

CF1R-PRF-01 CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Simas ADU Calculation Date/Time: 09:16, Fri, Nov 12, 2021 Page 2 of 6 Calculation Description: Title 24 Analysis Input File Name: 0190948 Simas ADU.ribd16x 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 energy can both be seen 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 CZ4 (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. Excess PV Generation EDR Credit: Bypassing PV size limit may violate Net Energy Metering (NEM) rules The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis. Window overhangs and/or fins
 Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater, specific brand/model, or equivalent must be installed Building-level Verifications:
• IAQ mechanical ventilation
Cooling System Verifications:
• -- None --HVAC Distribution System Verifications: Domestic Hot Water System Verifications: BUILDING - FEATURES INFORMATION Number of Dwelling Number of Ventilation Number of Water Number of Bedrooms Number of Zones onditioned Floor Area (ft2) Registration Number: 219-P010254209B-000-000-0000000-0000 Registration Date/Time: 2021-11-12 09:33:24 CalCERTS inc. CA Building Energy Efficiency Standards - 2016 Residential Compliance Report Version - CF1R-01162019-1149 Report Generated at: 2021-11-12 09:16:58

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Percent Improvement

42.3%

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Input File Name: 0190948 Simas ADU.ribd16x

Compliance Manager Version

Front Orientation (deg/Cardinal)

Number of Dwelling Units

Software Versio

Number of Zones

Number of Stories

Glazing Percentage (%) 16.2%

Compliance Margin

Natural Gas Available

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Simas ADU Calculation Date/Time: 09:16, Fri, Nov 12, 2021 Page 3 of 6 Calculation Description: Title 24 Analysis Input File Name: 0190948 Simas ADU.ribd16x Zone Floor Area Avg. Ceiling **HVAC System Name** Zone Name (ft²) Height Water Heating System 1 Water Heating System 2 OPA QUE SURFACES Azimuth Orientation Gross Area (ft²) Window & Door Area (ft²) Tilt (deg) 180 Front 288 Front Wall Rear Wall 02 03 04 05 06 07 08

Construction Type Roof Rise Roof Reflectance Roof Emittance Radiant Barrier Cool Roof 04 05 06 07 08 09 Front Wall (Front-180) Window Window 2 Window Left Wall (Left-270) Window 3 Rear Wall (Back-0) Window Window Rear Wall (Back-0) Registration Number: 219-P010254209B-000-000-0000000-0000 Registration Date/Time: 2021-11-12 09:33:24 CA Building Energy Efficiency Standards - 2016 Residential Compliance Report Version - CF1R-01162019-1149 Report Generated at: 2021-11-12 09:16:58

2016 Low-Rise Residential Mandatory Measures Summary

NOTE: Low-rise residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach

outdiation boomption.	Title 24 Analysis				input File	ivame:	0190948 Simas	ADU.IIDC	110X					
OVERHANGS AND FINS		277					V17					7		
01	02	03	04	05	06	07	08	09	10	11	12	13	1-	
						Left Fin			Right Fin					
Window	Depth	Dist Up	Left Extent	Right Extent	Flap Ht.	Depth	Тор Uр	Dist L	BotUp	D epth	Тор Uр	Dist R	Bot	
Glass Door	6	0.1	6	6	0	0	0	0	0	0	0	0		
Window	6	0.1	6	6	0	0	0	0	0	0	0	0		
OPAQUE SURFACE CONSTR	RUCTIONS	2.7/2					2			-			0	
01			3	04			05	06		07				
C onstruction Name			Construction Type		Framing			Winter Design U-factor		Assembly Layers				
Attic RoofADU	Attic Roofs	Wood Fram	ed Ceiling	2x4 @ 24 in. O.C.			none	0.644		Cavity / Frame: no insul. / 2x4 Roof Deck: Wood Siding/sheathing/deckin Roofing: Light Roof (Asphalt Shingle)				
R-19 Floor Crawlspace	Floors Over Crawlspace	Wood Fran	ned Floor	2x8	6@ 16 in. O.C.		R 19 in 5-1/2 in. cavity (R-18)	0.06		Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/dec Cavity / Frame: R-19 in 5-1/2 in. (R-18)				
R-15 Wall	Exterior Walls	Wood Fra	med Wall	2x4	4 @ 16 in. O.C.	13	R 15	0.09		Inside Finist Cavity / Frai Exterior Fini	me: R-15/2	x4		
R-38 Roof Attic	Ceilings (below attic)	Wood Fram	ed Ceiling	R S	4 @ 24 in. O.C.	0	VID R 38	E R		Inside Finisi Cavity / Frai Over Ceiling	me: R-9.1/2	×4	į.	
R-15 Wall1	Interior Walls	Wood Fra	med Wall	2x4	4 @ 16 in. O.C.		R 15	0.08	36	Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Other Side Finish: Gypsum Board				
BUILDING ENVELOPE - HER	S VERIFICATION													
01				02			03			04				
Quality Insulation I	Quality Installation of Spray Foam Insulation				n	Building Envelope Air Leakage				CFM50				
Not Requ	uired		١	lot Required	j.		Not F	Required			n/	'a		
WATER HEATING SYSTEMS														
01		02		03			04			05		06		
Name	Sys	ostem Type DHW		Distribution Type			Water Heater		Numb	nber of Heaters Sola		lar Fraction (%)		
DHW Sys 1				Standard			DHW Heater 1 (1)		Ĭ			.0%		

2016 Low-Rise Residential Mandatory Measures Summary

R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.

piping for steam and hydronic heating systems or hot water systems must meet the requirements in TABLE 120.3-A*

Recirculating Loops. Recirculating loops serving multiple dwelling units must meet the requirements of § 110.3(c)5.

§ 150.0(h)3A

§ 150.0(h)3B:

§ 150.0(j)1:

§ 150.0()2A:

§ 150.0(j)2B:

§ 150.0 @2C:

150.0(n)2:

§ 150.0(n)3:

§ 150.0(m) 1:

§ 150.0(m)3:

§ 150.0(m) 7:

150.0(m)8:

Ducts and Fans Measures:

and non-crushable casing or sleeve.*

cause degradation of the material.

Class I or Class II vapor retarder.

Clearances, Installed air conditioner and heal pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any

Storage Tank Insulation. Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have

Water piping and cooling system line insulation. For domestic hot water system piping, whether buried or unburied, all of the following must be insulated according to the requirements of TABLE 120.3-A the first 5 feet of hot and cold water pipes from the storage tank; all piping with a

Water piping and cooling system line insulation. All domestic hot water pipes that are buried below grade must be installed in a water proof

Water piping and cooling system line insulation. Pipe for cooling system lines must be insulated as specified in § 150.0 (i) 2A. Distribution

Insulation Protection. Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind.

Insulation Protection. Insulation exposed to weather must be installed with a cover suitable for outdoor service. For example, protected by

aluminum, sheet metal, painted canvas, or plastic cover. The cover must be water retardant and provide shielding from solar radiation that can

Insulation Protection. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must have a

Gas or Propane Systems. Systems using gas or propane water heaters to serve individual dwelling units must include all of the following: a

120V electrical receptacle within 3 feet of the water heater, a Category III or IV vent, or a Type B vent with straight pipe between the outside

termination and the space where the water heater is installed; a condensate drain that is no more than 2 inches higher than the base of the water heater, and allows natural draining without pump assistance; and a gas supply line with a capacity of at least 200,000 Btu/hr.

Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification

CMC Compliance. All air-distribution system ducts and plenums must be installed, sealed, and insulated to meet the requirements of CMC

§§ 601.0, 602.0, 603.0, 604.0, 605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions

of supply-air and return-air ducts and plenums must be insulated to a minimum installed level of R-6.0 (or higher if required by CMC § 605.0) or

contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.

a minimum installed level of R-4.2 when entirely in conditioned space as confirmed through field verification and diagnostic testing

(RA3.1.4.38). Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with

mastic, tape, or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that

meets the requirements of UL 723. If mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or

tape must be used. Building cavities, support platforms for air handlers, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used for conveying conditioned air. Building cavities and support platforms may contain

ducts. Ducts installed in cavities and support platforms must not be compressed to cause reductions in the cross-sectional area of the ducts."

connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct

Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes,

Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible,

manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.

\$ 150.0(m) 10: Porous Inner Core Flex Duct. Porous inner core flex duct must have a non-porous layer between the inner core and outer vapor barrier.

§ 150.0 (m) 12: conditioning component, except evaporative coolers, must be provided with air filter devices that meet the design, installation, efficiency,

Backdraft Dampers. All fan systems that exchange air between the conditioned space and the outside of the building must have backdraft or

Protection of Insulation. Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and

plastic cover. Cellular foam insulation must be protected as above or painted with a coating that is water retardant and provides shielding from

Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in

Air Filtration. Mechanical systems that supply air to an occupiable space through ductwork exceeding 10 feet in length and through a thermal

wind. Insulation exposed to weather must be suitable for outdoor service. For example, protected by aluminum, sheet metal, painted canvas, or

Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction.

tapes unless such tape is used in combination with mastic and draw bands.

mastics, sealants, and other requirements specified for duct construction.

accordance with § 150.0(m)11 and Reference Residential Appendix RA3.

pressure drop, and labeling requirements of § 150.0(m)12.

nominal diameter of 3/4 inch or larger; all piping associated with a domestic hot water recirculation system regardless of the pipe diameter; piping from the heating source to storage tank or between tanks; piping buried below grade; and all hot water pipes from the heating source to

Liquid Line Drier. Installed air conditioner and heat pump systems must be equipped with liquid line filter driers if required, as specified by

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD														CF1R-PRF-0	
Project Name: Simas ADU Calculation Date/Time: 09:16, Fi										ri, Nov 1	2, 2021			Page 5 of	
alculation Desc	ription: Title 2	4 Analysis				In	out File Nan	ne: 0190	0948 Sima	s ADU.rit	d16x				
VATER HEATERS			1000								7.5	1			
01	02	02 03		05		06	07		08	09	10	11		12	
Name	Heater Element Type	Tank Type	Number of Units	Tank Volume (gal)	Fact	orm Energy or / Energy r / Efficiency	Input Rating Pilot / Thermal Efficiency	Ins R	Tank ulation -value nt/Ext)	Standby Loss / Recover Eff	First Ho	Brand / N	/lodel	Tank Location or Ambient Condition	
DHW Heater 1	Heat Pump	n/a	i	50	NE	EA Rated	n/a	R	-0/R-0	n/a		Rheem / PF T2 RH350 gal	DC (50	Outside or Exterior closet	
SPACE CONDITION		Î			$\overline{}$										
01			02			03		04		05		06			
SC Sys Name			System Type			Heating Unit Name		Cooling Unit Name		Fan Name		Distribution Name			
HVAC System1			Heat Pump Heating and Cooling System			Heat Pump System 1		Heat Pump System 1		None		- none -			
HVAC - HEAT PUMI	PS														
01	01		02 03					06 07			09	10	_	11	
Name		System Number			- 1			Cap 17 SEER			Zonally			HERS	
		Type		Jnits HSPF/COP		Cap 47	EER			Controlled	Туре	100	Verification Heat Pump System		
Heat Pump System 1		DuctlessMiniS	tlessMiniSplitHeatPump		T R	8.2	24000	18720 14 11.7		11.7	Not Zonal	Single Speed	ingle Speed Heat Pur 1-hei		
HVAC COOLING - H	ERS VERIFICA	ATION							1						
01			02			03		04		05		06			
Name		/erified Airflow			Airflow Target		Verified EER			Verified SEER		Verified Refrigerant Charge			
Heat Pump System 1-hers-cool Not R			Not Required			n/a		Not Required		Not Required		Not Required			
AQ (Indoor Air Qu	ality) FANS														
01 02			03			04		05		06					
Dwelling Unit IAQ CFM				IAQ Watts/CFM			IA Q Fan Type			IAQ Recovery Effectiveness(%)		HERS Verification			
SFam IAQVentRpt 33				0.25		Default				0	Required				

Registration Date/Time: 2021-11-12 09:33:24

HERS Provider:

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name Simas ADI

Project Location 2180 Almaden Road

Building Type Single Family

Project Scope Newly Constructed

Building Complies with Computer Performance

Registration Date/Time:

Standard Design

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.

This building incorporates one or more Special Features shown below

Proposed Design

2021-11-12 09:33:24

Calculation Description | Title 24 Analysis

Climate Zone C.

Total Cond. Floor Area (ft2) 10

Addition Cond. Floor Area(ft2)

Energy Use (kTDV/ft2-yr)

Space Heating

IAQ Ventilation

Water Heating
Photovoltaic Offset

Compliance Energy Total

Registration Number: 219-P010254209B-000-000-0000000-0000

Registration Number: 219-P010254209B-000-000-00000000-0000

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Slab Area (ft2)

Calculation Description: Title 24 Analysis

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01 Calculation Date/Time: 09:16, Fri, Nov 12, 2021 Page 6 of 6 Project Name: Simas ADU Calculation Description: Title 24 Analysis Input File Name: 0190948 Simas ADU.ribd16x I certify that this Certificate of Compliance documentation is accurate and complete. mentation Author Name: Nicholas Bignardi Signature Date: FRI Energy Consultants, LLC 2021-11-12 09:21:46 CEA/HERS Certification Identification (If applicable) 21 N. Harrison Ave. n/a Campbell, CA 95008 408-866-1620 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 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.

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 The building design features or system design features identified on this Certificate of Complance 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. onsible Designer Name: Michael S Radu Michael S Radu Date Signed: 2021-11-12 09:33:24 Pacific Blue Developmen License: 174 Wedgewood Ave n/a 408-504-6826 Los Gatos, CA 95032

Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

Registration Number: 219-P010254209B-000-000-0000000 Registration Date/Time: 2021-11-12 09:33:24
CA Building Energy Efficiency Standards - 2016 Residential Compliance Report Version - CF1R-01162019-1149

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used. Review the respective section for more information. *Exceptions may apply. **Building Envelope Measures:** Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 cfm/ft² or less when tested per NFRC-400 or ASTM E283 or AAMA/WDMA/CSA 101/LS.2/A440-2011.* 10.6(a)5: Labeling. Fenestration products must have a label meeting the requirements of § 10-111(a). Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from TABLES 110.6-A and 110.6-B for compliance and must be caulked and/or weatherstripped Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped. Insulation Certification by Manufacturers, Insulation specified or installed must meet Standards for Insulating Material. § 110 8(a): Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g). Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing § 110.8(i): material must meet the requirements of § 110.8(i) when the installation of a cool roof is specified on the CF1R. Radiant Barrier. A radiant barrier must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs. Ceiling and Rafter Roof Insulation. Minimum R-22 insulation in wood-frame ceiling; or the weighted average U-factor must not exceed 0.0 Minimum R-19 or weighted average U-factor of 0.054 or less in a rafter roof alteration. Attic access doors must have permanently attached § 150.0(a): insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a continuous roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.* Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value. Above Grade Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less (R-19 in 2x6 or U-§ 150.0(c): factor of 0.074 or less). Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102, equivalent to an installer value of R-13 in a wood framed assembly." Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor.* Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without § 150.0(f): facings, no greater than 0.3%; have a water vapor permeance no greater than 2.0 perm/inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).

Vapor Retarder. In Climate Zones 1-16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to § 150.0(d). Vapor Retarder. In Climate Zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all § 150.0(g)2: insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation. Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.58, or the weighted average U-factor of all fenestration must not exceed 0.58.* Fireplaces, Decorative Gas Appliances, and Gas Log Measures: 150.0(e)1A: Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox. Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device." § 150.0(e)1C: Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.* Pilot Light. Continuous burning pilot lights and the use of indoor air for cooling a firebox jacket, when that indoor air is vented to the outside of 150.0(e)2: pace Conditioning, Water Heating, and Plumbing System Measures: Certification. Heating, ventilation and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated 110.0-§ 110.3: appliances must be certified by the manufacturer to the Energy Comm HVAC Efficiency. Equipment must meet the applicable efficiency requirements in TABLE 110.2-A through TABLE 110.2-K.* Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for ompression heating is higher than the cut-off temperature for supplementary heating." Thermostats. All unitary heating or cooling systems not controlled by a central energy management control system (EMCS) must have a Water Heating Recirculation Loops Serving Multiple Dwelling Units. Water heating recirculation loops serving multiple dwelling units must § 110.3(c)5: meet the air release valve, backflow prevention, pump priming, pump isolation valve, and recirculation loop connection requirements of § Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBTU/hr (2 kW) must have isolation valves with hose bibli 110.3(c)7: or other fittings on both cold water and hot water lines of water heating systems to allow for water tank flushing when the valves are closed. Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu/hr are exempt); and pool and spa heaters Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with ASHRAE Handbook, Equipment § 150.0(h)1: Volume, Applications Volume, and Fundamentals Volume; SMACNA Residential Comfort System Installation Standards Manual, or ACCA Manual Jusing design conditions specified in § 150.0(h)2.