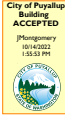


ENVELOPE COMPLIANCE SUMMARY

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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Project & Applicant Information	Project Title	Cascade Christian Schools - Office Remodel & Addition - 2018 WSEC	For Building Department Use: <small>THE APPROVED CONSTRUCTION PLANS, DOCUMENTS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION. FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITEE ON SITE FOR INSPECTION</small>		Date: Sep 07, 2022
	Project Address	815 21st SE Puyallup, WA 98372			
	Applicant Name	Song Cho			
	Applicant Phone	509-432-4651			
	Applicant Email	songyi.cho@hotmail.com			
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com					

City of Puyallup Development & Permitting Services ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

General Occupancy	All Commercial	General Building Use Type	Office, Professional Services	Building Cond. Floor Area	5,440
Project Scope	Building Addition Alteration	Space Conditioning Categories	Fully Conditioned	Project Cond. Floor Area	5,440
				Floors Above Grade	1
				Compliance Method	Compliance Method 1 - General
Envelope Project Description	Tenant improvement in the existing space & Construct 1771 sf addition				

Envelope Compliance Scope and Method	Scope	Space Conditioning Category	Compliance Method	WWR/SRR per Category	UA Calculation Adjustment	Fenestration Alternates	Compliance Verification
	Building Addition	Fully Conditioned	Prescriptive	3.32% / 0%	None selected	No alternates selected	COMPLIES
	Alteration	Fully Conditioned	Component performance	3.32% / 0%	No Calculation Adjustments allowed	No alternates selected	COMPLIES

Air Barrier Testing	Air barrier testing included in project scope	Air Barrier Comments	
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Project Title	Cascade Christian Schools - Office Remodel & Addition - 2018 WSEC				Date	Sep 07, 2022
Scope & Space Conditioning	BUILDING ADDITION - FULLY CONDITIONED			Compliance Verification	COMPLIES	
Window-to-wall Ratio	3.32%	Skylight-to-roof-ratio	0%	Vertical Fenestration Alternate	No alternates selected	

Opaque Envelope Assemblies								
Roof/Ceiling	Location in Documents	Assembly ID	Assembly Location	Insulation R-Values			U-Factor	Net Area (SF)
				Cavity	Continuous (% penetration)	2nd Layer (MB Roof)		
Attic and other	A4.1	A4.1	Exterior	R-49	(< 0.04%)			1,771
	U-Factor Source:			U-Factor Source Description:				
	Roof Framing Type (Standard, Advanced): Standard			Roof Framing Material: Wood-framed				
	Ceiling/Attic Venting:			Is this assembly exterior or interior?: Exterior				
Walls	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	Insulated Wall Furring	U-Factor	Net Area (SF)
	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 assembly exterior or interior?: Exterior							
Floors and Edges	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	U-Factor	Net Area (SF)	
								Wood-framing/joist
	U-Factor Source:			U-Factor Source Description:				
	Floor Framing Type (Joist, Post & Beam):			Framing Depth:				
	Is this assembly exterior or interior?: Exterior							

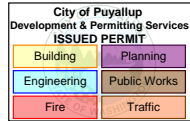
Fenestration & Opaque Door Assemblies									
Vertical Fenestration	Location in Documents	Assembly ID	Assembly Location	Insulation R-Values			Fenestration	Fenestration	Rough
				Orientation	Shading (PF)	Fenestration			

PRCA20220580

						SHGC	U-Factor	Opening (SF)
Operable - Class AW or site built	A7.1	A7.1	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.40	122
	U-Factor & SHGC Source:			U-Factor Source Description:				
	Is this assembly exterior or interior?: Exterior							
Operable - Class AW or site built	A7.1	A7.1	Exterior	North Facing	PF < 0.2	SHGC-0.51	U-0.4	76
	U-Factor & SHGC Source:			U-Factor Source Description:				
	Is this assembly exterior or interior?: Exterior							

Project Title	Cascade Christian Schools - Office Remodel & Addition - 2018 WSEC					Date	Sep 07, 2022
Scope & Space Conditioning	ALTERATION - FULLY CONDITIONED			Compliance Verification	COMPLIES		
Window-to-wall Ratio	3.32%	Skylight-to-roof-ratio	0%	Vertical Fenestration Alternate	No alternates selected		

Opaque Envelope Assemblies								
Walls	Location in Documents	Assembly ID	Assembly Location	Insulation R-Values			U-Factor	Net Area (SF)
				Cavity	Continuous (% penetration)	Insulated Wall Furring		
Wood-framed and other - Commercial	A4.1	A4.1	Interior partition	R-21	R-0 (< 0.04%)		U-0.054	157
	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): Standard				
	Framing Depth:			Framing Spacing:				
	Is this assembly exterior or interior?: Interior partition			Is assembly new, upgraded or unaltered existing?:				



Project Title					Date		
Cascade Christian Schools - Office Remodel & Addition - 2018 WSEC					Sep 07, 2022		
U x A Calculation		ALTERATION - FULLY CONDITIONED			COMPLIES		
Opaque Envelope Assemblies		PROPOSED			TARGET		
Walls	Assembly ID	Wall Assembly U-factor	Net Area (SF)	U x A	Wall Assembly U-factor	Net Area (SF)	U x A
Wood-framed and other - Commercial	A4.1	0.054	157.0	8.5	0.054	157.0 (1)	8.5
Project Totals		Proposed Area	Proposed UxA	Target Area	Target UxA		
		157	8	157	8		

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Project Title	Cascade Christian Schools - Office Remodel & Addition - 2018 WSEC			Date	Sep 07, 2022
SHGC x A Calculation		ALTERATION - FULLY CONDITIONED		COMPLIES	
	Proposed Area	Proposed SHGC x A	Target Area	Target SHGC x A	
Project Totals	0				

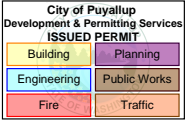
City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

PRCA20220580

MECHANICAL COMPLIANCE SUMMARY

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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Project & Applicant Information	Project Title	Cascade Christian - Office Addition - 2018 WSEC	For Building Department Use: 	Date: Mar 30, 2022
	Project Address	815 121st Street SE Puyallup, WA 98372		
	Applicant Name	Rachel Benda		
	Applicant Phone	253-651-6780		
	Applicant Email	rbenda@middlebrookeng.com		
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com				

General Occupancy	All Commercial		General Building Use Type	Office, Other	Building Cond. Floor Area	1,553
General Project Types	Building Addition	New Building or Addition Mechanical Scope	Single Zone Systems & Equipment	Alteration Mechanical Scope	Project Cond. Floor Area	1,553
					Floors Above Grade	1
					Compliance Method	Compliance Method 1 - General
Mechanical Project Description	Provide heating and cooling system for all zones. Provide Dedicated Outdoor Air system for ventilation zone.					

Mechanical Compliance Scope and Method	Project Type	Mechanical Scope	Economizer Exception(s) Applied?	DOAS Ventilation Provided?	Higher Equipment Efficiency Option Applied?	Equipment Efficiency Compliance Verification
		Building Addition	Single Zone Systems & Equipment	No	Yes	NA
Additional Efficiency Credits Included (AEC)						
Does building include occupancy classifications requiring DOAS?	Yes		Does project include DOAS equipment?			Yes
Based on project scope do TSPR requirements apply?	No		Do all systems comply with Appendix D standard reference design or qualify for an exception to TSPR?			No

Scope & Space Conditioning	BUILDING ADDITION - SINGLE ZONE SYSTEMS & EQUIPMENT	Compliance Verification	COMPLIES
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Single Zone Air Systems Category - Dedicated outside air system (DOAS)**Air Systems Summary Information**

System/Equip ID	Paired with other Systems/Equip	Ventilation Airflow Control	Ventilation Standard	Ventilation CFM	Ventilation energy recovery	Energy Recovery Efficiency (%)
DOAS-01		Constant volume	ASHRAE Standard 62.1	395	Yes per C403.7.6 Energy Recovery	64

Air Systems & Equipment - Heating

System /Equip ID	Heating System/Equip Type	Specific Type	Heat Pump Heating Capacity (Btu/h)	Cooling Capacity (Btu/h)	AEC Efficiency Multiplier	Proposed Heat Pump Heating Efficiency	HPH Units	Proposed Low OSA Temp Efficiency	LTH Units	Efficiency Compliance Verification
DOAS-01	DOAS	Energy recovery ventilator (ERV)			1					COMPLIES

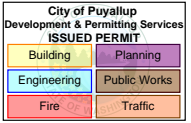
Air Systems & Equipment Details

System/Equip ID	Area(s) Served	Location In Project Documents - Plan/Detail #
DOAS-01	OFFICES	MH601
DOAS paired with heating & cooling systems/equip: Paired w/ one single zone system or equipment		

LIGHTING COMPLIANCE SUMMARY

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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Project & Applicant Information	Project Title	Cascade Christian Schools Office Remodel & Addition - 2018 WSEC	For Building Department Use: 	Date: Oct 03, 2022
	Project Address	815 21 St SE Puyallup, WA 98372		
	Applicant Name	Jeff Platt		
	Applicant Phone	253-848-6998		
	Applicant Email	jeff_p@boonenw.com		

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

General Occupancy	All Commercial	General Building Use Type	Office, Other	Building Cond. Floor Area	5,440	
General Project Types	Building Addition	New Building or Addition Lighting Scope	Interior Lighting	Alteration Lighting Scope	Project Cond. Floor Area	5,440
					Floors Above Grade	1
					Compliance Method	Compliance Method 1 - General
Lighting Project Description						

Lighting Compliance Scope and Method	Project Type	Interior / Exterior <small>(Interior includes both interior & parking)</small>	Luminaire Replacement Scope	Compliance Method	LPA Calculation Adjustment	Compliance Verification
	Building Addition	Interior Lighting		Building area	No Calculation Adjustments selected	COMPLIES
Additional Efficiency Options Included						

Project Title	Cascade Christian Schools Office Remodel & Addition - 2018 WSEC	Date	Oct 03, 2022
Lighting Power Calculation	BUILDING ADDITION - INTERIOR LIGHTING	Compliance Verification	
Compliance Method	Building area	LPA Calculation Adjustment	none

Interior Lighting Power Allowance - Building Area					
Building Areas	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 1)	Total Proposed Watts By Building Area	Compliance Status by Building Area
Office	1,900	0.64	1,216	720	COMPLIES

Proposed Lighting Power Density								
Fixture Type/Application	Fixture ID	Building Area	New or Existing-to-Remain	Quantity of Fixtures, CLDs or Luminaires (#F)	Watts per Fixture, CLD or Luminaire (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures								
Horizontal surface-mount	L3	Office	New	16	30			480
Recessed downlight	L2	Office	New	12	20			240

Project Title	Cascade Christian Schools Office Remodel & Addition - 2018 WSEC	Date	Oct 03, 2022		
Proposed Fixtures Details	BUILDING ADDITION - INTERIOR LIGHTING				
Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	Building Area	New or Existing-to-Remain
Individual Fixtures					
Horizontal surface-mount	L3	A2.2	LED	Office	New
Fixture Description:				Are these fixtures located within a daylight zone?:	
Do these fixtures require specific application lighting controls?:					
Recessed downlight	L2	A2.2	LED	Office	New

City of Puyallup Development & Permitting Services		Fixture Description:	Are these fixtures located within a daylight zone?:
ISSUED PERMIT		Do these fixtures require specific application lighting controls?:	
Building	Planning		
Engineering	Public Works		
Fire	Traffic		