Project Sui					PRO	J-SUM
	A STATE OF THE PARTY OF THE PAR		uildings including R2,	R3, & R4 over 3 stories and all R	The state of the s	ised Dec 2019
General Info	Project	VM-7P90CFW-WASDE	Mercer Island Mixed	1-Use	T.	0/2021
PROJ-SUM form	e 4250 200 .	Street Address:	2750 77TH AVE SE	& 2885 78TH AVE SE	For Building Department	Use
shall be provided as a cover sheet for all		City, County, Zip:	MERCER ISLAND, V	VA 98040		
compliance form submittals. <b>Project</b>	Project (	Owner or Rep:	Xing Hua Group Ltd.			
Title shall match project plans title block.	Jurisdict	ion:	MERCER ISLAND, V	VA	4	
Project Descrip	tion	New Construction	on and Additions		<u> </u>	
Select all that apply to scope of project.	o the	✓ New Buil	ding	Building Addition		
Select Addition + Exis	sting	Existing Building	g Retrofit			
or Alteration + Existin the existing building v combined with the ad	vill be	Alteration	1	Change of Occupancy	Change in Spac	e Conditioning
or alteration to demor compliance per Section C502.1 or C503.1.		Historic E	Building			
0002.7 07 0000.7.		Building Elemer	nts Scope - Select all	that apply		
		☐ All		✓ Building Envelope	Mechanical Syst	ems
			1-130/-1	Lighting Systems	□ Flashiaal Outan	
		Service F	lot Water Systems	Lighting Systems	Electrical Syster	ns
		○ All Comm	nercial	Group R - R2, R3, & R4 over 3 stories and all R1	Mixed Use	
Оссирапсу Тур	e e	<b>Mixed Use</b> - I R occupancie	THE RESERVE CONTRACTOR OF THE PROPERTY OF THE	n three stories above grade and it	t has both Commercial an	d Group
		Group R2, R3	3 or R4 occupancies.	ee stories or less above grade and Select All Commercial to documer al spaces shall comply with the W	nt compliance for the com	mercial
	,	Select all that a	oply to the scope of p	roject		
		✓ Fully Cor	nditioned	Semi-heated <sup>2</sup>	Refrigerated Spa	
Space Conditio	ning	Low Ene	rgy Space Category <sup>3</sup>		65	8
Categories		Eligible Low En	ergy Spaces			
		Uncondit	ioned	Low energy heating/cooling	g capacity	
		☐ Wireless equipmer		Greenhouse <sup>4</sup>	Equipment build	ing
Floor Area and	ž	Floors Above Grade	Building Gro	ss Conditioned Floor Area	Project Gross Condition	ned Floor Area
Stories		4		169,664	169,664	
		<ul><li>Complian</li></ul>	nce Method 1 - Gener	al Compliance N	Method 2 - Total Building	
General Compl	liance	prescriptive re	quirements of this co	hall demonstrate compliance with te. Refer to C401.2, Item 1 for mo : All applicable ENV, LTG, and Mi	ore information. Complian	
Path		Compliance II of results from applicable mai Compliance fo	Method 2 - Projects of a whole building ene ndatory provisions in arms to include with a	omplying via total building perforn rgy model per Section C407 and s his Code. Refer to Section C401. TBP submittal: PROJ-SUM, ENV- D and MECH-VENT (pending).	nance (TBP) shall include shall demonstrate complia 2, Item 2 for more informa	nce with all tion.

Note 1 - Refrigerated Spaces - They shall comply with the envelope and refrigeration equipment requirements in Section C410. Warehouse coolers and freezers shall also comply with the envelope requirements in C402. C410 takes precedent for overlapping requirements. Note 2 - Semi-heated Spaces - If heated with equipment other than electric resistance may take an exemption for wall insulation. All other envelope assemblies shall comply with the thermal envelope provisions.

Note 3 - Exemptions For Low Energy Spaces - Low Energy spaces are exempt from all provisions in WSEC Section C402 Building Envelope, however all other applicable provisions in the Code do apply including lighting, mechanical, service water heating, etc.

Note 4 - Eligible Space Conditioning For Low Energy Greenhouses - Greenhouses are defined as spaces that maintain a specialized sunlit environment that is used exclusively for cultivation, protection and maintenance of plants. Cooling with outside air and/or evaporative cooling, and any form of heating equipment, are allowed under the Low Energy Greenhouse category. Greenhouses with cooling equipment that requires a condensing unit are NOT eligible.

General Info Project	tle: Mercer Island Mixed-Use	Date	9/30/2021
C406 Additional	Building level efficiency options:	Current Scope	Previous Project
Efficiency Package	C406.8 Enhanced envelope performance		
Options Summary	C406.9 Reduced air infiltration		П
A minimum of two Options are	C406.5 On-site renewable energy		
required for new construction, and change in space	Building area level efficiency options		
conditioning or occupancy projects.	C406.2 More efficient HVAC equipment	7	
Select all Options included in the current project scope.	C406.6 Dedicated outside air systems (DOAS)		
Also select Options complied with under previous projects (shell and core, other tenant	C406.7 Reduced energy use in service water heating		
spaces in building, etc)	C406.3 Reduced lighting power		
Buildings with multiple tenant spaces may comply with	C406.4 Enhanced digital lighting controls		
different options (mix & match).	406 Comments:		
Options are required for all space conditioning categories. Include discipline specific information for C406 options in ENV-SUM, LTG-SUM and Refer to SBCC website for	C406.2 More efficient HVAC equipment and fan perform Buildings shall comply with Sections C406.2.1 through C40C406.2.1 HVAC system selection.  No less than 90 percent of the total HVAC capacity serving isted in Tables C403.2.3(1) through C403.2.3(9) or a combexception: Air-to-water heat pumps or heat recovery chiller C406.2.  C406.2.2 Minimum equipment efficiency.	06.2.3. I the building shall be provided b bination thereof.	**************************************
official interpretations regarding C406 provisions.	Equipment shall exceed the minimum efficiency requireme C403.2.3(9) by 15 percent, in addition to the requirements requirements are provided, the equipment shall exceed all exception: Equipment that is larger than the maximum cap through C403.2.3(9) shall utilize the values listed for the larguipment type shown in the table.  C406.2.3 Minimum fan efficiency.  Stand-alone supply, return and exhaust fans designed for a nave an energy efficiency classification of not less than FE of the fan at the design point of operation shall be within 10 efficiency of the fan or the static efficiency of the fan.	of Section C403. Where multiple requirements by 15 percent. acity range indicated in Tables or gest capacity equipment for the operating with motors over 750 or G 71 as defined in AMCA 205.	e performance  2403.2.3(1) associated  watts (1 hp) shall The total efficiency
			maximum to

C406.3.1 Reduced lighting power density.

C406.3.2 Lamp fraction.

The total interior lighting power (watts) of the building shall be 75 percent or less of the lighting power values specified in Table C405.4.2(1) times the floor area for the building types, or by using 75 percent of the interior

Not less than 95 percent of the interior lighting power (watts) from lamps in permanently installed light fixtures in dwelling units and sleeping units shall be provided by lamps with a minimum efficacy of 60 lumens per watt.

lighting power allowance calculated by the Space-by-Space Method in Section C405.4.2.

Project Info Project Title: Mercer Island Mixed-Use For Building Department Use Company Name: BEE Consulting LLC Applicant Info. Provide contact information for individual who can Company Address: 170 W Dayton St., Suite 206, Edmonds, WA 98020 Applicant Name: Katsiaryna Bautista respond to inquiries about information provided.

Applicant Phone: (425) 672-3900

Applicant Email: kat@hee-engines Applicant Email: kat@bee-engineers.com Project Description ☐ Alteration ☐ No Envelope Scope Envelope Project Scope ☐ All Commercial ☐ Group R - Commercial ☑ Mixed Use - Commercial + Group R Select all that apply. Semi-heated Refrigerated Cooler Refrigerated Freezer Equipment Building Envelope Description The Mercer Island Mixed-Use project is located in Mercer Island and consists Provide brief description of the project and of a four-story mixed-use building with 138 residential units, two levels of subrelevant supporting documentation. grade parking, and two townhomes on the podium deck in the courtyard. If project includes multiple Target Insulation Allowance areas, and/or is demonstrating compliance as an Addition + Existing, Alteration + Existing, or Addition + Alteration + Existing project, provide a brief summary of the approach to whole building compliance. Air Barrier Testing ✓ Air barrier testing per Section C402.5.1.2 included in project scope construction projects. Testing criteria is 0.40 Additional Efficiency Package Option - C406.9 Reduced Air Infiltration cfm/ft² under test pressure of 0.3 inch w.g. Air barrier testing is required for all new measured air leakage of building envelope Compliance Documentation Scope and Method Scope of This Calculation ✓ New Building ☐ Addition Alteration No Envelope Scope Target Insulation Allowance Fully Conditioned - Commercial, Group R, Mixed Use Sets the title and calculations in the Semi-heated Refrigerated Cooler Refrigerated Freezer compliance forms. Selection required to enable forms. If project includes more than one Target Insulation Allowance area, and/or if project includes addition and alteration areas complying independently, for each area complete an ENV-SUM form Rows 16-46 and either an ENV-PRESCRIPTIVE form, or ENV-UA + ENV-SHGC forms if demonstrating compliance via component performance. Envelope Compliance Path Selection required to enable forms. Component Performance Change of Occupancy (C503.2) / Conditioning (C505) - 10% higher UA allowed Calculation Adjustments Additional Efficiency Package Option - C406.8 Enhanced Envelope - 15% lower UA required Additions Addition stand alone Addition + Existing Addition stand alone - Complete Vertical Fenestration and Skylight Area Calculation. Enter total existing-to-remain wall, roof, vertical fenestration and skylight areas as EXISTING. Enter total addition envelope assembly areas as NEW. If resulting total building WWR exceeds

30% and/or SSR exceeds 5%, refer to C502.2.1 and C502.2.2 for prescriptive compliance alternatives. If complying via component

WWR and/or SRR increased - Complete Vertical Fenestration and Skylight Area Calculation. Enter total existing-to-remain wall, roof, vertical fenestration and skylight areas as EXISTING. Enter total altered envelope assembly areas as NEW. If resulting total building WWR exceeds 30% and/or SSR exceeds 5%, refer to C503.3.2 and C503.3.3 for prescriptive compliance alternatives. If complying via component

Replacement windows only, or resulting total building WWR ≤ original WWR

Replacement skylights only, or resulting total building SRR ≤ original SRR

performance, complete ENV-UA per instructions for addition stand alone projects.

performance, complete ENV-UA per instructions for alteration + existing projects.

Alterations -

Fenestration and Skylight

Addition + existing - Complete ENV-UA per instructions for addition + existing projects.

WWR and SRR not increased - Vertical Fenestration and Skylight Area Calculation not required.

Envelope Summary, p 2015 WSEC Compliance Forms for Commercia		R2, R3, & R4 over 3	3 stories and all R1		ENV-SUI Revised Dec 20
Project Title: Mercer Island Mixed-	Jse	10 00		Date	09/30/2021
Vertical Fenestration and Skylight Area Calculation		Total Vertical Fenestration Area (rough opening)	NET Exterior Above Grade Wall Area	Total Skylight Area (rough opening)	NET Exterior Ro
Prescriptive Path - Enter envelope sf	New	31,373	56,889	0	43,002
values directly into this section of ENV-SUM for vertical fenestration, skylights, net walls	Existing	\$8 5000	0	0	0
and roof. For Additions and Alterations, refer to these sections in ENV-SUM for further instructions.	Total	to delete concentration and	56,889	0	43,002
Component Performance - When this Envelope Compliance Path is selected, write-protection of this section is enabled. Enter envelope of values for all assemblies into the ENV-UA form. Envelope information from ENV-UA will auto-fill into this section of		Vertical Fenestration-to- Wall Ratio (WWR)	35.5%	Skylight-to-Roof Ratio (SRR)	
Vertical Fenestration Area Compliance	VERTICAL		REA COMPLIES W	ITH MAXIMUM ALLO	OWED WITH
Skylight Area Compliance	NO SK	YLIGHT PROPOSED	). COMPILIES WIT	H MAXIMUM ALLOV	VANCE.
Vertical Fenestration	High performa	nce fenestration U-fa	actors and SHGC p	er C402.4.1.3	
Alternates	Dedicated out	door air system per (	C402.4.1.4 and C4	03.6	
Show locations of qualifying daylight zone (DLZ) areas and ft <sup>2</sup> on project plans.		3 stories, 50% or mo	re of CONDITIONE	a is in DLZ per C402. ED floor area is within	
For Daylight Zone Area Calculations - a) Sidelight areas include primary +	Duilding Na	t Floor Area	ght Zone Calcul Sidelight Daylight		Percent Daylig
secondary daylight zone areas. b) Include overlapping toplight and sidelight		t Floor Area ≥ 3 stories)	Zone Area	Zone Area	Zone Area
daylight zone areas under Toplight. c) Net floor area definition in Chapter 2.	98,	898	60,341		61.0%
,			Qualif	ies for Daylight	Zone Alterna
Spaces in Single Story Building Requiring Skylights				n height greater than e aperture with "AP" p	
In these spaces a minimum of 50% of the	Space	Space Area (ft²)	DLZ Area (ft <sup>2</sup> )	SRR or Aperture	Exception
floor area shall be within a skylight daylight zone (DLZ). Refer to C402.4.2 for					
requirements. SRR = Skylight to roof ratio					-
Envelope Exemptions					
The second secon	Low energy space	es per C402.1.1 Item	1 are exempt from	the thermal envelop	e provisions.
Low Energy and Semi-heated Spaces	Semi-heated space insulation provision Complete Low En	ces heated by systen on only per C402.1.1.	ns other than electr 1. ed Spaces table in	ic resistance are exe MECH-SUM to verify	mpt from wall
Equipment Buildings	<b>1</b> 22.770		Wall Insulation	Roof Insulation	Overall Averag
Equipment buildings are exempt from the	Fauinment Rui	ilding Envelope	R-Value	R-Value	U-Factor
thermal envelope provisions per C402.1.2. The following shall be met to be eligible:	Equipment Bu	iding Envelope	Electronic equipr	nent power (watts/sf)	
building size ≤ 500 sf, average wall/roof U-			Annual An	tput capacity (Btu/hr)	
factor ≤ U-0.20, electronic equipment load ≥					ļ

7 watts/sf, heating system output capacity ≤

Component Performance Path, pg. 1

17,000 btu/h. Cooling system capacity not

Cooling capacity (Yes/No)

-		t Title:		Mercer Island Mixed-Use				Date For Building	09/30/202 Department	
1 a	rg		ation Allo	OWANCE ce - Commercial, Group R, Mixed Use				I or ballaling	Department	o se
Ca	1c	ulation A	Adjustme	ents						
	_	stration	Area as %	gross above-grade wall area	35.5%	Max. Target:	40.0%			
_	-	_	a as % gross	Selection who selections	0.0%	<del></del>				
8 10			e Projects <sup>13,</sup>			loor Area in Da Net Wall	aylight Zone			
			ain Áreas	Skylights		Net Roof Proposed UA		User Note	Target UA	
D U	ш	Cavity+Cl	mponent   Plan/Detail #	U-factor Source & Table # <sup>2</sup>	U-factor	x Area (A)		U-factor	17.000 100 100 100 100 100 100 100 100 100	UA (U x A)
		R= 20ci	Level 1M / RT 08 / A814	Table A102.1	0.040	1833	73.3	0.027	40871	1103.5
Service Constitution	Deck	R= 42ci	Levels 4,4M (RT 01,02/ A814)	Table A101.5	0.023	39038	897.9	Above Deck	Insulation	U-0.027
***************************************	핆	R= R= R=						0.031 Metal Buildi	na	U-0.031
_	₹	R=	Townhouse						-5	1
Roofs		R=30+20	Level 2 / RT 03 / A814	Table A102.1	0.027	476	12.9	0.027	981	26.5
		R= 30+20ci R=	Roof Elev.+ St / RT 03 / A814	Table A102.1	0.027	505	13.6	Joist/single	rafter	U-0.027
* A STATE OF THE S	1	R= 30+20ci	Townhouse Level 3 / RT 04 / A814	Table A101.5	0.020	1150	23.0	0.021	1150	24.2
Constitution of	- 1	R= R=						Single raft, a	attic, other	U-0.021
1		R= 21+6	Levels P1- 1M / WT10+ WT(A - D).2 /	Table A103.3.6.1(1)	0.065	14465	940.2	0.055	16637	915.0
1 3	Steel Frm	R=6eff	A810 Levels 1, 1M (Louver)	Table A101.5, Table A103.3.6.2	0.146	773	112.9	Steel/metal	frame	U-0.055
		R=21	Levels P2-1 / WT10 / A810	Table A103.3.6.1(1)	0.106	1399	148.3			
STOCK CONTRACTOR	Mtl Bld.	R= R= R=						0.052 Metal Buildi	ng	U-0.052
oove Grade⁴∘	- 1	R= 21int	Levels 2 - Roof / WT 20,21/ A810	Table A103.3.1(5)	0.054	26817	1448.1	0.054	3155 <b>4</b>	1703.9
Opaque Walls - Above Grade <sup>4,8</sup>		R= 21int R=	Townhouse Levels 1 - 4 WT 20,21/ A810	Table A103.3.1(5)	0.054	4737	255.8	Wood Fram	e, other	U-0.054
edo		R= 19.5ci	Levels P1, P2 / WT01A / A810	Table A103.3.7.1(2)	0.048	6297	302.3	0.104	7157	744.3
	Mass³	R=6ci	Level 2 / Slab edge (2/ A932)	Table A103.3.7.2	0.136	592	80.5	Mass Wall		U-0.104
_	╛	R=6ci	Levels 1,1M / Slab edge (2/ A932)	Table A103.3.7.2	0.136	268	36.4			
	ากรfer	R= R= R=	Levels 1 -2 11 / A940	Table C402.1.4	0.200	1300	260.0	0,200 Mass Trans	1300 fer Deck	260.0 U-0.20
	┪	R= R=						0.078	J. 2001	1 0.20
Group R	ass	K= R= R=						Group R Ma	ss Wall	U-0.078
		R= R= 10ci	Levels P1, P2 / WT02 / A810	Table A101.5	0.080	642	51.4	0.104	1306	135.8
Grade Walls <sup>4,6</sup>	Comm	R= 10ci	Annuar assessment	Table A101.5	0.080	664	53.1	Assumed to	be Mass Wa	II U-0.104
Below	Proup R	R= R= R= R=						0.078 Assumed to	be Mass Wa	II U-0.078
†		R= 15ci	Townhouse Level 1 FT07A / A813	Table A101.5	0.055	1623	89.3	0.031	40965	1269.9
_3	Mass	R=38ci	Level 1 / FT 03 / A813	Table A105.1(3)	0.025	31425	785.6	Mass Floor		U-0.031
Floors	-	R=38ci	Level P1 / FT 03 / A813	Table A105.1(3)	0.025	3723	93.1			
		R= 30ci	Level 2 / FT05 / A813	Table A105.1(3)	0.031	4194	130.0	<u>y</u> jgawa		
On the second second	Framed	R= R= R=						0.029 Joist/Framin		U-0.029
┸	_					Area <sup>1</sup>	UA		Area <sup>t</sup>	UA

				formance Pat or Commercial Buildings inclu			stories and all	R1			VV-U
-	ect T	10,400,000,000,000	÷	Mercer Island Mixed-Use					Date	09/30/202	
Fer	nest	tration	Area as %	gross above-grade wall area		35.5%	Max. Target:	40.0%	For Building	Department	Use
Sk	ylig	ght Are	a as % gross	roof area		0.0%	Max. Target:	5.0%			
Bu	ildi	ing Co	mponent				Proposed UA			Target UA	
		Ins. R	Plan/Detail #	F-factor Source & Table # 8		F-factor	x Perimeter	= FP(F x P)		x Perimeter	= UA (U x
ade	R= R= R=	=							0.540 Slab-On-Gr	ahe	F-0.54
-grac	#   K-	=:							Siab-Oil-Oil	auc	1-0.54
io d	g R=	=0							0.550		
Slab	R= R= R=	=1							Heated Slat	o-On-Grade	F-0.55
	- K=		dule ID	U-factor Source <sup>9,10</sup>		II footor	v Area (A)	= 11A /11 × A	II footor	v Aron (A) =	
	<u>ارح</u>		ng doors	Table A107.1(1)		U-factor 0.37	x Area (A) 241	89.2	0.370	x Area (A) =	89.2
ors <sup>6,9</sup>	lg l		. <del></del>	THE STANDARD STANDARD OF LADIC STANDARD OF THE		777 G SERVICES		1000 (4100.2	Opaque Sw	ing Doors	U-0.37
0									0.340	Γ	1
o t	<u> </u>								Opaque roll	up & sliding	U-0.34
Ž		25,110								*	1
1	etal	Fi	xed	See A802		0.28	5302	1484.6	0.30 Non-Metal F	24352 Frame	7305.6 U-0.30
	Non-Ivietal	Slidin	g doors	See A802		0.28	4191	1173.5	IVOIT IVICEAL I	Tame	0 0.50
1 –	_		rable	See A802		0.28	14859	4160.5			
6,10	Sec	Store	efronts	NFRC Certified		0.38	6000	2280.0	0.38 Metal Fram	6000	U-0.38
ration	Metal, fixed								IVICIAI I TAIII	e, i ixeu	0-0.36
	Ĭ	292 10 117	1210	NOVESCO III IPPE ASSESS W			00100000000				T San S
l Fen	<u>e</u>	Metal o	operable	NFRC Certified		0.40	590	236.0	0.40 Metal Fram	590	236.0 U-0.40
ertical	Metal, op.								ivictal Frami	e, Operable	0-0.40
- E	_	38000 00 80	36	TOWARD SHEET FAND OF THE STATE OF		500000000	60000070-16			I Manager V	1 55 50 °C 10 °C
	entrance	Metal e	ntrances	NFRC Certified		0.60	431	258.6	0 . 60 Metal Entra	431	258.6 U-0.60
									IVICIAI LIIIIA	nice Door	0-0.00
0	_								0.50	<u> </u>	
hts	Sec Local								All types		U-0.50
Skylights <sup>1</sup>	All I ypes										
		rougt - d	Cmara F	Places			Dron			Torrectile	
Ke	rrig	gerated		reezer Floors U-factor Source & Table # 2		20000 124	Proposed UA		U-factor	Target UA	
<b>₩</b>	R=	10000	i iaii/Detaii #	O-lactor Source & Table #	-	U-factor	x Area (A)	- 0A (0 X A)	O-lactor	x Area (A) =	OA (O X A
Freeze	R= 0 R= R=	=>							Freezer Flo	or	
	[rx=	_					Area <sup>1</sup>	UA		Area <sup>1</sup>	l ua
					Page 2	Subtotal	31614	9682		31614	10169
70	CO*	MDIV.TL	e Proposed T	otal UA shall not	Page 1	Subtotal	141921	5808		141921	6183
exc	ceed	the Target	Total UA.	oral OA Shall HUL	Pro	oject Total	173535	15490	<u> </u>	173535	16353
Co	mp	onent l	Performa	nce Compliance (U	J <b>A)</b>					UA CO	MPLIES
Re	frig	gerated	Space W	indows In Doors 11	,12						
			Plan/Detail #	Description		Cooler / Freezer	Double Pane Glass	Triple Pane Glass	Inert Gas Filled	26 SQUEEZE 1800	eflective d Glass
G	5									Treated	. 01000
Doors	In Door										
	Keach in										-
Glazing											

Note 1 - If vertical fenestration or skylight area exceeds maximum allowed per C402.4.1, then Target Area Adjustment of all applicable envelope elements will be calculated automatically by the compliance form. Refer to Target Area Adjustments worksheet for this calculation.

Note 2 - Opaque assembly U-factors shall come from Appendix A or be calculated per approved method as specified in C402.1.5.1.

Note 3 - Proposed CMU mass wall in non-Group R that meet Table C402.1.4 Footnote D requirements can enter the target U-value of 0.104.

Note 4 - Semi-heated spaces - For spaces eligible for this wall insulation exception, the UA calculation excludes all wall assemblies. However, wall area

Note 5 - Mass transfer slab edges must be covered with an assembly having an overall U-factor of 0.2.

Note 6 - Demising walls, doors, and vertical fenestration separating spaces with different degrees of space conditioning (unconditioned, semi-heated, fully conditioned) shall be included only on the ENV-UA form for the space with the greatest degree of space conditioning.

Note 7 - List Group R above grade mass walls here. List all other above grade walls, Commercial and Group R, in the Opaque Walls - Above Grade

wall type and enter "1" for the U-factor.

values are required to run the window-to-wall ratio calculation. Enter into form all wall types in the semi-heated space. Enter the sf area of each

Note 11 - Refrigerated Coolers - Targ under the most similar ass	embly type. Targ	et F-factors for slab	-on-gra	de floors are per C4	402. Target U-factors fo	or floors that separate a
from a non-cooler space (u C402. Enter only the opage						
prescriptive requirements.  Note 12 - Refrigerated Freezers - Tai						
proposed information in the	e Freezer Floor s	ection. If the freeze	r floor a	assembly rests on to	op of a standard floor, th	he vertical edge of the f
			paque ,	portion of freezer do	ors. Windows within do	ors and reach-in displa
Note 13 - Stand alone projects - Ente	er total existing-to	o-remain sf areas for				
Note 14 - Addition + Existing, Alterati	ion + Existing, Ad	ldition + Alteration +	Existii	ng projects - Enter s	f areas and estimated (	U-factors for all existing
Enter UA information for ne	ew addition and a	altered envelope as:	semblie	es in Building Compo	onents section. Existing	g and new information w
automi into trie vertical Fer	iestration and Sr	kyligrit Area Calculai	ion se	XION OI ENV-SUM A	s all IVEVV. Does not al.	rect carculation results.
Vertical Fenestra	tion Tar	get Area	Adi	ustment	Calculation	าร
Project Title:	And	act act. Constitution American				Date 09/30/2
If vertical fenestration area exceeds	maximum allowe	ed per Section C402	.4.1, tł	en Target Area Adji	ustment of all applicable	e envelope elements is
		•				
						500 0500 0000 1990 0000 00 <b>1</b>
AG = Above-grad			0.0000000000000000000000000000000000000	escriptions consider the resource of the second consideration of the second considerat		all the desired control of the desired trape.
50 50 50 50 50	V 100			0.00% CHECK CHECKY SCHOOL STAN AND SCHOOL SCHOOL		
		31373.0	-	56648.0	DR= 241.0	-
			1400-	Maximum Target		_
				Vert. Fen. Area	_	
88262.0 χ <b>4</b> 0.	0% ÷	100		35304.8		
Total Vertical		Delta Vertical	âª		Excess Vertical	
		Di-	1			=
31373.0 _ 3530	4.0	-3931.8		000,7,000,000,000		
Project Vertical Excess \	/ertical /	Target Vertical		VIDAGESE KIBERASIN YILI BURUK YISTA		Multiplier applied Proposed Vert
-		Fenestration		Fenestration	The second secon	Fenestration Are
31373.0 _		31373.0	÷	31373.0	1.00	Fenestration A
Victorian Control Cont			a <b>1</b> 1	Net Wall	·	
56648.0 +		56648.0	÷	56648.0	_ 1.00	Grade Wall Are
Target Areas - UA						calculate Target A Grade Wall Ai
	nectration	Proposed Area		Target VE Mult	Tarnet Area	
	Approved and a programman	24352.0	1 x 1	1.00	24352.0	
Metal fra	ame, fixed	6000.0	Х	1.00	6000.0	
	S SAN HALL MAD DECOME.	590.0	Х	1.00	_ 550.0	
Metal frame, entra	ance door	A	<ul> <li>(i) (ii) (ii)</li> <li>(ii) (iii)</li> <li>(iii)</li> <li>(iii)&lt;</li></ul>		431.0	Target areas in s
2000	MATERIAL TO SERVICE STATE OF THE SERVICE STATE OF T	Washington Company and Company	1	A. 0.000.0000	·	boxes are applied target areas on El
	100000000000000000000000000000000000000	10037.0	20011504	1.00	= =	
	1000	31554.0		1.00	= 31554.0	
	Mass	7157.0	Х	1.00	= 7157.0	
		1300.0	X	1.00	1300.0	
			j Χ	NOTE OF THE PROPERTY OF THE PR		Sum of target abov
Sum of Pro	oposed	88021.0		Sum of Target	88021.0	wall and vertice
Target Areas - SHGC x	Α					calculated to equ
of states. Accordance and included a second result of the second result		Proposed Area		Target VF Mult.	Target Area	sum of propos
	PF < 0.2	21984.0	X	1.00	= 21984.0	
0.2 ≤			Х			51/00 toward and
North Vortical Fau	A A SANCTON		] X			shaded boxes are
North Vertical Fen	PF < 0.2	9389.0	1 v 1	1.00	9389.0	to target areas on SHGC
0.2 ≤	≨ PF < 0.5		x		=	
	PF ≥ 0.5		Х		=	
Transport   Tran						
Skylight Target A	rea Adi	ustment (	Cal	culations		
Project Title:						Date 09/30/2
### ### ### ### ### ### ### ### ### ##		N. St. N. Marketter (N. 1971) and the second	raet A	rea Adiustment of al	ll applicable envelone e	27 VA 198 201 101 101 101 101 101 101 101 101 101
to a property of the property	Accompany of the Bullion of the State of the	Marie Land Children Month Constitution and the Constitution of the			ENV-SHGC workshee	ts. Information shown i
				I divistment for	~ ENIL 110 ~~~! ENIL CI	(CC forms
				Adjustment form with	n ENV-UA and ENV-SH	IGC forms.

Project Title:		Mercer Island Mixed-Us	е			D	ate 09/30/2021
worksheet autor	exceeds maximum allowed p natically calculates these ad reference only and is write-p	ustments and updates targ	et area.	s in the ENV-UA and	ENV	-SHGC worksheets.	Information shown in this
	SKY= Skylight	NR - Net roof (excludes	skylight	)	Gros	ss Exterior Roof Are	ea = SKY + NR
Proposed	Areas	Skylight		Net Opaque Roof			
	Project Areas -		NR=	43001.9	1		
	Existing Non-project Areas -	2 minutes and	NR=		g g		
Gross Exterior Roof Area	Max Skylight % (C402.3.1)		<u> </u>	Maximum Skylight Fenestration Area	4		
43001.9	χ 5.0%	÷ 100	_	2150.1			
Total Skylight Aı	Maximum Target 2150.1	Delta Skylight Are	a ]	0	=	Excess Skylight	
Project Skylight Area	Excess Skylight	Target Skylight Ar	ea ] ÷	Total Skylight Area	та ] =	arget SKY Multiplier	Multiplier applied to all Proposed Skylight Areas to calculate Target Skylight Area
Net Project Roof Area 43001.9	Excess Skylight +	Target Net Roof Ar 43001.9	ea ] ÷	Net Roof 43001.9	Та ] =	arget Net Roof Mult.	Multiplier applied to all Proposed Opaque Rooi Areas to calculate Targe Roof Area
Target Are	eas - UA and SHG	CxA					.er
	Skylight	Proposed Area		Target SKY Mult.	1	Target Area	P
	F	All	X				
	Roof	Proposed Area	<b>-</b>	Target Net Roof Mul	1	Target Area	Target areas in shaded
	Insulation Above Dec		X	1.00	_ =	40870.9	boxes are applied to targ
	Metal Buildir	The second of th	X	An annual day		2017/90/2010/00 2011/20	areas on ENV-UA
	Joist / Single Raft Attic / All Othe		- X	1.00	= =	981.0 1150.0	
	Sum of Pro		]	Sum of Ta	ı arget		Sum of target roof and skylight areas are calculated to equal the sum of proposed

	Calculation Compliance Forms for Commercial Buildings including R	R2, R3, &	R4 over	3 stories an	ıd all R1				SHGC sed Dec 2019				Checklist, pg. 3 al Buildings including R2, R3, & R4 over 3 stories and all R1		ENV-CH Revised Dec 20
oject Title	e: Mercer Is	sland Mi:	xed-Use	(			Date	09/30/2	021	Project Title		Mercer Island Mixe		Date	09/30/2021
	nsulation Allowance: Fully Conditioned Space - Commercial, Group R, Mixe	ed Use					For Buildin	ng Departme	ent Use	Applicabilit (yes,no,na	/ Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Department No
enestr	ation Area as % gross above-grade wall area t Area as % gross roof area	10 1 10 pg - 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		000 0000	Max. Targe	10000400040							In single story buildings, provide list of enclosed areas that exceed 2,500 sf; for each space identify the space use, floor area, floor to ceiling height, whether skylights are installed, and any exception taken;		
ertical	Fenestration Alternates:			of Net Floo	r Area in Da		,			, no	C402.4.2	Spaces in single	Provide calculations for percentage of conditioned floor area located within a daylight zone including skylight and eligible sidelight daylight zones;		
fe 2 - If	roposed vertical fenestration and skylight areas entered in enestration areas in ENV-UA. Target Area Adjustment is required per ENV-UA, then tare	get areas	will be a	automaticall	'y					na	C402.4.2	story buildings requiring skylights	Provide calculations for percentage of skylight area in each space over 2,500 sf, OR;		
3 - Fe de	ljusted in ENV-SHGC. Refer to Target Area Adjustments v enestration assembly SHGC shall be the manufacturer's N efault value per Section C303.1.3.	NFRC pro	duct ratir	ng, or shall	be the		ē.	_					Provide calculations for skylight effective aperture (Equation C4-5) for each space over 2,500 sf; Indicate haze factor of skylight glazing material or diffuser	_	
	enestration that separates conditioned space from a non-c nter target SHGC values for this fenestration under propo						User Note	,		ADDITIO	NAL EEG	ICIENCY BACKA	BE OPTION - ENHANCED ENVELOPE PERFORMANCE		
<b>Skylight</b> s Sch. ID	Provide SHGC source and fenestration schedule ID				roposed SH x Area (A)		SHGC 0.35	Target SHO x Area (A)	= SHGC x A	na	C406.8	Enhanced envelope performance	To comply with additional efficiency package option, demonstrate envelope insulation compliance via component performance; provide ENV-UA / ENV-SHGC compliance forms; verify that building total UA is 15% lower than the Code target UA	-	
							SHGC		0.35	AIR LEA	KAGE				•
												Air barrier	Identify location and provide diagram of continuous air barrier in plans and sections;		
			Skyli	ight Totals						Yes	C402.5.1.1	1 construction and sealing	Provide details for all joints, transitions in materials, penetrations in air barrier and note method of sealing (caulked, gasketed, or other approved method)	BE700, BE800	
All Non-N Sch. ID on-metal,	orth Vertical Fenestration+  Provide SHGC source and fenestration schedule ID	PF	Ĩ	oposed SH x Area (A) 3478	1	PF Category		x Area (A)	C ++ = SHGC x A 8793.6	na	C402.5.3	Rooms containing open combustion fuel burning appliances used for space conditioning	Indicate that room(s) containing non-direct vent appliances is isolated from conditioned space by the thermal envelope with a sealed air barrier, including doorway gasketing and sealing around ductwork and piping penetrations; Indicate insulation provided in wall, floor and ceiling of the room envelope, and insulation required on combustion air ductwork	-	
xed on-metal, perable	See A802 See A802		0.35	10201	3570	PF < 0.2 0.2≤PF<0.5	0.48	21304	0,73.0	na	C402.5.4	Access openings and doors to shafts, chutes, stairways	Indicate locations of all access openings and doors to shafts, chutes, stairways and elevators; Indicate method of gasketing, weatherstripping and sealing of these	_	
on-metal,	See A802		0.35	2576	902	PF≥0.5	0.64					and doors Outdoor air intakes	openings Indicate locations of all stairway enclosure, elevator shaft and building pressurization relief openings, outside air intakes and exhaust openings:		
ding or						++ If proje		r (PF) credit sed design,		na	C402.5.5 C403.2.4.3	Outdoor air intakes, exhausts and relief openings	Note in envelope plans that all relief, outside air intake and exhaust openings shall be provided with dampers in accordance with Mechanical	1	
or tal,Fixed			0.40	4853	1941	SHGC will	ll sum fenes	stration area					Section C403.2.4.3		
or tal,Fixed refronts	NFRC Certified		0.40	4853 562	1941 225		ll sum fenes	stration area		Yes	C402.5.8	Recessed lighting in building envelope	Section C403.2.4.3  Indicate method of sealing between light fixture housing and wall or ceiling  Note in envelope plans that all recessed lighting fixtures shall be IC rated and have an air leakage rating not greater than 2 cfm per ASTM E283 test	BE800	

e en	lit is applied, then vertical fenestration tered in the correct table according to If credit is not applied then all vertical n can be entered in either table.	Windo	w Totals	21984.0	7980.9			21984.0	8793.6
ı Ve	rtical Fenestration+		Pr	oposed SH	GC		-	Target SHGC	++
D	Provide SHGC source and fenestration schedule ID	PF	SHGC	x Area (A)	= SHGC x A	PF Category	SHGC	x Area (A) =	SHGC x A
tal,	See A802		0.35	1749	612	PF < 0.2	0.53	9389	4976.2
tal, le	See A802		0.35	4788	1676	0.2≤PF<0.5	0.58		
tal,	See A802		0.35	1544	540	PF ≥ 0.5	0.64		
ixed ints	NFRC Certified		0.40	1160	464	to the propo	sed desig	(PF) credits a in, Target SH0 by PF catego	GC will
le	NFRC Certified		0.40	28	11				
e	NFRC Certified		0.40	120	48				
	North	   Windo	w Totals	9389.0	3351.6			9389.0	4976.2
	LY - The Proposed Total SHGC x A xceed the Target Total SHGC x A.	Total (	(Skylight	+ Window)	Area 31373.0	SHGC x A 11332.4		35000,000,000	SHGC x A 13769.8

SHGC COMPLIES

TO COMPLY - The Proposed Total SHGC x A shall not exceed the Target Total SHGC x A.

Component Performance Compliance (SHGC)

Building Permit Plans Checklist, pg. 1

			al Buildings including R2, R3, & R4 over 3 stories and all R1	Data	Revised Dec 20
Project Title		Mercer Island Mixed		Date	09/30/2021
Energy Code	e, Commerci	i is necessary to check al Provisions.	ca building permit application for compliance with the building envelope requ		
Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Department Not
SCOPE					
na	C402.1.1	Low energy spaces	Identify low energy spaces on plans; include project information, and calculations if applicable, that demonstrate spaces are eligible for envelope provisions exemption		
na	C402.1.1.1	Semi-heated spaces	Identify semi-heated spaces on plans, include calculations that demonstrate spaces are eligible for wall insulation exemption		
na	C402.1.2	Equipment Buildings	Provide building area, average wall and roof U-factor, and installed equipment information that demonstrates equipment building is eligible for envelope provision exemption		
na	C410.2	Walk-in and warehouse cooler and freezer spaces	Identify walk-in and warehouse cooler and freezer spaces on plans		
Yes	C101.4.1	Mixed occupancy	Identify spaces with different occupancy requirements on plans	G008	
na	C503.2	Change of space conditioning	Identify on plans existing unconditioned spaces changing to semi-heated or conditioned space, and existing semi-heated spaces changing to conditioned space; provide calculations for existing and final level of space conditioning, and calculations that demonstrate alteration complies with current WSEC		
			Identify on plans existing F, S and U-occupancy spaces undergoing a change in occupancy; provide calculations that demonstrate alteration complies with the current WSEC		
na	C505.1	Change of occupancy	Identify on plans pre-2002 Group R spaces undergoing a change to a commercial occupancy; provide calculations that demonstrate alteration complies with the current WSEC		
			Identify on plans non-Group R occupancy spaces undergoing a change to Group R; provide calculations that demonstrate alteration complies with the current WSEC		
ENVELOF	PE PROV	ISIONS			
Yes	C103.2	Compliance	Indicate envelope insulation compliance path and provide applicable forms; ENV-PRESCRIPTIVE or ENV-UA / ENV-SHGC for component performance	BE900	
	C103.6.3	documentation	If complying via total building performance, provide a list of all proposed envelope component types, areas and U-values		
Yes	C303.1.1 C303.1.2	Insulation identification	Indicate identification mark shall be applied to all insulation materials and insulation installed such that the mark is readily observable during inspection	A810-A814	
Yes	C303.1.3 C402.4.3	Fenestration product rating	Fenestration products shall be labeled with rated U-factor, SHGC, VT, and leakage rating	BE900, A800- A803	
Yes	C303.1.1	General insulation	Indicate installation methods, thicknesses, densities and clearances to achieve the intended R-value of all insulation materials;	A810-A814	
100	C402.2.1	installation	Where two or more layers of rigid insulation will be used, indicate that edge joints between layers are staggered	7010 7014	
			Indicate R-value(s) of cavity/continuous insulation on roof sections;		
			Indicate framing materials on roof sections;		
			Indicate method of framing for ceilings below vented attics and vaulted ceilings per A102.2 (std, adv);		
Yes	C103.2 C402.2.2	Roof assembly insulation	Provide area weighted average U-factor calculation for insulation whose thickness varies by 1 inch or less;	A814	
			Indicate effective U-factors of tapered insulation entirely above deck per A102.2.6; include roof configuration and slope, maximum R-value at peak and minimum R-value at low point for all roof surfaces Indicate R-values for thermal spacers and each insulation layer, and liner		
			system (LS) method for metal building roofs		
na	C402.2.2	Skylight curb insulation	Indicate curb insulation R-value on roof section if not included in skylight NFRC rating		
			Indicate R-value(s) of cavity/continuous insulation on wall sections;		
			Indicate framing materials on wall sections;		
	C103.2 C402.2.3	Ahoya/haloyyarada	Indicate method of framing for wood construction per A103.2 (std, int, adv); Indicate material density category, wall weight and heat capacity for		
Yes	C402.2.3 C402.2.4 C303.2.1	Above/below grade wall insulation	qualifying mass walls; For qualifying ASTM C90 masonry walls, indicate loose-fill core insulation	A810-A813	
	5555.2.1		material and percentage of cores filled including grouted cores, bond beams, vertical fills, headers and any other grouted cores;		
			Indicate method of protection of exposed exterior basement/crawlspace wall insulation		

			Checklist, pg. 2 al Buildings including R2, R3, & R4 over 3 stories and all R1		ENV-CHI Revised Dec 20
Project Title:	•	Mercer Island Mixe		Date	09/30/2021
Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Department No
Yes	C103.2 C402.4.4	Opaque doors	Indicate rated U-factor (swinging) or R-value (non-swinging - roll- up/sliding) on wall sections or in door schedules - applies to doors with less than 50% glazed area	A803	
		Fl	Indicate R-value(s) of cavity/continuous insulation on floor sections:		
Yes	C402.2.5	Floor over outdoor or unconditioned space	Indicate framing material on floor sections;	A813	
		insulation	Indicate material density category and weight of qualifying mass floors	-	
	0.400.0.0		Indicate R-value of continuous insulation on wall section or foundation detail;		
na	C402.2.6 C303.2.1	Slab-on-grade floor insulation	Indicate insulation extends down vertically and/or horizontally the required distance from top of slab;		
			Indicate method of protection of exposed exterior slab edge insulation		
	C402.2.6	Radiantly heated	Indicate R-value of continuous insulation on wall section or foundation detail;		
na	C303.2.1	slab-on-grade floor insulation	Indicate insulation extends down vertically from top of slab and then horizontally under the entire slab;		
			Indicate method of protection of exposed exterior slab edge insulation		
na	C402.2.8	Radiant heating system insulation	Indicate insulation R-value behind radiant panels, U-bend/headers and bottom surface of radiantly heated floors (other than radiantly heated slabon-grade)		
Yes	C402.4.1 C502.2.1 C503.3.2	Vertical fenestration maximum area	Provide calculation for total vertical fenestration area as a percentage of gross above grade wall area (WWR) for new construction, additions and alterations in ENV-SUM	BE900	
			Provide calculations showing that the percentage of overall conditioned floor area within daylight zones is equal to or greater than 50% in 1 and 2 story buildings; OR		
Yes		Increased prescriptive maximum vertical fenestration area	Provide calculations showing that the percentage of overall net floor area within daylight zones is equal to or greater than 25% in buildings 3 stories or more; include the gross floor area and list of spaces omitted for the net floor area;	BE900	
	C503.3.2	with daylight zones and controls	Note in envelope plans that all lighting fixtures located within daylight zones shall be provided with daylight responsive controls per WSEC Section C405.2.4.1; indicate method of control in lighting fixture schedules		
		Increased	Indicate that the VT of vertical fenestration is at least 1.1 times the rated SHGC		
	C402.4.1.3	prescriptive	Indicate high performance U-factors and SHGC values in fenestration schedules:		
na	C502.2.1 C503.3.2	maximum vertical fenestration area with high- performance glazing	Indicate if an area-weighted U-factor is used for multiple fenestration elements within the same fenestration category per Table C402.3; provide U-factor calculations		
na	C402.4.1.4 C403.6	Increased prescriptive maximum vertical fenestration area with DOAS mechanical systems	Indicate that for eligibility, all occupied, conditioned spaces will be served by a dedicated outside air system (DOAS) that delivers ventilation air without requiring operation of the heating/cooling system per Section C403.6		
Yes	C402.1.5	Wall/vertical fenestration target area adjustment	Indicate if component performance with target area adjustment will be used to account for vertical fenestration area in excess of the prescriptive maximum allowed	BE900	
na	C402.4.1 C502.2.2 C503.3.3	Skylight maximum area	Provide calculation for total skylight area as a percentage of gross roof area (SRR) for new construction, additions and alterations in ENV-SUM		
na	C402.1.5.2	Roof/skylight target area adjustment	Indicate if component performance with target area adjustment will be used to account for skylight area in excess of the prescriptive maximum allowed		
			Indicate U-factors, SHGC and VT values in fenestration schedules;		
Yes	C402.4.3 C303.1.3	U-factors, SHGC and VT for all fenestration assemblies	Indicate if an area-weighted U-factor is used for multiple fenestration elements within the same fenestration category per Table C402.3; provide U-factor calculations Indicate if values are NFRC or default; if default then specify frame type, glazing layers, gap width, low-e coatings, gas-fill	BE900, A800- A803	
na	C402.4.3	Permanent shading devices	For windows with overhangs or permanent projection shading devices, provide projection factor calculations (Equation C4-6) and associated minimum SHGC for north and non-north orientations		

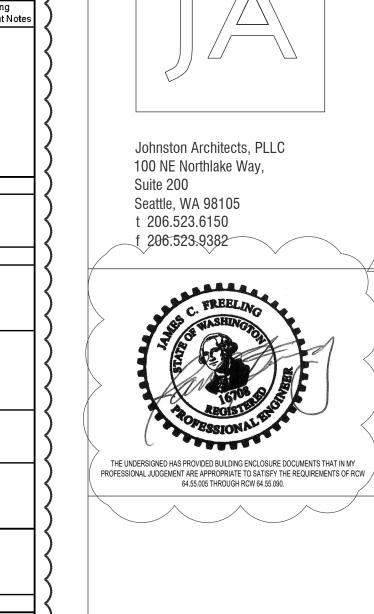
minimum SHGC for north and non-north orientations

			S Checklist, pg. 3 al Buildings including R2, R3, & R4 over 3 stories and all R1		Re
Project Title:		Mercer Island Mixe		Date	0.9
Applicability	Code	Mercer Island Mixe	_ · · · · · · · · · · · · · · · · · · ·	Location in	T
(yes,no,na)	Section	Component	Compliance information required in permit documents	Documents	De
			In single story buildings, provide list of enclosed areas that exceed 2,500 sf; for each space identify the space use, floor area, floor to ceiling height, whether skylights are installed, and any exception taken;		
na	C402.4.2	Spaces in single story buildings	Provide calculations for percentage of conditioned floor area located within a daylight zone including skylight and eligible sidelight daylight zones;		
		requiring skylights	Provide calculations for percentage of skylight area in each space over 2,500 sf, OR;		
			Provide calculations for skylight effective aperture (Equation C4-5) for each space over 2,500 sf;		
			Indicate haze factor of skylight glazing material or diffuser		
ADDITION	NAL EFFI	CIENCY PACKAG	SE OPTION - ENHANCED ENVELOPE PERFORMANCE	1	
na	C406.8	Enhanced envelope performance	To comply with additional efficiency package option, demonstrate envelope insulation compliance via component performance; provide ENV-UA / ENV-SHGC compliance forms; verify that building total UA is 15% lower than the Code target UA		
AIR LEAP	AGE				
V	0400544	Air barrier	Identify location and provide diagram of continuous air barrier in plans and sections;	DE700 DE000	
Yes	C402.5.1.1	construction and sealing	Provide details for all joints, transitions in materials, penetrations in air barrier and note method of sealing (caulked, gasketed, or other approved method)	BE700, BE800	
na	C402.5.3	Rooms containing open combustion fuel burning appliances used for	Indicate that room(s) containing non-direct vent appliances is isolated from conditioned space by the thermal envelope with a sealed air barrier, including doorway gasketing and sealing around ductwork and piping penetrations;		
		space conditioning	Indicate insulation provided in wall, floor and ceiling of the room envelope, and insulation required on combustion air ductwork		
na	C402.5.4	Access openings and doors to shafts, chutes, stairways and doors	Indicate locations of all access openings and doors to shafts, chutes, stairways and elevators; Indicate method of gasketing, weatherstripping and sealing of these		
	0400 5 5	Outdoor air intakes,	openings Indicate locations of all stairway enclosure, elevator shaft and building pressurization relief openings, outside air intakes and exhaust openings;		
na	C402.5.5 C403.2.4.3	exhausts and relief openings	Note in envelope plans that all relief, outside air intake and exhaust openings shall be provided with dampers in accordance with Mechanical Section C403.2.4.3		
		Recessed lighting in	Indicate method of sealing between light fixture housing and wall or ceiling;		
Yes	C402.5.8	building envelope	Note in envelope plans that all recessed lighting fixtures shall be IC rated and have an air leakage rating not greater than 2 cfm per ASTM E283 test; include these requirements in lighting fixture schedules	BE800	
na	C402.5.6	Loading dock seals	Indicate weather seal at cargo and loading dock doors		1
			Indicate locations and dimensions of vestibules and air curtains; Indicate exception and criteria utilized for all building entrances and exits		
Yes	C402.5.7	Vestibules	that do not have a vestibule or air curtain;	ARCH	
			Indicate required performance for air curtains installed per exception 7;		
			For unconditioned vestibules, indicate which envelope assembly (interior or exterior) complies with the requirements for a conditioned space		
			Indicate on plans the location of air barrier boundaries and area calculations on all six sides of the air barrier;		$\top$
			Indicate air barrier test method in accordance with ASTM E779 or approved equivalent;		
.,	C103.2	Building air leakage	Indicate required maximum leakage rate for compliance.	]	
Yes	C402.5.1.2		Include the following requirements in project documents: (1) Submit air barrier test report to jurisdiction once test is completed; (2) If test results exceed 0.40 cfm/ft <sup>2</sup> (1.5 L/s*m <sup>2</sup> ) at 0.3 in. wg (75 Pa), then visually inspect air barrier and seal noted sources of leakage; (3) Submit a follow-up report	BE800	

			Checklist, pg. 4 al Buildings including R2, R3, & R4 over 3 stories and all R1		Revised Dec 201
Project Title:	•	Mercer Island Mixe	d-Use	Date	09/30/2021
Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Buil ding Department Note
ADDITION	NAL EFFI	CIENCY PACKAG	E OPTION - REDUCED AIR INFILTRATION	•	•
na	C406.9	Reduced air	To comply with additional efficiency package option, indicate in project		
			documents that the air barrier test results shall not exceed 0.25 cfm/ft <sup>2</sup>		
			(0.94 L/s*m <sup>2</sup> ) at 0.3 in. wg (75 Pa); indicate air barrier test report shall be		
			submitted to the jurisdiction and building owner once test is completed		
ALTERAT	IONS	•	-	•	
na	C503.1 C503.3.1	Roof alteration - insulation	For a roof alteration where existing ceiling cavities are exposed, indicate		
			cavities are insulated to full depth at R-3 per inch		
			For a roof covering replacement where insulation is installed entirely		
			above the roof deck, indicate insulation complies with requirements for		
			new construction per Tables C402.1.3 or C402.1.4		
na	C503.1	vvali and floor	For a wall or floor alteration (floor over outdoor or unconditioned space)		
			where existing envelope cavities are exposed, indicate cavities are		
			insulated to full depth at R-3 per inch		
na	C503.3.2	Addition of vertical fenestration	Where the addition of new vertical fenestration results in total building		
			window-to-wall ratio (WWR) exceeding the maximum allowed per		
			C402.4.1, demonstrate method of compliance (vertical fenestration		
			alternate per C503.3.2, or component performance compliance with target		
			area adjustment for the total building)		
na	C503.3.3	Addition of skylights	Where the addition of new skylights results in total building skylight-to-roof		
			ratio (SRR) exceeding the maximum allowed per C402.4.1, demonstrate		
			component performance compliance with target area adjustment for the		
			total building		
PROJEC1	CLOSE	OUT DOCUMENT			
		Project close out	Indicate in plans that project close out documentation is required including		
Yes	C103.6.3	documentation	applicable WSEC envelope compliance forms and calculations, and	BE900	
		requirements	fenestration NFRC rating certificates		
If "no" is	selected	for any question	, provide explanation:		

End of Building Permit Plans Checklist

to jurisdiction noting corrective measures taken; (4) Include air barrier test



DRAWING ISSUE					
Date	Description				
12/24/2019	LAND USE SET				
03/31/2020	50% CD				
01/25/2021	BUILDING PERMIT / 90% CD				
09/30/2021	BUILDING PERMIT CORR #1/5				

SHEET TITLE **ENERGY FORMS** 

David H. Wright Sr.

Patrick McMahon