Section 1: Project Information

Project Type: New Construction Project Title: BUILDING E

Construction Site: Owner/Agent: Designer/Contractor:

Section 2: General Information

Building Location (for weather data): Portland, Maine

Climate Zone:

Building Space Conditioning Type(s): Nonresidential

Vertical Glazing / Wall Area Pct.:

Activity Type(s) Floor Area Multifamily 11370

Section 3: Requirements Checklist

Envelope PASSES: Design 15% better than code

Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Ext. Wall: Wood-Framed, 16in. o.c.	5941	20.7	11.0	0.035	0.051
Window: , Perf. Type: Other testing/cert. Product ID: FG, SHGC 0.27 (c)	1153			0.290	0.350
Door: , Perf. Type: Other testing/cert. Product ID: FG, SHGC 0.27 (c)	120			0.300	0.350
Door: Insulated Metal, Swinging	105			0.076	0.700
Door: Insulated Metal, Non-Swinging	360			0.075	0.500
Basement: Solid Concrete, 8in. Thickness, Normal Density, Furring: None, Wall Ht 3.0, Depth B.G. 0.0	174		10.0	0.088	0.108
Basement: Solid Concrete, 8in. Thickness, Normal Density, Furring: None, Wall Ht 5.0, Depth B.G. 5.0	250		10.0	0.088	0.108
Floor: Unheated Slab-On-Grade, Horizontal with vertical >= 4 ft.	298		10.0		
Roof: Other Insulation Above Deck Roof (b)	3623			0.012	0.048

⁽a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

n 1. All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions. ☐ 2. Windows, doors, and skylights certified as meeting leakage requirements. ☐ 3. Component R-values & U-factors labeled as certified. ■ 4. No roof insulation is installed on a suspended ceiling with removable ceiling panels.

☐ 5. 'Other' components have supporting documentation for proposed U-Factors.

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Data filename:

⁽b) 'Other' components require supporting documentation for proposed U-factors.

⁽c) Fenestrations product performance must be certified in accordance with NFRC and requires supporting documentation.

Proj	ect Notes:									
Nar	ne - Title	Signature	Date							
requi	rements in COM <i>check-Web</i> and to comply with the mandate	ory requirements in the Requ	irements Checklist.							
	other calculations submitted with this permit application. The		· · · · · · · · · · · · · · · · · · ·							
	pliance Statement: The proposed envelope design represent		• • • • • • • • • • • • • • • • • • • •							
	ction 4: Compliance Statement									
	☐ Doors opening directly from a sleeping/dwelling unit.									
	 Doors used primarily to facilitate vehicular movement or materials handling and adjacent personnel doors. 									
	☐ Doors that open directly from a space less than 3000 sq. ft. in area.									
	Doors not intended to be used as a building entrance.									
	Building entrances with revolving doors.									
□ 1	Building entrance doors have a vestibule equipped with se Exceptions:	elf-closing devices.								
1 9			ng ASTM E283, are sealed with gasket or caulk.							
a 8	. Cargo doors and loading dock doors are weather sealed.									
 7	 Stair, elevator shaft vents, and other outdoor air intake an dampers. 	nd exhaust openings in the bu	ilding envelope are equipped with motorized							
 6	 Insulation installed according to manufacturer's instruction achieves the rated R-value without compressing the insul 		the surface being insulated, and in a manner that							

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Section 1: Project Informati

Project Type: New Construction Project Title: BUILDING E

Construction Site: Owner/Agent: Designer/Contractor:

Section 2: Interior Lighting and Power Calculation

	A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
Multifamily		11370	0.7	7959
		То	tal Allowed Watts =	7959

Section 3: Interior Lighting Fixture Schedule

A Fixture ID: Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures		(C X D)	
Multifamily (11370 sq.ft.)					
Total Proposed Watts -					

Section 4: Requirements Checklist

Interior Lic	ahtina	TBD : No lighting fixtures	specified

Lighting Wattage:

<u> </u>	1.	Total	proposed	watts	must	be	less t	han	or	equal	to	total	allo	owed	watt	s.
----------	----	-------	----------	-------	------	----	--------	-----	----	-------	----	-------	------	------	------	----

Allowed Watts	Proposed Watts	Complies
7959	0	YES

Controls, Switching, and Wiring:

	2.	Daylight zones under skylights more than	15 feet from the perimeter	have lighting controls	s separate from dayligh	t zones adjacent to
_		vertical fenestration.				

n 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:

- Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.
- Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.
- ☐ 4. Independent controls for each space (switch/occupancy sensor).

Exceptions:

- Areas designated as security or emergency areas that must be continuously illuminated.
- ☐ Lighting in stairways or corridors that are elements of the means of egress.
- ☐ 5. Master switch at entry to hotel/motel guest room.
- ☐ 6. Individual dwelling units separately metered.

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 7	Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.
] ⁸	3. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.
	Exceptions:
	☐ Only one luminaire in space.
	☐ An occupant-sensing device controls the area.
	☐ The area is a corridor, storeroom, restroom, public lobby or sleeping unit.
_ 9	☐ Areas that use less than 0.6 Watts/sq.ft. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.
	Exceptions:
□ ¹	☐ Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security. 10. Photocell/astronomical time switch on exterior lights.
	Exceptions:
_ 1	☐ Lighting intended for 24 hour use. 1.Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).
	Exceptions:
	☐ Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

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Section 1: Project Information

Project Type: New Construction Proiect Title: BUILDING E

Exterior Lighting Zone: 0 (Unspecified)

Construction Site: Owner/Agent: Designer/Contractor:

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B x C)	F Proposed Watts
	0	0	No	0	0
		Total Trad	able Watts* =	. 0	0
		Total All	owed Watts =	. 0	
	Total Allo	wed Suppleme	ntal Watts** =	500	

^{*} Wattage tradeoffs are only allowed between tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID: Description / Lamp / Wattage Per Lamp / Ballast	•	C # of Fixtures		E (C X D)		
Select Area Type (0): Non-tradable Wattage						
Total Tradable Proposed Watts =						

Section 4: Requirements Checklist

Lighting Wattage:

🔁 1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.

Compliance: Exterior lighting zone not specified (see project screen)

Controls, Switching, and Wiring:

- n 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.
- ☐ 3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an astronomical time
- n 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.
- 7 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

Exterior Lighting Efficacy:

n 6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt.

Exceptions:

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^{**} A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

☐ Lighting that has been claimed as exempt and is identified as such in Section 3 table above.	
Lighting that is specifically designated as required by a health or life safety statue, ordinance, or reg	julation.
Emergency lighting that is automatically off during normal building operation.	
☐ Lighting that is controlled by motion sensor.	

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20	09 IECC							
Se	ection 1: Project Info	rmation						
	ject Type: New Construction ject Title : BUILDING E							
Cor	nstruction Site:	Owner/Agent:	Desig	ner/Contractor:				
Se	ection 2: General Info	ormation						
	ding Location (for weather data): nate Zone:	Portland, Maine 6a						
Se	ection 3: Mechanical	Systems List						
Qua	ntity System Type & Description							
Se	Section 4: Requirements Checklist							
Con and	ection 5: Compliance Inpliance Statement: The proposed mother calculations submitted with this sirements in COMcheck-Web and to complete the comple	echanical design represented in permit application. The propos	ed mechanical systems I	nave been designed to meet the 200				
Na	me - Title	Signat	ure	Date				
Se	ection 6: Post Const	ruction Compliar	nce Statemen	t				
	HVAC record drawings of the actual installation, system capacities, calibration information, and performance data for each equipme provided to the owner.							
	HVAC O&M documents for all mechanical equipment and system provided to the owner by the mechanical contractor.							
Written HVAC balancing and operations report provided to the owner.								
The	above post construction requirements	s have been completed.						
Prin	cipal Mechanical Designer-Name	Signature		Date				

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