DOCKETED		
Docket Number:	15-BSTD-02	
Project Title:	Residential Compliance Manual and Documents	
TN #:	232820-19	
Document Title:	cument Title: 2016-CF3R-ENV-22-CeilingAirBarrierpdf	
Description:	Description: N/A	
Filer:	Corrine Fishman	
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STATE OF CALIFORNIA AIR INFILTRATION SEALING – CEILING/ROOF DECK

CEC-CF3R-ENV-22-H (Revised 09/18) CERTIFICATE OF VERIFICATION CALIFORNIA ENERGY COMMISSION

CF3R-ENV-22-H

Quality Insulation Installation (QII) - Air Infiltration Sealing - Cei	(Page 1 of 2)	
Project Name:	Enforcement Agency:	Permit Number:
Dwelling Address:	City:	Zip Code:

For typical vented attics where the insulation is at the roof deck/ceiling the air barrier must be verified after the ceiling drywall is installed and before attic insulation is installed. If spray polyurethane foam (SPF) will be used in the attic this can be considered the air barrier. Soffits and chases must be covered, and chimneys and flues require metal flashing. For buildings with an unvented attic, all air sealing requirements appropriate for the roof must be verified.

A. C	eiling Inspection – Vented Attic	S		
01	There is a continuous air barrier at the ceiling level. All openings into walls, drops, chasses, or double walls are sealed. Examples are below.			
02	Chimneys and flues require sheet metal flashing. The flashing shall be sealed to the chimney/flue with fire rated caulk. The flashing shall be sealed to the surrounding framing.			
03	All penetrations through the top plate of interior and exterior walls are sealed.			
04	All penetrations shall be sealed to the surrounding drywall or have a secondary air barrier created around the fixture; with the exception of fire sprinklers.			
05	All installed recessed light fixtures that penetrate the ceiling to unconditioned space, or where insulation is present, are rated to be Insulation Contact and Airtight (IC and AT) which allows direct contact with insulation. The housing is sealed to the drywall.			
06	Exhaust fan housing is sealed to the surrounding drywall and all holes and seams in the housing are sealed.			
07	All soffits and chases are covered with a hard cover that is sealed to the framing with caulk or foam.			
08	Double walls that open to the attic are covered and the cover is sealed to the framing.			
09	Attic access forms an airtight seal between conditioned space and unconditioned space. Vertical attic access requires mechanical compression using screws or latches.			
10	Knee walls require solid and sealed blocking at the bottom, top, left, and right sides. When the knee wall is placed on top of a subfloor the open cavity between the subfloor and the ceiling below is sealed.			
11	Where HVAC ducts travel down a chase, the chase is sealed at the ceiling level.			
12	HVAC boots that penetrate the ceiling are sealed to the surrounding drywall.			
13	All top plates of interior and exterior walls are sealed to drywall.			
14	Attic access must be surrounded with a dam at least the same depth as the insulation to prevent loss of ceiling insulation.			
15	There must be a dam placed at th	e exterior edge of all knee walls and at all edges of insulation to stop air movement through the insulation.		
16	Verification Status:	 Pass - all applicable requirements are met; or Fail - one or more applicable requirements are not met. Enter reason for failure in corrections notes field below; or All N/A - This entire table is not applicable. 		
17	Correction Notes:	1 10 69		
The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met unless otherwise noted in the Verification Status and the Corrections Notes in this table.				

barrier at the roof deck and gable ends. lire sheet metal flashing at the roof deck. The flashing is sealed to the chimney/flue with fire rated caulk. The surrounding framing. hbing, electrical, etc. in the roof deck and gable ends are sealed. Pass - all applicable requirements are met; or		
surrounding framing. hbing, electrical, etc. in the roof deck and gable ends are sealed.		
Pass - all applicable requirements are met; or		
 Fail - one or more applicable requirements are not met. Enter reason for failure in corrections notes field below; or All N/A - This entire table is not applicable. 		
Correction Notes:		
na		

C. Determination of HERS Verification Compliance All applicable sections of this document shall indicate compliance with the specified verification protocol requirements in order for this Certificate of Verification as a whole to be determined to be in compliance. 01

STATE OF CALIFORNIA AIR INFILTRATION SEALING – CEILING/ROOF DECK

CEC-CF3R-ENV-22-H (Revised 09/18)

CALIFORNIA ENERGY COMMISSION

CER	CERTIFICATE OF VERIFICATION CF3R-ENV-22-H				
Quality Insulation Installation (QII) - Air Infiltration Sealing - Ceiling/Roof Deck(Page 2 of 2)					
Project Name: E		Enforcement Agency:	Permit Number:		
Dwelli	ng Address:	City:	Zip Code:		
			•		
DOC	CUMENTATION AUTHOR'S DECLARATION STATEMENT				
1. I	certify that this Certificate of Verification documentation is accur	ate and complete.			
Docu	mentation Author Name:	Documentation Author Signature:			
Comp	bany:	Date Signed:			
Addre	25S:	CEA/HERS Certification Information (if applicab	le):		
City/S	State/Zip:	Phone:			
RES	PONSIBLE PERSON'S DECLARATION STATEMENT				
	rtify the following under penalty of perjury, under the laws of the	State of California:			
1.	The information provided on this Certificate of Verification is true				
2.	I am the certified HERS Rater who performed the verification ide		Verification (responsible rater).		
3.	The installed features, materials, components, manufactured dev				
	verification identified on this Certificate of Verification comply w	ith the applicable requirements in Refere	nce Appendices RA2, RA3, and the		
	requirements specified on the Certificate of Compliance for the k	ouilding approved by the enforcement ag	ency.		
4.	The information reported on applicable sections of the Certificat	e(s) of Installation (CF2R) signed and sub	mitted by the person(s)		
	responsible for the construction or installation conforms to the r	equirements specified on the Certificate(s) of Compliance (CF1R) approved		
	by the enforcement agency.				
5.	I will ensure that a registered copy of this Certificate of Verification		• • • •		
	the building, and made available to the enforcement agency for a				
	Certificate of Verification is required to be included with the doc	umentation the builder provides to the bu	uilding owner at occupancy.		
BUILDER OR INSTALLER INFORMATION AS SHOWN ON THE CERTIFICATE OF INSTALLATION					
Company Name (Installing Subcontractor, General Contractor, or Builder/Owner):					
Resp	onsible Builder or Installer Name:	CSLB License:	CSLB License:		
HERS PROVIDER DATA REGISTRY INFORMATION					
Samp	ble Group Number (if applicable):	Dwelling Test Status in Sample Group (if applie	cable):		
HERS RATER INFORMATION					
HERS Rater Company Name:					
Responsible Rater Name: Responsible Rater Signature:					
Responsible Rater Certification Number w/ this HERS Provider:		Date Signed:			

CF3R-ENV22-H User Instructions

A. Ceiling Inspection – Vented Attics

16. HERS Rater to select from list:

- a. Pass all applicable requirements are met.
- b. Fail one or more applicable requirements are not met. Rater must enter reason for failure in corrections notes field below.
- c. <u>All N/A</u> This entire table is not applicable.
- 17. Correction Notes, Rater must enter reason for failure.

B. Roof Inspection – Unvented attics

- 4. HERS Rater to select from list:
 - a. <u>Pass</u> all applicable requirements are met.
 - b. Fail one or more applicable requirements are not met. Rater must enter reason for failure in corrections notes field below.
 - c. <u>All N/A</u> This entire table is not applicable.
- 5. Correction Notes, Rater must enter reason for failure.