## **ENVELOPE COMPLIANCE SUMMARY**

2021 WSEC Compliance	e Forms for Commerce	ial Buildings including Group	R2, R3 &	R4 over 3 stories and	1 all R1					Ad	ministered by	7: ©2024 NE	EA, A	All rights reserved
		Project Title		McDonald's (46	5-1172) - 2021 WSEC	Fo	or Bu	ilding Departm	ent Use:			Date:	Т	)ec 11, 2024
		Project Address		2902	E. Pioneer							Date	-	, 2021
Project & Applicant		Applicant Namo		Puyallu	ip, WA 98372	[		DONIC		_	City of Puyallup Development & Permitting So ISSUED PERMIT	rvices		
Information		Applicant Name		425-	-400-2870	PRCNC20241917				7	Building Planni Engineering Public W	orks		
		Applicant Email		emiller@	nmdginc.com	L					Fire Traffi	-		
	]	For questions about this report	. contact W	/SEC Commercial T	echnical Support at 360	-539-5300 01	or via	email at com.te	chsupport@waenergy	codes.co	m			
		1 1	,		11				11 0 87					
General Occupancy	All Comm	ercial General Bu Type(s)	lding Use	Dining	g, Fast Food	Building C	Cond.	Floor Area				3,0	694	
	Space Conditioning				Project Co	nd. I	Floor Area				3,0	694		
Project Scope	roject Scope New Building			Categories Fully Conditioned Floor			ove G	Grade					1	
				Complianc	e Me	ethod				General P	rescri	ptive		
Envelope Project Description	New Build Fast Food Restaurant on vacant lot													
Envelope Compliance Scope		Space Cond	tioning	Compliance Meth	od WWF	/SRR		UA Cal	culation Adjustment		Fenes	tration		Compliance
Scope and Mothed	New Puildi	ra Fully Cond	y	Prescriptive	16 350	4 / 0%	/ 0% None selected			No alternates selected				
Method	New Building	ing Tully Colld	lioneu	Trescriptive	10.55	0/0/0	70% None selected				No alternates selected			COMI LIES
Additional Energy Efficiency (AEC) No envelope Measures Included			r miscellan	eous additional ener project	gy efficiency measures	included in	L M	oad Managem Ieasures Inclue	ent (LDM) led		Building thermal mass			mass
Air Barrier Testing			Stand	lard building therma	l envelope test		Α	ir Barrier Con	nments					
Project Title	Project Title McDonald's (46-1172) - 2021 WSEC										Da	te Dec 1	11, 2	024
Scope & Space Conditioning NEW BUILDING - FULLY CONDITIONED				)			Compliance	e Verification		(	COMPLIE	ES		
Window-to-wall Ratio	16.35% S	16.35% Skylight-to-roof-ratio				0 0	Vertical Fenes	stration Alternate			No alt	ternate	es selected	
Opaque Envelope Asser	nblies													
		[			T			Ins	ulation R-Values					
Roof/Ceiling		Location in Documents	A	Assembly ID	Assembly Location	ı –	Ca	avity	Continuous (% penetration)	2no (M	1 Layer B Roof)	U-Facto	r	Net Area (SF)
Insulatio	n entirely above deck	A1.3		Roof	Exterior				R-38 (< 0.04%)	(1.1	5 11001)	U-0.027	7	3,694
	2	Sloped Roof & Tapered Insu	ation: Not	sloped	1	U-Factor Source: WSEC Appendix A Default						,		
		U-Factor Source Description		-					-					
Walls		Location in Documents	A	Assembly ID	Assembly Location	1	Ca	avity	Continuous (% penetration)	Insul F	ated Wall urring	U-Facto	r	Net Area (SF)
Wood-framed an	d other - Commercial	A5.0-A5.3	Exteri	or Wall Assembly	Exterior		R	-21	R-4 (< 0.04%)			U-0.051	l	3,072
		Which code target does wall	comply wit	h?: Wall Assembly U	U-factor	U-Factor	or Sou	urce: WSEC Ap	pendix A Default					
		U-Factor Source Description				Wall Fra	aming	g Type: Standar	d					
		Framing Depth: 2x6				Other Fr	ramir	ng Depth:						
		Framing Spacing (OC): 16"	1		1				1					
Slab-on-grade Floors		Location in Documents	A	Assembly ID	Assembly Location	ı	Slab	o Edge	Under Slab			F-Factor	r	Perimeter Length (SF)
	Unheated slab	A5.0-A5.3	<u> </u>	Foundation	At grade level		R	-10				F-0.54		256
		Slab Insulation Method: 2 ft	vertical (fro	om top of slab down	ward)	F-Factor	r Sou	irce: WSEC Apj	pendix A Default					
		F-Factor Source Description	F-0.54											
Fenestration & Opaque	Door Assemblies													

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				Ins				
Opaque Doors	Location in Documents	Assembly ID	Assembly Location	Door Insulation			U-Factor	Rough Opening (SF)
Swinging	A2.0	D	Exterior				U-0.37	28
	What percentage of this opaque	e door is glazing?: 50% or less	S	U-Factor Source: WSEC Ap	pendix A Default			
	U-Factor Source Description:			Is this a public entrance doo	r?: No			
Vertical Fenestration	Location in Documents	Assembly ID	Assembly Location		Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)
Fixed - Class AW or site built	A2.0	W1	Exterior		PF < 0.2	SHGC-0.38	U-0.34	138
	U-Factor & SHGC Source: NF	RC Rating		U-Factor Source Description	1:	-		-
Fixed - Class AW or site built	A5.0	W1	Exterior		PF < 0.2	SHGC-0.38	U-0.34	244
	U-Factor & SHGC Source: NF	RC Rating	-	U-Factor Source Description	1:			
Fixed - Class AW or site built	A5.0	W1	Exterior		PF < 0.2	SHGC-0.38	U-0.034	49
	U-Factor & SHGC Source: NF	RC Rating	-	U-Factor Source Description	1:			
Fixed - Class AW or site built	A5.0	W1	Exterior		PF < 0.2	SHGC-0.38	U-0.034	46
	U-Factor & SHGC Source: NF	RC Rating	-	U-Factor Source Description	1:			
Fixed - Class AW or site built	A5.0	W1	Exterior		PF < 0.2	SHGC-0.38	U-0.34	11
	U-Factor & SHGC Source:		-	U-Factor Source Description				
Operable - Class AW or site built	A5.0	W2	Exterior		PF < 0.2	SHGC-0.33	U-0.36	20
	U-Factor & SHGC Source: NF	RC Rating		U-Factor Source Description		-		
Operable - Class AW or site built	A5.0	W2	Exterior		PF < 0.2	SHGC-0.33	U-0.36	20
	U-Factor & SHGC Source: NF	RC Rating	-	U-Factor Source Description:				
Operable - Class AW or site built	A5.0	W2	Exterior		PF < 0.2	SHGC-0.33	U-0.36	20
	U-Factor & SHGC Source: NF	RC Rating		U-Factor Source Description:				
Glazed Doors	Location in Documents	Assembly ID	Assembly Location		Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)
Swinging entrance door	A5.0	W1	Exterior		PF < 0.2	SHGC-0.33	U-0.60	29
	U-Factor & SHGC Source: NF	RC Rating		U-Factor Source Description	1:			
	Is this a public entrance door?:	Yes		Door enclosed within a vest	ibule?: Yes			
Swinging entrance door	A5.0	W1	Exterior		PF < 0.2	SHGC-0.33	U-0.60	29
	U-Factor & SHGC Source: NF	RC Rating		U-Factor Source Description	1:			
	Is this a public entrance door?:	Yes		Door enclosed within a vest	ibule?: Yes			

## MECHANICAL COMPLIANCE SUMMARY

2021 NOLC Compliant			0	1 , -		~			5	1	
		Project 7	litle		McDonald's (46-1172) - 2021 WSE	C	For Building Depart	tment Us	8:	Date:	Dec 11, 2024
Project & Applicant		Project A	Address		Puyallup, WA 98372						
Information		Applicar	nt Name		Eric Miller						
	Applicant Phone				425-409-2879						
		Applicar	nt Email		emiller@pmdginc.com						
	F	or questions	about this rep	oort, contact W	VSEC Commercial Technical Support at	360-539-530	0 or via email at com	techsup	port@waenergycodes.com		
				•							
General Occupancy	All C	ommercial		General Bu	ilding Use Type	D	ining, Fast Food	Buil	ding Cond. Floor Area		3,694
		ew Building or Addition Sir			igle Zone Systems & Equipment Alteration Mechanical Scope		Proj	ect Cond. Floor Area		3,694	
General Project Types	New Building						ral Scope Floors		ors Above Grade		1
	Mechanical Scope					ical scope	Com	pliance Method	Ger	neral Prescriptive	
Mechanical Project Description	oject New McDonald's Fast Food Restaurant built on vacant lot.										
Mechanical Compliance Scope and Method	Project Type Mechanical Scope				Economizer Exception(s) Applied?	DOAS Ventila Provided?	Higher Equipment Efficiency Option Applied?	•	Equipment Efficiency Compliance Verification		
Scope and Method	New Building Single Zone Systems & Equipment				Yes No			NA		COMPLIES	
Additional Energy Efficiency (AEC) Measures Included	HVAC cooling equipment - 5% better than code efficiency & improved fan efficiency			e efficiency &	Load Management (LDM) Measures Included No mechanical load management measures					measures i	ncluded in project
Additional Efficiency Credits Included (AEC)											
Does building include occupancy classifications requiring DOAS?	No				Does project include DOAS equipment?						No
Based on project scope do TSPR requirements apply?		No			Do all systems comply with Appendix D standard reference design or qualify for an exception to TSPR?						No
Scone & Snace Con							Castion	COMPLIES			

Single Zone Air Systems Category - Heat pump, split & single package, SC, SDHV

Air Systems Summary	Information							
System/Equip ID	Quantity of Items	Supply Airflow Control	Ventilation Standard	Ventilation CFM (Total if Multiple Items)	Ventilation Air Source	Paired with DOAS	Ventilation energy recovery	Energy Recovery Efficiency (%)
RTU-1		Constant volume	ASHRAE Standard 62.1	1,850	Integral		Not provided, not required	
RTU-2		Constant volume	ASHRAE Standard 62.1	450	Integral		Not provided, not required	
RTU-3		Constant volume	ASHRAE Standard 62.1	1,330	Integral		Not provided, not required	

Air Systems &	& Equipment - Cooling							
System/ Equip ID	Cooling System/Equip Type	Specific Type	Cooling Capacity per item (Btu/h)	Econo Full Load Multiplier (Full/IPLV)	Required Cooling Efficiency (Code Min & Econo)	Proposed Cooling Efficiency	CE Units	Efficiency Compliance Verification
RTU-1	Heat pump, air cooled	Single package	249,500	0	9.5	19.4	EER	COMPLIES
RTU-2	Heat pump, air cooled	Single package	55,500	0	13.4	13.6	SEER2	COMPLIES

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KTO-5 Theat pump, all cooled Shige package 154,000 0 10.0 15.0 EEK COMILEES	RTU-3	Heat pump, air cooled	Single package	154,800	0	10.6	13.6	EER	COMPLIES
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Air System	s & Equipment - Heating									
System /Equip ID	Heating System/Equip Type	Specific Type	Heat Pump Heating Capacity (Btu/h)	Cooling Capacity (Btu/h)	AEC Efficiency Multiplier	Proposed Heat Pump Heating Efficiency	HPH Units	Proposed Low OSA Temp Efficiency	LTH Units	Efficiency Compliance Verification
RTU-1	Heat pump, air cooled, heating	Single package	122,940	249,500	1	3.6	COP	2.2	COP	COMPLIES
RTU-2	Heat pump, air cooled, heating	Single package	40,970	55,500	1	6.7	HSPF2		COP	COMPLIES
RTU-3	Heat pump, air cooled, heating	Single package	122,940	154,800	1	3.6	COP	2.2	COP	COMPLIES

Air Systems & Equipme	ent Details		
System/Equip ID	Discrete Area(s) Served	Location In Project Documents - Plan/Detail #	System/Equip Compliance Path
RTU-1	Kitchen	M1.0, M1.1, M2, M3	General Prescriptive
	System/Equip ID for a single or multiple it	ems?: Single item	
	Heating Section/Auxiliary Heating Type: E	lectric resistance (or None)	Economizer Compliance Method: Air-side economizer provided
	WSEC Equip Efficiency Reference Table -	Cooling: Table C403.3.2(2) Unitary Heat Pumps	
	Proposed Low OSA Temp Efficiency: 2.2		LTH Units: COP
	WSEC Equip Efficiency Reference Table -	Heating: Table C403.3.2(2) - Unitary Heat Pumps	
RTU-2	Support	M1.0, M1.1, M2, M3	General Prescriptive
	System/Equip ID for a single or multiple it	ems?: Single item	
	Heating Section/Auxiliary Heating Type: E	lectric resistance (or None)	Economizer Compliance Method: Air-side economizer provided
	WSEC Equip Efficiency Reference Table -	Cooling: Table C403.3.2(2) Unitary Heat Pumps	
	Proposed Low OSA Temp Efficiency:		LTH Units: COP
	WSEC Equip Efficiency Reference Table -	Heating: Table C403.3.2(2) - Unitary Heat Pumps	
RTU-3	Dining Room	M1.0, M1.1, M2, M3	General Prescriptive
	System/Equip ID for a single or multiple it	ems?: Single item	
	Heating Section/Auxiliary Heating Type: E	lectric resistance (or None)	Economizer Compliance Method: Air-side economizer provided
	WSEC Equip Efficiency Reference Table -	Cooling: Table C403.3.2(2) Unitary Heat Pumps	
	Proposed Low OSA Temp Efficiency: 2.2		LTH Units: COP
	WSEC Equip Efficiency Reference Table -	Heating: Table C403.3.2(2) - Unitary Heat Pumps	