CITY OF SACRAMENTO		Permit No:	0600281
231 I Street, Sacramento, CA 95	5814	Insp Area:	2
		Thos Bros:	337G5
	para di Para d		
Site Address: 4020 FAWN CR SAC		Sub-Type:	RES
2	The same of the sa	Housing (Y/N):	
Parcel No: 119-0352-007	A Nadica	Housing (1/14).	***
ONTRACTOR	<u>OWNER</u>	<u>ARCHITECT</u>	
ILW HOME IMPROVMENT INC.	GRIFFIN COLETTE		
990 SUNRISE BL. #3	4020 FAWN CIR		
ANCHO CORDOVA 95742	SACRAMENTO, CA 95823		
NatureofWork:PAPERLESSPERMIT.C/C	SPLITSYSTEMHVAC&HEATPUI	MP 2005 ENERGYSTANDA	RDSAPPLYCOMPLIA
OOC'S REQ'D @			
	over a transfer Borne Borne Bo		
ONCEDIOUSON I DAINGAN ASSESSOR	Thank, com undirection of	there is a construction landing access	v for the performance of
ONSTRUCTION LENDING AGENCY: 1 to work for which this permit is issued (Sec. 3097, C		there is a construction lending agenc	y for the performance of
ender's Name	Lender's Address	1	
ICENSED CONTRACTORS DECLARA	TION: I hereby affirm under penalty of	perjury that I am licensed under p	provisions of Chapter 9
ommencing with section 7000) of Division 3 of the	Business and Professions Code and my licen	se is in full force and effect.	
icense Class 20 License Number 731771	Date 1-10-06 Contractor Si	ignature X []////	du
License Number 731771	Date 1 10 Contractor St		<u>- </u>
lle (Sec. 7044, Business and Professional Code: The does such work himself or herself or through him building or improvement is sold within one year of e purpose of sale.)	is/her own employees, provided that such important of completion, the owner-builder contracting with licensed contractors to constructions.	provements are not intended or offer the burden of proving that he/she did the burden of project (Sec. 7044, Business	ed for sale. If, however, not build or improve for sand Professions Code:
censed pursuant to the Contractors License Law).	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, .	
I am exempt under SecI	B & PC for this reason:		
	Onmar Signatura		\$ M6 6 - 6 1 - 6
Pate	Owner Signature		
N ISSUING THIS BUILDING PERMIT, the application on the application of a greenment relating to permissible or prohibit improvement or the violation of any private agreement	ion or accompanying drawings and that the ted locations for such improvements. This b	improvement to be constructed does	s not violate any law or
certify that I have read this application and state tha uilding construction and herby authorize representat	nt all information is correct. I agree to comply tive(s) of this city to enter upon the abovemen	with all city and county ordinances	and state laws relating to ses.
	. 1//	-t1./w	
Date (U T O S	Applicant/Agent Signature	m/1 /	<u></u>
WORKER'S COMPENSATION DECLAR 1 have and will maintain a certificate of cons	ATION: I hereby affirm under penalty of p	erjury one of the following declaration as provided for by Section 3700 of	ns: the Labor Code, for the
	ent to sen-insure for workers compensation		
erformance of work for which the permit is issued. /// / have and will maintain workers' compensati	ion insurance, as required by Section 3700 o	f the Labor Code, for the performan	
have and will maintain workers' compensation insupermit is issued. My workers' compensation insufficient is issued.	ion insurance, as required by Section 3700 o urance carrier and policy number are:		ce of the work for which
performance of work for which the permit is issued.	ion insurance, as required by Section 3700 o		

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.

4020 Sawn biele

INSTALLATION CERTIFICATE	(i	Page 3 of 12)	CF- 6R
4020 Fawn Cir.	Sacramento CA	95823	600281
Site Address			Permit Number

An installation certificate is required to be posted at the building site or made available for all appropriate inspections. (The information provided on this form is required) After completion of final inspection, a copy must be provided to the building department (upon request) and the building owner at occupancy, per Section 10-103(a).

HVAC SYSTEMS:

Heating Equipment

Equip Typ pkg. neat pump	CEC Certified Mfr. Name, Model and Serial Number	# of Identical Systems	Efficiency (AFUE, etc.)1 >(CF-1R value)	Duct Location (attic, etc.)	Duct or Piping R-value	Heating Load (Btu/hr)	Heating Capacity (Btu/hr)
	Trane	1	0.93 AFUE	o	0	0	43500
Split Sys	twe042p130b		0 HSPF				
G/E	s545612α1∨						

Cooling Equipment

Equip Typ (pkg. heat pump	CEC Certified Mfr. Name, Model and Serial Number	# of Identical Systems	Efficiency (AFUE, etc.)1 >(CF-1R value)	Duct Location (attic, etc.)	Duct or Piping R-value	Cooling Load (Btu/hr)	Cooling Capacity (Btu/hr)
	Trane	1	13.25 SEER	0	0	0	42000
Split Sys	2twx5042		0 EER				
G/E	s5194kfm2f						
	ADT						
Coil	0						
	0						

symbol reads greater than or equal to what is indicated on the CF-1R value.
 include both SEER and EER if compliance credit for high EER air conditioner is claimed.

1/17/06

i, the undersigned, verify that equipment listed above is: 1) is the actual equipment installed, 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the Energy Efficiency Standards for residential buildings, and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the Appliance Efficiency Regulations or Part 6), where applicable.

Signature, Date

MLW Home Improvements
Installing Subcontractor (Co. Name)

OR General Contractor (Co. Name) OR Owner

COPY TO: Building Department HERS Rater (if applicable) Building Owner at Occupancy

(Page 4 of 12) Sacramento CA 95823

600281

Site Address

Permit Number

INSTALLER COMPLIANCE STATEMENT FOR DUCT LEAKAGE

Copies to: Builder, HERS Rater, Building Owner at Occupancy and Building Department				
INSTALLER COMPLIANCE STATEMENT				
The building was: Tested at Final Tested at Rough-in				
INSTALLER VISUAL INSPECTION AT FINAL CONSTRUCTION STAGE: Remove at least one supply and one return register, and verify that the spaces between the finishing wall are properly sealed.	e register boot a	nd the in	terior	
If the house rough-in duct leakage test was conducted without an air handler installed, ins	pact the connec	Non noin	t e	
between the air handler and the supply and return plenums to verify that the connection po				
Inspect all joints to ensure that no cloth backed rubber adhesive duct tape is used	ma are proper	<i>y</i>		
DUCT LEAKAGE REDUCTION				
Procedures for field verification and diagnostic testing of air distribution systems are available	in RACM, Appe	ndix RC	1.3	
NEW CONSTRUCTION:				
Duct Pressurization Test Results (CFM @ 25 Pa)	Measured			
	Values			
1 Enter Tested Leakage Flow In CFM:				
2 Fan Flow: Calculated (Nominal: Cooling Heating) or Measured				
If Fan Flow is Calculated as 400 ofmiton x number of tons or as 21.7 ofm/(kBtu/hr) x Heating	11400			
Capacity in Thousands of Btu/hr, enter total calculated or measured fan flow in CFM here:	1 1 0	ļ <u>. </u>		
3 Pass if Leakage Percentage < 6% for Final or < 4% at Rough-in: [100 x [(Line # 1) / (Line # 2)]]		⊢	-	-
		Pas	S Secondia	Fail
ALTERATIONS: Duct System and/or HVAC Equipment Change-Out 4 Enter Tested Leakage Flow in CFM from Pre-Test of Existing Duct System Prior to Duct			****	
System Alteration and/or Equipment Change-Out.	222			
5 Enter Tested Leakage Flow in CFM from Final Test of New Duct System or Altered Duct	A 4 4			
System for Duct System Alteration and/or Equipment Change-Out.	22)		<i>(</i> 1.7)	- 10
6 Enter Reduction In Leakage for Altered Duct System	3.00		22022	
[(Line # 4) Minus (Line # 5)] – (Only if Applicable)			40.0	
7 Enter Tested Leakage Flow in CFM to Outside (Only if Applicable)		Market Market (A)	1	CASSICIONES CONT.
8 Entire New Duct System - Pass if Leakage Percentage < 6% for Final or < 4% at Rough-in			,,, , , , , , , , , , , , , , , , , , 	
[100 x [(Line # 5) / Line # 2)]]		Pass		Fall
EST OR VERIFICATION STANDARDS: For Altered Duct System and/or HVAC Equipment	Change-Out			
se one of the following four Test or Verification Standards for compliance:	-			
9 Pass if Leakage Percentage < 15% [100 x [(Line # 5) / (Line # 2)]]	15.80%	∑ Pass		Fail
0 Pass if Leakage to Outside Percentage < 10% [100 x [(Line # 7) / (Line # 2)]]		Pass		Fail
1 Pass if Leakage Reduction Percentage > 60% [100 x [(Line # 6) / (Line # 4)]]		Pass		Fall
and Verification by Smoke Test and Visual Inspection		Pass		Fail
2 Pass if Sealing of all Accessible Leaks and Verification by Smoke Test and Visual Inspection	E. 1975	Pass		Fali
Pass if One of Lines # 9 through # 12 pass	ANGERTAGE TO THE	Pass		Fall
i, the undersigned, verify that the above diag				
were performed in conformance with the requirements for compliance credit. I, the undersigned	, also certify tha	t the nev	Лy	
installed or retrofit Air-Distribution System Ducts, Plenums and Fans comply with Mandatory red	quirements spec	ified in		
Section 150 (m) of the 2005 Building Energy Efficiency Standards.				
M) (Cz) el 1/17/04 MLW Home Improve	ements			
Signature Date installing Subcontractor				
General Contractor (Co.				

	CATE		(Page 5	/ OI 12/	
4020 Fawn Cir.		Sacramento CA	958	23	600281
Site Address			•	Pern	nit Number
•					
					
THERMOSTAT	IC EXPANSIC	ON VALVE (TXV)			
Procedures for field verific	ation of thermos	tatic expansion valves are available	in RACM.	Appendix RI.	
	Access is prov	ded for inspection. The procedure s	hall		
Yes No	consist of visua	al verification that the TXV is installe	d on	1	
	the system and	installation of the specific equipmen	nt		
	shall be verified	i.			
		<u></u>			
· · · · · · · · · · · · · · · · · · ·		Yes is a	pass	Pass	Fali
erification for Required Refrig he <u>rmostatic Expansion Valves</u>		d Adequate Airflow for Split System	Space Co	oling Systems v	without
Outdoor Unit Serial #					
Location					
Outdoor Unit Make					
Outdoor Unit Model					
Cooling Capacity		Btu/hr			
Date of Verification					
Date of Refrigerant Gauge C	Calibration	(must be che	cked mo	nthly)	
Date of Refrigerant Gauge C Date of Thermocouple Calib Standard Charge Measure	ement Proce	(must be che	oF and a	nthly) above);	DDA
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measur rocedures for Determining Ref ote: The system should be inst	ement Proce	(must be che	oF and a	nthly) above): ACM, Appendix	
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measur rocedures for Determining Ref ote: The system should be inst rocedure.	ement Proce	(must be che dure (outdoor air dry-bulb 550 using the Standard Method are avail	oF and a	nthly) above): ACM, Appendix	
Date of Refrigerant Gauge C Date of Thermocouple Callb standard Charge Measure rocedures for Determining Refote: The system should be instructed.	ement Proced ement Proced rigerant Charge talled and charg	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ed in accordance with the manufactu	oF and a	nthly) above): ACM, Appendix	re starting this
Date of Refrigerant Gauge C Date of Thermocouple Callb itandard Charge Measur rocedures for Determining Ref ote: The system should be instructed rocedure. easured Temperatures Supply (evaporator leaving)	ement Procedurigerant Charge talled and charge air dry-builb tem	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ad in accordance with the manufactu perature (Tsupply, db)	oF and a	nthly) above): ACM, Appendix	re starting this
Date of Refrigerant Gauge C Date of Thermocouple Callb standard Charge Measure rocedures for Determining Ref- ote: The system should be instructed. easured Temperatures Supply (evaporator leaving) Return (evaporator entering)	ement Procedurigerant Charge talled and charge air dry-builb tem	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ed in accordance with the manufactu perature (Tsupply, db) upperature (Treturn, db)	oF and a	nthly) above): ACM, Appendix	re starting this
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measure rocedures for Determining Ref- ote: The system should be instructed. easured Temperatures Supply (evaporator leaving) Return (evaporator entering) Return (evaporator entering)	ement Procedurigerant Charge talled and charge air dry-builb tem	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ed in accordance with the manufactu perature (Tsupply, db) nperature (Treturn, db) nperature (Treturn, wb)	oF and a	nthly) above): ACM, Appendix	F
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measure rocedures for Determining Ref- ote: The system should be instructed. leasured Temperatures Supply (evaporator leaving) Return (evaporator entering)	ement Procedurigerant Charge talled and charge air dry-builb tem) air dry-builb ter) air wet-builb ter erature (Tevapor	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ed in accordance with the manufactu perature (Tsupply, db) nperature (Treturn, db) nperature (Treturn, wb)	oF and a	nthly) above): ACM, Appendix	F F
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measure rocedures for Determining Ref- lote: The system should be instructed. leasured Temperatures Supply (evaporator leaving) Return (evaporator entering Return (evaporator entering Evaporator saturation tempe	ement Procedurigerant Charge talled and charge air dry-bulb tem air dry-bulb tem air wet-bulb ter rature (Tevapor suction, db)	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ed in accordance with the manufactu perature (Tsupply, db) nperature (Treturn, db) nperature (Treturn, wb) ator, sat)	oF and a	nthly) above): ACM, Appendix	F F F
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measure Procedures for Determining Refricte: The system should be instructed. Iteasured Temperatures Supply (evaporator leaving) Return (evaporator entering Return (evaporator entering Evaporator saturation tempe Suction line temperature (Ts Condenser (entering) air dry	ement Procedurigerant Charge talled and charge air dry-bulb tem) air dry-bulb tem air wet-bulb ter rature (Tevapor suction, db)	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ed in accordance with the manufactu perature (Tsupply, db) nperature (Treturn, db) nperature (Treturn, wb) ator, sat) re (Tcondenser, db)	oF and a	nthly) above): ACM, Appendix	F F F
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measure Procedures for Determining Refricte: The system should be instructed. Reasured Temperatures Supply (evaporator leaving) Return (evaporator entering Return (evaporator entering Evaporator saturation temperature (Ts Condenser (entering) air dry	ement Procedurigerant Charge talled and charge air dry-bulb tem) air dry-bulb tem) air wet-bulb terrature (Tevapor suction, db)	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ed in accordance with the manufactu perature (Tsupply, db) nperature (Treturn, db) nperature (Treturn, wb) ator, sat) re (Tcondenser, db)	oF and a	nthly) above): ACM, Appendix	F F F
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measure rocedures for Determining Ref lote: The system should be instructed. Reasured Temperatures Supply (evaporator leaving) Return (evaporator entering Return (evaporator entering Evaporator saturation tempe Suction line temperature (Ts Condenser (entering) air dry uperheat Charge Method Calcu Actual Superheat = Tsuotion	ement Procedurigerant Charge talled and charge air dry-bulb tem air dry-bulb tem air wet-bulb ter tature (Tevapor suction, db) -bulb temperature (at the charge talled and charge)	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ed in accordance with the manufactu perature (Tsupply, db) nperature (Treturn, db) nperature (Treturn, wb) ator, sat) re (Tcondenser, db)	oF and a	nthly) above): ACM, Appendix	F F F
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measure rocedures for Determining Ref lote: The system should be instructed. Reasured Temperatures Supply (evaporator leaving) Return (evaporator entering Return (evaporator entering Evaporator saturation tempe Suction line temperature (Ts Condenser (entering) air dry uperheat Charge Method Calcu Actual Superheat = Tsuotion Target Superheat (from Table	ement Procestigerant Charge tailed and charge air dry-builb tem air dry-builb tem air wet-builb ter trature (Tevapor suction, db) -builb temperature (ations for Refri, db – Tevaporate RD-2)	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ed in accordance with the manufactu sperature (Tsupply, db) sperature (Treturn, db) sperature (Treturn, wb) ator, sat) re (Tcondenser, db) sperant Charge or, sat	oF and a	nthly) above): ACM, Appendix	F F F
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measure Procedures for Determining Ref Jote: The system should be instructed. Reasured Temperatures Supply (evaporator leaving) Return (evaporator entering Return (evaporator entering Evaporator saturation temper Suction line temperature (Ts Condenser (entering) air dry uperheat Charge Method Calcu Actual Superheat = Tsuotion Target Superheat (from Table	ement Procestigerant Charge tailed and charge air dry-builb tem air dry-builb tem air wet-builb ter trature (Tevapor suction, db) -builb temperature (ations for Refri, db – Tevaporate RD-2)	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ed in accordance with the manufactu perature (Tsupply, db) nperature (Treturn, db) nperature (Treturn, wb) ator, sat) re (Tcondenser, db)	oF and a	nthly) above): ACM, Appendix	F F F
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measure Procedures for Determining Ref Lote: The system should be instructed. Reasured Temperatures Supply (evaporator leaving) Return (evaporator entering Return (evaporator entering Evaporator saturation tempe Suction line temperature (Ts Condenser (entering) air dry uperheat Charge Method Calcu Actual Superheat = Tsuotion Target Superheat - Target Si	ement Procedurigerant Charge tailed and charge air dry-builb tem air dry-builb tem air dry-builb tem atture (Tevapor suction, db) -builb temperature (Tevaporaturigerature) All temperaturigerature (Tevaporaturigerature) All temperaturigerature (Tevaporaturigerature) All temperaturigeraturigerature (Tevaporaturigeraturi	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ed in accordance with the manufactu perature (Tsupply, db) nperature (Treturn, db) nperature (Treturn, wb) ator, sat) re (Tcondenser, db) gerant Charge or, sat n passes if between -5 and +5°F)	oF and a	nthly) above): ACM, Appendix	F F F
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measure rocedures for Determining Ref lote: The system should be instrocedure. Reasured Temperatures Supply (evaporator leaving) Return (evaporator entering Return (evaporator entering Evaporator saturation tempe Suction line temperature (Ts Condenser (entering) air dry uperheat Charge Method Calcu Actual Superheat = Tsuotion Target Superheat - Target Si emperature Spilt Method Calcul	ement Procestigerant Charge tailed and charge air dry-builb tem air dry-builb tem air wet-builb ter trature (Tevapor suction, db) -builb temperature (Tevaporature) air wet-builb temperature (Tevaporature) air wet-builb temperature (Tevaporature) attons for Refri, db — Tevaporature (Tevaporature) attons for Adequations for Adequatio	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ed in accordance with the manufactu perature (Tsupply, db) nperature (Treturn, db) nperature (Treturn, wb) ator, sat) re (Tcondenser, db) perant Charge or, sat n passes if between -6 and +5°F) uste Airflow	oF and a	nthly) above): ACM, Appendix	F F F
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measure Procedures for Determining Ref lote: The system should be instructed. Reasured Temperatures Supply (evaporator leaving) Return (evaporator entering Evaporator saturation tempe Suction line temperature (Ts Condenser (entering) air dry uperheat Charge Method Calcu Actual Superheat = Tsuction Target Superheat - Target Semperature Split Method Calculation is not need.	ement Proceduringerant Charge tailed and charge air dry-builb term air dry-builb term air wet-builb term action, db) -builb temperature (Tevaporauction, db) -builb temperature (RD-2) uperheat (Systemations for Adequecessary if Adecessary in Adecessary if Adecessary in Adecessary	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ad in accordance with the manufactu perature (Tsupply, db) nperature (Treturn, db) nperature (Treturn, wb) ator, sat) re (Tcondenser, db) gerant Charge or, sat n passes if between -5 and +5°F) uate Airflow quate Airflow credit is taken	oF and a	nthly) above): ACM, Appendix	F F F F F F F F F F F F F F F F F F F
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measure Procedures for Determining Ref lote: The system should be instructed to the system should be instructed. Reasured Temperatures Supply (evaporator leaving) Return (evaporator entering) Return (evaporator entering) Evaporator saturation temperature (Ts Condenser (entering) air dry uperheat Charge Method Calcu Actual Superheat = Tsuction Target Superheat (from Table Actual Superheat = Target Si emperature Split Method Calculation is not never the superheat of the superheat of the superheat of the superheat Superh	ement Proceduring air dry-bulb temperature (Tevaporauction, db) -bulb temperature (Tevaporauctions for Refrieder)	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ad in accordance with the manufactu perature (Tsupply, db) nperature (Treturn, db) nperature (Treturn, wb) ator, sat) re (Tcondenser, db) gerant Charge or, sat n passes if between -5 and +5°F) uate Airflow quate Airflow credit is taken	oF and a	nthly) above): ACM, Appendix	F F F F F F F F F F F F F F F F F F F
Date of Refrigerant Gauge C Date of Thermocouple Callb Standard Charge Measure Procedures for Determining Ref lote: The system should be instructed and the system should be instructed. Reasured Temperatures Supply (evaporator leaving) Return (evaporator entering Return (evaporator entering Evaporator saturation tempe Suction line temperature (Ts Condenser (entering) air dry uperheat Charge Method Calcu Actual Superheat = Tsuotion Target Superheat (from Table Actual Superheat — Target Semperature Split Method Calculation is not in Actual Temperature Split = T Target Temperature Split (from Target Split (from Target Temperature Split (from Target Split (from Target Split (f	ement Procedingerant Charge tailed and charge air dry-builb term air dry-builb term air wet-builb term action, db -builb temperature (Tevaporauction, db) -builb temperature (RD-2) uperheat (System attons for Adequecessary if Ad	(must be che dure (outdoor air dry-bulb 55c using the Standard Method are avail ad in accordance with the manufactu perature (Tsupply, db) nperature (Treturn, db) nperature (Treturn, wb) ator, sat) re (Tcondenser, db) gerant Charge or, sat n passes if between -5 and +5°F) uate Airflow quate Airflow credit is taken	oF and a	nthly) above): ACM, Appendix	F F F F F F F F F F F F F F F F F F F

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INSTALLATION CERTIFICATE		(Page 6 of 12) CF-6R
4020 Fawn Cir.	Sacramento CA	95823	600281
Site Address			Permit Number
Standard Charge Measurement Summary:			
System shall pass both refrigerant charge and adequ	uate airflow calculation	criteria from the	\$amo
measurements. If corrective actions were taken, both			
Yes No System Passes			
Alternate Charge Measurement Procedure (outdoor	or air d ry- buib below 85	oF)	
Note: The system should be installed and charged in accords			ons and installer
verification shall be documented on CF-6R before starting thi			
shall use the Standard Charge Measure Procedure:		-	
Procedures for Determining Refrigerant Charge using the Alta	ernate Method are avail	able in RACM, A	ppendix RD3.
Weigh-in Charging Method for Refrigerant Charge			
Actual liquid line length:		Ft	
Manufacturer's Standard liquid line length:		ft	
Difference (Actual - Standard):		ft	
Manufacturer's correction (ounces per foot) x	difference in length =	ounce	is .
	+ = add) (- = remove)		
Measured Airflow Method for Adequate Airflow Verification av			
Calculated Airflow: Cooling Capacity (Btu/hr)	X 0.033 (cfm/Btu-hr)		FM
Measured Airflow is CFM (Measured airflo	w must be greater than	the calculated ai	rflow).
Manual Observation of the Company of			
Alternate Charge Measurement Summary:			
system shall pass both refrigerant charge and adequate airflo	w calculation criteria fr	om the same me	asurements. If corrective
ctions were taken, both criteria must be remeasured and reci	alculated.		
Yes No System Passes			
malle	MLW Home In	menunmanéa	
Signature, Date	Installing Subcon		N OB
भू स्ट्रास्ट			
	General Contracto	が (CO. Name) OH	. Owner

COPY TO: Building Department HERS Rater (If applicable) Building Owner at Occupancy

INST	ALLATIO	N CE	RTIFIC	ATE		(Page 8 of 12)	CF- 6R
4020	Fawn Cir				Sacramento CA	95823	600281
Site Ad	dress						Permit Number
	FAN	WAT	T DRA	W			
Proce					nandler watt draw are available in RACM,	Appendix RE3.2	
	M	ethoc	l For Fa	ın Wat	t Draw Measurement		
		_		3.2.1	Portable Watt Meter Measurement		
			RE:	3.2.2	Utility Revenue Meter Measurement		
					Measured Fan watt Draw: Ente	r results of Watts/	cfm:
					Measured Fan Flow (Enter total cfm from air	flow verification)	
					Ente	r results of Watts/	ofm:
			 ,				
	<u> </u> Y	es		No	Calculated fan watt/cfm is equal to or lov	wer than the fan	
					watt/cfm draw documented in CF-1R		_
					<u> </u>	Yes is a pass	Pass Fail
_	4						
	ADE	QUA.	TE AIR	FLOV	VVERIFICATION		
Proced	ures for fie	ld veri	fication	and dia	agnostic testing of adequate airflow are availa	ble in RACM, App	endix RE4.1.
	Metho	d For	Airflow I	Measur	ement		
	Y	s	No	Due	ct design exists on plans		
		RE4.1.	.1	Dla	gnostic Fan Flow Using Flow Capture Hood]
		RE4.1.	2	Dia	gnostic Fan Flow Using Plenum Pressure Mai	tching	
		RE4.1.	.3	Dla	gnostic Fan Flow Using Flow Grid Measureme	ent	1
-	Measured	Airflo	w:				cfm/ton
	Ye	s	No	Me	asured airflow is greater than the criteria in Ta	able RE-2	
					Yes is a pass		Pass Fail
	_						
	MAX	IMUN	A COOL	LING	CAPACITY		
Procedi	ures for det	termin	ing max	imum c	ooling load capacity are available in RACM, A	ppendix RF3.	
1	Ye	5	No	Ade	equate airflow verified (see adequate airf	low credit)	
2	Ye		No		rigerant charge or TXV		
3	Ye	s	No		ct leakage reduction credit verified		
4	Ye		No		oling capacities of installed systems are	≤ to maximum c	ooling
	٠	L			pacity Indicated on the Performance's CF		
	-				ne cooling capacities of installed system		imura
5	Γη _{Ye}	. r	No		bling capacity in the CF-1R, then the elec		
٦	. ، ا	L	-110		talled systems must be ≤ to electrical inc	-	"
Щ				1119			
					Yes to 1, 2, and 3; and Yes to eith	er 4 or 5 is a pas	SS Pass Fail
	ыси	EED	AID C	ONDI	TIONER		
<u>, </u>							
					lable in RACM, Appendix RI.		
1 -	Ye		No		R values of installed systems match the (
2	Ye	_	No		split system, indoor coll is matched to d	utdoor coil	
3	Ye	5	No	Tim	e Delay Relay Verified (If Required)		
					Yes to 1 and 2; and 3 (If Required) is a pass	Pass Fail
		_				MLW Ho	me Improvements
ests	<u>-</u>	_			Signature, Date Instal	ling Subcontractor	(Co. Name) OR

General Contractor (Co. Name)

COPY TO: Building Department, HERS Rater, Building Owner at Occupancy

Performed

CER	RTIFICATE OF FIELD VERIFICATION & DIAGNOSTIC	: TESTING (Page 1 of 8)		CF-4R
402·	O Fawn Cir	MLW Home Improvements / 731	771	
	ect Address	Contractor Name / License No.		
		06-00281		<u>.</u>
	045 055 0343	Permit Number		
	an Sipp 916-965-8343	15981 Sample Group Number		
HER.		CC14-1798356563		
7.5.7		Certificate Number	****	
Firm	Energy Analysis and Comfort Solutions,	HERS Provider: CalCEI	RTS	
Stre	eet Address: P.O. Box 2233	City/State/2ip; Orange	evalg / CA /	95662
Cop	oles to: Homeowner, HERS Provider and Building De	partment	v. Title 20	of the CCR
This	s CF-4R has been registered with the CalCERTS® registry CERTS® is an approved HERS provider by the California	Y in accordance with the Tibe AT	OLITHG AV	TOI UIG CON.
Cities HFE	RS RATER COMPLIANCE STATEMENT	analy commonweal		
est. T	to secure the second and the second to see of second test	sting, but was not tested.		
As t	nouse was lested Approved as part of sample of the HERS rater providing diagnostic testing and field verification, mostic tested compliance requirements as discked on this form.	I certify that the house identified on the	his form com	piles with the
diag	nostic tested compilance requirements as checked on this form.	The HERS rater must check and venry	/ that the new The HERS rat	# distribution pr must not
SYSD	the Charles uptil a property completed and signed CF-6R has been a Charles uptil a property completed and signed CF-6R has been a charles up to the charles are completed and signed CF-6R has been a charles as the charles are charles are charles as the charles are charle	been received for the sample and teste	ed buildings.	El Illebet trate
1171111	 The installer has provided a copy of the CE-6R (Installation CET) 	roricace).		
	- New Combustion corresponds fully during // A - 4000 DOLUGE build	fina cavities as plonums or platform fo	turns in lieu	of ducts).
	New systems where cloth backed, rubber adhesive duct tape is	installed, Mastic and drawbands are i	ised in comb	ination with dom
	backed, rubber adhesive duct tope to seal leaks at duct connect	GOAS.	r_	
	INIMUM REQUIREMENTS FOR DUCY LEAKAGE RED	UCTION COMPLIANCE CREDIT	.	
NE	EW CONSTRUCTION			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	Duct Pressurization Tost Results (CFM 40 75 Pa)		Measured Values	
1	Enter-Tested Leakage Flow in GFM:		N/A	
2	Fari Flow: Calculated (Numinal Cooling Heating) or Milenter Total Fan Flow in CFM:	teasured	1400	
3	Passiil Leakage Percentage <= (/% (-100 x (-1 me 1 / Line 2-)).	-	N/A	N/A
AL,	TERATIONS: Duct System and/or HVAC Equip	pment Change-Out		
4	Enter Tested Leakage Flow in CFM from CF-6R: Pro-Test of Exi		222	
5	Enter Tested Leakage Flow in CFM: Final Test of New Duct Sys System Alteration and/or Equipment Change-Qui.	stem or Altered Duct System for Duct	222	
6	Enter Reduction in Leakage for Altared Duct System [Line 4 - Line 5] - (Only if Applicable)		υ	
7	Enter l'ested Leakage Flow in CFM to Outside (Only if Applicable	e)		
В	Entire New Duct System - Pass if Leakage Percentage <= 6% (100 x (Line 5 / Line 2)];		Pass Fail
76	ST OR VERIFICATION STANDARDS: For Altere		ΔĊ	
F (1)	uipment Change-Out, use one of the following	a four Test or Verification		Ī
	andards for compliance:	HINDE TOOL OF THE STREET,		
9	Pass if Leakage Percentage <= 15% [100 x (Line 5 / Line 2)]:	:	15.8%	Pass Fail
10	Pass if Leakage to Outside Percentage < 10% [100 x (Line 7	' / Line 2)];		Pass - Fail
11	Pass if Leskage Reduction Percentage >- 60% (100 x (Line 6 and Verification by Smoke Test and Visual Inspection	/ Line 4)]		. Pass Fail
12	Pass If Sealing of all Accessible Leaks and Verification by Smoke	e Test and Visual Inspection		Pass Fail
	Pass If C	one of Lines #9 through #12 pags		Pass Fall

4020 Fawn Cir		MLW Home Improvements / 731771	
Project Address		Contractor Name / License No.	
•		06-00281	
Contractor Contact	Telephone	Pormit Number	
Brian Sipp	916-965-8343	15981	
HERS ROLCE	, c Telephone	Sample Group Number	
576	January 31, 2006	CC14-1798356563	
Certifýíng Signatu	ne Date	Certificate Number	
im:	Energy Analysis and Comfort Solutions,	HERS Provider: CalCERTS	
Street Address:	P.O. Box 2233	City/State/Zip: Orangovale / CA	/ 95662
CalCERTS® is a	peen registered with the CalCERTS® registr n approved HERS provider by the California	ry in accordance with the little 24 & little 2 Energy Commission.	O Of the CCR.
CalCERTS® is at HERS RATER C	n approved HERS provider by the California OMPLIANCE STATEMENT	Energy Commission.	O Of the CCK.
CalCERTS® is an HERS RATER C The flouse was As the HERS rater liagnostic tested of	n approved HERS provider by the California OMPLIANCE STATEMENT Tested — Approved as part of sample te	Energy Commission. sting, but was not tested. I cartify that the house identified on this form con	
CalCERTS® is a HERS RATER C The flouse was as the HERS rater liagnostic tested of the location	n approved HERS provider by the California OMPLIANCE STATEMENT Tested Approved as part of sample te providing diagnostic testing and field verification, compliance requirements as checked on this form.	Energy Commission. sting, but was not tested. I cartify that the house identified on this form con	
CalCERTS® is a HERS RATER C The flouse was as the HERS rater liagnostic tested of The Installer THERMOSTA Access is prov	n approved HERS provider by the California OMPLIANCE STATEMENT Tested Approved as part of sample te providing diagnostic testing and field verification, compliance requirements as checked on this form, has provided a copy of the CI-5R (Installation Ce TIC EXPANSION VALVE (TXV);	Energy Commission. sting, but was not tested. I certify that the house identified on this form contificate). Ill consist of visual verification that the	mplies with the



OEVELOPMENT SERVICES DIVISION

FAXED PERMIT APPLICATION (certain restrictions apply)

Fax # 916-264-1901

Faxed request must be received in this office by 3:00 p.m. to be processed the following work day.

Note: Contractors must have a current certificate of Worker's Compensation Insurance.
Note: Work started before a Building Permit is issued will be subject to quad fees.

IN ORDER TO PROCESS THIS REQUEST, ALL THE FOLLOWING INFORMATION MUST BE PROVIDED:

	CES 7585	7776-	2000 Jap. Lie 2000 A 95748 FAX: 638 - 8728		SAFETY INSPECTION* (Residential and single apartment omits ONLY)	CI SMUD	*NOTE: Correction Notice items	veit require an additional building permit	
gi COMMERCIAL (fimited)		SCONTACT PHONE: 638-345	Contractor: M. C. W. Howe Jr. C. J. Address: 3196 Sunsaise 31 de 3748 City/State/Zip: Phone: 638-2455 FAX: 638-8 F7		MINOR ELECTRIC and/or MINOR PLUMBING (residential ONLY)	D Electric Service Change # amps D New electric circuits D Re-wire	Water Service Replacement Sewer Service Replacement O Sewer Service Replacement O Cost inc the replacement	- C Re-plants	0 - 00 -
APARTMENTS (4+.units per building) COMMERCIAL (fimited)	* Unit#	Phy.	Contractor: Address: 5 City/State/Z Phone: 63		WATER IIEATER (residential ONLY) CAS ELECTRIC	Change-out Electric to Gas Relocate New	Cost of equipment:		t grow to
A RESIDENTIAL O AP	Paun Ca	⇒ CONTACT PERSON: Vat Calah	Le Gevi P.C.L. A. C.S. GA 95823 .	Indicate from the selections below	MAYAC INSTALLATIONS (residential ONLY) CETANGE-OUT PONEW	☐ Package WSplit system ☐ Roof mount ☐ Cut-in	Value of duet work:: Equipment: \$ 5500	Note: Design Review approval may be required	1KO10 Sput Uex
	JOB ADDRESS: 4020 PALLA	⊕ CONTACT PE	Property Owner: Cole Ule Gezipling Address: 40 ap Pauro Cra City/State/Zip: Sheek Ga GS 823 Phone 916) 422-22.13	NATURE OF REQUEST:	C REROOF (excluding title) C TEAR-OF	#SQUARES Material: SIDING	O stucco	Note: Besign Keview approval may be required.	DESCRIPTION OF WORK CLO STUA LLEAT DULT

8166382451

9002/20/10

мпм

Facsimile Cover Sheet

MLW HOME IMPROVEMENTS, INC. 2990 Sunrise Blvd. # 3
Rancho Cordova, CA 95742
(800) 763-7489
(916) 638-2455
(916) 638-8728 Fax

Send To:	From:
Attention:	Date: 1-6-06
Fax Number:	

Total pages, including cover sheets

Message: Perund Cor

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Transcrip going expired orlorlow

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ACORD 25 (2001/08)

© ACORD CORPORATION 1988

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AU Insurance Services PO Box 3646 Omaha, NE 68103-0646 (877)234-4420			HOLDER.	ONLY AND CONFERS NO RIGHTS NOT AMEND HOLDER. THIS CERTIFICATE DOES NOT AMEND ALTER THE COVERAGE AFFORDED BY THE POL			
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			INSURERS AFFORDING COVERAGE			NAIC #	
			INSURER & California Insurance Company				
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MLW Home Improvements, Inc. 2990 Sunrise Boulevard #3 Rancho Cordova, CA 95742			INSURER R:	INSURER R:			
			INSURER C:				
			INSURER D:				
•••	•	CTL 1273 273842	INSURER E:				
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JO:) Nome Improvements, 19 0 Sunrise Boulevard #.	3.,	DATE THEREOF				
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