or 1.33 lbs./ft. ²	

This manual is designed for residential use only. Commercial systems, or any other system in excess of 20 panels, require further engineering and design. Please contact your local FAFCO distributor.

Represented by