CITY OF SACRAMENTO 1231 I Street, Sacramento, CA 95814

Parcel No: 274-0540-041

CONTRACTOR SWAN POOLS

1810 FIELD AV

OWNER

PRICE

2751 PICKERING WAY SACRAMENTO, CA 95833

Site Address: 2751 PICKERING WY SAC

ARCHITECT

Housing (Y/N):

Permit No:

Insp Area:

0106675

4

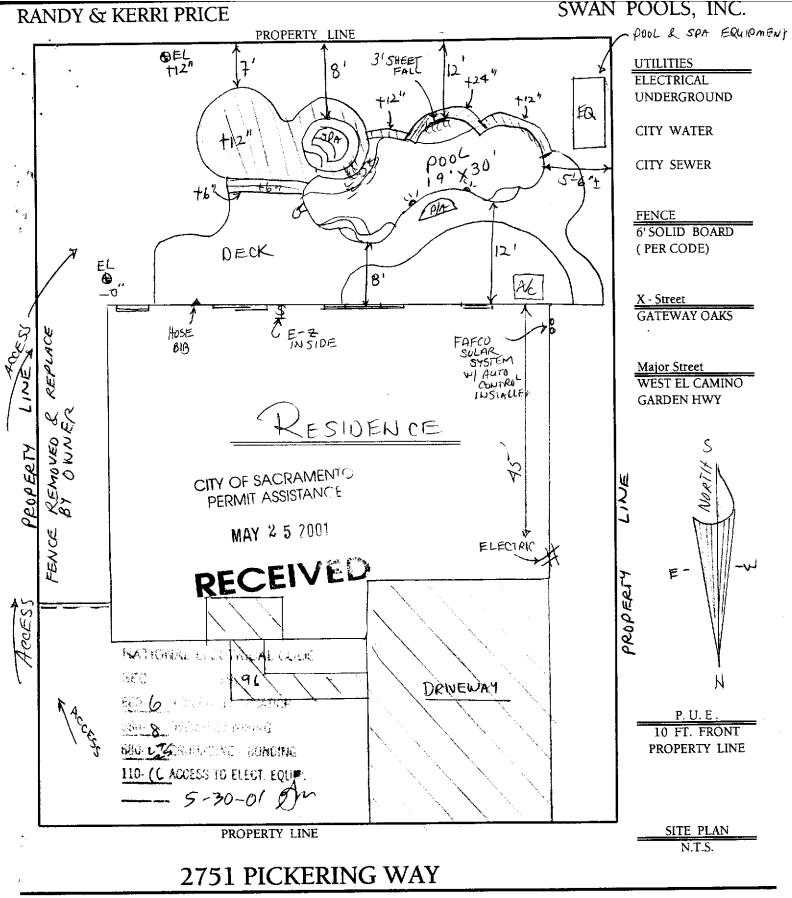
Sub-Type: RES

STOCKTON CA	A 95203	SACRAMENTO, CA 958	33		
Nature of W	ork: GUNITE POOL	AND SPA W/ GAS AND SO	LAR HEATER		
CONSTRUCT	FION LENDING AGEN which this permit is issued (S	CY: 1 hereby affirm under penalty ec. 3097, Civ. C).	of perjury that there is a c	construction lending agen	cy for the performance
Lender's Name_		Lend	er'sAddress		
		ARATION: I hereby affirm und 3 of the Business and Professions C			
License Class	ficense Number 63	3 of the Business and Professions C 964: Date (a) 140	Contractor Signatur	Swartarlo, 91	ay bonso
following reason any structure, pr of the Contracto exempt therefron	(Sec. 703) 5, Business and for to its issuance, also requires License Law (Chapter 9)	Professions Code; any city or countres the applicant for such permit to faconimencing with Section 7000) of exemption. Any violation of Sec	y which requires a permit file a signed statement that I Division 8 of the Busin	t to construct, alter, impro t he or she is licensed puness and Professions Coo	ove, demolish, or repair rsuant to the provisions le) or that he or she is
for sale (Sec. 70 thereon, and whe sale. If, however	044, Business and Professio	mployees with wages as their sole contact Code: The Contractors License herself or through his/her own empent is sold within one year of comp	e Law does not apply to ployees, provided that suc	an owner of property we improvements are not	intended or offered for
Code: The Concontractor(s) lice	stractors License Law does no ensed pursuant to the Contrac		to builds of improves their	ONTE OF SACE	or sacri projects with a
l am exer	mpt under Sec	B & PC for this reason:		11130 1 5 9	
Date		Owner Signature		308 ; 7 6	001
all measurement or private agreer any improvement I certify that I h	ts and locations shown on the ment relating to permissible into the violation of any private read this application and berby a	the applicant represents, and the cite application or accompanying draw or prohibited locations for such implicate agreement relating to location of distate that all information is correct without representative(s) of this city (Applicant/Agent Signature)	rings and that the improve covernents. This building improvements. ct. I agree to comply with to enter upon the aboven	permit does not authorize the all city and county or nentioned property, for ins	e any illegal location of the distances and state laws spection purposes.
WORKER'S	COMPENSATION DEC	CLARATION: I hereby affirm uno of consent to self-insure for workers	der penalty of periury one	of the following declarat	ions:
1 have ar which this perm	nd will maintain workers' con	mpensation insurance, as required by the same and polymers and polymers.	by Section 3700 of the Licy number are:	abor Code, for the perfor	rmance of the work for
Carrier	STATE FUND	Policy Nu	mber 1575333-01	Exp Date	02/01/2002
shall not emplor	v any person in any manner	If the permit is for \$100 or less). Lot so as to become subject to the wo ons of Section 3700 of the Labor Co	rkers' compensation laws	of California and agree	h this permit is issued, that if I should become

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

Applicant Signature Sweet Work WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND CHALL 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.



A. P. N. #

R.M. BK. -

PG. -

RIVERSGATE

LOT NO. -

916-641-6071

95833

TRACT NO.-41-3

SACRAMENTO CITY

SINGLE FAMILY RESIDENCE

NATIONAL ELECTRICAL CODE, 1990 ED. ARTICLE 220

OWNER: PRICE, RANDY & KERRI

ADDRESS:

2751 PICKERING WAY

General Lighting Load: 2.300×3 watts / sq. Ft. =

6,900

Small Kitchen Appliance Load: (2) circuits @ 1,500 watts=

3,000

check box	OTHER LOADS	RATING (R)	NAMEPLATE RATING (NR)	WATTS - LARGER OF (R) / (NR)
Х	Stove Top	6,500	6,500	6,500
X	Oven, Single	4,000	4,200	4,200
	Oven, Double	8,000		
	Stove - (free Standing)	10,000		
	cooking Unit	7,500		
X	Dishwasher	1,500	1,500	1,500
	Trash Compactor	1,650		
Х	Garbage Disposal	1,000	1,200	1,200
Х	Microwave Oven	1,200	1,250	1,250
Χ	Clothes Washer	1,500	1,500	1,500
X	Clothes Dryer	5,000	GAS	, O
X	Waterheater	5,000	GAS	0
	Attic Fan (each)x	1,600		
	Vent Fan (each) x	400		
X	Pool Light (each) 2 x	500	1000	1,000
Х	Spa_Light (each) / x	100	100	100
X	Pumps (each) 2-2 HPx	1,840	7,360	7,360
	Other			
	Misc.			

First 10,000 watts at 100%

SUB TOTAL (OF ABOVE WATTS)

10,000 (a)

Sub Total 34,5/0 - 10,000 = 24,5/0(x) <u>14.5/0</u> X 40%

9.804 (b)

34.5/0

Air Conditioning load (AC) 20.000 Electric Heating (EH)

The larger of (AC) or (EH) at 100% =

The TOTAL of (a) + (b) + ©

WATTS (d)
$$\frac{39809}{340 \text{ totals}} = \frac{166}{100}$$
 AMPERS

SIZE OF EXISTING SERVICE ______ AMPS.

occo

FAFCO SOLAR HEAT EXCHANGER

DESCRIPTION:

The FAFCO Solar Collector is manufactured in Menio Park, California. The collector is a specially developed, highly stabilized polyoletin and is of parallel, circular channel design. It is unglazed, uninsulated, and designed for low temperature applications such as swimming pool heating, heat pumps, aquaculture and hydroponics.

DIMENSIONS:

Header length: Width: (Panel body) = 47.5 in. (1.21 m) 4 ft. x 8 ft. (1.22 x 2.44 m) Effective area: 30.8 ft² (2.86 m²)

4 ft. × 10 ft. (1.22 x 3.05 m) Effective area: = $38.8 \text{ ft}^2 (3.60 \text{ m}^2)$

-

ROOF MOUNTING SPACE:

Width = [Number of panels \times 51.5 in. (131 cm)] \pm 24 in. (61 cm)

Length = Panel length + 24 in. (61 cm)

RACK SPACE

Width = [Number of panels $\times 51.5$ in. (131 cm)] + 2 in. (5 cm)

Length = Panel length + 6 in. (15 cm)

FLOW:

Maximum recommended flow = 8 gpm per panel 3.53 psi head loss (1817 l/hr, 0.248 kg/cm²) Minimum recommended flow = 3 gpm per panel 0.50 psi head loss (681 l/hr, 0.035 kg/cm²) Recommended flow = 4 gpm per panel

0.88 psi head loss (908 l/hr, 0.062 kg/cm²)

PANELS PER BANK:

(maximum)

12 panels single end feed 17 panels diagonal feed

PRESSURE:

NORMAL OPERATING PRESSURE

MAXIMUM INTERMITTENT PRESSURE

80°F (27°C)

0 to 30 psi (9 - 2,2 kg/cm²)

45 psi (3.21 kg/cm²)

212°F (100°C)

0 to 5 psi (0 - 0.35 kg/cm²)

5 031 (0.35 kg/cm²)

70°F (21°C)

Measured burst pressure of panel body = 700 psi (49 kg/cm²)

TEMPERATURE:

Normal operating temperature = 60°F to 90°F (16°C - 32°C)

Maximum continuous operating temperature = 212°F (100°C)

Maximum intermittent temperature (unpressurized) =

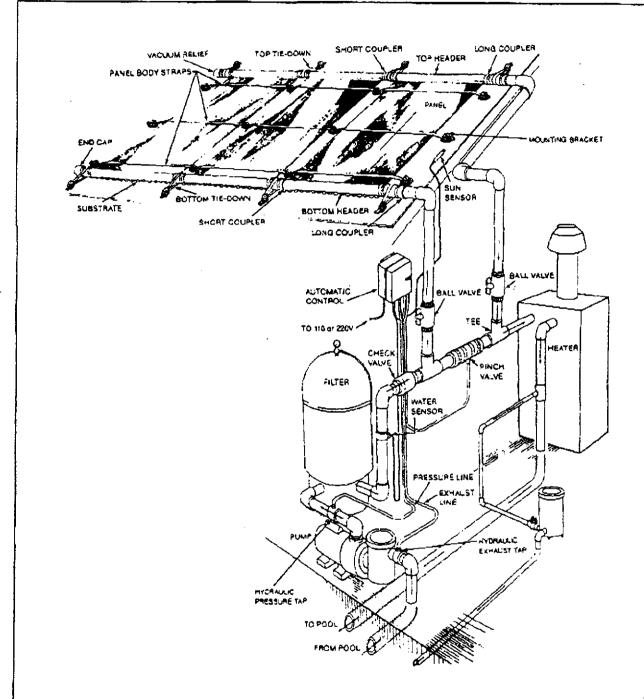
250°F (121°C)

Melt temperature = 338°F (170°C)

SOLAR INSTALLATION HORISHER	en to HORKSHEET	Pool/Spa	oa Domestic Hot Water Space Heating
ال إرادية أدامة PLAN	Show Location of Collector(s) Tank(s) and Control	(s),Storage	DESIGN DATA
<u>_</u> 9693 ^a N			Dimensions: L. 10 × W. 4 × H. ½ Meight 19 1bs. Dry 53 1bs. Met Max, Live Load 1.33 1bs/ft 2 Heat Transfer (Fluid/Gas) Certification 1APMO 5-1889
			Storage Tank MFG. N/A Size Gal. Model Control MPG, COMPUBL Model IX-22 IAPMO NO. UL 6842 Circulator Pump MFG. Motor H.P.
#1804N00 8			Rate 8 crating Pressure Crating Temp.: Hi.
BMOH DIAICA9 AFF			ROOF DESIGN Type Covering Truss Conventional
31S <u></u> Nd827	Scale:		ADDITIONAL INFORMATION MFR. Installation Data Yes No C MFR. System Flow Diagram Yes No C MFR. Electrical Schematic Yes No C MFR. Test Instruction Yes No C
Zeota Zwner:	Telephone:		S) Yes [
न े tdress:		Indicate	האלבר ב-20-61
Location:	Zip:	.	Contractor SIERRA SUN INDUSTRIES Co. Reg. No.

Component Identification





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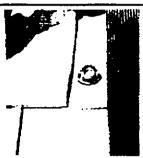
Mounting the Solar Collectors ____

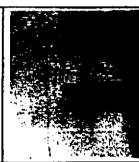


BRACKETINSTALLATION









- Locate bracket base on mofing above subroof or sheathing.
 [Do not attempt to attach brackets to roof material only!)
- 2. Mark and drill a pilot hole.
- 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 poze 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.
- Lay the panel strap through the bracket base. Panel straps can be put through single or doubled over.
- 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.

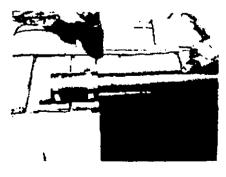
BUILT UP ROOFING

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.
- Secure a mounting bracket at the spot you marked per the instructions above.
- Lay both ends of the strap through the mounting bracket base and screw on a cap.

CHEMICAL RESISTANCE:

Compatible with common collector fluids

CORROSION:

Non-corrosive

FREEZING:

The system should be drained before freezing.

WEATHERABILITY:

Weatherometer, accelerated outdoor exposure, and other extensive laboratory testing demonstrates long-term weather-

ability of FAFCO collectors. (See warranty.)

WEIGHT: $(4' \times 10')$

Without water = 19 lbs (8.6 kg) or 0.47 lbs/ft² (2.3 kg/m²)

Full of water = 53 lbs (24 kg) or 1.33 lbs/ft² (6.5 kg/m²)

ABSORPTIVITY:

0.96

EMISSIVITY:

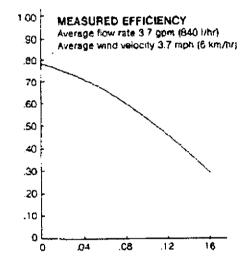
0.90

TIME CONSTANT:

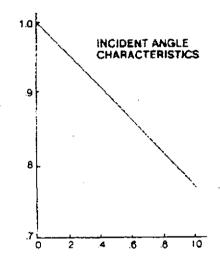
64 seconds

PERFORMANCE CURVES:

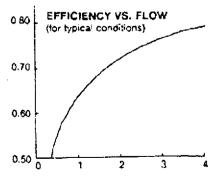


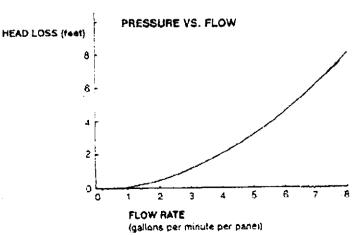


INCIDENT ANGLE MODIFIER



EFFICIENCY





FLOW RATE (GPM)

Additional test data available on request

P/N 02758 Ray 3/87

9897 6N

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