



PRCTI20231318



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 - 2018 WSEC	For Building Department Use:	Date: Oct 24, 2023
	Project Address	Puyallup, WA		
	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	Education, Primary (Elem/Mid)	Building Cond. Floor Area	14,000
General Project Types	Building Addition	New Building or Addition Mechanical Scope	Multiple Zone Systems & Equipment	Alteration Mechanical Scope	Project Cond. Floor Area	14,000
					Floors Above Grade	2
					Compliance Method	Compliance Method 1 - General
Mechanical Project Description	We will be providing an HVAC system based on variable refrigerant flow (VRF) with DOAS for a 14,000 square foot classroom and office addition.					

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	Multiple Zone Systems & Equipment	No	Yes	NA	COMPLIES
Additional Efficiency Credits Included (AEC)	Dedicated outside air systems (DOAS)					
Does building include occupancy classifications requiring DOAS?	Yes		Does project include DOAS equipment?			Yes
Based on project scope do TSPR requirements apply?	Yes		Do all systems comply with Appendix D standard reference design or qualify for an exception to TSPR?			Yes

Scope & Space Conditioning	BUILDING ADDITION - MULTIPLE ZONE SYSTEMS & EQUIPMENT	Compliance Verification	COMPLIES
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Multiple Zone Air Systems Category - Dedicated outside air system (DOAS)

Air Systems Summary Information						
System ID	Paired with other Systems/Equip	Ventilation Airflow Control	Ventilation Standard	Ventilation CFM	Ventilation energy recovery	Energy Recovery Efficiency (%)
DOAS-2	Stand alone DOAS (not paired with other system)	Constant volume	ASHRAE Standard 62.1	4,705	Yes per C403.6 DOAS	75

Air Terminal Equipment						
System ID	Air Terminal Type	Specific Type	Quantity	Cooling Capacity (Btu/h)	Heating Capacity (Btu/h)	Reheat Type
DOAS-2	Air terminal units		24			No reheat

Air Systems & Equipment Details			
System ID	Area(s) Served	Location In Project Documents - Plan/Detail #	
DOAS-2{{detail-2330}}	Second Floor Classrooms {{detail-2312}}	MH602{{detail-2315}}	
DOAS paired with heating & cooling systems: Stand alone DOAS (not paired with other system)			

FULL SIZED LEDGIBLE COLOR REPORT ARE REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS (MIN. PLAN SIZE 24" X 36")