

**CERTIFICATE OF COMPLIANCE**

CF1R-PRF-01E

Project Name: 2019 Prototype EAA 1665ft2 R38 Verified Wall R11

Calculation Date/Time:

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Calculation Description:

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GENERAL INFORMATION						
01	Project Name	2019 Prototype EAA 1665ft2 R38 Verified Wall R11				
02	Run Title	Post WWII Era				
03	Project Location	1516 Ninth Street				
04	City	Sacramento	05	Standards Version	2019	
06	Zip code	95814	07	Software Version	CBECC-Res 2019.0.11 Alpha (1068)	
08	Climate Zone	12	09	Front Orientation (deg/ Cardinal)	0	
10	Building Type	Single family	11	Number of Dwelling Units	1	
12	Project Scope	Addition and/or Alteration	13	Number of Bedrooms	3	
14	New Cond. Floor Area (ft²)	225	15	Number of Stories	1	
16	Fenestration Average U-factor	0.32	17	Total Cond. Floor Area (ft²)	1665	
18	Glazing Percentage (%)	0.1309	19			

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.

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

BUILDING - FEATURES INFORMATION						
01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft <sup>2</sup> )	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
2019 Prototype EAA 1665ft2 R38 Verified Wall R11	1665	1	3	2	0	1

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ZONE INFORMATION						
01	02	03	04	05	06	07
Zone NameZone Name	Zone TypeZone Type	HVAC System Name	Zone Floor Area (ft <sup>2</sup> )	Avg. Ceiling Height	Water Heating System 1	Water Heating System 2
Existing	Conditioned	Existing HVAC System	1440	8	Existing DHW System	This field or section is not applicable
Addition	Conditioned	New HVAC System	225	8	Existing DHW System	This field or section is not applicable

OPAQUE SURFACES									
01	02	03	04	05	06	07	08	09	10
Name	Zone	Construction	AzimuthAzimuth	OrientationOrientation	Gross Area (ft <sup>2</sup> )	Window and Door Area (ft <sup>2</sup> )Window and Door Area (ft <sup>2</sup> )	Tilt (deg)Tilt (deg)	Status	Verified Existing Condition
Existing Wall Front	Existing	Wall R11	0	Front	320	76	90	Altered	No
Existing Wall Left	Existing	Wall R11	90	Left	288	48	90	Altered	No
Existing Wall Back	Existing	Wall R11	180	Back	200	56	90	Altered	No
Existing Wall Right	Existing	Wall R11	270	Right	288	30	90	Altered	No
Addition Wall Left	Addition	Wall R13	90	Left	120	16	90	New	N/A
Addition Wall Back	Addition	Wall R13	180	Back	120	16	90	New	N/A
Addition Wall Right	Addition	Wall R13	270	Right	120	16	90	New	N/A
Existing Ceiling	Existing	Ceiling R38	This field or section is not applicable	This field or section is not applicable	1440	This field or section is not applicable	This field or section is not applicable	Altered	Yes
Addition Ceiling	Addition	Ceiling R38	This field or section is not applicable	This field or section is not applicable	225	This field or section is not applicable	This field or section is not applicable	New	N/A

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ATTIC									
01	02	03	04	05	06	07	08	09	10
Name	Construction	Type	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof	Status	Verified Existing Condition
Existing Attic	Existing Shingle Roof	Ventilated	5	0.1	0.85	No	No	ExistingUnchanged	No
Addition Attic	Addition Shingle Roof	Ventilated	5	0.1	0.85	No	No	New	N/A

FENESTRATION / GLAZING															
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Surface (Orientation-Azimuth)	Surface (Orientation-Azimuth)	Surface (Orientation-Azimuth)	Width (ft)	Height (ft)	Multiplier	Area (ft <sup>2</sup> )	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition
Existing Window Front 1	Window	Existing Wall Front	Front	0			1	24	1.28	NFRC	0.8	NFRC	Insect Screen (default)	ExistingUnchanged	No
Existing Window Front 2	Window	Existing Wall Front	Front	0			1	32	1.28	NFRC	0.8	NFRC	Insect Screen (default)	ExistingUnchanged	No
Existing Window Left 1	Window	Existing Wall Left	Left	90			1	24	1.28	NFRC	0.8	NFRC	Insect Screen (default)	ExistingUnchanged	No
Existing Window Left 2	Window	Existing Wall Left	Left	90			1	24	1.28	NFRC	0.8	NFRC	Insect Screen (default)	ExistingUnchanged	No
Existing Window Back 1	Window	Existing Wall Back	Back	180			1	30	1.28	NFRC	0.8	NFRC	Insect Screen (default)	ExistingUnchanged	No
Existing Window Back 2	Window	Existing Wall Back	Back	180			1	6	1.28	NFRC	0.8	NFRC	Insect Screen (default)	ExistingUnchanged	No

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FENESTRATION / GLAZING															
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Surface (Orientation-Azimuth)	Surface (Orientation-Azimuth)	Surface (Orientation-Azimuth)	Width (ft)	Height (ft)	Multiplier	Area (ft <sup>2</sup> )	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition
Existing Window Right 1	Window	Existing Wall Right	Right	270			1	6	1.28	NFRC	0.8	NFRC	Insect Screen (default)	ExistingUnchanged	No
Existing Window Right 2	Window	Existing Wall Right	Right	270			1	24	1.28	NFRC	0.8	NFRC	Insect Screen (default)	ExistingUnchanged	No
Addition Window Left 1	Window	Addition Wall Left	Left	90			1	16	0.32	NFRC	0.25	NFRC	Insect Screen (default)	New	N/A
Addition Window Back 1	Window	Addition Wall Back	Back	180			1	16	0.32	NFRC	0.25	NFRC	Insect Screen (default)	New	N/A
Addition Window Right 1	Window	Addition Wall Right	Right	270			1	16	0.32	NFRC	0.25	NFRC	Insect Screen (default)	New	N/A

OPAQUE DOORS					
01	02	03	04	05	06
Name	Side of Building	Area (ft <sup>2</sup> )	U-factor	Status	Verified Existing Condition
Existing Door Front		20	0.5	ExistingUnchanged	No
Existing Door Back		20	0.5	ExistingUnchanged	No

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OPAQUE SURFACE CONSTRUCTIONS											
01	02	03	04	05	06	07	08	09	10	11	12
Construction Name	Surface Type	Is construction above grade?	Construction Type	Construction Name Surface Type construction above grade? Construction Type Total Cavity R-value Total Cavity R-value Total Cavity R-value Interior/Exterior Continuous R-value Interior/Exterior Continuous R-value U-factor Assembly Layers User Defined Fields	Total Cavity R-value	Total Cavity R-value	Total Cavity R-value decimal	Interior/Exterior Continuous R-value	Interior/Exterior Continuous R-value	U-factor	Assembly Layers
Wall R0	Exterior Walls	Above Grade	Wood Framed Wall		Other	none	0			0.302	Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Exterior Finish: Wood

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Construction Name	Surface Type	Is construction above grade?	Construction Type	Construction Name Surface Type construction above grade? Construction Type Total Cavity R-value Total Cavity R-value Total Cavity R-value Interior/Exterior Continuous R-value Interior/Exterior Continuous R-value U-factor Assembly Layers User Defined Fields	Total Cavity R-value	Total Cavity R-value	Total Cavity R-value decimal	Interior/Exterior Continuous R-value	Interior/Exterior Continuous R-value	U-factor	Assembly Layers
											Siding/sheathing/decking

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OPAQUE SURFACE CONSTRUCTIONS											
01	02	03	04	05	06	07	08	09	10	11	12
Construction Name	Surface Type	Is construction above grade?	Construction Type	Construction Name Surface Type construction above grade? Construction Type Total Cavity R-value Total Cavity R-value Total Cavity R-value Interior/ Exterior Continuous R-value Interior/ Exterior Continuous R-value U-factor Assembly Layers User Defined Fields	Total Cavity R-value	Total Cavity R-value	Total Cavity R-value decimal	Interior/ Exterior Continuous R-value	Interior/ Exterior Continuous R-value	U-factor	Assembly Layers
Wall R13	Exterior Walls	Above Grade	Wood Framed Wall		R 13	R 13	13			0.095	Inside Finish: Gypsum Board Cavity / Frame: R-13 / 2x4 Exterior Finish: Wood Siding/sheathing/decking

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OPAQUE SURFACE CONSTRUCTIONS											
01	02	03	04	05	06	07	08	09	10	11	12
Construction Name	Surface Type	Is construction above grade?	Construction Type	Construction Name Surface Type Is construction above grade? Construction Type Total Cavity R-value Total Cavity R-value Total Cavity R-value Interior/ Exterior Continuous R-value Interior/ Exterior Continuous R-value U-factor Assembly Layers User Defined Fields	Total Cavity R-value	Total Cavity R-value	Total Cavity R-value decimal	Interior/ Exterior Continuous R-value	Interior/ Exterior Continuous R-value	U-factor	Assembly Layers
Wall R11	Exterior Walls	Above Grade	Wood Framed Wall		R 11	R 11	11			0.103	Inside Finish: Gypsum Board Cavity / Frame: R-11 / 2x4 Exterior Finish: Wood Siding/sheathing/decking

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OPAQUE SURFACE CONSTRUCTIONS											
01	02	03	04	05	06	07	08	09	10	11	12
Construction Name	Surface Type	Is construction above grade?	Construction Type	Construction Name Surface Type construction above grade? Construction Type Total Cavity R-value Total Cavity R-value Total Cavity R-value Interior/Exterior Continuous R-value Interior/Exterior Continuous R-value U-factor Assembly Layers User Defined Fields	Total Cavity R-value	Total Cavity R-value	Total Cavity R-value decimal	Interior/Exterior Continuous R-value	Interior/Exterior Continuous R-value	U-factor	Assembly Layers
Interior Wall R0	Interior Walls	Above Grade	Wood Framed Wall		Other	none	0			0.277	Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Other Side Finish: Gypsum Board

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01	02	03	04	05	06	07	08	09	10	11	12
Construction Name	Surface Type	Is construction above grade?	Construction Type	Construction Name Surface Type construction above grade? Construction Type Total Cavity R-value Total Cavity R-value Total Cavity R-value Interior/Exterior Continuous R-value Interior/Exterior Continuous R-value U-factor Assembly Layers User Defined Fields	Total Cavity R-value	Total Cavity R-value	Total Cavity R-value decimal	Interior/Exterior Continuous R-value	Interior/Exterior Continuous R-value	U-factor	Assembly Layers
Existing Shingle Roof	Attic Roofs	Above Grade	Wood Framed Ceiling		Other	none	0			0.644	Cavity / Frame: no insul. / 2x4 Top ChrdRoof Deck: Wood Siding/sheathing/deckingRoofing: Light Roof

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OPAQUE SURFACE CONSTRUCTIONS											
01	02	03	04	05	06	07	08	09	10	11	12
Construction Name	Surface Type	Is construction above grade?	Construction Type	Construction Name Surface Type construction above grade? Construction Type Total Cavity R-value Total Cavity R-value Total Cavity R-value Interior/Exterior Continuous R-value Interior/Exterior Continuous R-value U-factor Assembly Layers User Defined Fields	Total Cavity R-value	Total Cavity R-value	Total Cavity R-value decimal	Interior/Exterior Continuous R-value	Interior/Exterior Continuous R-value	U-factor	Assembly Layers
											(Asphalt Shingle)

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OPAQUE SURFACE CONSTRUCTIONS											
01	02	03	04	05	06	07	08	09	10	11	12
Construction Name	Surface Type	Is construction above grade?	Construction Type	Construction Name Surface Type construction above grade? Construction Type Total Cavity R-value Total Cavity R-value Total Cavity R-value Interior/ Exterior Continuous R-value Interior/ Exterior Continuous R-value U-factor Assembly Layers User Defined Fields	Total Cavity R-value	Total Cavity R-value	Total Cavity R-value decimal	Interior/ Exterior Continuous R-value	Interior/ Exterior Continuous R-value	U-factor	Assembly Layers
Addition Shingle Roof	Attic Roofs	Above Grade	Wood Framed Ceiling		Other	none	0			0.644	Cavity / Frame: no insul. / 2x4 Top ChrdRoof Deck: Wood Siding/sheathing/deckingRoofing: Light Roof

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OPAQUE SURFACE CONSTRUCTIONS											
01	02	03	04	05	06	07	08	09	10	11	12
Construction Name	Surface Type	Is construction above grade?	Construction Type	Construction Name Surface Type construction above grade? Construction Type Total Cavity R-value Total Cavity R-value Total Cavity R-value Interior/Exterior Continuous R-value Interior/Exterior Continuous R-value U-factor Assembly Layers User Defined Fields	Total Cavity R-value	Total Cavity R-value	Total Cavity R-value decimal	Interior/Exterior Continuous R-value	Interior/Exterior Continuous R-value	U-factor	Assembly Layers
											(Asphalt Shingle)

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OPAQUE SURFACE CONSTRUCTIONS											
01	02	03	04	05	06	07	08	09	10	11	12
Construction Name	Surface Type	Is construction above grade?	Construction Type	Construction Name Surface Type construction above grade? Construction Type Total Cavity R-value Total Cavity R-value Total Cavity R-value Interior/ Exterior Continuous R-value Interior/ Exterior Continuous R-value U-factor Assembly Layers User Defined Fields	Total Cavity R-value	Total Cavity R-value	Total Cavity R-value decimal	Interior/ Exterior Continuous R-value	Interior/ Exterior Continuous R-value	U-factor	Assembly Layers
Ceiling R11	Ceilings (below attic)	Above Grade	Wood Framed Ceiling		R 11	R 11	11			0.081	Inside Finish: Gypsum Board Cavity / Frame: R-9.1 / 2x4 Btm Chrd Over Ceiling Joists: R-1.9 insul.

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01	02	03	04	05	06	07	08	09	10	11	12
Construction Name	Surface Type	Is construction above grade?	Construction Type	Construction Name Surface Type construction above grade? Construction Type Total Cavity R-value Total Cavity R-value Total Cavity R-value Interior/ Exterior Continuous R-value Interior/ Exterior Continuous R-value U-factor Assembly Layers User Defined Fields	Total Cavity R-value	Total Cavity R-value	Total Cavity R-value decimal	Interior/ Exterior Continuous R-value	Interior/ Exterior Continuous R-value	U-factor	Assembly Layers
Ceiling R38	Ceilings (below attic)	Above Grade	Wood Framed Ceiling		R 38	R 38	38			0.025	Inside Finish: Gypsum Board Cavity / Frame: R-9.1 / 2x4 Btm Chrd Over Ceiling Joists: R-28.9 insul.

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SLAB FLOORS										
Name	Zone	Area (ft <sup>2</sup> )	Perimeter (ft)	Edge Insul. R-value & Depth	Edge Insul. R-value & Depth	Edge Insul. R-value & Depth	Carpeted Fraction	Heated	Status	Verified Existing Condition
Existing Slab	Existing	1440	137	none	0.00	0	0.8	No	ExistingUnchanged	No
Addition Slab	Addition	225	45	none	0.00	0	0.8	No	New	N/A

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

Existing DHW SystemStandardMulti-family: No loops or recirc pumpMulti-family: No loops or recirc pumpExisting Water Heater1NotCompactExistingNo

WATER HEATERS											
Name	Heating Element Type	Tank Type	Number of Units	Tank Volume (gal)	Uniform Energy Factor / Energy Factor / Efficiency	Input Rating/ Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss / Recovery Eff	First Hour Rating / Flow Rate	Simulated Equipment Make and Model	Tank Location or Ambient Condition
Existing Water Heater	Gas	Small Storage	1	50	0.6	75000	0				

Existing DHW System - 1/1

SPACE CONDITIONING SYSTEMS								
Name	System Type	Heating Unit Name	Cooling Unit Name	Fan Name	Distribution Name	Required Thermostat Type	Status	Verified Existing Condition
Existing HVAC System	Heating and cooling system other	Existing Furnace	Existing AC	Existing HVAC Fan	Existing Ducts			
New HVAC System	Heating and cooling system other	New Furnace	New AC	New HVAC Fan	New Ducts			

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HVAC - HEATING UNIT TYPES			
01	02	03	04
Name	System Type	Number of Units	Efficiency
New Furnace	Central gas furnace	1	80

HVAC - COOLING UNIT TYPES							
01	02	03	04	05	06	07	08
Name	System Type	Number of Units	Efficiency EER	Efficiency SEER	Zonally Controlled	Multispeed Compressor	HERS Verification
New AC	Central split AC	1	11.3	14	Not Zonal	Single Speed	HERS Verification New AC-hers-cool

HVAC COOLING - HERS VERIFICATION					
01	02	03	04	05	06
Name	Verified Airflow	Airflow Target	Verified EER	Verified SEER	Verified Refrigerant Charge
Existing AC-hers-cool	Not Required	0	Not Required	Not Required	Not Required
New AC-hers-cool	Required	350	Not Required	Not 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
Existing Ducts	DuctsAttic		2.1			
New Ducts	DuctsAttic		8			

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
New Ducts-hers-dist	Yes	5	Not Required	Not Required	Not Required	Credit not taken	Required

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HVAC - FAN SYSTEMS			
01	02	03	04
Name	Type	Fan Power (Watts/CFM)	HERS VerificationHERS Verification
New HVAC Fan	PSC Permanent Split Capacitor	0.45	New HVAC Fan-hers-fan

HVAC FAN SYSTEMS - HERS VERIFICATION		
01	02	03
Name	Verified Fan Watt Draw	Required Fan Efficiency (Watts/CFM)
Existing HVAC Fan-hers-fan	Not Required	0
New HVAC Fan-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	0	0.25	Default	0	No

COOLING VENTILATION					
01	02	03	04	05	06
Name	Airflow Rate (CFM/ft <sup>2</sup> )	Cooling Vent CFM	Cooling Vent Watts/CFM	Total Watts	Number of Fans

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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:	Documentation Author Signature:
Company:	Signature Date:
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: <ol style="list-style-type: none"><li>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.</li><li>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.</li><li>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.</li></ol>	
Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

Registration Number:

Registration Date/Time:

HERS Provider: CBECC-Res 2019

CA Building Energy Efficiency Standards - 2019 Residential Compliance

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