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CALIFORNIA ENERGY COMMISSION

CEC-CF2R-MCH-27b-H (Revised 09/18) CERTIFICATE OF INSTALLATION

CF2R-MC	H-	27	-H
(Page	1	of	5)

Indoor Air Quality and Mechanical Ventilation	(Page 1 d		
Project Name:	Enforcement Agency:	Permit Number:	
Dwelling Address:	City:	Zip Code:	

Title 24, Part 6, Section 150.0(o) **Ventilation for Indoor Air Quality.** All dwelling units shall meet the requirements of ANSI/ASHRAE Standard62.2. Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings. *Equation and table numbering on this form corresponds to the numbering for that information in the published ANSI/ASHRAE Standard 62.2-2010.*

A. Dwe	elling Mechanical Ventilation - General Information	
01	Dwelling Unit Name	
02	Building Type	
03	Project Scope	
	Total Conditioned Floor Area of Dwelling Unit	
04	(For addition projects the conditioned floor area equals	
	existing area plus addition area)	
	Number of Bedrooms in Dwelling Unit	
05	(For addition projects the number of bedrooms equals the	
	existing bedrooms plus addition bedrooms)	
06	Ventilation Operation Schedule	
07	Whole-Building Ventilation Rate Calculation Method	
08	Whole Building Ventilation System Type	
09	IAQ Fan Location	
Note:		
note.		

Non-dwelling units do not meet the definition for a dwelling unit as defined in Section 100.1(b). Non-dwelling units are not designed to provide independent living facilities and do not provide permanent provisions for living, sleeping, eating, cooking and sanitation.

MCH-27b - Continuous Ventilation Airflow - Total Ventilation Rate Method

D 14/		
	ole-Building Continuous Ventilation - Total Ventilation F	
A mec	hanical supply system, exhaust system, or combination thereof	shall provide whole-building ventilation with outdoor air each hour at no less
than t	he rate in 62.2 equation 4.7.	
01	Total Required Ventilation Rate (fan + infiltration), (Q _{tot})	
02	CFM50 – Depressurization	
03	Equivalent Leakage Area Depressurization	
04	CFM50 – Pressurization	ç
05	Equivalent Leakage Area Pressurization	
06	Equivalent Leakage Area used for Ventilation	
07	What is the vertical distance from the lowest above-grade	
07	floor to the highest ceiling in feet?	
08	What is the weather and shielding factor (wsf) for the city	
08	listed in 62.2 Appendix X Table X1 ?	
09	Normalized Leakage (NL)	
10	Ventilation Provided by Infiltration (Q _{inf})	
11	Required Continuous Whole-Building Ventilation Rate (Q _{fan})	
12	Installed Continuous Whole-Building Ventilation Rate	

C. Cor	mpliance Statement
01	

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CALIFORNIA ENERGY COMMISSIO

CERTIFICATE OF INSTALLATION		CF2R-MCH-27-H
Indoor Air Quality and Mechanical Ventilation		(Page 2 of 5)
Project Name:	Enforcement Agency:	Permit Number:
Dwelling Address:	City:	Zip Code:
D. Local Mechanical Exhaust System – Fan Selection and Du	ct Design Criteria for Compliance	

Local mechanical exhaust fans shall be installed in each kitchen and bathroom. Delivered local ventilation rates:

All local ventilation rates have been measured using a flow hood, flow grid, or other airflow measuring device and meet the requirements of 62.2 Tables 5.1 or 5.2; OR

Table 5.1

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D.

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Application	Airflo	w	Notes					
Kitchen	100 c	fm	Vented range hood (including appliance-range hood combinations) required if exhaust fan flow less than 5 ACH.					
Bathroom	50 cfm			0				
Table 5.2						2		
Continuous Local Ver	tilation Exhaus	t Airflow Ra	tes					
Application	Airflo	w			Note	s		
Kitchen	5 AC	CH .	Based on kitchen v	olume.			20	
Bathroom	20 ct	fm				A	~	
Table 5.3				100	2	SV.		
Prescriptive Duct Sizi	ng Requirement	ts		\sim				
Duct Type		F	lex Duct	XO.		Smoot	th Duct	
Fan Rating cfm @				Ś		·		
0.25 in. w.g.	50	80	100	125	50	80	100	125
			М	aximum Allowal	ole Duct Length (ft)		
Diameter, (in)		F	lex Duct	. C.	0	Smoot	th Duct	
3	Х	Х	x	Х	5.0	х	Х	Х
4	70	3	Х	X	105	35	5	Х
4		70	35	20	NL	135	85	55
5	NL	70						I
-	NL NL	NL	125	95	NL	NL	NL	145

NL = no limit on duct length of this size.

FOL .. NC

X = not allowed, any length of duct of this size with assumed turns, elbows, fittings will exceed the rated pressure drop.

The airflow rating at a pressure of 0.25 in. w.c. of a certified fan is assumed because the local ventilation system duct sizing meets the prescriptive requirements of 62.2 Table 5.3, or manufacturer's design criteria.

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Indoor Air Quality and Mechanical Ventilation		(Page 3 of 5)
Project Name:	Enforcement Agency:	Permit Number:
Dwelling Address:	City:	Zip Code:

E. Other Requirements
The items listed below (6.1 through 6.8) correspond to the information given in ASHRAE 62.2 Section 6 "Other Requirements". Refer also to Chapter
4.6 of the Residential Compliance Manual (Section 4.6.5) for information describing these "Other Requirements". The signature of the Responsible
Person in the declaration statement below certifies that the building complies with these requirements specified in ASHRAE 62.2 Section 6.1 through
6.9 if applicable.
6.1 Transfer Air. Measures shall be taken to minimize air movement across envelope components to occupiable spaces from garages,
01 unconditioned crawl spaces, and unconditioned attics. Supply and balanced ventilation systems shall be designed and constructed to
provide ventilation air directly from the outdoors.
6.2 Instructions and Labeling. Information on the ventilation design and/or ventilation systems installed, instructions on their proper
operation to meet the requirements of this standard, and instructions detailing any required maintenance (similar to that provided
02 for HVAC systems) shall be provided to the owner and the occupant of the dwelling unit. Controls shall be labeled as to their function
(unless that function is obvious, such as toilet exhaust fan switches). See Chapter 13 of Guideline 24 ² for information on instructions
and labeling.
03 6.3 Clothes Dryers. Clothes dryers shall be exhausted directly to the outdoors.
6.4 Combustion and Solid-Fuel Burning Appliances. Combustion and solid-fuel burning appliances must be provided with adequate
combustion and ventilation air and vented in accordance with manufacturer's installation instructions, NFPA 54/ANSI Z223.1, National
Fuel Gas Code, NFPA 31, Standard for the Installation of Oil-Burning Equipment, or NFPA 211, Standard for Chimneys, Fireplaces,
Vents, and Solid-Fuel Burning Appliances, or other equivalent code acceptable to the building official.
04
Where atmospherically vented combustion appliances or solid-fuel burning appliances are located inside the pressure boundary, the
total net exhaust flow of the two largest exhaust fans (not including a summer cooling fan intended to be operated only when
windows or other air inlets are open) shall not exceed 15 cfm/100 ft ² (75 Lps/100 m ²) of occupiable space when in operation at full
capacity. If the designed total net flow exceeds this limit, the net exhaust flow must be reduced by reducing the exhaust flow or
providing compensating outdoor airflow. Atmospherically vented combustion appliances do not include direct-vent appliances.
6.5 Garages. When an occupiable space adjoins a garage, the design must prevent migration of contaminants to the adjoining occupiable
space. Air seal the walls, ceilings, and floors that separate garages from occupiable space. To be considered air sealed, all joints,
05 seams, penetrations, openings between door assemblies and their respective jambs and framing, and other sources of air leakage
through wall and ceiling assemblies separating the garage from the residence and its attic area shall be caulked, gasketed, weather
stripped, wrapped, or otherwise sealed to limit air movement. Doors between garages and occupiable spaces shall be gasketed or made substantially airtight with weather stripping
made substantially airtight with weather stripping. 6.6 Ventilation Opening Area. Spaces shall have ventilation openings as listed below. Such openings shall meet the requirements of
06 Section 6.8.
6.7 Minimum Filtration. Mechanical systems that supply air to an occupiable space through ductwork exceeding 10 ft (3 m) in length and
through a thermal conditioning component, except evaporative coolers, shall be provided with a filter having a designated minimum
efficiency of MERV 6, or better, when tested in accordance with ANSI/ASHRAF Standard 52.2. Method of Testing General Ventilation
07 Air-Cleaning Devices for Removal Efficiency by Particle Size, or a minimum Particle Size Efficiency of 50% in the 3.0-10 μm range in
accordance with AHRI Standard 680, Performance Rating of Residential Air Filter Equipment. The system shall be designed such that
all recirculated and mechanically supplied outdoor air is filtered before passing through the thermal conditioning components. The
filter shall be located and installed in such a manner as to facilitate access and regular service by the owner.
6.8 Air Inlets. Air inlets that are part of the ventilation design shall be located a minimum of 10 ft (3 m) from known sources of
08 contamination such as a stack, vent, exhaust hood, or vehicle exhaust. The intake shall be placed so that entering air is not obstructed
by snow, plantings, or other material. Forced air inlets shall be provided with rodent/insect screens (mesh not larger than 1/2 inch).
6.9 Carbon Monoxide Detectors. A carbon monoxide alarm shall be installed in each dwelling unit in accordance with NFPA 720,
09 Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment14, and shall be consistent with
requirements of applicable laws, codes, and standards.
The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

CEC-CF2R-MCH-27b-H (Revised 09/18) CERTIFICATE OF INSTALLATION CALIFORNIA ENERGY COMMISSION

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Indoor Air Quality and Mechanical Ventilation		(Page 4 of 5)
Project Name:	Enforcement Agency:	Permit Number:
Dwelling Address:	City:	Zip Code:

F. Air Moving Equipment

01

The items listed below (7.1 through 7.3) correspond to the information given in ASHRAE 62.2 Section 7 "Air-Moving Equipment". Refer also to Chapter 4.6 of the Residential Compliance Manual (Section 4.6.6) for information describing these requirements in more detail. The signature of the Responsible Person in the declaration statement below certifies that the building complies with these requirements specified in ASHRAE 62.2 Section 7.1 through 7.3 if applicable.

01	7.1 Selection and Installation. Ventilation devices and equipment shall be tested and listed in accordance with specific standards. Installations of systems or equipment shall be carried out in accordance with manufacturers' design requirements and installation instructions.
02	 7.2 Sound Ratings for Fans. Ventilation fans shall be rated for sound at no less than the minimum airflow rate required by this standard, as noted below. These sound ratings shall be at a minimum of 0.1 in. w.c. (25 Pa) static pressure. 7.2.1 Whole-Building or Continuous Ventilation Fans. These fans shall be rated for sound at a maximum of 1.0 sone. 7.2.2 Intermittent Local Exhaust Fans. Fans used to comply with Section 5.2 shall be rated for sound at a maximum of 3 sone, unless their maximum rated airflow exceeds 400 cfm (200 L/s). (Some exceptions may apply.)
03	7.3 Multibranch Exhaust Ducting. If more than one of the exhaust fans in a dwelling unit shares a common exhaust duct, each fan shall be equipped with a back-draft damper to prevent the recirculation of exhaust air from one room to another through the exhaust ducting system.

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

G. Multifamily Buildings - Other Requirements

The items listed below correspond to the information given in ASHRAE 62.2 Section 8 "Multifamily Buildings". Refer also to Chapter 4.6 of the Residential Compliance Manual (Section 4.6.5) for information describing these requirements in more detail. The signature of the Responsible Person in the declaration statement below certifies that the building complies with these requirements specified in ASHRAE 62.2 Section 8, if applicable.

- 8.2 Whole-Building Mechanical Ventilation. For multifamily buildings, the term "building" in Section 4 refers to a single dwelling unit.
 8.4.1 Transfer Air. Measures shall be taken to minimize air movement across envelope components separating dwelling units, including sealing penetrations in the common walls, ceilings, and floors of each unit and by sealing vertical chases adjacent to the units. All doors between dwelling units and common hallways shall be gasketed or made substantially airtight.
- **8.4.1.1 Compliance.** One method of demonstrating compliance with Section 8.4.1 shall be to verify a leakage rate below a maximum of 0.2 cfm/ft² (100 L/s per 100 m²) of the dwelling unit envelope area (i.e., the sum of the area of the walls between dwelling units, exterior walls, ceiling and floor) at a test pressure of 50 Pa by a blower door test. The test shall be conducted with the dwelling unit as
- if it were exposed to outdoor air on all sides, top, and bottom by opening doors and windows of adjacent dwelling units.
- 8.5.1 Exhaust Ducts. Exhaust fans in separate dwelling units shall not share a common exhaust duct. Exhaust inlets from more than one dwelling unit may be served by a single exhaust fan downstream of all the exhaust inlets if the fan is designated and intended to run continuously or if each inlet is equipped with a back-draft damper to prevent cross-contamination when the fan is not running.
 8.5.2 Supply Ducts. Supply outlets to more than one dwelling unit may be served by a single fan upstream of all the supply outlets if the

fan is designed and intended to run continuously or if each supply outlet is equipped with a back-draft damper to prevent crosscontamination when the fan is not running.

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

CEC-CF2R-MCH-27b-H (Revised 09/18) CERTIFICATE OF INSTALLATION CALIFORNIA ENERGY COMMISSION

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Indoor Air Quality and Mechanical Ventilation			
Project Name:	Enforcement Agency:	Permit Number:	
Dwelling Address:	City:	Zip Code:	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT					
1. I certify that this Certificate of Installation documentation is accurate and complete.					
Documentation Author Name:	Documentation Author Signature:				
Documentation Author Company Name:	Date Signed:				
Address:	CEA/HERS Certification Identification (if applicable):				
City/State/Zip:	Phone:				

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- 1. The information provided on this Certificate of Installation is true and correct.
- 2. I am either: a) a responsible person eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction, or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Installation and attest to the declarations in this statement, or b) I am an authorized representative of the responsible person and attest to the declarations in this statement on the responsible person's behalf.
- 3. The constructed or installed features, materials, components or manufactured devices (the installation) identified on this Certificate of Installation conforms to all applicable codes and regulations and the installation conforms to the requirements given on the Certificate of Compliance, plans, and specifications approved by the enforcement agency.
- 4. I understand that a HERS rater will check the installation to verify compliance and if such checking determines the installation fails to comply, I am required to offer any necessary corrective action at no charge to the building owner.
- I will ensure that a registered copy of this Certificate of Installation 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 registered copy of this Certificate of Installation is required to be included with the documentation the builder provides to the building owner at occupancy.
 Responsible Builder/Installer Name:

Responsible builder/installer Nati			ing instance.	
Company Name: (Installing Subco	ontractor or General Contractor or Builder/Owner)	Position With Company (Title):		
Address:	2. VIX.	CSLB License:		
City/State/Zip:	~~~ <i>7</i> / /.	Phone:	Date Signed:	
Third Party Quality Control Progra	am (TPQCP) Status:	Name of TPQCP (if applicable):	:	
orinio	Jot Var HER			
UN.				

CERTIFICATE OF INSTALLATION - USER INSTRUCTIONS

CF2R-MCH-27b-H User Instructions

Section A. General Information

6

- 1 This information is automatically pulled from the CF1R. This is the unique identifier for this dwelling unit. Needed mostly for multifamily dwelling units. Ventilation is calculated and provided for each dwelling unit individually.
- 2 This information is automatically pulled from the CF1R. Choices are "single family" and "low-rise multifamily".
- 3 This information is automatically pulled from the CF1R. Choices are "New Construction" and "Addition greater than 1,000 ft²".
- 4 Value to be entered in the field equals the conditioned floor area of the space for which the ventilation is being calculated, in ft². For additions over 1,000 ft², this will be the floor area of the existing home plus the addition.
- 5 Value to be entered in the field equals the number of bedrooms in the home. For additions over 1,000 ft², this will be the number of bedrooms in the addition.
 - Select the Ventilation Operation Schedule method used from the choices provided:
 - Continuous (the fan that provides ventilation will run 24/7)
 - Intermittent (the fan that provides ventilation will be on some of the time and off some of the time)
- 7 Select the Whole Building Ventilation Rate Calculation Method from the choices provided:
 - Fan Ventilation Rate Method (only assumes ventilation from the ventilation fan)
 - Total Ventilation Rate Method (assumes that some ventilation is provided by infiltration)
- 8 Select the Whole Building Ventilation System Type from the choices provided:
 - Standalone Exhaust (ventilation fan[s] push air out of the house)
 - Standalone Supply (ventilation fan[s] push air into house)
 - Standalone Balanced (ventilation fan[s] push air into AND out of the house in equal amounts)
 - Central Fan Integrated CFI (central space condition system fan is used to pull air into the house) Note: these may not run
 continuously. If "Continuous" is chosen in A06 an error message will be shown. These types of ventilation systems will trigger extra
 field verification and scrutiny by inspection personnel.
- 9 Enter the location in the residence where the IAQ fan is located.

Section B. Whole Building Continuous Ventilation – Total Ventilation Rate Method

1 This value is automatically calculated using 62.2 equation 4.2a. The equation used to calculate this value in the field equals:

- a. If A02= Single Family then [(0.03 x conditioned floor area A04) + 7.5(Number of bedrooms A05 + 1)] = Required Continuous Whole-Building Ventilation Rate
- b. If A02= Multifamily then [(0.05 x conditioned floor area A04) + 7.5(Number of bedrooms A05 + 1)] = Required Continuous Whole-Building Ventilation Rate
- 2 This information is automatically pulled from the registered MCH-24 for this dwelling unit. Note: The Total Ventilation Rate Method requires specific infiltration measurements that must be documented on a MCH-24.
- 3 This value is automatically calculated. The equation used to calculate this value in the field equals: (CFM50 B02 x 0.055)/144 = Equivalent Leakage Area (ELA)
- 4 This information is automatically pulled from the registered MCH-24 for this dwelling unit. Note: The Total Ventilation Rate Method requires specific infiltration measurements that must be documented on a MCH-24.
- 5 This value is automatically calculated. The equation used to calculate this value in the field equals: (CFM50 B04 x 0.055)/144 = Equivalent Leakage Area (ELA)
- 6 Calculated value. This is the average of the pressurization and depressurization Equivalent Leakage Areas.
- 7 User entered value. Enter the vertical distance from the lowest above-grade floor to the highest ceiling, in feet.
- 8 User entered value. Enter the Weather Shielding Factor (wsf) from 62.2 Appendix X Table X1.

NORMATIVE APPENDIX X:

INFILTRATION EFFECTIVENESS WEATHER AND SHIELDING FACTORS (WSF)

TABLE X1 U.S. Climates

ТМҮЗ	wsf	Weather Station	Latitude	Longitude	State
690150	0.5	Twentynine Palms	34.3	-116.17	California
722860	0.43	March AFB	33.9	-117.25	California
722868	0.45	Palm Springs Intl	33.83	-116.50	California
722869	0.42	Riverside Muni	33.95	-117.45	California
722880	0.39	Burbank–Glendale–Pasadena AP	34.2	-118.35	California
722885	0.39	Santa Monica Muni	34.02	-118.45	California
722886	0.39	Van Nuys Airport	34.22	-118.48	California
722895	0.55	Lompoc (AWOS)	34.67	-120.47	California
722897	0.51	San Luis Co Rgnl	35.23	-120.63	California
722899	0.45	Chino Airport	33.97	-117.63	California
722900	0.38	San Diego Lindbergh Field	32.73	-117.17	California

CERTIFICATE OF INSTALLATION - USER INSTRUCTIONS	
Indoor Air Quality and Mechanical Ventilation – MCH-27	7b

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NORMATIVE APPENDIX X: INFILTRATION EFFECTIVENESS WEATHER AND SHIELDING FACTORS (WSF) ΤA

ABLE X1 U.S. Climates	
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TMY3	wsf	Weather Station	TABLE X1 U.S. Climates Latitude		Longitude	State
722903	0.39	San Diego/Montgomery		32.82	-117.13	California
722904	0.4	Chula Vista Brown Field NAAS		32.58	-116.98	California
722906	0.39	San Diego North Island NAS		32.7	-117.20	California
722926	0.4	Camp Pendleton MCAS		33.3	-117.35	California
722927	0.38	Carlsbad/Palomar		33.13	-117.28	California
722930	0.39	San Diego Miramar NAS		32.87	-117.13	California
722950	0.42	Los Angeles Intl Arpt		33.93	-118.40	California
722956	0.38	Jack Northrop Fld H		33.92	-118.33	California
722970	0.38	Long Beach Daugherty Fld		33.83	-118.17	California
722976	0.34	Fullerton Municipal		33.87	A 10. (P10)	
722977	0.36	Santa Ana John Wayne AP		33.68	-117.87	California
723805	0.50	Needles Airport		34.77	-114.62	California
723810	0.59	Edwards AFB	~O`	34.9	-117.87	California
723815	0.58	Daggett Barstow–Daggett AP		34.85	-116.80	California
723816	0.62	Lancaster Gen Wm Fox Field	~?	34.73	-118.22	California
723820	0.57	Palmdale Airport		34.63	-118.08	California
723830	0.68	Sandberg	20	34.75	-118.72	California
723840	0.08	Bakersfield Meadows Field		35.43	-119.05	California
723840	0.45	Fresno Yosemite Intl AP	A	36.78	-119.05	California
723895	0.43	Porterville (AWOS)	N. 61-	36.03	-119.07	California
723895	0.42	Visalia Muni (AWOS)	1 0.0 s	36.32	-119.40	California
723910	0.45	Point Mugu Nf		34.12	-119.12	California
723910	0.45	Santa Barbara Municipal AP		34.43	-119.85	California
723925	0.44	Camarillo (AWOS)		34.43	-119.85	California
723920	0.45	Oxnard Airport	10° -1'	34.22	-119.08	California
723927	0.43	Santa Maria Public Arpt		34.92	-119.20	California
723940	0.52		V	35.67	-120.47	California
723903	0.55	Paso Robles Municipal Arpt Bishop Airport	~ 'O'	37.37	-120.03	California
724800	0.33	Merced/Macready Fld	55	37.28	-118.55	California
724815	100 10.	A	,0,)			California
724830	0.51 0.45	Sacramento Executive Arpt Beale AFB		38.5 39.13	-121.50 -121.43	California
724837	0.45	Yuba Co		39.15	-121.43	California
724838	0.51	Sacramento Metropolitan AP	*	38.7	-121.57	California
724839	0.31			36.6	-121.87	California
724913		Monterey Naf		36.67	-121.60	California
724917	0.54	Salinas Municipal AP		37.9	-121.80	California
		Stockton Metropolitan Arpt			-	
724926	0.47	Modesto City–County AP Livermore Municipal		37.63	-120.95	California
724927	0.53			37.7	-121.82	California
724930	0.54	Oakland Metropolitan Arpt		37.72 37.67	-122.22	California
724935	0.47	Hayward Air Term			-122.12	California
724936	0.53	Concord–Buchanan Field		38	-122.05	California
724940	0.6	San Francisco Intl AP		37.62	-122.40	California
724945	0.48	San Jose Intl AP		37.37	-121.93	California
724955	0.55	Napa Co. Airport		38.22	-122.28	California
724957	0.49	Santa Rosa (AWOS)		38.52	-122.82	California
725845	0.44	Blue Canyon AP		39.3	-120.72	California
725846	0.66	Truckee–Tahoe		39.32	-120.13	California
725847	0.64	South Lake Tahoe		38.9	-120.00	California
725905	0.47	Ukiah Municipal AP		39.13	-123.20	California
725910	0.5	Red Bluff Municipal Arpt 40.15		40.15	-122.25	California
725920	0.47	Redding Municipal Arpt 40.52 -	-122.	40.52	-122.32	California

CA Building Energy Efficiency Standards - 2016 Residential Compliance

Indoor Air Quality and Mechanical Ventilation - MCH-27b

NORMATIVE APPENDIX X Cont: INFILTRATION EFFECTIVENESS WEATHER AND SHIELDING FACTORS (WSF)

TABLE X1 U.S. Climates

TMY3	wsf	Weather Station	Latitude	Longitude	State
725945	0.56	Arcata Airport 40.98–124.10 California	40.98	-124.10	California
725946	0.6	Crescent City Faa Ai 41.78 –124.2	41.78	-124.23	California
725955	0.55	Montague Siskiyou County AP 41.78 –122.47 California	41.78	-122.47	California
725958	0.59	Alturas 41.50 –120.5	41.5	-120.53	California
745090	0.45	Mountain View Moffett Fld NAS	37.4	-122.05	California
745160	0.67	Travis Field AFB	38.27	-121.93	California
746120	0.52	China Lake Naf	35.68	-117.68	California
747020	0.5	Lemoore Reeves NAS	36.33	-119.95	California
747185	0.46	Imperial	32.83	-115.58	California
747187	0.46	Palm Springs Thermal AP	33.63	-116.17	California
747188	0.48	Blythe Riverside Co Arpt	33.62	-114.72	California

This value is automatically calculated using 62.2 equation 4.5. The equation used to calculate this value in the field equals: [1,000 x (Equivalent 9 Leakage Area (ELA) B06/ conditioned floor area A04) x (Vertical Distance B07/8.2)^0.4]= Normalized Leakage (NL)

10 This value is automatically calculated using 62.2 equation 4.6a. The equation used to calculate this value in the field equals: (Normalized Leakage (NL) B09 x conditioned floor area A04)/7.3= Ventilation Provided by Infiltration in CFM

This value is automatically calculated using 62.2 equation 4.7. It is the difference between the total required ventilation and the ventilation 11 provided by infiltration. The equation used to calculate this value in the field equals: (Required Continuous Whole-Building Ventilation Rate B01 - Ventilation Provided by Infiltration B10 = Required Continuous Whole-Building Ventilation Rate of the fan in CFM

12 User entered value equals the installed ventilation rate of the fan in CFM. This value will be field verified by enforcement personnel.