

**ENVELOPE COMPLIANCE SUMMARY**

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

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<b>Project &amp; Applicant Information</b>	<b>Project Title</b>	Fortress - Puyallup - 2018 WSEC	For Building Department Use:	<b>Date: Jun 27, 2023</b>
	<b>Project Address</b>	240 15th St. SE Puyallup, WA 98372		
	<b>Applicant Name</b>	Adam Fischer		
	<b>Applicant Phone</b>	206-582-2562		
	<b>Applicant Email</b>	afischer@mcknze.com		
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com				

<b>General Occupancy</b>	All Commercial	<b>General Building Use Type(s)</b>	Industrial	<b>Building Cond. Floor Area</b>	129,040
<b>Project Scope</b>	Shell & Core	<b>Space Conditioning Categories</b>	Semi-heated	<b>Project Cond. Floor Area</b>	129,040
				<b>Floors Above Grade</b>	1
				<b>Compliance Method</b>	Compliance Method 1 - General
<b>Envelope Project Description</b>	Construction of a new single-story tilt-up concrete shell and core speculative warehouse space. Future occupancies may consist of B, F-1, and S-1 occupancies.				

Envelope Compliance Scope and Method	Scope	Space Conditioning Category	Compliance Method	WWR/SRR per Category	UA Calculation Adjustment	Fenestration Alternates	Compliance Verification
	Shell & Core	Semi-heated	Prescriptive	3.26% / 0.98%	No Calculation Adjustments allowed	No alternates selected	<b>COMPLIES</b>

<b>Air Barrier Testing</b>	Air barrier testing included in project scope	<b>Air Barrier Comments</b>	
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<b>Project Title</b>	Fortress - Puyallup - 2018 WSEC				<b>Date</b>	Jun 27, 2023
<b>Scope &amp; Space Conditioning</b>	SHELL & CORE - SEMI-HEATED			<b>Compliance Verification</b>	COMPLIES	
<b>Window-to-wall Ratio</b>	3.26%	<b>Skylight-to-roof-ratio</b>	0.98%	<b>Vertical Fenestration Alternate</b>	No alternates selected	

Opaque Envelope Assemblies								
				Insulation R-Values				
Walls - Semi-heated Space	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	Insulated Wall Furring	U-Factor	Net Area (SF)
Mass wall - Commercial			Yes		()		U-0.104	55,353
	Is this assembly exterior or interior?: Exterior							
Roof/Ceiling	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	2nd Layer (MB Roof)	U-Factor	Net Area (SF)
Insulation entirely above deck	2/A1.12	2/A1.12	Exterior		R-38 (<0.04%)		U-0.027	129,040
	U-Factor Source: WSEC Appendix A			U-Factor Source Description:				
	Is this assembly exterior or interior?: Exterior							
Slab-on-grade Floors	Location in Documents	Assembly ID	Assembly Location	Slab Edge	Under Slab		F-Factor	Perimeter Length (SF)
Unheated slab	S1.11	S1.11	At grade level	R-0			F-0.54	1,516
	Slab Insulation Method: Uninsulated slab			F-Factor Source: ASHRAE 90.1				
	F-Factor Source Description:							
Fenestration & Opaque Door Assemblies								
				Insulation R-Values				

Opaque Doors	Location in Documents	Assembly ID	Assembly Location	Door Insulation			U-Factor	Rough Opening (SF)
Swinging	A2.12	A2.12	Exterior				U-0.37	355
	What percentage of this opaque door is glazing?: 50% or less			U-Factor Source:				
	U-Factor Source Description:			Is this assembly exterior or interior?: Exterior				
	Is this a public entrance door?: No							
Garage, Sectional	A2.12	A2.12	Exterior				U-0.25	2,456
	What percentage of this opaque door is glazing?: 50% or less			U-Factor Source:				
	U-Factor Source Description:			Is this assembly exterior or interior?: Exterior				
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	A2.12, A6.10	Product Label	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.38	1,140
	U-Factor & SHGC Source:			U-Factor Source Description:				
	Is this assembly exterior or interior?: Exterior							
Fixed - Class AW or site built	A2.12, A6.10	Product Label	Exterior	North Facing	PF < 0.2	SHGC-0.51	U-0.38	342
	U-Factor & SHGC Source:			U-Factor Source Description:				
	Is this assembly exterior or interior?: Exterior							
Fixed - Class AW or site built	A2.12, A6.10	Product Label	Exterior	North Facing	PF < 0.2	SHGC-0.51	U-0.29	351
	U-Factor & SHGC Source:			U-Factor Source Description:				
	Is this assembly exterior or interior?: Exterior							
Glazed Doors	Location in Documents	Assembly ID	Assembly Location	Orientation	Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)
Swinging entrance door	A2.12, A6.10	Product Label	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.60	84
	U-Factor & SHGC Source:			U-Factor Source Description:				
	Is this assembly exterior or interior?: Exterior			Is this a public entrance door?: Yes				
	Door enclosed within a vestibule?: No vestibule							
Swinging entrance door	A2.12, A6.10	Product Label	Exterior	North Facing	PF < 0.2	SHGC-0.51	U-0.60	42
	U-Factor & SHGC Source:			U-Factor Source Description:				
	Is this assembly exterior or interior?: Exterior			Is this a public entrance door?: Yes				
	Door enclosed within a vestibule?: No vestibule							
Skylights	Location in Documents	Assembly ID	Assembly Location			Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)
All types	A1.12, A5.16	Product Label	Exterior			SHGC-0.35	U-0.50	1,280
	U-Factor & SHGC Source:			U-Factor Source Description:				
	Is this assembly exterior or interior?: Exterior							