					CH-21-HERS	
	ct Leakage Test – Existing Duct System Address:	1	Enforcement Agency:	Permit Numbe	(Page 1 of 2)	
Ent	er the Duct System Name or Identification/Ta	ıg:				
Ent	er the Duct System Location or Area Served:					
Not	e: Submit one Installation Certificate for each	h duct system	that must demonstrate com	pliance in the dwe	elling.	
	s installation certificate is required for compli ditioning systems and duct systems.	iance for alter	ations and additions in exi.	sting dwellings to	space	
duc con	e: For existing dwellings, a completely new of t system (e.g., register boots, air handler, coil apletely new or replacement duct system insta kage Test – Completely New or Replacement	l, plenums, etc lled in an exis	.) if those parts are accessi ting dwelling, use the Insta	ble and they can b	e sealed. For a	
	ct Leakage Diagnostic Test – Existing Duct					
	ect one compliance method from the followin Option 1. Measured leakage less than 15% of	•	.			
	Option 2. Measured leakage to outside less that		Airflow			
	Option 3. Reduce leakage by 60% or more, an			la lanks		
				ie ieaks.		
	Option 4. Fix all accessible leaks using smoke test, and HERS rater must verify. ote: (Option 1 must be attempted before utilizing Option 4)					
	termine nominal Fan Airflow using one of the Cooling system method: Size of condenser in	_		M		
	Heating system method: 21.7 x					
	Measured system airflow using RA3.3 airflow					
	Option 1 used then:					
1	Allowed leakage = Fan Airflow		x 0.15 =	CFM		
1	Actual leakage =		tual laakaga ig lagg than	Allowed lookees	☐ Pass ☐ Fail	
	Option 2 used then:	rass II AC	tual leakage is less than A	Miloweu leakage	L Fass L Faii	
2	Allowed leakage = Fan Airflow		_ x 0.10 =	CFM		
2	Actual leakage to outside =	='				
	Option 3 used then:	Actual leaka	ge to outside is less than A	Allowed leakage	☐ Pass ☐ Fail	
	Initial leakage prior to start of work=	CFN	Л			
3	Final leakage after sealing all accessible lea	ıks using smol	ce test =C	FM		
	Initial leakage Final leakage	e	= Leakage reduction	CFM		
	(Leakage reduction/ Initial le	eakage) x 100% = % Reduc	etion		
			Pass if % R	eduction ≥ 60%	☐ Pass ☐ Fail	
4	Option 4 used then: All accessible leaks repaired using smoke to	est. HERS rat	er must verify (No samplin	g).		
	Pass if	all accessible	leaks have been sealed us	sing Smoke Test	□ Pass □ Fail	
	istration Number: 8 Residential Compliance Forms	Registration	Date/Time:	HERS Provide	r: August 2009	

INSTALLATION CERTIFICAT	TE .		CF-6R-MECH-21-HERS			
Duct Leakage Test – Existing Du	ct System		(Page 2 of 2)			
Site Address:		Enforcement Agency:	Permit Number:			
□ Outside air (OA) ducts for Central Fan Integrated (CFI) ventilation systems, shall not be sealed/taped off during duct leakage testing. CFI OA ducts that utilize controlled motorized dampers, that open only when OA ventilation is required to meet ASHRAE Standard 62.2, and close when OA ventilation is not required, may be configured to the closed position during duct leakage testing.						
\square All supply and return register boots must be sealed to the drywall if smoke test is utilized for compliance – applies to duct leakage compliance option 3 (leakage reduction by 60%) and option 4 (fix all accessible leaks) described above.						
☐ New duct installations cannot utiliz	ze building cavities as ple	enums or platform returns in l	ieu of ducts.			
☐ Mastic and draw bands must be used in combination with cloth backed rubber adhesive duct tape to seal leaks at all new duct connections.						
I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for construction, or an authorized representative of the person responsible for construction (responsible person). I certify that the installed features, materials, components, or manufactured devices identified on this certificate (the installation) conforms to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcement agency. I understand that a HERS rater will check the installation to verify compliance, and that that if such checking identifies defects, I am required to take corrective action at my expense. I understand that Energy Commission and HERS provider representatives will also perform quality assurance checking of installations, including those approved as part of a sample group but not checked by a HERS rater, and if those installations fail to meet the requirements of such quality assurance checking, the required corrective action and additional checking/testing of other installations in that HERS sample group will be performed at my expense.						
 I reviewed a copy of the Certificate of Compliance (CF-1R) form approved by the enforcement agency that identifies the specific requirements for the installation. I certify that the requirements detailed on the CF-1R that apply to the installation have been met. I will ensure that a completed, signed copy of this Installation Certificate shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a signed copy of this Installation Certificate is required to be included with the documentation the builder provides to the building owner at occupancy. I will ensure that all Installation Certificates will come from a HERS provider data registry for multiple orientation alternatives, and beginning October 1, 2010, for all low-rise residential buildings. 						
Company Name: (Installing Subcontractor or General Contractor or Builder/Owner)						
Responsible Person's Name:		Responsible Person's Signature:				
CSLB License:	Date Signed:	Position With Company (Title):				
Is this installation monitored by a Third Pa Program (TPQCP)?	rty Quality Control ☐Yes ☐No	Name of TPQCP (if applicable):				

_ Registration Date/Time: _____

__ HERS Provider: _