

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Edwards Estates Lots 2 and 3

Calculation Date/Time: 15:17, Thu, Mar 07, 2019

Calculation Description: Edwards Estates - v3

Input File Name: Edwards Estates - v3.ribd16

GENERAL INFORMATION					
01	Project Name	Edwards Estates Lots 2 and 3			
02	Calculation Description				
03	Project Location	Edwards Estates			
04	City	Modesto, CA	05	Standards Version	Compliance 2017
06	Zip Code	95350	07	Compliance Manager Version	BEMCmpMgr 2016.3.1 (1149)
08	Climate Zone	CZ12	09	Software Version	CBECC-Res 2016.3.1 (1019)
10	Building Type	Single Family	11	Front Orientation (deg/Cardinal)	Cardinal
12	Project Scope	Newly Constructed	13	Number of Dwelling Units	1
14	Total Cond. Floor Area (ft²)	1777	15	Number of Zones	1
16	Slab Area (ft²)	774	17	Number of Stories	2
18	Addition Cond. Floor Area(ft²)	n/a	19	Natural Gas Available	Yes
20	Addition Slab Area (ft²)	n/a	21	Glazing Percentage (%)	13.7%

COMPLIANCE RESULTS	
01	Building Complies with Computer Performance
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.
03	This building incorporates one or more Special Features shown below

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CF1R-PRF-01

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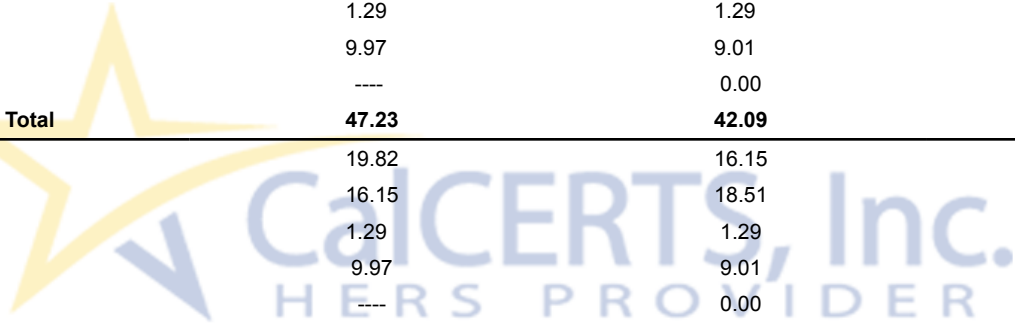
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ENERGY USE SUMMARY				
Energy Use (kTDV/ft ² -yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating	19.82	16.79	3.03	15.3%
Space Cooling	16.15	19.94	-3.79	-23.5%
IAQ Ventilation	1.29	1.29	0.00	0.0%
Water Heating	9.97	9.01	0.96	9.6%
PV Credit	----	0.00	0.00	----
North Facing Compliance Total	47.23	47.03	0.20	0.4%
Space Heating	19.82	17.69	2.13	10.7%
Space Cooling	16.15	14.10	2.05	12.7%
IAQ Ventilation	1.29	1.29	0.00	0.0%
Water Heating	9.97	9.01	0.96	9.6%
PV Credit	----	0.00	0.00	----
East Facing Compliance Total	47.23	42.09	5.14	10.9%
Space Heating	19.82	16.15	3.67	18.5%
Space Cooling	16.15	18.51	-2.36	-14.6%
IAQ Ventilation	1.29	1.29	0.00	0.0%
Water Heating	9.97	9.01	0.96	9.6%
PV Credit	----	0.00	0.00	----
South Facing Compliance Total	47.23	44.96	2.27	4.8%
Space Heating	19.82	14.81	5.01	25.3%
Space Cooling	16.15	17.46	-1.31	-8.1%
IAQ Ventilation	1.29	1.29	0.00	0.0%
Water Heating	9.97	9.01	0.96	9.6%
PV Credit	----	0.00	0.00	----
West Facing Compliance Total	47.23	42.57	4.66	9.9%



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ENERGY DESIGN RATING

Energy Design Rating (EDR) is an alternate way to express the energy performance of a building using a scoring system where 100 represents the energy performance of the Residential Energy Services (RESNET) reference home characterization of the 2006 International Energy Conservation Code (IECC) with California modeling assumptions. A score of zero represents the energy performance of a building that combines high levels of energy efficiency with renewable generation to "zero out" its TDV energy. Because EDR includes consideration of components not regulated by Title 24, Part 6 (such as domestic appliances and consumer electronics), it is not used to show compliance with Part 6 but may instead be used by local jurisdictions pursuing local ordinances under Title 24, Part 11 (CALGreen).

As a Standard Design building under the 2016 Building Energy Efficiency Standards is significantly more efficient than the baseline EDR building, the EDR of the Standard Design building is provided for information. Similarly, the EDR score of the Proposed Design is provided separately from the EDR value of installed PV so that the effects of efficiency and renewable energy can both be seen

	EDR of Standard Efficiency	EDR of Proposed Efficiency	EDR Value of Proposed PV + Battery	Final Proposed EDR
North	47.1	47.0	0.0	47.0
East	47.1	44.6	0.0	44.6
South	47.1	46.0	0.0	46.0
West	47.1	44.8	0.0	44.8

Design meets Tier 1 requirement of 15% or greater code compliance margin (CALGreen A4.203.1.2.1) and QII verification prerequisite.

Design meets Tier 2 requirement of 30% or greater code compliance margin (CALGreen A4.203.1.2.2) and QII verification prerequisite.

Design meets Zero Net Energy (ZNE) Design Designation requirement for Single Family in climate zone CZ12 (CALGreen A4.203.1.2.3) including on-site photovoltaic (PV) renewable energy generation sufficient to achieve a Final Energy Design Rating (EDR) of zero or less. The PV System and QII must be verified.

Notes:

- PV generation will be capped @ proposed design electric use (no battery)

REQUIRED SPECIAL FEATURES

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- Whole house fan
- Window overhangs and/or fins
- Non-standard duct location (any location other than attic)
- Recirculation with demand control, push button

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HERS FEATURE SUMMARY						
The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building components tables below.						
Building-level Verifications: <ul style="list-style-type: none"> • High quality insulation installation (QII) • IAQ mechanical ventilation Cooling System Verifications: <ul style="list-style-type: none"> • Minimum Airflow • Verified EER • Verified SEER • Verified Refrigerant Charge • Fan Efficacy Watts/CFM HVAC Distribution System Verifications: <ul style="list-style-type: none"> • Duct Sealing • Ducts located entirely in conditioned space confirmed by duct leakage testing Domestic Hot Water System Verifications: <ul style="list-style-type: none"> • -- None -- 						

BUILDING - FEATURES INFORMATION						
01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft ²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Edwards Estates Lots 2 and 3	1777	1	3	1	1	1

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Water Heating System 2
Living Area	Conditioned	HVAC System 1	1777	8.5	DHW System	n/a

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OPAQUE SURFACES							
01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window & Door Area (ft ²)	Tilt (deg)
Front_2x6ExtWall-Stucco	Living Area	2x6 Wall Stucco	0	Front	285	61	90
Right_2x6ExtWall-Stucco	Living Area	2x6 Wall Stucco	270	Right	780	140	90
Left_2x6ExtWall-Stucco	Living Area	2x6 Wall Stucco	90	Left	714	17.8089	90
Back_2x6ExtWall-Stucco	Living Area	2x6 Wall Stucco	180	Back	338	41	90
2x6 Left+45o Wall - Stucco	Living Area	2x6 Wall Stucco	125	- specify -	93	0	90
Front_2x4ToGarageWall	Living Area>>Garage	2x4 Wall to Garage	n/a	n/a	43	0	n/a
Left_2x4ToGarageWall	Living Area>>Garage	2x4 Wall to Garage	n/a	n/a	17	0	n/a
Front_2x6ToGarageWall	Living Area>>Garage	2x6 Wall to Garage	n/a	n/a	76	17.8	n/a
Right_2x4ToGarageWall	Living Area>>Garage	2x4 Wall to Garage	n/a	n/a	17	0	n/a
CLG_Living	Living Area	Ceiling below Attic	n/a	n/a	1072	n/a	n/a
FloorToOutside	Living Area	Floor to Outside	n/a	n/a	80	n/a	n/a
FloorToGarage	Living Area>>Garage	Floor to Garage	n/a	n/a	219	n/a	n/a
Left_GarExtWall-Stucco	Garage	Gar Ext Wall -Stucco	90	Left	170	0	90
Right_GarExtWall-Siding	Garage	Gar Ext Wall - Siding	270	Right	57	0	90
Front_GarExtWall-Stucco	Garage	Gar Ext Wall -Stucco	0	Front	115	63	90
Back_GarExtWall-Siding	Garage	Gar Ext Wall - Siding	180	Back	3	0	90
Right_GarExtWall-Stucco	Garage	Gar Ext Wall -Stucco	270	Right	113	24	90
Back_GarExtWall-Stucco	Garage	Gar Ext Wall -Stucco	180	Back	6	0	90
Front_GarExtWall-Siding	Garage	Gar Ext Wall - Siding	0	Front	17	0	90
CLG_Garage	Garage	Garage Ceiling below Attic	n/a	n/a	79	n/a	n/a

OPAQUE SURFACES – Cathedral Ceilings									
01	02	03	04	05	06	07	08	09	10
Name	Zone	Type	Orientation	Area (ft ²)	Skylight Area (ft ²)	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Cool Roof
Vaulted at Solatube Left	Living Area	Vaulted Ceiling for Solatube	Left	2	1.6	4	0.1	0.85	No
Vaulted at Solatube Right	Living Area	Vaulted Ceiling for Solatube	Right	2	1.6	4	0.1	0.85	No

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ATTIC							
01	02	03	04	05	06	07	08
Name	Construction	Type	Roof Rise	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof
Attic_Living	Roof Deck	Ventilated	4	0.1	0.85	Yes	No
Attic_Garage	Garage Roof Deck	Ventilated	4	0.1	0.85	Yes	No

FENESTRATION / GLAZING									
01	02	03	04	05	06	07	08	09	10
Name	Type	Surface (Orientation-Azimuth)	Width (ft)	Height (ft)	Multiplier	Area (ft ²)	U-factor	SHGC	Exterior Shading
4060_W14	Window	Front_2x6ExtWall-Stucco (Front-0)	----	----	1	24.0	0.32	0.25	Insect Screen (default)
3020_W7	Window	Front_2x6ExtWall-Stucco (Front-0)	----	----	1	6.0	0.32	0.25	Insect Screen (default)
3830_W2	Window	Front_2x6ExtWall-Stucco (Front-0)	----	----	1	11.0	0.32	0.25	Insect Screen (default)
4060_W15	Window	Right_2x6ExtWall-Stucco (Right-270)	----	----	1	24.0	0.32	0.25	Insect Screen (default)
4060_W13	Window	Right_2x6ExtWall-Stucco (Right-270)	----	----	1	24.0	0.32	0.25	Insect Screen (default)
6040_W12	Window	Right_2x6ExtWall-Stucco (Right-270)	----	----	1	24.0	0.32	0.25	Insect Screen (default)
4040_W11	Window	Right_2x6ExtWall-Stucco (Right-270)	----	----	1	16.0	0.32	0.25	Insect Screen (default)
4040_W10	Window	Right_2x6ExtWall-Stucco (Right-270)	----	----	1	16.0	0.32	0.25	Insect Screen (default)
6040_W9	Window	Right_2x6ExtWall-Stucco (Right-270)	----	----	1	24.0	0.32	0.25	Insect Screen (default)
4030_W6	Window	Right_2x6ExtWall-Stucco (Right-270)	----	----	1	12.0	0.32	0.25	Insect Screen (default)
2868_W4 with OH and SF	Window	Left_2x6ExtWall-Stucco (Left-90)	2.7	6.7	1	17.8	0.32	0.25	Insect Screen (default)
3030_W8 with OH and SF	Window	Back_2x6ExtWall-Stucco (Back-180)	3.0	3.0	1	9.0	0.32	0.25	Insect Screen (default)
4040_W3	Window	Back_2x6ExtWall-Stucco (Back-180)	----	----	1	16.0	0.32	0.25	Insect Screen (default)
4040_W0	Window	Back_2x6ExtWall-Stucco (Back-180)	----	----	1	16.0	0.32	0.25	Insect Screen (default)
Solatube	Skylight	Vaulted at Solatube Left (Left-90)			2	1.6	0.32	0.25	
Solatube-2	Skylight	Vaulted at Solatube Right (Right-270)			2	1.6	0.32	0.25	
4060_W16	Window	Right_GarExtWall-Stucco (Right-270)	----	----	1	24.0	0.32	0.25	Insect Screen (default)

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OPAQUE DOORS			
01	02	03	04
Name	Side of Building	Area (ft ²)	U-factor
3068_D5	Front_2x6ExtWall-Stucco	20.0	0.50
6828_D1	Front_2x6ToGarageWall	17.8	0.50
9070_D17	Front_GarExtWall-Stucco	63.0	1.00

OVERHANGS AND FINS													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Window	Overhang					Left Fin				Right Fin			
	Depth	Dist Up	Left Extent	Right Extent	Flap Ht.	Depth	Top Up	Dist L	Bot Up	Depth	Top Up	Dist R	Bot Up
2868_W4 with OH and SF	10	0.1	5	10	0	0	0	0	0	10	0.1	0.25	0
3030_W8 with OH and SF	8	0.1	4	4	0	8	0.1	4	0	8	0.1	4	0



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OPAQUE SURFACE CONSTRUCTIONS						
01	02	03	04	05	06	07
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Winter Design U-factor	Assembly Layers
2x6 Wall Stucco	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O.C.	R 19 in 5-1/2 in. cavity (R-18)	0.074	<ul style="list-style-type: none"> • Inside Finish: Gypsum Board • Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6 • Exterior Finish: 3 Coat Stucco
2x4 Wall to Garage	Interior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	R 13	0.092	<ul style="list-style-type: none"> • Inside Finish: Gypsum Board • Cavity / Frame: R-13 / 2x4 • Other Side Finish: Gypsum Board
2x6 Wall to Garage	Interior Walls	Wood Framed Wall	2x6 @ 16 in. O.C.	R 19 in 5-1/2 in. cavity (R-18)	0.069	<ul style="list-style-type: none"> • Inside Finish: Gypsum Board • Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6 • Other Side Finish: Gypsum Board
Floor to Garage	Interior Floors	Wood Framed Floor	2x12 @ 16 in. O.C.	R 19	0.044	<ul style="list-style-type: none"> • Floor Surface: Carpeted • Floor Deck: Wood Siding/sheathing/decking • Cavity / Frame: R-19 / 2x12 • Ceiling Below Finish: Gypsum Board
Floor to Outside	Exterior Floors	Wood Framed Floor	2x12 @ 16 in. O.C.	R 19	0.046	<ul style="list-style-type: none"> • Floor Surface: Carpeted • Floor Deck: Wood Siding/sheathing/decking • Cavity / Frame: R-19 / 2x12 • Exterior Finish: 3 Coat Stucco
Gar Ext Wall -Stucco	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	none	0.361	<ul style="list-style-type: none"> • Inside Finish: Gypsum Board • Cavity / Frame: no insul. / 2x4 • Exterior Finish: 3 Coat Stucco
Gar Ext Wall - Siding	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	none	0.302	<ul style="list-style-type: none"> • Inside Finish: Gypsum Board • Cavity / Frame: no insul. / 2x4 • Exterior Finish: Wood Siding/sheathing/decking
Ceiling below Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 16 in. O.C.	R 38	0.025	<ul style="list-style-type: none"> • Inside Finish: Gypsum Board • Cavity / Frame: R-9.1 / 2x4 • Over Ceiling Joists: R-28.9 insul.
Garage Ceiling below Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 16 in. O.C.	none	0.472	<ul style="list-style-type: none"> • Inside Finish: Gypsum Board • Cavity / Frame: no insul. / 2x4
Roof Deck	Attic Roofs	Wood Framed Ceiling	2x4 @ 16 in. O.C.	none	0.629	<ul style="list-style-type: none"> • Cavity / Frame: no insul. / 2x4 • Roof Deck: Wood Siding/sheathing/decking • Roofing: Light Roof (Asphalt Shingle)
Garage Roof Deck	Attic Roofs	Wood Framed Ceiling	2x4 @ 16 in. O.C.	none	0.629	<ul style="list-style-type: none"> • Cavity / Frame: no insul. / 2x4 • Roof Deck: Wood Siding/sheathing/decking • Roofing: Light Roof (Asphalt Shingle)

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Vaulted Ceiling for Solatube	Cathedral Ceilings	Wood Framed Ceiling	2x10 @ 24 in. O.C.	R 30	0.035	<ul style="list-style-type: none"> • Inside Finish: Gypsum Board • Cavity / Frame: R-30 / 2x10 • Roof Deck: Wood Siding/sheathing/decking • Roofing: Light Roof (Asphalt Shingle)
------------------------------	--------------------	---------------------	--------------------	------	-------	---

SLAB FLOORS						
01	02	03	04	05	06	07
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value & Depth	Carpeted Fraction	Heated
slab_Living	Living Area	774	114	None	0.8	No
slab_Garage	Garage	298	57	None	0	No

BUILDING ENVELOPE - HERS VERIFICATION			
01	02	03	04
Quality Insulation Installation (QII)	Quality Installation of Spray Foam Insulation	Building Envelope Air Leakage	CFM50
Required	Not Required	Not Required	n/a

WATER HEATING SYSTEMS					
01	02	03	04	05	06
Name	System Type	Distribution Type	Water Heater	Number of Heaters	Solar Fraction (%)
DHW System	DHW	Recirculation with demand control, push button	Tankless DHW (1)	1	n/a

WATER HEATERS											
01	02	03	04	05	06	07	08	09	10	11	12
Name	Heater Element Type	Tank Type	Number of Units	Tank Volume (gal)	Uniform Energy Factor / Energy Factor / Efficiency	Input Rating / Pilot / Thermal Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss / Recovery Eff	First Hour Rating / Flow Rate	NEEA Heat Pump Brand / Model / Other	Tank Location or Ambient Condition
Tankless DHW	Gas	Consumer Instantaneous (UEF)	1	0	0.93 UEF	<= 200 kBtu/hr	R-0/R-0	n/a	8 GPM	n/a	n/a

SPACE CONDITIONING SYSTEMS					
01	02	03	04	05	06
SC Sys Name	System Type	Heating Unit Name	Cooling Unit Name	Fan Name	Distribution Name
HVAC System 1	Other Heating and Cooling System	Carrier 59TP6A060	Condenser	HVAC Fan System 1	Distribution System 1

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HVAC - HEATING UNIT TYPES			
01	02	03	04
Name	System Type	Number of Units	Efficiency
Carrier 59TP6A060	CntrlFurnace	1	96 AFUE

HVAC - COOLING UNIT TYPES							
01	02	03	04	05	06	07	08
Name	System Type	Number of Units	Efficiency		Zonally Controlled	Compressor Type	HERS Verification
			EER	SEER			
Condenser	SplitAirCond	1	13	16	Zonally Controlled	Single Speed	Condenser-hers-cool

HVAC COOLING - HERS VERIFICATION					
01	02	03	04	05	06
Name	Verified Airflow	Airflow Target	Verified EER	Verified SEER	Verified Refrigerant Charge
Condenser-hers-cool	Required	275	Required	Required	Required

HVAC - DISTRIBUTION SYSTEMS						
01	02	03	04	05	06	07
Name	Type	Duct Leakage	Insulation R-value	Duct Location	Bypass Duct	HERS Verification
Distribution System 1	DuctsInAll	Sealed and tested	4.2	Conditioned zone	None	Distribution System 1-hers-dist

HVAC DISTRIBUTION - HERS VERIFICATION							
01	02	03	04	05	06	07	08
Name	Duct Leakage Verification	Duct Leakage Target (%)	Verified Duct Location	Verified Duct Design	Buried Ducts	Deeply Buried Ducts	Low-leakage Air Handler
Distribution System 1-hers-dist	Required	5.0	Required	Not Required	Not Required	Not Required	n/a

HVAC - FAN SYSTEMS			
01	02	03	04
Name	Type	Fan Power (Watts/CFM)	HERS Verification
HVAC Fan System 1	Single Speed PSC Furnace Fan	0.45	HVAC Fan System 1-hers-fan

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HVAC FAN SYSTEMS - HERS VERIFICATION		
01	02	03
Name	Verified Fan Watt Draw	Required Fan Efficiency (Watts/CFM)
HVAC Fan System 1-hers-fan	Required	0.45

IAQ (Indoor Air Quality) FANS					
01	02	03	04	05	06
Dwelling Unit	IAQ CFM	IAQ Watts/CFM	IAQ Fan Type	IAQ Recovery Effectiveness(%)	HERS Verification
SFam IAQVentRpt	48	0.25	Default	0	Required

COOLING VENTILATION					
01	02	03	04	05	06
Name	Airflow Rate (CFM/ft2)	Cooling Vent CFM	Cooling Vent Watts/CFM	Total Watts	Number of Fans
Tri Pro-4.8X	1.8345526167698367	3260	0.17	554	1



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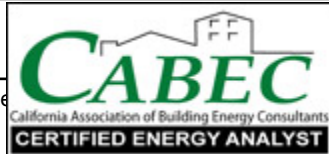
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Micaela McCraner	Documentation Author Signature: 
Company: DuctTesters, Inc.	Signature Date: 2019-03-11 09:39:37
Address: 336 West Main Street	CEA/HERS Certification Identification (If applicable) R16-18-20139
City/State/Zip: Ripon, CA 95366	Phone: 209-579-5000



RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California: 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance. 2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
Responsible Designer Name: Scott Pullen	Responsible Designer Signature: 
Company: HMR Architects	Date Signed: 2019-03-11 15:05:47
Address: 2130 21st Street	License: 24706
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