PRCNC20240278

ENVELOPE COMPLIANCE SUMMARY

2018 WSEC Compliance	e Forms for Comme	rcial Buildings	s including Group R2, R3	& R4 over 3 stories and all R1					Administered by	r: ©2024 NEEA	, All rights reserved		
Project & Applicant		Project	Title	Bradley Heights Apartments Clubhouse - 2018 WSEC			For Building	g Department Use:		Date:	Feb 13, 2024		
		Project Address		202 27th Ave SE Puyallup, WA 98374			City of Puyallu Building ACCEPTED	2		Date.	1013, 2024		
Information		Applica	ant Name	Arik Es	spineli		JMontgomery 05/16/2024 10:21:46 AM						
		Applica	ant Phone	206-364	4-3343								
		Applica	ant Email	aespineli@robisonengineering.com									
		For question	ns about this report, conta	ct WSEC Commercial Technica	l Support at	360-539-5300 or v	ia email at com.tecl	support@waenergyco	des.com				
General Occupancy	All Comme	rajal	General Building Use	Entmt/Assembly, Oth	Entmt/Assembly, Other Building Cond. Fl		loor Aroo		5,286				
General Occupancy	All Colline	T	(ype(s)			5	0						
			pace Conditioning	Fully Conditioned Floors Above		Project Cond. Fl			5,286				
Project Scope New Build			Categories						1				
			-			Compliance Met	hod		Complian	ce Method 1 - C	eneral		
Envelope Project Description													
Envelope Compliance	Scop	e Space Condition		^{1g} Compliance Method		WR/SRR	UA Calculation Adjustment			ration	Compliance		
Scope and			Category	-		Category	,		Alter		Verification		
Method	New Bui	ding	Fully Conditioned	Prescriptive	18.	81% / 0%	No	one selected	No alternat	tes selected	COMPLIES		
Ain Donation Tooting			A : 1	-l. d. d in		Air Barrier Com							
Air Barrier Testing			Air barrier testing in	cluded in project scope		Air Barrier Com	ments						
Project Title	Bradley Heig	hts Apartm	s Apartments Clubhouse - 2018 WSEC							te Feb 13,	2024		
Scope & Space Con	ditioning	NEW	BUILDING - FULI	Y CONDITIONED			Compliance	Verification	(COMPLIES			
Window-to-wall Ratio		1	18.81% Skylight-to-roof-ratio			0%	Vertical Fenestr	ation Alternate		No altern	ates selected		
Opaque Envelope Asser	mblies												
								Insulation R-Value	28				
Roof/Ceiling		Locat	tion in Documents	Assembly ID	Asser	nbly Location	Cavity	Continuous (% penetration)	2nd Layer (MB Roof)	U-Factor	Net Area (SF)		
	Attic and other		D1	5		Exterior	R-49	(< 0.04%)			5,494		
		U-Factor Sour	rce:				U-Factor Source	e Description:					
		Roof Framing	g Type (Standard, Advanc	ed): Standard			Roof Framing 1	Material: Wood-frame	imed				
		Ceiling/Attic Venting:						Is this assembly exterior or interior?: Exterior					
Walls		Locat	tion in Documents	Assembly ID	Asser	nbly Location	Cavity	Continuous (% penetration)	Insulated Wall Furring	U-Factor	Net Area (SF)		
Wood-framed and other - Commercial			D1	1		Exterior	R-21	R-0 (< 0.04%)			4,403		
		Which insulation code target does wall comply with?: R-21 Cavity + Intermediate Framing					U-Factor Source:						
		U-Factor Source Description:					Wall Framing Type (Standard, Inter., Advanced): Intermediate						
		Framing Depth:						Framing Spacing:					
		Is this assemb	ly exterior or interior?: E	exterior									
Slab-on-grade Floors		Locat	tion in Documents	Assembly ID	Asser	nbly Location	Slab Edge	Under Slab		F-Factor	Perimeter Length (SF)		
Unheated slab		D2 1 At grade level					R-15				445		
		Slab Insulation Method: 2 ft vertical (from top of slab downward)						F-Factor Source:					
		F-Factor Sour	ce Description:										
Fenestration & Opaque	e Door Assemblies												
								Insulation R-Value	28				

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Vertical Fenestration	Location in Documents	Assembly ID Assembly Location		Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)				
Fixed - Class AW or site built	D3	STOREFRONT	Exterior		PF < 0.2	SHGC-0.38	U-0.30	373			
	U-Factor & SHGC Source:	U-Factor Source	U-Factor Source Description:								
	Is this assembly exterior or interior?: Exte	Is this assembly exterior or interior?: Exterior									
Fixed - Class AW or site built	D6	STOREFRONT	Exterior		PF < 0.2	SHGC-0.38	U-0.30	452			
	U-Factor & SHGC Source:	U-Factor Source Description:									
Is this assembly exterior or interior?: Exterior											
Glazed Doors	Location in Documents	Assembly ID	Assembly Location	Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)				
Swinging entrance door	D3	STOREFRONT	Exterior		PF < 0.2	SHGC-0.38	U-0.30	25			
	U-Factor & SHGC Source:			U-Factor Source Description:							
	Is this assembly exterior or interior?: Exte	rior		Is this a public entrance door?: Yes							
	Door enclosed within a vestibule?: No ves										
Swinging entrance door	D3	STOREFRONT	Exterior		PF < 0.2	SHGC-0.38	U-0.30	170			
	U-Factor & SHGC Source:	U-Factor Source Description:									
Is this assembly exterior or interior?: Exterior				Is this a public entrance door?: Yes							
Door enclosed within a vestibule?: No vestibule											

FULL SIZED LEDGIBLE COLOR REPORT IS REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS

HP-1-6, HP-1-7

Heat pump, air cooled

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MECHANICAL COMPLIANCE SUMMARY

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1 Administered by: ©2023 NEEA, All rights reserved **Project Title** Bradley Heights Apartments Clubhouse - 2018 WSEC For Building Department Use: Date: Jun 30, 2023 202 27th Ave SE **Project Address** Puyallup, WA 98374 Project & Applicant Information Applicant Name Arik Espineli 206-364-3343 Applicant Phone Applicant Email aespineli@robisonengineering.com For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com All Commercial 4,439 **General Occupancy General Building Use Type** Entmt/Assembly, Other **Building Cond. Floor Area Project Cond. Floor Area** 4,439 New Building Alteration General Project Types New Building or Addition Single Zone Systems & Equipment **Floors Above Grade** Mechanical Scope Mechanical Scope **Compliance Method** Compliance Method 1 - General **Mechanical Project Description** Equipment Efficiency Economizer **DOAS** Ventilation **Higher Equipment Project Type Mechanical Scope** Compliance Exception(s) **Provided? Efficiency Option Applied? Mechanical Compliance** Applied? Verification Scope and Method New Single Zone Systems & Yes Yes NA COMPLIES Building Equipment Additional Efficiency Dedicated outside air system (DOAS) option Credits Included (AEC) Does building include occupancy classifications requiring No Does project include DOAS equipment? Yes DOAS? Do all systems comply with Appendix D standard reference design or qualify for an exception to Based on project scope do TSPR requirements apply? No No TSPR? **NEW BUILDING - SINGLE ZONE SYSTEMS & EQUIPMENT** Scope & Space Conditioning **Compliance Verification COMPLIES** Single Zone Air Systems Category - Heat pump, unitary, thru-wall, SDHV Air Systems Summary Information Ouantity Supply Airflow Ventilation CFM Ventilation **Energy Recovery** System/Equip ID Ventilation Standard Paired with DOAS Ventilation energy recovery of Items Control (Total if Multiple Items) Efficiency (%) Air Source HP-1-1 Constant volume IMC Ventilation 125 Other System Provided but not required 60 HP-1-2 IMC Ventilation 25 Other System 60 Constant volume Provided but not required IMC Ventilation 150 63 HP-1-3 Constant volume Other System Provided but not required HP-1-4, HP-1-5 IMC Ventilation 450 60 2 Constant volume Other System Provided but not required HP-1-6, HP-1-7 IMC Ventilation 400 2 Constant volume Other System Provided but not required 63 Air Systems & Equipment - Cooling **Cooling Capacity AEC Efficiency Econo Exception Combined Efficiency** Proposed Cooling CE **Proposed Part** PL **Efficiency Compliance** System/ **Cooling System/Equip Type** Specific Type Equip ID per item (Btu/h) Multiplier (FL & PL) Multiplier (AEC & Econo) Units Load Efficiency Verification Multiplier Efficiency Units COMPLIES HP-1-1 Heat pump, air cooled Split system 30,000 1.0 16.0 SEER IEER 8,900 19.0 IEER COMPLIES HP-1-2 Heat pump, air cooled Split system 1 1.0 1 SEER HP-1-3 Heat pump, air cooled 18,000 1.0 16.7 SEER IEER COMPLIES Split system 1 1 HP-1-4, HP-1-5 1.0 16.0 IEER COMPLIES Heat pump, air cooled Split system 30,000 1 1 SEER

Air Systems & Equipment - Heating System AEC Efficiency **Proposed Heat Pump** HPH Proposed Low OSA LTH Efficiency Compliance Heating System/Equip Type Specific Type Heat Pump Heating Capacity (Btu/h) Cooling Capacity (Btu/h) /Equip ID Multiplier Heating Efficiency Units Temp Efficiency Units Verification

1

16.0

SEER

IEER

1.0

Split system

30,000

COMPLIES

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HP-1-1	Heat pump, air cooled, heating	Split system	34,000	30,000	1	9.2	HSPF	COP	COMPLIES
HP-1-2	Heat pump, air cooled, heating	Split system	10,000	8,900	1	10.0	HSPF	COP	COMPLIES
HP-1-3	Heat pump, air cooled, heating	Split system	20,000	18,000	1	9.5	HSPF	COP	COMPLIES
HP-1-4, HP-1-5	Heat pump, air cooled, heating	Split system	34,000	30,000	1	9.2	HSPF	COP	COMPLIES
HP-1-6, HP-1-7	Heat pump, air cooled, heating	Single package	34,000	30,000	1	9.2	HSPF	COP	COMPLIES

Air Systems & Eq	uipment Details							
System/Equip ID	Area(s) Served	Location In Project Documents - Plan/Detail #						
HP-1-1	LEASING	M0.3						
	System/Equip ID for a single or multiple in	ems?: Single item						
	Heating Section/Auxiliary Heating Type: I	Electric resistance (or None)	Economizer Compliance Method: Applying air-side economizer exception					
		p 1 - DOAS paired with cooling system (Note equip location limitations)	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(2) - Unitary and Applied Heat Pumps					
	Proposed Low OSA Temp Efficiency:		LTH Units: COP					
	WSEC Equip Efficiency Reference Table -	Heating: Table C403.3.2(2) - Unitary and Applied Heat Pumps						
HP-1-2	MAINTENANCE OFFICE	M0.3						
	System/Equip ID for a single or multiple in	ems?: Single item						
	Heating Section/Auxiliary Heating Type: I	Electric resistance (or None)	Economizer Compliance Method: Applying air-side economizer exception					
	Air-side economizer exception applied: Ex	p 1 - DOAS paired with cooling system (Note equip location limitations)	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(2) - Unitary and Applied Heat Pumps					
	Proposed Low OSA Temp Efficiency:		LTH Units: COP					
	WSEC Equip Efficiency Reference Table -	Heating: Table C403.3.2(2) - Unitary and Applied Heat Pumps						
HP-1-3	YOGA ROOM	M0.3						
	System/Equip ID for a single or multiple in	ems?: Single item						
	Heating Section/Auxiliary Heating Type: I	Electric resistance (or None)	Economizer Compliance Method: Applying air-side economizer exception					
	Air-side economizer exception applied: Ex	p 1 - DOAS paired with cooling system (Note equip location limitations)	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(2) - Unitary and Applied Heat Pumps					
	Proposed Low OSA Temp Efficiency:		LTH Units: COP					
		Heating: Table C403.3.2(2) - Unitary and Applied Heat Pumps						
HP-1-4, HP-1-5	FITNESS	M0.3						
	System/Equip ID for a single or multiple in	ems?: Multiple items w/ identical heating & cooling capacity						
	Heating Section/Auxiliary Heating Type: I		Economizer Compliance Method: Applying air-side economizer exception					
		p 1 - DOAS paired with cooling system (Note equip location limitations)	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(2) - Unitary and Applied Heat Pumps					
	Proposed Low OSA Temp Efficiency:		LTH Units: COP					
		Heating: Table C403.3.2(2) - Unitary and Applied Heat Pumps						
HP-1-6, HP-1-7	GREAT ROOM	M0.3						
		ems?: Multiple items w/ identical heating & cooling capacity						
	Heating Section/Auxiliary Heating Type: I		Economizer Compliance Method: Applying air-side economizer exception					
		p 1 - DOAS paired with cooling system (Note equip location limitations)	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(2) - Unitary and Applied Heat Pumps					
	Proposed Low OSA Temp Efficiency:		LTH Units: COP					
	WSEC Equip Efficiency Reference Table	Heating: Table C403.3.2(2) - Unitary and Applied Heat Pumps						