## 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	Project Title	Kendall Subaru - 2018 WSEC	For Building Department Use:	Date:	Aug 09, 2022
	Project Address	xxx Smokey Point BLVD Marysville,, WA 98223		Dute.	1149 05, 2022
Information	Applicant Name	PAUL DOUGLAS			
	Applicant Phone	425-252-2153			
	Applicant Email	paul@2812architecture.com			
	For questions about this report, con	tact WSEC Commercial Technical Support at 360-5	39-5300 or via email at com.techsupport@waenergycodes.com		

General Occupancy	All Commercial	General Building Use Type	Retail, Automobile Dealership	Building Cond. Floor Area	71,896		
Project Scope				Project Cond. Floor Area	0		
	New Building	New Building Space Conditioning Categories		Floors Above Grade	2		
				Compliance Method	Compliance Method 2 - Total Building Performance		
Envelope Project Description	Met	Metal building walls with R 19 rigid insulation, Metal roof with rigid insulation, Sales and business areas to be storefront with single ply roof and rigid insulation.					

Envelope Compliance Scope and	Scope	Space Conditioning Category	Compliance Method	WWR/SRR per Category	UA Calculation Adjustment	Fenestration Alternates	Compliance Verification
Method	New Building	Fully Conditioned	Prescriptive	14.48% / 0%	None selected	No alternates selected	COMPLIES

£	Air Barrier Testing	Air barrier testing included in project scope	Air Barrier Comments	
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	Project Title Kendall Subaru - 2018 WSEC						Da	Aug 09, 2022
Scope & Space Conditioning		litioning	NEW BUILDING	G - FULLY CONDITIONED		Compliance V	Verification (	COMPLIES
Window-to-wall Ratio		14.48%	Skylight-to-roof-ratio	0%	Vertical Fenestration Alternate		No alternates selected	

Opaque Envelope Assemblies								
				Insul	ation R-Values			
Roof/Ceiling	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	2nd Layer (MB Roof)	U-Factor	Net Area (SF)
Metal building (purlins)	A2.6	metal roof	Exterior	R-25	(< 0.04%)	R-11	U-0.031	65,875
	Thermal Spacer Block R-Value: R	-3.5		Is liner system include	ed?: Yes			
	U-Factor Source: WSEC Appendi	x A		U-Factor Source Desc	cription:			
	Is this assembly exterior or interior	r?: Exterior						
Joist or single rafter	A2.6	single ply membrane roof over rigid insulation ( open to deck above)	Exterior		(< 0.04%)		U-0.027	3,234
	U-Factor Source: WSEC Appendi	x A		U-Factor Source Desc				
	Roof Framing Type (Standard, Ac	vanced): Standard		Roof Framing Material: Steel-framed				
	Ceiling/Attic Venting: Unvented			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)
Metal building (girts)	A4.8-A4.9, A2.2, A2.1, A3.1	metal	Exterior	R-19	R-19 (< 0.04%)		U-0.052	24,186
	Which insulation code target does	wall comply with?: R-19 CI		U-Factor Source: WS	EC Appendix A			
	U-Factor Source Description: WSEC Framing Depth: Other Framing Depth							
	Framing Spacing: metal finish with rigid insulation  Is this assembly exterior or interior?: Exterior							
Mass (concrete masonry) - Commercial	Elevation A3.1	CMU wall with rigid insulation	Yes		(< 0.04%)		U-0.104	1,682
	Is CMU wall eligible for wall insulation exception?: Yes Percenta				Percentage of CMU cores filled with insulation: 50% or more			

	Space type enclosed by CMU wall	s: Warehouse (storage and retail)		Framing Spacing:						
	U-Factor Source Description:									
Slab-on-grade Floors	Location in Documents	Assembly ID	Assembly Location	Slab Edge	Under Slab		F-Factor	Perimeter Length (SF)		
Unheated slab	A2.1, A4.1-A4.10	Concrete	At grade level	R-10			F-0.54	69,156		
	Slab Insulation Method: Uninsulat	ed slab	•	F-Factor Source: WSI	EC Appendix A					
	F-Factor Source Description: WSI	BC .								
Fenestration & Opaque Door Assembl	ies									
				Insul	ation R-Values					
Opaque Doors	Location in Documents	Assembly ID	Assembly Location	Door Insulation			U-Factor	Rough Opening (SF)		
Swinging	Elevation A3.1 , A3.1, A4.1 - A4.10	INSULATED HOLLOW METAL DOOR	Exterior				U-0.29	358		
	What percentage of this opaque do	or is glazing?: 50% or less		U-Factor Source: WS	EC Appendix A					
	U-Factor Source Description:			Is this assembly exteri	ior or interior?: E	xterior				
	Is this a public entrance door?: No									
Garage, Sectional		SECTIONAL OVERHEAD / ROLL UP DOOR	Exterior				U-0.071	2,387		
	What percentage of this opaque do			U-Factor Source: WS						
	U-Factor Source Description: WS	EC		Is this assembly exteri	ior or interior?: E	xterior	,			
Vertical Fenestration	Location in Documents	Assembly ID	Assembly Location	Orientation	Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)		
Fixed - Class AW or site built	Elevation A3.1	fixed window	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.38	135		
	U-Factor & SHGC Source: WSEC Appendix A			U-Factor Source Description: WSEC						
	Is this assembly exterior or interio	r?: Exterior			-					
Fixed - Class AW or site built		fixed window	Exterior	North Facing	PF < 0.2	SHGC-0.51	U-0.38	10		
	U-Factor & SHGC Source: WSEC			U-Factor Source Desc	ription: WSEC					
	Is this assembly exterior or interio	r?: Exterior	-				,			
Curtain wall (external non-load bearing wall)	A2.1, A4.1-A4.10	Storefront	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.38	4,585		
		U-Factor & SHGC Source: WSEC Appendix A				U-Factor Source Description: WSEC				
	Is this assembly exterior or interio	r?: Exterior								
Glazed Doors	Location in Documents	Assembly ID	Assembly Location	Orientation	Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)		
Sliding entrance door	A5.4, A2.1	Storefront	Exterior	North Facing	PF < 0.2	SHGC-0.51	U-0.41	39		
	U-Factor & SHGC Source: WSEC	Appendix A		U-Factor Source Desc	cription: WSEC					
	Is this assembly exterior or interio	r?: Exterior		Is this a public entrance	ce door?: Yes					
	Door enclosed within a vestibule?	No vestibule	•							
Sliding entrance door	·	Storefront	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.41	42		
	U-Factor & SHGC Source: WSEC			U-Factor Source Desc						
	Is this assembly exterior or interio	r?: Exterior		Is this a public entrance	ce door?: No					
Sliding entrance door	·	SLIDING	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.41	35		
	U-Factor & SHGC Source: WSEC	••		U-Factor Source Desc						
	Is this assembly exterior or interio			Is this a public entrand	ce door?: Yes					
	Door enclosed within a vestibule?	Yes								