DOCKETED	
Docket Number:	12-HERS-01
Project Title:	Informational Proceeding for the California Home Energy Rating Systems (HERS) Program
TN #:	224794
Document Title:	Owner
Description:	CF2R-PLB-03 Certificate of installation
Filer:	Brennan Warde
Organization:	Artificial Rock Concepts
Submitter Role:	Applicant
Submission Date:	9/25/2018 10:23:21 AM
Docketed Date:	9/25/2018

POO	OF CALIFORNIA DL AND SPA HEATING F2R-PLB-03-E (Revised 10/16)	SYSTEMS		CAL		
CER	TIFICATE OF INSTALLATION				CF2R-PLB-03-E	1
	And Spa Heating Systems				(Page 2 of 3)	1
Project	Name WALTHER		Enfor M 1	TY OF DAWA POINT	Permit Number BLD 18-0296	1
Dwellin 33	292 BIG SUR ST.		City	PANA POINT	20000 92629	
D. P	ool Pump Sizing and Flow Rate	Specification (Section 1	50.0(p))			2
01	The pool pump specified is li				5	q
02	the table. Alternatively, a flow calculat	ction pipe diameter, and ion or flow test result sh	l filter ar all be pr	ea shall be at least as large as t	n pool sizing in the table below. the required minimums shown in e pump flow rate is less than 6 action pipe flow rate does not	
03	An alternative compliance ca provided for this pool or spa (must attach flow calculation	use		Yes O	No 🕅	
04	The pump is capable of oper	ating at 2 or more speed	s (not ap	plicable if pump is less than 1 l	horsepower).	1
05	Each auxiliary pool load is se	rved by either a separate	pump,	or the system is served by a mu	ulti-speed pump.	1
06	Volume of Pool (gallons)					1
07	Filter Type (Cartridge, Sand,	DE)				1
1	08a Required Min Return Pipe Diameter (inches)	08b Required Min Suction Diameter (inche		08c Required Min Filter Area (ft <sup>2</sup>	08d Required Max Pump Flow ) (gpm)	
	1.5	2.0	0	3.1	47	1
09	Return Pipe Diameter (inches	5)	1	2.5		ł
10	Suction Pipe Diameter (inche	s)	-	2.5		ł
11	Filter Surface Area (ft <sup>2</sup> )		-	4.9ft2		ł
12	Max Pump Flow Rate (gpm)			89		ł
13	Measured Flow Rate Return	ine (fps)	NIA	00		ł
14	Measured Flow Rate Suction	Line (fps)	NO			ł
15	Compliance Statement:		17.12			ł
The n	esponsible person's signature on	this compliance document	affirms t	hat all applicable requirements in	this table have been mat	ł
2					and table have been met.	ľ
E. Po	ol System Piping (Section 150.					Ĺ
01	The suction side pipe is straig straight run lengths for vario	ht for at least 4 pipe diar us pipe sizes).	neters b	efore entering the pump (See 1	table below for the required	l
02		or an elbow type that ha	as a pres	sure drop that is less than the	pressure drop of a straight pipe	ľ
The re			affirms ti	hat all applicable requirements in	this table have been mot	
				and the second sec	and done nove peer met.	1
F. Po	ol Filters and Valves (Section 1	50.0(p)3 and 4)			8	ľ

01	If a filter is used in a pool intended for public use: The size of the filter is at least the size specified in NSF/ANSI 50. N/A
02	If a backwash valve is used: The diameter of the backwash valve is at least 2 inches, or the diameter of the return pipe, whichever is greater. 2" BALKWASH VALAF
The r	esponsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

CERTIFICATE OF INSTALLATION		FORNIA ENERGY COMMISSION CF2R-PLB-03-1	
Pool And Spa Heating Systems		(Page 3 of 3	
Project Norre: WALTHER	CATY OF DANA POINT	Perrit Marter BLD 18-0296	
Duelling Address 33292 BIG SUR ST.	CON DANA POINT	20 Cade 92629	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
1. I certify that this Certificate of Installation documentation	on is accurate and complete.		
BRENNAN WARDE	Documentation Author Signature:	1.11	
ARTIFICIAL BOCK CONCEPTS	Date Signed: 9-25-18	Date Signed: 9-25-18	
YIY DELAGE DR		CEA/MERS Certification (dentification (d applicable);	
Chylsate/The ENCAN/TRIS, CA 92024	Phone (7/60) 230-28/2	(160) 230-28/0/0	
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
<ol> <li>The information provided on this Certificate of Installat</li> <li>Lam either: a) a responsible person eligible under Divis responsibility for the system design, construction, or inst of work identified on this Certificate of lease light</li> </ol>	ion 3 of the Business and Professions Code in the stallation of features, materials, components, or	manufactured devices for the score	
Installation conforms to all applicable codes and regular	in this statement on the responsible person's be nents or manufactured devices (the installation) i tions and the installation conforms to the require	) I am an authorized representative half. dentified on this Certificate of	
<ol> <li>The constructed or installed features, materials, compo Installation conforms to all applicable codes and regular Compliance, plans, and specifications approved by the e</li> </ol>	in this statement on the responsible person's be nents or manufactured devices (the installation) it tions and the installation conforms to the require inforcement agency. Installation shall be posted or made available with ency for all applicable inspections. I understand the encoder of the statement of the	) I am an authorized representative half, dentified on this Certificate of ments given on the Certificate of h the building permit(s) issued for hat a registered conv of this	
3. The constructed or installed features, materials, compo- Installation conforms to all applicable codes and regular Compliance, plans, and specifications approved by the e 4. I will ensure that a registered copy of this Certificate of I the building, and made available to the enforcement ag Certificate of Installation is required to be included with Desponsible Builder/Installer Name: BRENNAN WARDE	in this statement on the responsible person's be nents or manufactured devices (the installation) it tions and the installation conforms to the require inforcement agency. Installation shall be posted or made available wit ency for all applicable inspections. I understand to the documentation the builder provides to the b	) I am an authorized representative half, dentified on this Certificate of ments given on the Certificate of h the building permit(s) issued for hat a registered conv of this	
<ol> <li>The constructed or installed features, materials, compo- Installation conforms to all applicable codes and regular Compliance, plans, and specifications approved by the e</li> <li>I will ensure that a registered copy of this Certificate of I the building, and made available to the enforcement ag Certificate of Installation is required to be included with Besponsible Builder/Installer Name:</li> </ol>	in this statement on the responsible person's be nents or manufactured devices (the installation) is tions and the installation conforms to the require inforcement agency. Installation shall be posted or made available wit ency for all applicable inspections. I understand to the documentation the builder provides to the b	) I am an authorized representative half, dentified on this Certificate of ments given on the Certificate of h the building permit(s) issued for hat a registered conv of this	