ENVELOPE COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

	Project Title	WSF-International Village - 2021 WSEC	For Building Department Use:	Date: Mar 19, 2025
Project & Applicant Information	Project Address	110 9TH AVE SW Puyallup, WA 98371	PRCNC20241090 - Revision #4	City of Payallap Development & Permitting Sarvica
	Applicant Name	Song Cho		ISSUED PERMIT Building Planning
	Applicant Phone	509-432-4651		Engineering Public Works Fire Contractic
	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	

General Occupancy	All Commercial	General Building Use Type(s)	Dining, Restaurant/Bar	Building Cond. Floor Area	9,205			
	9		Fully Conditioned	Project Cond. Floor Area	9,205			
Project Scope	New Building	New Building Space Conditioning Categories		Floors Above Grade	2			
		Categories	Walk-in Freezer	Compliance Method	General Prescriptive			
Envelope Project Description	Demo existing building and construct a new building							

Envelope	Scope	Space Conditioning Category	Compliance Method	WWR/SRR per Category	UA Calculation Adjustment	Fenestration Alternates	Compliance Verification
Compliance	New Building	Walk-in Freezer	Prescriptive	NA	No Calculation Adjustments allowed	NA	COMPLIES
Scope and Method	New Building	Walk-in Cooler	Prescriptive	Prescriptive NA No Calculation Adjustments allow		NA	COMPLIES
	New Building	Fully Conditioned	Illy Conditioned Component performance		None selected	No alternates selected	COMPLIES
Additional Energy Efficiency (AEC) No envelope of the second		No envelope or m			Load Management (LDM) Measures Included	No envelope or miscellar measures inclu	
Air Barrier Testing Standard building thermal envelope test			be test	Air Barrier Comments			

Proj	oject Title	WSF-Internation	al Village - I	2021 WSEC		Date	Mar 19, 2025
Scope & Space Conditioning NEW BUILDING		LDING - WALK-IN FREEZER		Compliance Verification		COMPLIES	
Window-to-	ndow-to-wall Ratio NA Skylight-to-roof-ratio NA Vertical Fenestration Alternate			NA			

Opaque Envelope Assemblies								
					Insulation R-Values			
Roof/Ceiling	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	2nd Layer (MB Roof)	U-Factor	Net Area (SF)
Walk-in freezer ceiling	K Sheet	K Sheet	Interior partition		R-32 (< 0.04%)			223
	Envelope assembly type:			U-Factor Source:				
	U-Factor Source Description:							
Walls	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	Insulated Wall Furring	U-Factor	Net Area (SF)
Walk-in freezer wall	K Sheet	K Sheet	Interior partition		R-32 (< 0.04%)			490
	Envelope assembly type:			U-Factor Source:				
	U-Factor Source Description:							
Floors and Edges	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)		U-Factor	Net Area (SF)
Walk-in freezer integral floor	K Sheet	K Sheet	Interior partition		R-28 (< 0.04%)			223
	U-Factor Source:	•		U-Factor Source Descrip	tion:			
Fenestration & Opaque Door Assemblies	5							
					Insulation R-Values			
Opaque Doors	Location in Documents	Assembly ID	Assembly Location	Door Insulation			U-Factor	Rough Opening (SF)

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							1					
Wa	Walk-in freezer door K Sheet K Sheet Interior partition R-32							21				
	U-	Factor Source:			U-Factor Source	J-Factor Source Description:						
	Do	es opaque freezer door have glazing?:	No									
Project Title	WSF-Internati	onal Village - 2021 WSEC						D	ate Mar 19	9, 2025		
J						-				, 		
Scope & Space Con	ditioning	NEW BUILDING - WALK	K-IN COOLER				Co	ompliance Verifica	tion COMPI	LIES		
Window-to-wall Ratio		NA Skylight-to-roof-ra	atio		NA	Vertical	Fenestration Alternate			NA		
Window to Wan Ratio		Skynght to 1001 ft		1111	vertical	renești actori 7 fitter nate			1171			
Opaque Envelope Asser	nblies											
a Kurdina a sa							Insulation R-Values		T			
					~		Continuous	2nd Layer				
Roof/Ceiling		Location in Documents	Assembly ID	Assembly Location	Cav	ity	(% penetration)	(MB Roof)	U-Factor	Net Area (SF)		
	Walk-in cooler ceili	ng K Sheet	K Sheet	Interior partition			R-25 (< 0.04%)			290		
		Envelope assembly type:		1	U-Factor Sor	urce:	, , ,		<u>I</u> I			
		U-Factor Source Description:										
XX7.11.		Level a Description			C.	•,	Continuous	Insulated Wall	II Forder	N. (CE)		
Walls		Location in Documents	Assembly ID	Assembly Location	Cav	пу	(% penetration)	Furring	U-Factor	Net Area (SF)		
	Walk-in cooler w	all K Sheet	K Sheet	Interior partition			R-25 (< 0.04%)			520		
		Envelope assembly type:			U-Factor Sou	arce:						
		U-Factor Source Description:										
Floors and Edges		Location in Documents	Assembly ID	Assembly Location	Cav	itv	Continuous		U-Factor	Net Area (SF)		
			•	-	Cav	ny	(% penetration)		0-1 actor			
Walk	c-in cooler integral flo		K Sheet	Interior partition			R-25 (< 0.04%)			290		
		U-Factor Source:	1	1	U-Factor Sou	arce Descrip	otion:					
Slab-on-grade Floors		Location in Documents	Assembly ID	Assembly Location	Slab I	Edge	Under Slab		F-Factor	Perimeter Length (SF)		
Walk_in co	oler slab-on-grade flo	or K Sheet	K Sheet						<u> </u>	Length (SF)		
Wark-In Co	oler slab-oli-grade ne	Applying slab-on-grade floor except							<u> </u>			
Farranting & Organis	Dava Assemblies	rippiying slab-on-grade noor excep										
Fenestration & Opaque	Door Assemblies						* 1.4 S.Y.I					
			Г				Insulation R-Values	[г			
Opaque Doors		Location in Documents	Assembly ID	Assembly Location	Door Ins	ulation			U-Factor	Rough Opening (SF)		
	Walk-in cooler do	or K Sheet	K Sheet	Interior partition	R-2	25			+	21		
	Walk-III cooler de	U-Factor Source:	K Blieet	interior partition	U-Factor Sor	-	tion:		<u> </u>	21		
		Does opaque cooler door have glaz	ring?: No		0-140101 50	nee Deserip						
		Boes opaque cooler door have giaz										
Drainat Title	WEE Intownat	anal Villaga 2021 WSEC						D	ata Man 1	0 2025		
Project Title	wsr-internati	onal Village - 2021 WSEC						D	ate Mar 19	9, 2025		
Scope & Space Con	ditioning	NEW BUILDING - FULLY	V CONDITIONE	D			Compli	ance Verification	COMPLIES			
Scope & Space Con	untioning		I COMDITIONE	D	T		Comput	ance vermeation				
Window-to-wall Ratio		0.22% Skylight-to-	roof-ratio		0%	Vertical F	enestration Alternate		No alterr	nates selected		
Opaque Envelope Asser	nblies											
							Insulation R-Values	-				
Roof/Ceiling		Location in Documents	Assembly I	D Assembly Location	on	Cavity	Continuous (% penetration	2nd Layer 1) (MB Roof)	U-Factor	Net Area (SF)		
Me	tal building (purlins)	Main Kitchen + 2nd floor	1/A4.1	Exterior		R-13	R-16 (< 0.04%	, , ,	U-0.040	7,085		
	an ounding (purilis)	Thermal Spacer Block R-Value: R-0	1/77.1	EAUTO	U-Factor		110 (< 0.0470	/ 10	0-0.040	7,005		
		U-Factor Source Description:				ning Depth	(Inches):					
		Roof Framing Spacing (OC):				stem includ	. ,					
Me	tal building (purlins)	2nd Floor Deck	2/A4.1	Exterior	15 miler Sy	R-13	R-16 (< 0.04%) R-0	U-0.040	2,543		
IVIC		LIG I IOUI DOOK	2/1 x-T.1	LAUTOI	1		110(~0.07/0	/ 10	0.040	2,545		

U-Factor Source:

Roof Framing Depth (Inches):

Thermal Spacer Block R-Value: R-0

U-Factor Source Description:

	Roof Framing Spacing (OC):			Is liner system included?: No)			
Walls	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	Insulated Wall Furring	U-Factor	Net Area (SF)
Steel-framed - Commercial	E03-Main Kitchen + 2nd floor	1/A4.1	Exterior	R-21	R-10 (< 0.04%)		U-0.050	7,252
	U-Factor Source:			U-Factor Source Description	:			
	Framing Depth:			Other Framing Depth:				
	Framing Spacing (OC):							
Steel-framed - Commercial	E01-Satellite Kitchen	A4.1~4.2	Exterior	R-21	R-10 (< 0.04%)		U-0.050	4,347
	U-Factor Source:			U-Factor Source Description	:			
	Framing Depth:			Other Framing Depth:				
	Framing Spacing (OC):							
Steel-framed - Commercial	A2.1 - BATHROOM WALL & A4.2	A4.2	Exterior	R-21	R-10 (< 0.04%)		U-0.050	2,053
	U-Factor Source:			U-Factor Source Description	:			
	Framing Depth:			Other Framing Depth:				
	Framing Spacing (OC):							
Mass (precast concrete) - Commercial	6" Stem wall above FF	1/A4.1	Exterior & above grade		R-10 (< 0.04%)	No	U-0.07	2,053
	Does assembly include insulated wall furring	g?: No		Other Framing Depth:			•	•
	Framing Spacing (OC):			U-Factor Source:				
	U-Factor Source Description:							
Floors and Edges	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)		U-Factor	Net Area (SF)
Wood-framing/joist	A2.2 & A4.3 - Hall 215	2/A4.3	Exterior	R-38	(< 0.04%)		U-0.026	208
	U-Factor Source:			U-Factor Source Description	:			
	Floor Framing Type (Joist, Post & Beam):			Framing Depth:				
	Other Framing Depth:			Framing Spacing (OC):				
Wood-framing/joist	A2.2 & 2/A4.3 - Str 211	2/A4.3	Exterior	R-38	(< 0.04%)		U-0.026	20
	U-Factor Source:			U-Factor Source Description	:			
	Floor Framing Type (Joist, Post & Beam):			Framing Depth:				
	Other Framing Depth:			Framing Spacing (OC):				
Slab-on-grade Floors	Location in Documents	Assembly ID	Assembly Location	Slab Edge	Under Slab		F-Factor	Perimeter Length (SF)
Unheated slab	A4	A4	At grade level	R-10			F-0.56	707
	Slab Insulation Method: 2 ft vertical (from to	op of slab downwa	urd)	F-Factor Source:				
	F-Factor Source Description:							
Fenestration & Opaque Door Assemblies								
				Ins	ulation R-Values			
Opaque Doors	Location in Documents	Assembly ID	Assembly Location	Door Insulation			U-Factor	Rough Opening (SF)
Swinging	A7	A7	Exterior				U-0.30	378
	What percentage of this opaque door is glazi		<u> </u>	U-Factor Source:				
	U-Factor Source Description:	<u> </u>		Is this a public entrance door	?:			
Vertical Fenestration	Location in Documents	Assembly ID	Assembly Location		Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)
Fixed - All other types	A2	A7	Exterior		PF < 0.2	SHGC-0.38	U-0.26	35
		U-Factor Source Description:						

Project Title WSF-International	Village - 2021 WSEC]	Date Mar 19, 2	025
U x A Calc	ulation	NEW B	UILDING - FULLY	CONDITIONEI)		COMPLIES	
	Opaque Envelope Assemblies	PROPOSED				TARGET		
Roof/Ce	iling	Assembly ID	Roof/Ceiling Assembly U- Factor	Net Area (SF)	U x A	Roof/Ceiling Assembly U- Factor	Net Area (SF)	U x A
	Metal building (purlins)	1/A4.1	0.040	7,085.0	283.4	0.031	7,085.0 (1)	219.6
	Metal building (purlins)	2/A4.1	0.040	2,543.0	101.7	0.031	2,543.0 (1)	78.8
Wall	5	Assembly ID	Wall Assembly U- factor	Net Area (SF)	U x A	Wall Assembly U- factor	Net Area (SF)	U x A
	Steel-framed - Commercial	1/A4.1	0.050	7,252.0	362.6	0.055	7,252.0 (1)	398.9
	Steel-framed - Commercial	A4.1~4.2	0.050	4,347.0	217.4	0.055	4,347.0 (1)	239.1
	Steel-framed - Commercial	A4.2	0.050	2,053.0	102.7	0.055	2,053.0 (1)	112.9
	Mass (precast concrete) - Commercial	1/A4.1	0.07	2,053.0	143.7	0.104	2,053.0 (1)	213.5
Floors and	Edges	Assembly ID	Floor Assembly U- Factor	Net Area (SF)	U x A	Floor Assembly U- Factor	Net Area (SF)	U x A
	Wood-framing/joist	2/A4.3	0.026	208.0	5.4	0.029	208.0 (1)	6.0
	Wood-framing/joist	2/A4.3	0.026	20.0	0.5	0.029	20.0 (1)	0.6
	Slab on Grade Floors			PROPOSED			TARGET	
Slab-on-grad	le Floors	Assembly ID	F-Factor	Perimeter Length (LF)	UxA	F-Factor	Perimeter Length (LF)	U x A
	Unheated slab	A4	0.56	707.0	395.9	0.54	707.0 (1)	381.8
	Fenestration Assemblies			PROPOSED			TARGET	
Opaque I	Doors	Assembly ID	Door Assembly U- Factor	Assembly Rough Opening (SF)	U x A	Door Assembly U- Factor	Assembly Rough Opening (SF)	U x A
	Swinging	A7	0.30	378.0	113.4	0.37	378.0 (1)	139.9
Vertical Fen	estration	Assembly ID	Fenestration U-Factor	Assembly Rough Opening (SF)	U x A	Fenestration U-Factor	Assembly Rough Opening (SF)	U x A
	Fixed - All other types	A7	0.26	35.0	9.1	0.26	35.0 (1)	9.1
	Proposed Area	Pr	oposed UxA		Target Area		Target Ux	A
Project Totals	26,681		1,736		26,681		1,800	

Project Title WSF-Interna	ect Title WSF-International Village - 2021 WSEC									
SHGC x A Calculation NEW BUILDING - FULLY CONDITIONED					COMP	LIES				
Fenestration Assemblies				PROPOSED				TARGET		
Vertical Fenestration		Assembly ID	PF	Fenestration SHGC	Assembly Rough Opening (SF)	SHGC x A	Fenestra SHG			
F	ixed - All other types	A7	PF < 0.2	0.38	35.0	13.3	0.38	3 35.0 (1)	13.3	
	Proposed Area Propos			sed SHGC x A Target Area				Target SHGC x A		
Project Totals		35		13 35			13			