



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	Goldfish Swim School - Tenant Improvement - 2018 WSEC	For Building Department Use:	Date: Jan 26, 2023
	Project Address	3500 South Meridian 900-30 Puyallup, WA 98373		
	Applicant Name	Kenneth Moreland		
	Applicant Phone	248-557-1062		
	Applicant Email	kmoreland@dorchennmartin.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	Entmt/Assembly, Natatorium	Building Cond. Floor Area	8,613
Project Scope	Alteration	Space Conditioning Categories	Fully Conditioned	Project Cond. Floor Area	8,613
				Floors Above Grade	1
				Compliance Method	Compliance Method 1 - General
Envelope Project Description	Construction of a swim school in an existing mercantile building.				

Envelope Compliance Scope and Method	Scope	Space Conditioning Category	Compliance Method	WWR/SRR per Category	UA Calculation Adjustment	Fenestration Alternates	Compliance Verification
	Alteration	Fully Conditioned	Component performance	6.78% / 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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Scope & Space Conditioning	ALTERATION - FULLY CONDITIONED			Compliance Verification	COMPLIES	
Window-to-wall Ratio	6.78%	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)		
Insulation entirely above deck	A.101, A.302	Roof/Ceiling	Exterior		R-20.0 (< 0.04%)		U-0.050	8,613
U-Factor Source: Computed				U-Factor Source Description: 1/R				
Is this assembly exterior or interior?: Exterior				Is assembly new, upgraded or unaltered existing?: Unaltered existing assembly				
Walls	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	Insulated Wall Furring	U-Factor	Net Area (SF)
Mass (precast concrete) - Commercial	A.100	Walls	Yes	R-19	R-19.0 (< 0.04%)	Yes	U-0.053	4,000
Does assembly include wall furring?: Yes				Wall Furring Material: Steel-frame				
Framing Depth: Other Framing Depth				Framing Spacing: 16				
U-Factor Source: Computed				U-Factor Source Description: 1/R				
Is assembly new, upgraded or unaltered existing?: Upgraded existing assembly								
Slab-on-grade Floors	Location in Documents	Assembly ID	Assembly Location	Slab Edge	Under Slab		F-Factor	Perimeter Length (SF)
Unheated slab	A.100	Slab on Grade	At grade level	R-00	R-00		F-0.73	187
Slab Insulation Method: Uninsulated slab				F-Factor Source: WSEC Appendix A				
F-Factor Source Description: TABLE 106.1				Is assembly new, upgraded or unaltered existing?: New assembly				

Fenestration & Opaque Door Assemblies

Vertical Fenestration	Location in Documents	Assembly ID	Assembly Location	Insulation R-Values			Fenestration U-Factor	Rough Opening (SF)
				Orientation	Shading (PF)	Fenestration SHGC		
Curtain wall (external non-load bearing wall)	A.100	Vertical Fenestration	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.25	291

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	U-Factor & SHGC Source: Other Source	U-Factor Source Description: Manufacturer
	Is this assembly exterior or interior?: Exterior	Is assembly new, upgraded or unaltered existing?: New assembly

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U x A Calculation		ALTERATION - FULLY CONDITIONED			COMPLIES			
Opaque Envelope Assemblies		PROPOSED			TARGET			
Roof/Ceiling	Assembly ID	Roof/Ceiling Assembly U-Factor	Net Area (SF)	U x A	Roof/Ceiling Assembly U-Factor	Net Area (SF)	U x A	
Insulation entirely above deck	Roof/Ceiling	0.050	8,613.0	430.7	0.027	8,613.0 (1)	232.6	
Walls	Assembly ID	Wall Assembly U-factor	Net Area (SF)	U x A	Wall Assembly U-factor	Net Area (SF)	U x A	
Mass (precast concrete) - Commercial	Walls	0.053	4,000.0	212.0	0.104	4,000.0 (1)	416.0	
Slab on Grade Floors		PROPOSED			TARGET			
Slab-on-grade Floors	Assembly ID	F-Factor	Perimeter Length (LF)	U x A	F-Factor	Perimeter Length (LF)	U x A	
Unheated slab	Slab on Grade	0.73	187.0	136.5	0.54	187.0 (1)	101.0	
Fenestration and Opaque Door Assemblies		PROPOSED			TARGET			
Vertical Fenestration	Assembly ID	Fenestration Assembly U-Factor	Rough Opening (SF)	U x A	Fenestration Assembly U-Factor	Rough Opening (SF)	U x A	
Curtain wall (external non-load bearing wall)	Vertical Fenestration	0.25	291.0	72.8	0.38	291.0 (1)	110.6	
Project Totals		Proposed Area	Proposed UxA	Target Area		Target UxA		
Project Totals		13,091	852	13,091		860		

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SHGC x A Calculation		ALTERATION - FULLY CONDITIONED				COMPLIES		
Fenestration and Opaque Door Assemblies				PROPOSED		TARGET		
Vertical Fenestration - South/East/West Facing	Assembly ID	PF	Fenestration SHGC	Rough Opening (SF)	SHGC x A	Fenestration SHGC	Rough Opening (SF)	SHGC x A
Curtain wall (external non-load bearing wall)	Vertical Fenestration	PF < 0.2	0.38	291.0	110.6	0.38	291.0 (1)	110.6
Proposed Area		Proposed SHGC x A		Target Area		Target SHGC x A		
Project Totals		291		111		291		111

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