

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	CIMCO Warehouse - 2018 WSEC	For Building Department Use:	Date: Mar 07, 2023
	Project Address	2315 Inter Avenue Puyallup, WA 98372		
	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(s)	Warehouse, General Storage	Building Cond. Floor Area	4,784
Project Scope	New Building	Space Conditioning Categories	Semi-heated	Project Cond. Floor Area	4,784
				Floors Above Grade	1
				Compliance Method	Compliance Method 1 - General
Envelope Project Description	4,973 square foot semi-heated space.				

Envelope Compliance Scope and Method	Scope	Space Conditioning Category	Compliance Method	WWR/SRR per Category	UA Calculation Adjustment	Fenestration Alternates	Compliance Verification
	New Building	Semi-heated	Component performance	0% / %	None selected	No alternates selected	COMPLIES

Air Barrier Testing	Air barrier testing included in project scope	Air Barrier Comments	
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Scope & Space Conditioning	NEW BUILDING - SEMI-HEATED			Compliance Verification	COMPLIES	
Window-to-wall Ratio	0%	Skylight-to-roof-ratio	%	Vertical Fenestration Alternate	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)
Metal building wall	A3.1, A3.2	Wall Assembly 1	Exterior		()		U-0.052	5,740
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)
Metal building (purlins)	A3.1, A3.2	Metal Roof	Exterior	R-25	R-0 (< 0.04%)	R-11	U-0.031	4,973
Thermal Spacer Block R-Value: R-3				Is liner system included?: Yes				
U-Factor Source: WSEC Appendix A				U-Factor Source Description: Appendix A				
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	A3.1, A3.2	Unheated Slab	At grade level	R-0	R-0		F-0.73	287
Slab Insulation Method: Uninsulated slab				F-Factor Source: WSEC Appendix A				
F-Factor Source Description: Appendix A								
Fenestration & Opaque Door Assemblies				Insulation R-Values				

Opaque Doors	Location in Documents	Assembly ID	Assembly Location	Door Insulation			U-Factor	Rough Opening (SF)
Swinging	A2.4	Opaque Door	Exterior	R-2.7			U-0.37	42
	What percentage of this opaque door is glazing?: 50% or less			U-Factor Source: Other U-Factor Source				
	U-Factor Source Description: Code Minimum			Is this assembly exterior or interior?: Exterior				
	Is this a public entrance door?: No							
Roll-up	A3.1, A3.2	Roll Up Garage Door	Exterior	R-3.2			U-0.136	1,687
	U-Factor Source: Other U-Factor Source			U-Factor Source Description: Code Minimum				
	Is this assembly exterior or interior?: Exterior							

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U x A Calculation		NEW BUILDING - SEMI-HEATED					COMPLIES		
Opaque Envelope Assemblies				PROPOSED			TARGET		
Walls - Semi-heated Space		Assembly ID	Default U-Factor	Net Area (SF)	U x A	Default U-Factor	Net Area (SF)	U x A	
Metal building wall		Wall Assebmly 1	0.052	5,740.0	298.5	0.052	5,740.0 (1)	298.5	
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	
Metal building (purlins)		Metal Roof	0.031	4,972.5	154.1	0.031	4,972.5 (1)	154.1	
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		Unheated Slab	0.73	287.0	209.5	0.54	287.0 (1)	155.0	
Fenestration and Opaque Door Assemblies				PROPOSED			TARGET		
Opaque Doors		Assembly ID	Door Assembly U-Factor	Rough Opening (SF)	U x A	Door Assembly U-Factor	Rough Opening (SF)	U x A	
Swinging		Opaque Door	0.37	42.0	15.5	0.37	42.0 (1)	15.5	
Roll-up		Roll Up Garage Door	0.136	1,687.0	229.4	0.34	1,687.0 (1)	573.6	
		Proposed Area	Proposed UxA		Target Area		Target UxA		
Project Totals		12,729	907		12,729		1,197		

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SHGC x A Calculation		NEW BUILDING - SEMI-HEATED		COMPLIES	
	Proposed Area	Proposed SHGC x A	Target Area	Target SHGC x A	
Project Totals	0				