

# Florida Building Code, Seventh Edition (2020) - Energy Conservation

EnergyGauge Summit® Fla/Com-2020, Effective Date: Dec 31, 2020

C402.1.1: ASHRAE Energy Cost Budget Option

## Check List

Applications for compliance with the Florida Building Code, Energy Conservation shall include:

- This Checklist
- The full compliance report generated by the software that contains the project summary, compliance summary, certifications and detailed component compliance reports.
- The compliance report must include the full input report generated by the software as contiguous part of the compliance report.
- Boxes appropriately checked in the Mandatory Section of the compliance report.

## PROJECT SUMMARY

**Short Desc:** OAS-BT1A

**Description:** Oasis at Surfside Building B

**Owner:** Zimmer Development Company

**Address1:** SW 21st Ave.

**City:** Cape Coral

**Address2:**

**State:** FL

**Zip:** 34239

**Type:** Multi-Family

**Class:** New Finished building

**Jurisdiction:** CAPE CORAL, LEE COUNTY, FL (461100)

**Conditioned Area:** 75801 SF

**Conditioned & UnConditioned Area:** 75801 SF

**No of Stories:** 4

**Area entered from Plans** 80876 SF

**Permit No:** 0

**Max Tonnage** 2

**If different, write in:** \_\_\_\_\_

## Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost (in \$)	28,075.0	35,187.0	<b>PASSED</b>
LIGHTING CONTROLS			<b>PASSES</b>
EXTERNAL LIGHTING			<b>PASSES</b>
HVAC SYSTEM			<b>PASSES</b>
PLANT			<b>No Entry</b>
WATER HEATING SYSTEMS			<b>Not Checked</b>
PIPING SYSTEMS			<b>PASSES</b>
Met all required compliance from Check List?			<b>Yes/No/NA</b>

**IMPORTANT MESSAGE**

Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report

## CERTIFICATIONS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code

Prepared By: \_\_\_\_\_

Building Official: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

I certify that this building is in compliance with the FLorida Energy Efficiency Code

Owner Agent: \_\_\_\_\_

Date: \_\_\_\_\_

If Required by Florida law, I hereby certify (\*) that the system design is in compliance with the Florida Energy Efficiency Code

Architect: \_\_\_\_\_

Reg No: \_\_\_\_\_

Electrical Designer: \_\_\_\_\_

Reg No: \_\_\_\_\_

Lighting Designer: \_\_\_\_\_

Reg No: \_\_\_\_\_

Mechanical Designer: \_\_\_\_\_

Reg No: \_\_\_\_\_

Plumbing Designer: \_\_\_\_\_

Reg No: \_\_\_\_\_

(\*) Signature is required where Florida Law requires design to be performed by registered design professionals. Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.

Project: OAS-BT1A  
 Title: Oasis at Surfside Building BT1A  
 Type: Multi-Family  
 (WEA File: FL\_FORT\_MYERS\_PAGE\_FIELD.tm3)

**Building End Uses**

	1) Proposed	2) Baseline
<b>Total</b>	<i>1,924.00</i>	<i>2,440.80</i>
	<i>\$28,075</i>	<i>\$35,187</i>
ELECTRICITY(MBtu/kWh/\$)	1,924.00 563757 <i>\$28,075</i>	2,440.80 715182 <i>\$35,187</i>
AREA LIGHTS	142.60 41788 <i>\$2,081</i>	323.00 94629 <i>\$4,656</i>
MISC EQUIPMT	424.40 124359 <i>\$6,193</i>	424.40 124359 <i>\$6,118</i>
PUMPS & MISC	0.00 13 <i>\$1</i>	0.10 37 <i>\$2</i>
SPACE COOL	791.30 231849 <i>\$11,546</i>	1,252.60 367026 <i>\$18,058</i>
SPACE HEAT	136.40 39961 <i>\$1,990</i>	72.40 21221 <i>\$1,044</i>
VENT FANS	429.30 125787 <i>\$6,264</i>	368.30 107910 <i>\$5,309</i>

Credits Applied: None

<b>PASSES</b>
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Passing Criteria = 35187

Design (including any credits) = 28075

Passing requires Proposed Building cost to be at most 100% of Baseline cost. This Proposed Building is at 79.8%

**Project: OAS-BT1A**  
**Title: Oasis at Surfside Building BT1A**  
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**External Lighting Compliance**

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Other (doors) than main entries	Yes	21.00	192.0	4,032	960

**Tradable Surfaces: 960 (W) Allowance for Tradable: 4532 (W)**

**PASSES**

**All External Lighting: 960 (W)**

**Compliance check includes a excess/Base allowance of 500.00(W)**

Project: OAS-BT1A  
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### Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
UT3	16,001	Private Living Space	1,376	1	1	PASSES
UT2	16,001	Private Living Space	1,100	1	1	PASSES
UT2.1	16,001	Private Living Space	1,131	1	1	PASSES
UT2.1	16,001	Private Living Space	1,131	1	1	PASSES
UT2	16,001	Private Living Space	1,100	1	1	PASSES
UT1	16,001	Private Living Space	763	1	1	PASSES
UT3	16,001	Private Living Space	1,376	1	1	PASSES
UT3	16,001	Private Living Space	1,376	1	1	PASSES
UT2.2	16,001	Private Living Space	1,491	1	1	PASSES
UT2	16,001	Private Living Space	1,100	1	1	PASSES
UT1	16,001	Private Living Space	763	1	1	PASSES
UT3	16,001	Private Living Space	1,376	1	1	PASSES
UT3	16,001	Private Living Space	1,376	1	1	PASSES
UT2	16,001	Private Living Space	1,100	1	1	PASSES
UT2.1	16,001	Private Living Space	1,131	1	1	PASSES
UT2	16,001	Private Living Space	1,100	1	1	PASSES
UT1	16,001	Private Living Space	763	1	1	PASSES
UT3	16,001	Private Living Space	1,376	1	1	PASSES
UT3	16,001	Private Living Space	1,376	1	1	PASSES
UT2.1	16,001	Private Living Space	1,131	1	1	PASSES
UT2.2	16,001	Private Living Space	1,491	1	1	PASSES
UT1	16,001	Private Living Space	763	1	1	PASSES
UT2	16,001	Private Living Space	1,100	1	1	PASSES
UT3	16,001	Private Living Space	1,376	1	1	PASSES
UT3	16,001	Private Living Space	1,376	1	1	PASSES
UT2	16,001	Private Living Space	1,100	1	1	PASSES
UT2.1	16,001	Private Living Space	1,131	1	1	PASSES
UT2.1	16,001	Private Living Space	1,131	1	1	PASSES
UT2	16,001	Private Living Space	1,100	1	1	PASSES
UT1	16,001	Private Living Space	763	1	1	PASSES
UT3	16,001	Private Living Space	1,376	1	1	PASSES
UT3	16,001	Private Living Space	1,376	1	1	PASSES
UT1	16,001	Private Living Space	763	1	1	PASSES
UT2.2	16,001	Private Living Space	1,491	1	1	PASSES
UT1	16,001	Private Living Space	763	1	1	PASSES
UT3	16,001	Private Living Space	1,376	1	1	PASSES
Pr0Zo40Sp1	1	Electrical Mechanical Equipment Room - General	51	1	1	PASSES
Pr0Zo41Sp1	1	Electrical Mechanical Equipment Room - General	27	1	1	PASSES
Pr0Zo41Sp1	1	Electrical Mechanical Equipment Room - General	16	1	1	PASSES

**PASSES**





<b>AHU3</b>		<b>AHU 3</b>		<b>Constant Volume Air Cooled Split System &lt; 65000 Btu/hr</b>			<b>No. of Units</b>
							<b>20</b>
<b>Component</b>	<b>Category</b>	<b>Capacity</b>	<b>Design Eff</b>	<b>Eff Criteria</b>	<b>Design IPLV</b>	<b>IPLV Criteria</b>	<b>Compliance</b>
Cooling System	Air Conditioners Air Cooled Split System < 65000 Btu/h Cooling Capacity	22800	14.00	13.00	8.00		<b>PASSES</b>
Heating System	Heat Pumps Air Cooled (Heating Mode) Split System < 65000 Btu/h Cooling Capacity	23200	8.50	8.20			<b>PASSES</b>
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	800	0.50	0.82			<b>Not Required</b>
Air Distribution System (Sup)	Not in Check list - Compliance Ignored		6.00	6.00			<b>N/A</b>
Air Distribution System (Ret)	Not in Check list - Compliance Ignored		6.00	6.00			<b>N/A</b>
<b>AH-10</b>		<b>AH-10</b>		<b>Variable refrigerant Flow System</b>			<b>No. of Units</b>
							<b>1</b>
<b>Component</b>	<b>Category</b>	<b>Capacity</b>	<b>Design Eff</b>	<b>Eff Criteria</b>	<b>Design IPLV</b>	<b>IPLV Criteria</b>	<b>Compliance</b>
Cooling System	VRF Air Conditioners Air Cooled 0 to 65000 Btu/h Cooling Capacity	24000	17.00	13.00	8.00		<b>PASSES</b>
Heating System	Heat Pumps Air Cooled (Heating Mode) < 65000 Btu/h Cooling Capacity	26000	3.00	2.34			<b>PASSES</b>
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	775	0.40	0.82			<b>Not Required</b>
<b>AH11</b>		<b>AH-11</b>		<b>Constant Volume Air Cooled Split System &lt; 65000 Btu/hr</b>			<b>No. of Units</b>
							<b>4</b>
<b>Component</b>	<b>Category</b>	<b>Capacity</b>	<b>Design Eff</b>	<b>Eff Criteria</b>	<b>Design IPLV</b>	<b>IPLV Criteria</b>	<b>Compliance</b>
Cooling System	Air Conditioners Air Cooled Split System < 65000 Btu/h Cooling Capacity	9000	16.00	13.00	8.00		<b>PASSES</b>
Heating System	Electric Furnace	10000	1.00	1.00			<b>PASSES</b>
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	300	0.40	0.82			<b>Not Required</b>

**PASSES**

**Plant Compliance**

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance
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**None**

**Project: OAS-BT1A**

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**Type: Multi-Family**

**(WEA File: FL\_FORT\_MYERS\_PAGE\_FIELD.tm3)**

**Water Heater Compliance**

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 2	Electric Storage water heater	Unknown	0.92				<b>Not Checked</b>

**Not Checked**

**Project: OAS-BT1A**

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**Piping System Compliance**

Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance
Domestic and Service Hot Water Systems	0.50	False	110.00	0.28	1.00	0.50	<b>PASSES</b>

**PASSES**

# Mandatory Requirements (as applicable)

Requirements compiled by US Department of Energy and Pacific Northwest National Laboratory. Adopted for FBC with permission. Not all may be applicable

Topic	Section	Component	Description	Yes	N/A	Exempt
<b>1. To be checked by Designer or Engineer</b>						
Insulation	5.8.1.2	Envelope	Below-grade wall insulation installed per manufacturer's instructions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.2	Envelope	Slab edge insulation installed per manufacturer's instructions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.5.3.5	Envelope	Slab edge insulation depth/length.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	6.4.4.1.5	Envelope	Bottom surface of floor structures incorporating radiant heating insulated to $\geq R-3.5$ .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.1, 6.5.1.1, 6.5.1.3, 6.5.1.4	Mechanical	Air economizers provided where required (and not exempted), meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.1, 6.5.1.2, 6.5.1.2.1, 6.5.1.3	Mechanical	Water economizers provided where required, meet the requirements for design capacity, maximum pressure drop and integrated economizer control. Capable if providing 100% of the expected system cooling load when outdoor air $\leq 50F$ .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.1.5	Mechanical	Economizer operation will not increase heating energy use during normal operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.2.2.1	Mechanical	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.2.2.3	Mechanical	Hydronic heat pump systems connected to a common water loop meet heat rejection and heat addition requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.1.6	Mechanical	Water economizer specified on hydronic cooling and humidification systems designed to maintain inside humidity at $>35$ °F dewpoint if an economizer is required.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.1.1	Mechanical	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.1.2	Mechanical	HVAC fan motors not larger than the first available motor size greater than the bhp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.6.1	Mechanical	Exhaust air energy recovery on systems meeting Tables 6.5.6.1-1, and 6.5.6.1-2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.2	Mechanical	Service water heating equipment meets efficiency requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.5.2	Mechanical	Service water heating equipment used for space heating complies with the service water heating equipment requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.2	Envelope	Above-grade wall insulation installed per manufacturer's instructions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.2	Envelope	Floor insulation installed per manufacturer's instructions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	10.4.3	Mechanical	Elevators are designed with the proper lighting, ventilation power, and standby mode.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7a	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement $\geq 40.2$ gpm/hp .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7b	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement $\geq 20.0$ gpm/hp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7c	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement $\geq 16.1$ gpm/hp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7d	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement $\geq 7.0$ gpm/hp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.5.3	Mechanical	Centrifugal fan open-circuit cooling towers having combined rated capacity $\geq 1100$ gpm meets minimum efficiency requirement: $\geq 38.2$ gpm/hp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7e	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement $\geq 176$ kBtu/h-hp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7f	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement $\geq 157$ kBtu/h-hp w/ R-507A test fluid.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7g	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement $\geq 134$ kBtu/h-hp w/ Ammonia test fluid..	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7h	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement $\geq 135$ kBtu/h-hp w/ R-507A test fluid.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7i	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement $\geq 110$ kBtu/h-hp w/ Ammonia test fluid.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.5.3	Mechanical	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment $\geq 1,000$ kBtu/h serves the entire building, thermal efficiency must be $\geq 90$ Et. Where multiple pieces of water-heating equipment serve the building with combined rating is $\geq 1,000$ kBtu/h, the combined input-capacity-weighted-average thermal efficiency, thermal efficiency must be $\geq 90$ Et. Exclude input rating of equipment in individual dwelling units and equipment $\leq 100$ kBtu/h.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.2.4	Mechanical	Return and relief fans used to meet Section 6.5.1.1.5 have relief air rate controlled to maintain building pressure through differential supply-return airflow tracking. Systems with supply fans allowed to control the relief system based on outdoor air damper position. Fans have variable speed control or other devices for managing total return/relief fan system demand per section threshold.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.2.6	Mechanical	Units that provide ventilation air to multiple zones and operate in conjunction with zone heating and cooling systems are prevented from using heating or heat recovery to warm supply air above 60°F when representative building loads or outdoor air temperature indicate that most zones demand cooling.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.4.7	Mechanical	Chilled-water cooling coils provide a 15°F or higher temperature difference between leaving and entering water temperatures and a minimum of 57°F leaving water temperature at design conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.4	Mechanical	Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or reverse the terminal damper logic and provide heating from the central air handler through primary air.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SYSTEM_SPECIFIC	6.5.3.7	Mechanical	Required minimum outdoor air rate is the larger of minimum outdoor air rate or minimum exhaust air rate required by Standard 62.1, Standard 170, or applicable codes or accreditation standards. Outdoor air ventilation systems shall comply with one of the following: a) design minimum system outdoor air provided < 135% of the required minimum outdoor air rate, b) dampers, ductwork, and controls allow the system to supply <= the required minimum outdoor air rate with a single set-point adjustment., or c) system includes exhaust air energy recovery complying with Section 6.5.6.1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.8.1-15, 6.8.1-16	Mechanical	Electrically operated DX-DOAS units meet requirements per Tables 6.8.1-15 or 6.8.1-16.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2. To be checked by Plan Reviewer</b>						
Plan Review	4.2.2, 5.4.3.1.1, 5.7	Envelope	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	4.2.2, 6.4.4.2.1, 6.7.2	Mechanical	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	4.2.2, 7.7.1, 10.4.2	Mechanical	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	4.2.2, 8.4.1.1, 8.4.1.2, 8.7	Project	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	4.2.2, 9.4.3, 9.7	Interior Lighting	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	9.7	Exterior Lighting	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.7.3	Envelope	Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	5.4.3.4	Envelope	Vestibules are installed where building entrances separate conditioned space from the exterior, and meet exterior envelope requirements. Doors have self-closing devices, and are >=7 ft apart (>= 16 ft apart for adjoining floor area >= 40000 sq.ft.). Vestibule floor area <=7 50 sq.ft. or 2 percent of the adjoining conditioned floor area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft <sup>2</sup> , any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is $\geq$ half the floor area and (a) the skylight area to daylight zone is $\geq$ 3 percent with a skylight VT $\geq$ 0.40 or (b) the minimum skylight effective aperture $\geq$ 1 percent. The skylights have a measured haze value > 90 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft <sup>2</sup> , any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is $\geq$ half the floor area and (a) the skylight area to daylight zone is $\geq$ 3 percent with a skylight VT $\geq$ 0.40 or (b) the minimum skylight effective aperture $\geq$ 1 percent. The skylights have a measured haze value > 90 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft <sup>2</sup> , any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is $\geq$ half the floor area and (a) the skylight area to daylight zone is $\geq$ 3 percent with a skylight VT $\geq$ 0.40 or (b) the minimum skylight effective aperture $\geq$ 1 percent. The skylights have a measured haze value > 90 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft <sup>2</sup> , any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is $\geq$ half the floor area and (a) the skylight area to daylight zone is $\geq$ 3 percent with a skylight VT $\geq$ 0.40 or (b) the minimum skylight effective aperture $\geq$ 1 percent. The skylights have a measured haze value > 90 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft <sup>2</sup> , any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is $\geq$ half the floor area and (a) the skylight area to daylight zone is $\geq$ 3 percent with a skylight VT $\geq$ 0.40 or (b) the minimum skylight effective aperture $\geq$ 1 percent. The skylights have a measured haze value > 90 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft <sup>2</sup> , any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is $\geq$ half the floor area and (a) the skylight area to daylight zone is $\geq$ 3 percent with a skylight VT $\geq$ 0.40 or (b) the minimum skylight effective aperture $\geq$ 1 percent. The skylights have a measured haze value > 90 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.4.4	Mechanical	Ventilation fans >0.75 hp have automatic controls to shut off fan when not required.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.8	Mechanical	Demand control ventilation provided for spaces >500 ft <sup>2</sup> and >25 people/1000 ft <sup>2</sup> occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.4.1.4	Mechanical	Thermally ineffective panel surfaces of sensible heating panels have insulation $\geq$ R-3.5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.2.3	Mechanical	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.1.3	Mechanical	Fans have efficiency grade (FEG) $\geq$ 67. The total efficiency of the fan at the design point of operation $\leq$ 15% of maximum total efficiency of the fan.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.6	Mechanical	Motors for fans $\geq$ 1/12 hp and < 1 hp are electronically-commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.10	Mechanical	DDC system installed and capable of and configured to provide control logic including monitoring zone and system demand for fan pressure, pump pressure, heating, and cooling; transferring zone and system demand information from zones to air distribution system controllers and from air distribution systems to heating and cooling plant controllers; automatically detecting and alerting system operator when zones and systems excessively drive the reset logic; allow operator removal of zone(s) from the reset algorithm; AND capable of trending and graphically displaying input and output points.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SYSTEM_SPECIFIC	6.5.3.2.3	Mechanical	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure. Controls provide: zone damper monitoring or indicator of static pressure need; autodetection, alarm, and operator override of zones excessively triggering reset logic.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.3	Mechanical	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.5	Mechanical	Multiple zone HVAC systems have supply air temperature reset controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.4.1	Mechanical	System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of single-input and modulating boilers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.4.2	Mechanical	Boiler input between 1.0 MBtu/h and 5 MBtu/h has 3:1 turndown ratio, boiler input between 5.0 MBtu/h and 10 MBtu/h has 4:1 turndown ratio, boiler input > 10.0 MBtu/h has 5:1 turndown ratio. HVAC pumping systems with >= 3 control values designed for variable fluid flow (see section details).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.4.3, 6.5.4.3.1, 6.5.4.3.2	Mechanical	Fluid flow shutdown in pumping systems to multiple chillers or boilers when systems are shut down.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.4.4	Mechanical	Temperature reset by representative building loads in pumping systems >10 hp for chiller and boiler systems >300,000 Btu/h.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.4.5.1	Mechanical	Two-position automatic valve interlocked to shut off water flow when hydronic heat pump with pumping system >10 hp is off.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.4.5.2	Mechanical	Hydronic heat pumps and water-cooled unitary air conditioners with pump systems >5 hp have controls or devices to reduce pump motor demand.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.5.2.1	Mechanical	Fan systems with motors or array of motors (including the motor service factor) with connected power totaling >=5 hp associated with heat rejection equipment to have controls and/or devices that result in fanmotor demand of <= 30% of design wattage at 50% of design airflow and automatically modulates fan speed to control the leaving fluid temperature or condensing temp/pressure of heat rejection device.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.5.2.2	Mechanical	Multicell heat rejection equipment with variable-speed fan drives installed that operate the maximum number of fans allowed that comply with manufacturers specs and control all fans to the same fan speed required for the instantaneous cooling duty.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.7.1	Mechanical	Conditioned supply air to space with mechanical exhaust <= the greater of criteria of supply flow, required ventilation rate, exhaust flow minus the available transfer air (see section details).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.7.2.1	Mechanical	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.7.2.2	Mechanical	Kitchen hoods with a total exhaust airflow rate >5000 cfm meet replacement air, ventilation system, or energy recovery requirements shown in Table 6.5.7.1.3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.7.2.3	Mechanical	Kitchen hoods with a total exhaust airflow rate >5000 cfm meet replacement air, ventilation system, or energy recovery requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.7.2	Mechanical	Fume hoods exhaust systems >=5,000 cfm have VAV hood exhaust and supply systems, direct make-up air or heat recovery.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.8.1	Mechanical	Unenclosed spaces that are heated use only radiant heat.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



SYSTEM_SPECIFIC	7.5.1	Mechanical	Combined space and water heating system not allowed unless standby loss less than calculated maximum. AHJ has approved or combined connected load <150 kBtu/h.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Equipment	10.4.1	Mechanical	Electric motors meet requirements where applicable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.3.2	Mechanical	Setback controls allow automatic restart and temporary operation as required for maintenance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.3.3	Mechanical	Systems with setback controls and DDC include optimum start controls. Optimum start algorithm considers mass radiant slab floor temperature.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.3.4	Mechanical	Zone isolation devices and controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	9.4.2	Exterior Lighting	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.4d	Exterior Lighting	Outdoor parking area luminaires $\geq$ 78W and $\leq$ 24 ft height controlled to reduce wattage by 50% when area unoccupied over 15 minutes. Controlled power limited to $\leq$ 1500W.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.2a	Interior Lighting	Parking garage lighting is equipped with automatic shutoff controls per Section 9.4.1.1(i).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.2b	Interior Lighting	Parking garage luminaire power is automatically reduced by $\geq$ 30% when zone < 3600 ft <sup>2</sup> has no occupancy after 20 minutes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.2c	Interior Lighting	Parking garage luminaires in or around covered entrances/exits between building and garage automatically reduced by $\geq$ 50% from sunset to sunrise.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.2d	Interior Lighting	Parking garage: Power to luminaires $\leq$ 20 ft of any perimeter wall that has a net opening-to-wall ratio $\geq$ 40% and no exterior obstructions within 20 ft, is automatically reduced in response to daylight $\geq$ 50%.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Equipment	6.8.1-14	Mechanical	Vapor compression based indoor pool dehumidifiers (single package (indoor air/water cooled or w/out air-cooled condenser) or split system indoor air-cooled ) have a minimum 3.5 MRE efficiency rating.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	6.4.3.3.5	Mechanical	Hotels/motel w/ > 50 guest rooms have automatic controls for the HVAC equipment serving each room configured per Section 6.4.3.3.5 subsections 1-3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>3. To be checked by Inspector</b>						
Insulation	5.8.1.7	Envelope	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.7	Mechanical	Freeze protection and snow/ice melting system sensors for future connection to controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	5.4.3.1	Envelope	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces in climate zones 1-6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	5.4.3.2	Envelope	Factory-built and site-assembled fenestration and doors are labeled or certified as meeting air leakage requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fenestration	5.8.2.1, 5.8.2.3, 5.8.2.4, 5.8.2.5	Envelope	Fenestration products rated (U-factor, SHGC, and VT) in accordance with NFRC or energy code defaults are used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fenestration	5.8.2.2	Envelope	Fenestration and door products are labeled, or a signed and dated certificate listing the U-factor, SHGC, VT, and air leakage rate has been provided by the manufacturer.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.4.1	Mechanical	Temperature controls installed on service water heating systems ( $\leq$ 120°F to maximum temperature for intended use).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SYSTEM_SPECIFIC	7.4.4.2	Mechanical	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.6	Mechanical	Heat traps installed on non-circulating storage water tanks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.1.4, 6.4.1.5	Mechanical	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting 90.1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.5.2	Mechanical	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.4.1	Mechanical	Stair and elevator shaft vents have motorized dampers that automatically close.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.4.2, 6.4.3.4.3	Mechanical	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.4.5	Mechanical	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.3.2.1	Mechanical	DX cooling systems $\geq 75$ kBtu/h ( $\geq 65$ kBtu/h effective 1/2016) and chilled-water and evaporative cooling fan motor hp $\geq \frac{1}{4}$ designed to vary supply fan airflow as a function of load and comply with operational requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.4.1.1	Mechanical	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.4.1.2	Mechanical	HVAC ducts and plenums insulated per Table 6.8.2. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.4.1.3	Mechanical	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.4.2.1	Mechanical	Ducts and plenums having pressure class ratings are Seal Class A construction.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.4.2.2	Mechanical	Ductwork operating $>3$ in. water column requires air leakage testing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.2.1	Mechanical	Zone controls can limit reheating, recooling, simultaneous heating and cooling and sequence heating and cooling to each zone.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.11.1	Mechanical	Electric motor driven chilled-water plants have measurement devices installed and measure the electricity use and efficiency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.11.2	Mechanical	Electricity use and efficiency are trended every 15 minutes and graphically displayed, including hourly, daily, monthly, and annual data. Data are preserved for 36 months or more.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.2.2.2	Mechanical	Two-pipe hydronic systems using a common distribution system have controls to allow a deadband $\geq 15$ °F, allow operation in one mode for at least 4 hrs before changeover, and have rest controls to limit heating and cooling supply temperature to $\leq 30$ °F.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.2.4.1	Mechanical	Humidifiers with airstream mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.2.4.2	Mechanical	Humidification system dispersion tube hot surfaces in the airstreams of ducts or air-handling units insulated $\geq R-0.5$ .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.2.5	Mechanical	Preheat coils controlled to stop heat output whenever mechanical cooling, including economizer operation, is active.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.2.2	Mechanical	VAV fans have static pressure sensors positioned so setpoint $\leq 1.2$ in. w.c. design pressure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.4.6	Mechanical	Chilled-water and condenser water piping sized according to design flow rate and total annual hours of operation (Table 6.5.4.6).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SYSTEM_SPECIFIC	6.5.6.2	Mechanical	Condenser heat recovery system that can heat water to 85 °F or provide 60% of peak heat rejection is installed for preheating of service hot water.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.7.2.4	Mechanical	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.9	Mechanical	Hot gas bypass limited to: <=240 kBtu/h – 15% >240 kBtu/h – 10%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.9	Mechanical	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	6.5.10	Mechanical	Doors separating conditioned space from the outdoors have controls that disable/reset heating and cooling system when open.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.1 except(g)	Interior Lighting	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.1 except(g)	Interior Lighting	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.1f	Interior Lighting	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.4	Exterior Lighting	Automatic lighting controls for exterior lighting installed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.3	Interior Lighting	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	9.6.2	Interior Lighting	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	9.6.4	Interior Lighting	Where space LPD requirements are adjusted based on room cavity ratios, dimensions are consistent with approved plans.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	4.2.4	Envelope	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.2, 5.8.1.3	Envelope	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope is <= 3:12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.1	Envelope	Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.9	Envelope	Building envelope insulation extends over the full area of the component at the proposed rated R or U value.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.4	Envelope	Eaves are baffled to deflect air to above the insulation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.5	Envelope	Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.6	Envelope	Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.7.1	Envelope	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.7.2	Envelope	Foundation vents do not interfere with insulation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Insulation	5.8.1.8	Envelope	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.1.1	Mechanical	Heating and cooling to each zone is controlled by a thermostat control.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.1.2	Mechanical	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.2	Mechanical	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.3.1	Mechanical	HVAC systems equipped with at least one automatic shutdown control.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.5	Mechanical	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.12	Mechanical	Air economizer has a fault detection and diagnostics (FDD) system (see details for configuration and operational requirements).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.6	Mechanical	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited. Humidity control prohibits the use of fossil fuel or electricity to produce RH > 30% in the warmest zone humidified and RH < 60% in the coldest zone dehumidified.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.4.3	Mechanical	Public lavatory faucet water temperature <=110°F.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.4.4	Mechanical	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.5.1	Mechanical	Pool heaters are equipped with on/off switch and no continuously burning pilot light.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.5.2	Mechanical	Pool covers are provided for heated pools and pools heated to >90°F have a cover >=R-12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.5.3	Mechanical	Time switches are installed on all pool heaters and pumps.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	9.2.2.3	Interior Lighting	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.3	Mechanical	All piping in recirculating system insulated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.3	Mechanical	First 8 ft of outlet piping in nonrecirculating storage system, or branch piping connected to recirculated, heat traced, or impedance heated piping is insulated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.3	Mechanical	All heat traced or externally heated piping insulated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	9.4.4	Interior Lighting	At least 75% of all permanently installed lighting fixtures in dwelling units have >= 55 lm/W efficacy or a >= 45 lm/W total luminaire efficacy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### 4. To be checked by Inspector at Project Completion and Prior to Issuance of Certificate of Occupancy

Plan Review	6.7.2.4	Mechanical	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	6.7.2.4	Mechanical	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	6.7.2.1	Mechanical	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	6.7.2.2	Mechanical	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	6.7.2.3	Mechanical	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >5,000 ft2 of conditioned area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

HVAC	6.7.2.4	Mechanical	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	8.7.1	Interior Lighting	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	8.7.2	Interior Lighting	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Input Data Report

## Project Information

**Project Name:** OAS-BT1A

**Project Title:** Oasis at Surfside Building BT1A

**Address:** SW 21st Ave.

**State:** FL

**Zip:** 34239

**Owner:** Zimmer Development Company

**Building Type:** Multi-Family

**Building Classification:** New Finished building

**No.of Stories:** 4

**GrossArea (SF):** 75,801

**Bldg. Rotation:** None

## Zones

No	Acronym	Description	Type	Area [sf]	Multi	Total Area [sf]	
1	1UT3-S	Unit Type 3 First Floor	CONDITIONED	1376.0	1	1376.0	<input type="checkbox"/>
2	1UT2-I-S	Unit Type 2 Interior First Floor	CONDITIONED	1100.0	2	2200.0	<input type="checkbox"/>
3	1UT2.1S	Unit Type 2.1 First Floor	CONDITIONED	1131.0	1	1131.0	<input type="checkbox"/>
4	1UT2.1W	Unit Type 2.1N First Floor	CONDITIONED	1131.0	1	1131.0	<input type="checkbox"/>
5	1UT2-I-W	Unit Type 2 Interior First Floor	CONDITIONED	1100.0	2	2200.0	<input type="checkbox"/>
6	1UT1-I-S	Unit Type 2 Interior First Floor	CONDITIONED	763.0	2	1526.0	<input type="checkbox"/>
7	1UT3-E	Unit Type 3 First Floor	CONDITIONED	1376.0	1	1376.0	<input type="checkbox"/>
8	1UT3-W	Unit Type 3 End First Floor	CONDITIONED	1376.0	1	1376.0	<input type="checkbox"/>
9	1UT2.2	Unit Type 2.2 Interior First Floor	CONDITIONED	1491.0	1	1491.0	<input type="checkbox"/>
10	1UT2-I-N	Unit Type 2	CONDITIONED	1100.0	2	2200.0	<input type="checkbox"/>
11	1UT1-I-N	Unit Type 2 Interior First Floor	CONDITIONED	763.0	2	1526.0	<input type="checkbox"/>
12	1UT3-N	Unit Type 3 First Floor	CONDITIONED	1376.0	1	1376.0	<input type="checkbox"/>
13	4UT3-S	Unit Type 3 Fourth Floor	CONDITIONED	1376.0	1	1376.0	<input type="checkbox"/>
14	4UT2-I-S	Unit Type 2 Interior Fourth Floor	CONDITIONED	1100.0	2	2200.0	<input type="checkbox"/>
15	4UT2.1S	Unit Type 2.1 Fourth Floor	CONDITIONED	1131.0	1	1131.0	<input type="checkbox"/>
16	4UT2-I-W	Unit Type 2 Interior Fourth Floor	CONDITIONED	1100.0	2	2200.0	<input type="checkbox"/>
17	4UT1-I-S	Unit Type 1 Interior Fourth Floor	CONDITIONED	763.0	2	1526.0	<input type="checkbox"/>
18	4UT3-E	Unit Type 3 Fourth Floor	CONDITIONED	1376.0	1	1376.0	<input type="checkbox"/>
19	4UT3-W	Unit Type 3 End Fourth Floor	CONDITIONED	1376.0	1	1376.0	<input type="checkbox"/>
20	4UT2.1-S	Unit Type 2.1 Interior Fourth Floor	CONDITIONED	1131.0	1	1131.0	<input type="checkbox"/>
21	4UT2.2	Unit Type 2.2	CONDITIONED	1491.0	1	1491.0	<input type="checkbox"/>
22	4UT1-I-N	Unit Type 2 Interior Fourth Floor	CONDITIONED	763.0	2	1526.0	<input type="checkbox"/>
23	4UT2-I-N	Unit Type 2 End Fourth Floor	CONDITIONED	1100.0	2	2200.0	<input type="checkbox"/>
24	4UT3-N	Unit Type 3 N Fourth Floor	CONDITIONED	1376.0	2	2752.0	<input type="checkbox"/>
25	23UT3-S	Unit Type 3 Second and Third Floor	CONDITIONED	1376.0	2	2752.0	<input type="checkbox"/>
26	23UT2-I-S	Unit Type 2 Interior Second and Third Floor	CONDITIONED	1100.0	4	4400.0	<input type="checkbox"/>
27	23UT2.1S	Unit Type 2.1 Second and Third Floor	CONDITIONED	1131.0	2	2262.0	<input type="checkbox"/>
28	23UT2.1W	Unit Type 2.1 W Second and Third Floor	CONDITIONED	1131.0	2	2262.0	<input type="checkbox"/>
29	23UT2-I-W	Unit Type 2 Interior W Second and Third Floor	CONDITIONED	1100.0	4	4400.0	<input type="checkbox"/>
30	23UT1-I-S	Unit Type 2 Interior Second and Third Floor	CONDITIONED	763.0	4	3052.0	<input type="checkbox"/>

31	23UT3-E	Unit Type 3 Second and Third Floor	CONDITIONED	1376.0	2	2752.0	<input type="checkbox"/>
32	23UT3-W	Unit Type 3-W Second and Third Floor	CONDITIONED	1376.0	2	2752.0	<input type="checkbox"/>
33	23UT1-I-S	Unit Type 2 Interior Second and Third Floor	CONDITIONED	763.0	4	3052.0	<input type="checkbox"/>
34	23 UT2.2	Unit Type 2.2	CONDITIONED	1491.0	2	2982.0	<input type="checkbox"/>
35	23UT1-I-N	Unit Type 2 Interior Second and Third Floor	CONDITIONED	763.0	4	3052.0	<input type="checkbox"/>
36	23UT3-N	Unit Type 3 Second and Third Floor	CONDITIONED	1376.0	2	2752.0	<input type="checkbox"/>
37	EER	Elevator Equipment Rm	CONDITIONED	51.0	1	51.0	<input type="checkbox"/>
38	TC1	Telcom-1	CONDITIONED	27.0	2	54.0	<input type="checkbox"/>
39	TC2	Telcom-2	CONDITIONED	16.0	2	32.0	<input type="checkbox"/>



## Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Mult	Total Area [sf]	Total Vol[cf]	
<b>In Zone:</b>	<b>1UT3-S</b>									
1	UT3	Unit Type 3	Private Living Space	1376.00	1.00	9.00	1	1376.0	12384.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>1UT2-I-S</b>									
1	UT2	Unit Type 2	Private Living Space	1100.00	1.00	9.00	1	1100.0	9900.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>1UT2.1S</b>									
1	UT2.1	Unit Type 2.1	Private Living Space	1131.00	1.00	9.00	1	1131.0	10179.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>1UT2.1W</b>									
1	UT2.1	Unit Type 2.1	Private Living Space	1131.00	1.00	9.00	1	1131.0	10179.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>1UT2-I-W</b>									
1	UT2	Unit Type 2	Private Living Space	1100.00	1.00	9.00	1	1100.0	9900.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>1UT1-I-S</b>									
1	UT1	Unit Type 1	Private Living Space	763.00	1.00	9.00	1	763.0	6867.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>1UT3-E</b>									
1	UT3	Unit Type 3	Private Living Space	1376.00	1.00	9.00	1	1376.0	12384.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>1UT3-W</b>									
1	UT3	Unit Type 3	Private Living Space	1376.00	1.00	9.00	1	1376.0	12384.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>1UT2.2</b>									
1	UT2.2	Living Unit Type 2.2	Private Living Space	1491.00	1.00	9.00	1	1491.0	13419.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>1UT2-I-N</b>									
1	UT2	Unit Type 2	Private Living Space	1100.00	1.00	9.00	1	1100.0	9900.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>1UT1-I-N</b>									
1	UT1	Unit Type 1	Private Living Space	763.00	1.00	9.00	1	763.0	6867.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>1UT3-N</b>									
1	UT3	Unit Type 3	Private Living Space	1376.00	1.00	9.00	1	1376.0	12384.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>4UT3-S</b>									
1	UT3	Unit Type 3	Private Living Space	1376.00	1.00	9.00	1	1376.0	12384.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>4UT2-I-S</b>									
1	UT2	Unit Type 2	Private Living Space	1100.00	1.00	9.00	1	1100.0	9900.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>4UT2.1S</b>									
1	UT2.1	Unit Type 2.1	Private Living Space	1131.00	1.00	9.00	1	1131.0	10179.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>4UT2-I-W</b>									
1	UT2	Unit Type 2	Private Living Space	1100.00	1.00	9.00	1	1100.0	9900.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>4UT1-I-S</b>									
1	UT1	Unit Type 1	Private Living Space	763.00	1.00	9.00	1	763.0	6867.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>4UT3-E</b>									
1	UT3	Unit Type 3	Private Living Space	1376.00	1.00	9.00	1	1376.0	12384.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>4UT3-W</b>									
1	UT3	Unit Type 3	Private Living Space	1376.00	1.00	9.00	1	1376.0	12384.0	<input type="checkbox"/>
<b>In Zone:</b>	<b>4UT2.1-S</b>									
1	UT2.1	Unit Type 2.1	Private Living Space	1131.00	1.00	9.00	1	1131.0	10179.0	<input type="checkbox"/>

EnergyGauge Summit® Fla/Com-2020. Effective Date: Dec 31, 2020

Florida Building Code, Seventh Edition (2020) - Energy Conservation C402.1.1: ASHRAE Energy Cost Budget Option

<b>In Zone:</b>	<b>4UT2.2</b>											
1	UT2.2	Living Unit Type 2.2	Private Living Space	1491.00	1.00	9.00	1	1491.0	13419.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>4UT1-I-N</b>											
1	UT1	Unit Type 1	Private Living Space	763.00	1.00	9.00	1	763.0	6867.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>4UT2-I-N</b>											
1	UT2	Unit Type 2	Private Living Space	1100.00	1.00	9.00	1	1100.0	9900.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>4UT3-N</b>											
1	UT3	Unit Type 3	Private Living Space	1376.00	1.00	9.00	1	1376.0	12384.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>23UT3-S</b>											
1	UT3	Unit Type 3	Private Living Space	1376.00	1.00	9.00	1	1376.0	12384.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>23UT2-I-S</b>											
1	UT2	Unit Type 2	Private Living Space	1100.00	1.00	9.00	1	1100.0	9900.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>23UT2.1S</b>											
1	UT2.1	Unit Type 2.1	Private Living Space	1131.00	1.00	9.00	1	1131.0	10179.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>23UT2.1W</b>											
1	UT2.1	Unit Type 2.1	Private Living Space	1131.00	1.00	9.00	1	1131.0	10179.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>23UT2-I-W</b>											
1	UT2	Unit Type 2	Private Living Space	1100.00	1.00	9.00	1	1100.0	9900.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>23UT1-I-S</b>											
1	UT1	Unit Type 1	Private Living Space	763.00	1.00	9.00	1	763.0	6867.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>23UT3-E</b>											
1	UT3	Unit Type 3	Private Living Space	1376.00	1.00	9.00	1	1376.0	12384.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>23UT3-W</b>											
1	UT3	Unit Type 3	Private Living Space	1376.00	1.00	9.00	1	1376.0	12384.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>23UT1-I-S</b>											
1	UT1	Unit Type 1	Private Living Space	763.00	1.00	9.00	1	763.0	6867.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>23 UT2.2</b>											
1	UT2.2	Living Unit Type 2.2	Private Living Space	1491.00	1.00	9.00	1	1491.0	13419.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>23UT1-I-N</b>											
1	UT1	Unit Type 1	Private Living Space	763.00	1.00	9.00	1	763.0	6867.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>23UT3-N</b>											
1	UT3	Unit Type 3	Private Living Space	1376.00	1.00	9.00	1	1376.0	12384.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>EER</b>											
1	Pr0Zo40Sp1	Zo0Sp1	Electrical Mechanical Equipment Room - General	51.00	1.00	9.00	1	51.0	459.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>TC1</b>											
1	Pr0Zo41Sp1	Zo0Sp1	Electrical Mechanical Equipment Room - General	27.00	1.00	9.00	1	27.0	243.0	<input type="checkbox"/>		
<b>In Zone:</b>	<b>TC2</b>											
1	Pr0Zo41Sp1	Zo0Sp1	Electrical Mechanical Equipment Room - General	16.00	1.00	9.00	1	16.0	144.0	<input type="checkbox"/>		

## Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No. of Ctrl pts
<b>In Zone: 1UT3-S</b>							
<b>In Space: UT3</b>							
1	LED	General Lighting	7	25	175	Manual On/Off	1 <input type="checkbox"/>
<b>In Zone: 1UT2-I-S</b>							
<b>In Space: UT2</b>							
1	LED	General Lighting	7	25	175	Manual On/Off	1 <input type="checkbox"/>
<b>In Zone: 1UT2.1S</b>							
<b>In Space: UT2.1</b>							
1	Compact Fluorescent	General Lighting	8	25	200	Manual On/Off	1 <input type="checkbox"/>
<b>In Zone: 1UT2.1W</b>							
<b>In Space: UT2.1</b>							
1	Compact Fluorescent	General Lighting	8	25	200	Manual On/Off	1 <input type="checkbox"/>
<b>In Zone: 1UT2-I-W</b>							
<b>In Space: UT2</b>							
1	LED	General Lighting	7	25	175	Manual On/Off	1 <input type="checkbox"/>
<b>In Zone: 1UT1-I-S</b>							
<b>In Space: UT1</b>							
1	LED	General Lighting	7	25	175	Manual On/Off	1 <input type="checkbox"/>
<b>In Zone: 1UT3-E</b>							
<b>In Space: UT3</b>							
1	LED	General Lighting	7	25	175	Manual On/Off	1 <input type="checkbox"/>
<b>In Zone: 1UT3-W</b>							
<b>In Space: UT3</b>							
1	LED	General Lighting	7	25	175	Manual On/Off	1 <input type="checkbox"/>
<b>In Zone: 1UT2.2</b>							
<b>In Space: UT2.2</b>							
1	Compact Fluorescent	General Lighting	10	25	250	Manual On/Off	1 <input type="checkbox"/>
<b>In Zone: 1UT2-I-N</b>							
<b>In Space: UT2</b>							
1	LED	General Lighting	7	25	175	Manual On/Off	1 <input type="checkbox"/>
<b>In Zone: 1UT1-I-N</b>							
<b>In Space: UT1</b>							
1	LED	General Lighting	7	25	175	Manual On/Off	1 <input type="checkbox"/>
<b>In Zone: 1UT3-N</b>							
<b>In Space: UT3</b>							
1	LED	General Lighting	7	25	175	Manual On/Off	1 <input type="checkbox"/>
<b>In Zone: 4UT3-S</b>							
<b>In Space: UT3</b>							
1	LED	General Lighting	7	25	175	Manual On/Off	1 <input type="checkbox"/>
<b>In Zone: 4UT2-I-S</b>							
<b>In Space: UT2</b>							
1	LED	General Lighting	7	25	175	Manual On/Off	1 <input type="checkbox"/>

<b>In Zone: 4UT2.1S</b>									
<b>In Space: UT2.1</b>									
1	Compact Fluorescent	General Lighting	8	25	200	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 4UT2-I-W</b>									
<b>In Space: UT2</b>									
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 4UT1-I-S</b>									
<b>In Space: UT1</b>									
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 4UT3-E</b>									
<b>In Space: UT3</b>									
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 4UT3-W</b>									
<b>In Space: UT3</b>									
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 4UT2.1-S</b>									
<b>In Space: UT2.1</b>									
1	Compact Fluorescent	General Lighting	8	25	200	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 4UT2.2</b>									
<b>In Space: UT2.2</b>									
1	Compact Fluorescent	General Lighting	10	25	250	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 4UT1-I-N</b>									
<b>In Space: UT1</b>									
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 4UT2-I-N</b>									
<b>In Space: UT2</b>									
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 4UT3-N</b>									
<b>In Space: UT3</b>									
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 23UT3-S</b>									
<b>In Space: UT3</b>									
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 23UT2-I-S</b>									
<b>In Space: UT2</b>									
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 23UT2.1S</b>									
<b>In Space: UT2.1</b>									
1	Compact Fluorescent	General Lighting	8	25	200	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 23UT2.1W</b>									
<b>In Space: UT2.1</b>									
1	Compact Fluorescent	General Lighting	8	25	200	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 23UT2-I-W</b>									
<b>In Space: UT2</b>									
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 23UT1-I-S</b>									
<b>In Space: UT1</b>									
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>	
<b>In Zone: 23UT3-E</b>									
<b>In Space: UT3</b>									

1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>
<b>In Zone: 23UT3-W</b>								
<b>In Space: UT3</b>								
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>
<b>In Zone: 23UT1-I-S</b>								
<b>In Space: UT1</b>								
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>
<b>In Zone: 23 UT2.2</b>								
<b>In Space: UT2.2</b>								
1	Compact Fluorescent	General Lighting	10	25	250	Manual On/Off	1	<input type="checkbox"/>
<b>In Zone: 23UT1-I-N</b>								
<b>In Space: UT1</b>								
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>
<b>In Zone: 23UT3-N</b>								
<b>In Space: UT3</b>								
1	LED	General Lighting	7	25	175	Manual On/Off	1	<input type="checkbox"/>
<b>In Zone: EER</b>								
<b>In Space: Pr0Zo40Sp1</b>								
1	LED	General Lighting	2	26	52	Manual On/Off	1	<input type="checkbox"/>
<b>In Zone: TC1</b>								
<b>In Space: Pr0Zo41Sp1</b>								
1	LED	General Lighting	1	26	26	Manual On/Off	1	<input type="checkbox"/>
<b>In Zone: TC2</b>								
<b>In Space: Pr0Zo41Sp1</b>								
1	LED	General Lighting	1	26	26	Manual On/Off	1	<input type="checkbox"/>

## Walls (Walls will be rotated clockwise by building rotation value)

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Orient ation	Cond- uctance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
<b>In Zone:</b>		<b>1UT3-S</b>										
1	East Wall	Wall-Metal Frame, R-19 Insulation	35.80	9.00	1	322.2	North	0.0514	0.682	9.99	19.5	<input type="checkbox"/>
2	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.65	9.00	1	383.9	North	0.0364			27.5	<input type="checkbox"/>
3	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	5.30	9.00	1	47.7	West	0.0364			27.5	<input type="checkbox"/>
4	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.80	9.00	1	385.2	South	0.0364			27.5	<input type="checkbox"/>
5	Southeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	South East	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>1UT2-I-S</b>										
1	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	North	0.0364			27.5	<input type="checkbox"/>
2	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	South	0.0364			27.5	<input type="checkbox"/>
3	Northeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	North East	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>1UT2.1S</b>										
1	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	32.38	9.00	1	291.4	North	0.0364			27.5	<input type="checkbox"/>
2	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	3.00	9.00	1	27.0	North	0.0364			27.5	<input type="checkbox"/>
3	Pr0Zo6Wa3	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	16.00	9.00	1	144.0	North West	0.0364			27.5	<input type="checkbox"/>
4	Southwest Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	33.20	9.00	1	298.8	South West	0.0364			27.5	<input type="checkbox"/>
5	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	21.10	9.00	1	189.9	South	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>1UT2.1W</b>										
1	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	35.38	9.00	1	318.4	West	0.0364			27.5	<input type="checkbox"/>
2	Northeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	16.00	9.00	1	144.0	North East	0.0364			27.5	<input type="checkbox"/>
3	Southeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	33.20	9.00	1	298.8	South East	0.0364			27.5	<input type="checkbox"/>

4	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	21.10	9.00	1	189.9	East	0.0364				27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>1UT2-I-W</b>											
1	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	West	0.0364				27.5	<input type="checkbox"/>
2	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	East	0.0364				27.5	<input type="checkbox"/>
3	Northwest Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	North West	0.0364				27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>1UT1-I-S</b>											
1	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	South	0.0364				27.5	<input type="checkbox"/>
2	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	North	0.0364				27.5	<input type="checkbox"/>
3	Southwest Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	South West	0.0364				27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>1UT3-E</b>											
1	South Wall	Wall-Metal Frame, R-19 Insulation	35.80	9.00	1	322.2	South	0.0514	0.682	9.99		19.5	<input type="checkbox"/>
2	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.65	9.00	1	383.9	West	0.0364				27.5	<input type="checkbox"/>
3	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	5.30	9.00	1	47.7	North	0.0364				27.5	<input type="checkbox"/>
4	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.80	9.00	1	385.2	East	0.0364				27.5	<input type="checkbox"/>
5	Southwest Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	South West	0.0364				27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>1UT3-W</b>											
1	Northeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	North East	0.0364				27.5	<input type="checkbox"/>
2	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.80	9.00	1	385.2	West	0.0364				27.5	<input type="checkbox"/>
3	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	5.30	9.00	1	47.7	South	0.0364				27.5	<input type="checkbox"/>
4	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.65	9.00	1	383.9	East	0.0364				27.5	<input type="checkbox"/>
5	North Wall	Wall-Metal Frame, R-19 Insulation	35.80	9.00	1	322.2	North	0.0514	0.682	9.99		19.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>1UT2.2</b>											
1	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	North	0.0364				27.5	<input type="checkbox"/>
2	Northwest Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	14.00	9.00	1	126.0	North West	0.0364				27.5	<input type="checkbox"/>
3	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	37.00	9.00	1	333.0	West	0.0364				27.5	<input type="checkbox"/>

4	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	8.00	9.00	1	72.0	East	0.0364			27.5	<input type="checkbox"/>
5	Southeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	11.80	9.00	1	106.2	South East	0.0364			27.5	<input type="checkbox"/>
6	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	8.00	9.00	1	72.0	South	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>1UT2-I-N</b>										
1	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	North	0.0364			27.5	<input type="checkbox"/>
2	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	South	0.0364			27.5	<input type="checkbox"/>
3	Northeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	North East	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>1UT1-I-N</b>										
1	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	South	0.0364			27.5	<input type="checkbox"/>
2	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	North	0.0364			27.5	<input type="checkbox"/>
3	Southeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	South East	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>1UT3-N</b>										
1	East Wall	Wall-Metal Frame, R-19 Insulation	35.80	9.00	1	322.2	North	0.0514	0.682	9.99	19.5	<input type="checkbox"/>
2	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.65	9.00	1	383.9	North	0.0364			27.5	<input type="checkbox"/>
3	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	5.30	9.00	1	47.7	West	0.0364			27.5	<input type="checkbox"/>
4	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.80	9.00	1	385.2	South	0.0364			27.5	<input type="checkbox"/>
5	Northeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	North East	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>4UT3-S</b>										
1	East Wall	Wall-Metal Frame, R-19 Insulation	35.80	9.00	1	322.2	North	0.0514	0.682	9.99	19.5	<input type="checkbox"/>
2	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.65	9.00	1	383.9	North	0.0364			27.5	<input type="checkbox"/>
3	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	5.30	9.00	1	47.7	West	0.0364			27.5	<input type="checkbox"/>
4	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.80	9.00	1	385.2	South	0.0364			27.5	<input type="checkbox"/>
5	Northeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	North East	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>4UT2-I-S</b>										
1	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	North	0.0364			27.5	<input type="checkbox"/>



2	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	South	0.0364				27.5	<input type="checkbox"/>
3	Northeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	North East	0.0364				27.5	<input type="checkbox"/>
<b>In Zone: 4UT2.1S</b>													
1	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	32.38	9.00	1	291.4	North	0.0364				27.5	<input type="checkbox"/>
2	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	3.00	9.00	1	27.0	North	0.0364				27.5	<input type="checkbox"/>
3	Pr0Zo6Wa3	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	16.00	9.00	1	144.0	North West	0.0364				27.5	<input type="checkbox"/>
4	Southwest Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	33.20	9.00	1	298.8	South West	0.0364				27.5	<input type="checkbox"/>
5	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	21.10	9.00	1	189.9	South	0.0364				27.5	<input type="checkbox"/>
<b>In Zone: 4UT2-I-W</b>													
1	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	West	0.0364				27.5	<input type="checkbox"/>
2	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	East	0.0364				27.5	<input type="checkbox"/>
3	Southeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	South East	0.0364				27.5	<input type="checkbox"/>
<b>In Zone: 4UT1-I-S</b>													
1	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	South	0.0364				27.5	<input type="checkbox"/>
2	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	North	0.0364				27.5	<input type="checkbox"/>
3	Southwest Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	South West	0.0364				27.5	<input type="checkbox"/>
<b>In Zone: 4UT3-E</b>													
1	South Wall	Wall-Metal Frame, R-19 Insulation	35.80	9.00	1	322.2	South	0.0514	0.682	9.99		19.5	<input type="checkbox"/>
2	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.65	9.00	1	383.9	West	0.0364				27.5	<input type="checkbox"/>
3	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	5.30	9.00	1	47.7	North	0.0364				27.5	<input type="checkbox"/>
4	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.80	9.00	1	385.2	East	0.0364				27.5	<input type="checkbox"/>
5	Southwest Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	South West	0.0364				27.5	<input type="checkbox"/>
<b>In Zone: 4UT3-W</b>													
1	Northeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	North East	0.0364				27.5	<input type="checkbox"/>

2	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.80	9.00	1	385.2	West	0.0364			27.5	<input type="checkbox"/>
3	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	5.30	9.00	1	47.7	South	0.0364			27.5	<input type="checkbox"/>
4	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.65	9.00	1	383.9	East	0.0364			27.5	<input type="checkbox"/>
5	North Wall	Wall-Metal Frame, R-19 Insulation	35.80	9.00	1	322.2	North	0.0514	0.682	9.99	19.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>4UT2.1-S</b>										
1	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	32.38	9.00	1	291.4	North	0.0364			27.5	<input type="checkbox"/>
2	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	3.00	9.00	1	27.0	North	0.0364			27.5	<input type="checkbox"/>
3	Pr0Zo6Wa3	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	16.00	9.00	1	144.0	North West	0.0364			27.5	<input type="checkbox"/>
4	Southwest Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	33.20	9.00	1	298.8	South West	0.0364			27.5	<input type="checkbox"/>
5	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	21.10	9.00	1	189.9	South	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>4UT2.2</b>										
1	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	North	0.0364			27.5	<input type="checkbox"/>
2	Northwest Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	14.00	9.00	1	126.0	North West	0.0364			27.5	<input type="checkbox"/>
3	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	37.00	9.00	1	333.0	West	0.0364			27.5	<input type="checkbox"/>
4	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	8.00	9.00	1	72.0	East	0.0364			27.5	<input type="checkbox"/>
5	Southeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	11.80	9.00	1	106.2	South East	0.0364			27.5	<input type="checkbox"/>
6	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	8.00	9.00	1	72.0	South	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>4UT1-I-N</b>										
1	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	South	0.0364			27.5	<input type="checkbox"/>
2	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	North	0.0364			27.5	<input type="checkbox"/>
3	Southeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	South East	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>4UT2-I-N</b>										
1	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	North	0.0364			27.5	<input type="checkbox"/>
2	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	South	0.0364			27.5	<input type="checkbox"/>

3	Northwest Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	North West	0.0364			27.5	<input type="checkbox"/>
4	East Wall	Wall-Metal Frame, R-19 Insulation	35.80	9.00	1	322.2	East	0.0514	0.682	9.99	19.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>4UT3-N</b>										
1	East Wall	Wall-Metal Frame, R-19 Insulation	35.80	9.00	1	322.2	North	0.0514	0.682	9.99	19.5	<input type="checkbox"/>
2	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.65	9.00	1	383.9	North	0.0364			27.5	<input type="checkbox"/>
3	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	5.30	9.00	1	47.7	West	0.0364			27.5	<input type="checkbox"/>
4	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.80	9.00	1	385.2	South	0.0364			27.5	<input type="checkbox"/>
5	Northeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	North East	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>23UT3-S</b>										
1	East Wall	Wall-Metal Frame, R-19 Insulation	35.80	9.00	1	322.2	North	0.0514	0.682	9.99	19.5	<input type="checkbox"/>
2	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.65	9.00	1	383.9	North	0.0364			27.5	<input type="checkbox"/>
3	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	5.30	9.00	1	47.7	West	0.0364			27.5	<input type="checkbox"/>
4	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.80	9.00	1	385.2	South	0.0364			27.5	<input type="checkbox"/>
5	Northeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	North East	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>23UT2-I-S</b>										
1	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	North	0.0364			27.5	<input type="checkbox"/>
2	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	South	0.0364			27.5	<input type="checkbox"/>
3	Northeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	North East	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>23UT2.1S</b>										
1	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	32.38	9.00	1	291.4	North	0.0364			27.5	<input type="checkbox"/>
2	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	3.00	9.00	1	27.0	North	0.0364			27.5	<input type="checkbox"/>
3	Pr0Zo6Wa3	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	16.00	9.00	1	144.0	North West	0.0364			27.5	<input type="checkbox"/>
4	Southwest Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	33.20	9.00	1	298.8	South West	0.0364			27.5	<input type="checkbox"/>
5	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	21.10	9.00	1	189.9	South	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>23UT2.1W</b>										

1	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	32.38	9.00	1	291.4	East	0.0364			27.5	<input type="checkbox"/>
2	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	3.00	9.00	1	27.0	East	0.0364			27.5	<input type="checkbox"/>
3	Northeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	16.00	9.00	1	144.0	North East	0.0364			27.5	<input type="checkbox"/>
4	Southeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	33.20	9.00	1	298.8	South East	0.0364			27.5	<input type="checkbox"/>
5	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	21.10	9.00	1	189.9	South	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>23UT2-I-W</b>										
1	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	West	0.0364			27.5	<input type="checkbox"/>
2	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	East	0.0364			27.5	<input type="checkbox"/>
3	Southeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	South East	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>23UT1-I-S</b>										
1	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	South	0.0364			27.5	<input type="checkbox"/>
2	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	East	0.0364			27.5	<input type="checkbox"/>
3	Southeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	South East	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>23UT3-E</b>										
1	South Wall	Wall-Metal Frame, R-19 Insulation	35.80	9.00	1	322.2	South	0.0514	0.682	9.99	19.5	<input type="checkbox"/>
2	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.65	9.00	1	383.9	West	0.0364			27.5	<input type="checkbox"/>
3	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	5.30	9.00	1	47.7	North	0.0364			27.5	<input type="checkbox"/>
4	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.80	9.00	1	385.2	East	0.0364			27.5	<input type="checkbox"/>
5	Southwest Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	South West	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>23UT3-W</b>										
1	Northeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	North East	0.0364			27.5	<input type="checkbox"/>
2	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.80	9.00	1	385.2	West	0.0364			27.5	<input type="checkbox"/>
3	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	5.30	9.00	1	47.7	South	0.0364			27.5	<input type="checkbox"/>
4	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.65	9.00	1	383.9	East	0.0364			27.5	<input type="checkbox"/>

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5	North Wall	Wall-Metal Frame, R-19 Insulation	35.80	9.00	1	322.2	North	0.0514	0.682	9.99	19.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>23UT1-I-S</b>										
1	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	South	0.0364			27.5	<input type="checkbox"/>
2	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	North	0.0364			27.5	<input type="checkbox"/>
3	Southeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	South East	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>23 UT2.2</b>										
1	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	North	0.0364			27.5	<input type="checkbox"/>
2	Northwest Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	14.00	9.00	1	126.0	North West	0.0364			27.5	<input type="checkbox"/>
3	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	37.00	9.00	1	333.0	West	0.0364			27.5	<input type="checkbox"/>
4	East Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	8.00	9.00	1	72.0	East	0.0364			27.5	<input type="checkbox"/>
5	Southeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	11.80	9.00	1	106.2	South East	0.0364			27.5	<input type="checkbox"/>
6	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	8.00	9.00	1	72.0	South	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>23UT1-I-N</b>										
1	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	North	0.0364			27.5	<input type="checkbox"/>
2	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	34.00	9.00	1	306.0	South	0.0364			27.5	<input type="checkbox"/>
3	Southeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	South East	0.0364			27.5	<input type="checkbox"/>
<b>In Zone:</b>		<b>23UT3-N</b>										
1	East Wall	Wall-Metal Frame, R-19 Insulation	35.80	9.00	1	322.2	North	0.0514	0.682	9.99	19.5	<input type="checkbox"/>
2	North Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.65	9.00	1	383.9	North	0.0364			27.5	<input type="checkbox"/>
3	West Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	5.30	9.00	1	47.7	West	0.0364			27.5	<input type="checkbox"/>
4	South Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	42.80	9.00	1	385.2	South	0.0364			27.5	<input type="checkbox"/>
5	Northeast Wall	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	4.00	9.00	1	36.0	North East	0.0364			27.5	<input type="checkbox"/>

## Windows (Windows will be rotated clockwise by building rotation value)

No	Description	Orientation	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]	
<b>In Zone: 1UT1-I-N</b>											
<b>In Wall: S-W</b>											
1	Double A Type Window	South	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>
2	French Doors	South	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>
<b>In Zone: 1UT1-I-S</b>											
<b>In Wall: S-W</b>											
1	Double A Type Window	South	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>
2	French Doors	South	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>
<b>In Zone: 1UT2.1S</b>											
<b>In Wall: N-W</b>											
1	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>
3	Double A Type Window	North	Yes	0.6500	0.33	0.76	2.70	3.70	2	20.0	<input type="checkbox"/>
<b>In Wall: NW-W</b>											
1	Double A Type Window	NorthWest	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>
<b>In Zone: 1UT2.1W</b>											
<b>In Wall: NE-W</b>											
1	Double A Type Window	NorthEast	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>
<b>In Wall: W-W</b>											
1	Double A Type Window	West	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>
2	French Doors	West	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>
3	Single C Type Window	West	Yes	0.6500	0.33	0.76	3.00	5.00	1	15.0	<input type="checkbox"/>
<b>In Zone: 1UT2.2</b>											
<b>In Wall: E-W</b>											
1	Double A Type Window	East	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>
<b>In Wall: SE-W</b>											
1	French Doors	SouthEast	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>
<b>In Wall: S-W</b>											
1	Double A Type Window	South	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>
<b>In Zone: 1UT2-I-N</b>											
<b>In Wall: N-W</b>											
1	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>
<b>In Zone: 1UT2-I-S</b>											
<b>In Wall: N-W</b>											
1	Pr0Zo3Wa5Wi1	North	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>

<b>In Zone: 1UT2-I-W</b>												
<b>In Wall: W-W</b>												
1	Double A Type Window	West	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	West	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 1UT3-E</b>												
<b>In Wall: S-W</b>												
1	Single D Type Window	South	Yes	0.6500	0.33	0.76	2.33	4.96	1	11.6	<input type="checkbox"/>	
2	Double A Type Window	South	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Wall: W-W</b>												
1	Double A Window	West	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	West	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 1UT3-N</b>												
<b>In Wall: E-W</b>												
1	Single D Type Window	North	Yes	0.6500	0.33	0.76	2.33	4.96	1	11.6	<input type="checkbox"/>	
2	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Wall: N-W</b>												
1	Double A Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 1UT3-S</b>												
<b>In Wall: E-W</b>												
1	Single D Type Window	North	Yes	0.6500	0.33	0.76	2.33	4.96	1	11.6	<input type="checkbox"/>	
3	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Wall: N-W</b>												
1	Double A Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 1UT3-W</b>												
<b>In Wall: E-W</b>												
1	Double A Window	East	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	East	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Wall: N-W</b>												
1	Single D Type Window	North	Yes	0.6500	0.33	0.76	2.33	4.96	1	11.6	<input type="checkbox"/>	
2	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Zone: 23 UT2.2</b>												
<b>In Wall: E-W</b>												
1	Double A Type Window	East	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Wall: SE-W</b>												
1	French Doors	SouthEast	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Wall: S-W</b>												
1	Double A Type Window	South	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Zone: 23UT1-I-N</b>												
<b>In Wall: N-W</b>												
1	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	

<b>In Zone: 23UT1-I-S</b>												
<b>In Wall: S-W</b>												
1	Double A Type Window	South	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
2	French Doors	South	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
1	Double A Type Window	South	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
2	French Doors	South	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 23UT2.1S</b>												
<b>In Wall: N-W</b>												
1	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Wall: NW-W</b>												
1	Double A Type Window	NorthWest	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Zone: 23UT2.1W</b>												
<b>In Wall: E-W</b>												
1	Double A Type Window	East	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
2	French Doors	East	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
3	Single C Type Window	East	Yes	0.6500	0.33	0.76	3.00	5.00	1	15.0	<input type="checkbox"/>	
<b>In Wall: NE-W</b>												
1	Double A Type Window	NorthEast	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Zone: 23UT2-I-S</b>												
<b>In Wall: N-W</b>												
1	Pr0Zo3Wa5Wil	North	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 23UT2-I-W</b>												
<b>In Wall: W-W</b>												
1	Double A Type Window	West	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	West	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 23UT3-E</b>												
<b>In Wall: S-W</b>												
1	Single D Type Window	South	Yes	0.6500	0.33	0.76	2.33	4.96	1	11.6	<input type="checkbox"/>	
2	Double A Type Window	South	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Wall: W-W</b>												
1	Double A Window	West	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	West	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 23UT3-N</b>												
<b>In Wall: E-W</b>												
1	Single D Type Window	North	Yes	0.6500	0.33	0.76	2.33	4.96	1	11.6	<input type="checkbox"/>	
2	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Wall: N-W</b>												
1	Double A Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	



<b>In Zone: 23UT3-S</b>												
<b>In Wall: E-W</b>												
1	Single D Type Window	North	Yes	0.6500	0.33	0.76	2.33	4.96	1	11.6	<input type="checkbox"/>	
2	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Wall: N-W</b>												
1	Double A Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 23UT3-W</b>												
<b>In Wall: E-W</b>												
1	Double A Window	East	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	East	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Wall: N-W</b>												
1	Single D Type Window	North	Yes	0.6500	0.33	0.76	2.33	4.96	1	11.6	<input type="checkbox"/>	
2	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Zone: 4UT1-I-N</b>												
<b>In Wall: S-W</b>												
1	Double A Type Window	South	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
2	French Doors	South	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 4UT1-I-S</b>												
<b>In Wall: S-W</b>												
1	Double A Type Window	South	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
2	French Doors	South	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 4UT2.1S</b>												
<b>In Wall: N-W</b>												
1	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
3	Double A Type Window	North	Yes	0.6500	0.33	0.76	2.70	3.70	2	20.0	<input type="checkbox"/>	
<b>In Wall: NW-W</b>												
1	Double A Type Window	NorthWest	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Zone: 4UT2.1-S</b>												
<b>In Wall: N-W</b>												
1	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
3	Double A Type Window	North	Yes	0.6500	0.33	0.76	2.70	3.70	2	20.0	<input type="checkbox"/>	
<b>In Wall: NW-W</b>												
1	Double A Type Window	NorthWest	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Zone: 4UT2.2</b>												
<b>In Wall: E-W</b>												
1	Double A Type Window	East	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Wall: SE-W</b>												
1	French Doors	SouthEast	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Wall: S-W</b>												
1	Double A Type Window	South	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	

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<b>In Zone: 4UT2-I-N</b>												
<b>In Wall: E-W</b>												
1	Single D Type Window	East	Yes	0.6500	0.33	0.76	2.33	4.96	1	11.6	<input type="checkbox"/>	
2	Double A Type Window	East	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Wall: N-W</b>												
1	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
3	Double A Type Window	North	Yes	0.6500	0.33	0.76	2.70	3.70	2	20.0	<input type="checkbox"/>	
<b>In Zone: 4UT2-I-S</b>												
<b>In Wall: N-W</b>												
1	Pr0Zo3Wa5Wi1	North	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 4UT2-I-W</b>												
<b>In Wall: W-W</b>												
1	Double A Type Window	West	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
2	French Doors	West	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 4UT3-E</b>												
<b>In Wall: S-W</b>												
1	Single D Type Window	South	Yes	0.6500	0.33	0.76	2.33	4.96	1	11.6	<input type="checkbox"/>	
2	Double A Type Window	South	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Wall: W-W</b>												
1	Double A Window	West	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	West	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 4UT3-N</b>												
<b>In Wall: E-W</b>												
1	Single D Type Window	North	Yes	0.6500	0.33	0.76	2.33	4.96	1	11.6	<input type="checkbox"/>	
2	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Wall: N-W</b>												
1	Double A Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	
<b>In Zone: 4UT3-S</b>												
<b>In Wall: E-W</b>												
1	Single D Type Window	North	Yes	0.6500	0.33	0.76	2.33	4.96	1	11.6	<input type="checkbox"/>	
2	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>	
<b>In Wall: N-W</b>												
1	Double A Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>	
2	French Doors	North	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>	

**In Zone: 4UT3-W****In Wall: E-W**

1	Double A Window	East	Yes	0.6500	0.33	0.76	6.16	5.00	2	61.6	<input type="checkbox"/>
2	French Doors	East	Yes	0.6500	0.33	0.76	6.00	7.00	1	42.0	<input type="checkbox"/>

**In Wall: N-W**

1	Single D Type Window	North	Yes	0.6500	0.33	0.76	2.33	4.96	1	11.6	<input type="checkbox"/>
2	Double A Type Window	North	Yes	0.6500	0.33	0.76	6.16	5.00	1	30.8	<input type="checkbox"/>

## Doors

No	Description	Type	Shade?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/h.sf.F]	Dens. [lb/cf]	Ht Cap. [Btu/sf. F]	R [h.sf.F/ Btu]
<b>In Zone: 1UT3-S</b>											
<b>In Wall: S-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01 <input type="checkbox"/>
<b>In Zone: 1UT2-I-S</b>											
<b>In Wall: S-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01 <input type="checkbox"/>
<b>In Zone: 1UT2.1S</b>											
<b>In Wall: S-W</b>											
1	Pr0Zo6Wa5Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01 <input type="checkbox"/>
<b>In Zone: 1UT2.1W</b>											
<b>In Wall: E-W</b>											
1	Pr0Zo7Wa5Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01 <input type="checkbox"/>
<b>In Zone: 1UT2-I-W</b>											
<b>In Wall: E-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01 <input type="checkbox"/>
<b>In Zone: 1UT1-I-S</b>											
<b>In Wall: N-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01 <input type="checkbox"/>
<b>In Zone: 1UT3-E</b>											
<b>In Wall: E-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01 <input type="checkbox"/>
<b>In Zone: 1UT3-W</b>											
<b>In Wall: W-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01 <input type="checkbox"/>
<b>In Zone: 1UT2-I-N</b>											
<b>In Wall: S-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01 <input type="checkbox"/>
<b>In Zone: 1UT1-I-N</b>											
<b>In Wall: N-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01 <input type="checkbox"/>
<b>In Zone: 1UT3-N</b>											
<b>In Wall: S-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01 <input type="checkbox"/>
<b>In Zone: 4UT3-S</b>											
<b>In Wall: S-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01 <input type="checkbox"/>
<b>In Zone: 4UT2-I-S</b>											
<b>In Wall: S-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01 <input type="checkbox"/>

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<b>In Zone: 4UT2.1S</b>												
<b>In Wall: S-W</b>												
1	Pr0Zo6Wa5Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 4UT2-I-W</b>												
<b>In Wall: E-W</b>												
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 4UT1-I-S</b>												
<b>In Wall: N-W</b>												
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 4UT3-E</b>												
<b>In Wall: E-W</b>												
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 4UT3-W</b>												
<b>In Wall: W-W</b>												
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 4UT2.1-S</b>												
<b>In Wall: S-W</b>												
1	Pr0Zo6Wa5Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 4UT1-I-N</b>												
<b>In Wall: N-W</b>												
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 4UT2-I-N</b>												
<b>In Wall: S-W</b>												
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 4UT3-N</b>												
<b>In Wall: S-W</b>												
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 23UT3-S</b>												
<b>In Wall: S-W</b>												
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 23UT2-I-S</b>												
<b>In Wall: S-W</b>												
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 23UT2.1S</b>												
<b>In Wall: S-W</b>												
1	Pr0Zo6Wa5Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 23UT2.1W</b>												
<b>In Wall: W-W</b>												
1	Pr0Zo7Wa5Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 23UT2-I-W</b>												
<b>In Wall: E-W</b>												
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 23UT1-I-S</b>												
<b>In Wall: E-W</b>												
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 23UT3-E</b>												
<b>In Wall: E-W</b>												

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1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 23UT3-W</b>												
	<b>In Wall: W-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 23UT1-I-S</b>												
	<b>In Wall: N-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 23UT1-I-N</b>												
	<b>In Wall: S-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>
<b>In Zone: 23UT3-N</b>												
	<b>In Wall: S-W</b>											
1	Pr0Zo3Wa8Dr1	Door, Polystyrene core (18 ga steel) 1	No	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	<input type="checkbox"/>

## Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/h.Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
<b>In Zone: 4UT3-S</b>												
1	Pr0Zo3Rf1	Roof, Built up roofing w/ R-19 insulation	1.00	1376.00	1	1376.0	0.00	0.0517	0.79	5.19	19.3	<input type="checkbox"/>
<b>In Zone: 4UT2-I-S</b>												
1	Pr0Zo3Rf1	Roof, Built up roofing w/ R-19 insulation	1.00	1100.00	1	1100.0	0.00	0.0517	0.79	5.19	19.3	<input type="checkbox"/>
<b>In Zone: 4UT2.1S</b>												
1	Pr0Zo6Rf1	Ceiling, Partition R-19	1.00	1131.00	1	1131.0	0.00	0.0296	11.51	25.48	33.8	<input type="checkbox"/>
<b>In Zone: 4UT2-I-W</b>												
1	Pr0Zo3Rf1	Roof, Built up roofing w/ R-19 insulation	1.00	1100.00	1	1100.0	0.00	0.0517	0.79	5.19	19.3	<input type="checkbox"/>
<b>In Zone: 4UT1-I-S</b>												
1	Pr0Zo3Rf1	Roof, Built up roofing w/ R-19 insulation	1.00	763.00	1	763.0	0.00	0.0517	0.79	5.19	19.3	<input type="checkbox"/>
<b>In Zone: 4UT3-E</b>												
1	Pr0Zo3Rf1	Roof, Built up roofing w/ R-19 insulation	1.00	1376.00	1	1376.0	0.00	0.0517	0.79	5.19	19.3	<input type="checkbox"/>
<b>In Zone: 4UT3-W</b>												
1	Pr0Zo3Rf1	Roof, Built up roofing w/ R-19 insulation	1.00	1376.00	1	1376.0	0.00	0.0517	0.79	5.19	19.3	<input type="checkbox"/>
<b>In Zone: 4UT2.1-S</b>												
1	Pr0Zo3Rf1	Roof, Built up roofing w/ R-19 insulation	1.00	1131.00	1	1131.0	0.00	0.0517	0.79	5.19	19.3	<input type="checkbox"/>
<b>In Zone: 4UT2.2</b>												
1	Pr0Zo13Rf1	Roof, Built up roofing w/ R-19 insulation	1.00	1491.00	1	1491.0	0.00	0.0517	0.79	5.19	19.3	<input type="checkbox"/>
<b>In Zone: 4UT1-I-N</b>												
1	Pr0Zo3Rf1	Roof, Built up roofing w/ R-19 insulation	1.00	763.00	1	763.0	0.00	0.0517	0.79	5.19	19.3	<input type="checkbox"/>
<b>In Zone: 4UT2-I-N</b>												
1	Pr0Zo3Rf1	Roof, Built up roofing w/ R-19 insulation	1.00	1100.00	1	1100.0	0.00	0.0517	0.79	5.19	19.3	<input type="checkbox"/>
<b>In Zone: 4UT3-N</b>												
1	Pr0Zo6Rf1	Ceiling, Partition R-19	1.00	1376.00	1	1376.0	0.00	0.0296	11.51	25.48	33.8	<input type="checkbox"/>
<b>In Zone: EER</b>												
1	Pr0Zo40Rf1	Roof, Built up roofing w/ R-19 insulation	1.00	51.00	1	51.0	0.00	0.0517	0.79	5.19	19.3	<input type="checkbox"/>

## Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multi- plier	Area [Sf]	Total Area [Sf]
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In Zone:

In Roof:





## Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/h.sf.F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
<b>In Zone: 1UT3-S</b>											
1	Pr0Zo3F11	Floor, 1 ft. soil, concrete floor, any floor covering	1.00	1376.00	1	1376.0	0.4000	34.00	113.33	2.50	<input type="checkbox"/>
<b>In Zone: 1UT2-I-S</b>											
1	Pr0Zo3F11	Floor, 1 ft. soil, concrete floor, any floor covering	1.00	1100.00	1	1100.0	0.4000	34.00	113.33	2.50	<input type="checkbox"/>
<b>In Zone: 1UT2.1S</b>											
1	Pr0Zo6F11	Floor, 1 ft. soil, concrete floor, any floor covering	1.00	1131.00	1	1131.0	0.4000	34.00	113.33	2.50	<input type="checkbox"/>
<b>In Zone: 1UT2.1W</b>											
1	Pr0Zo6F11	Floor, 1 ft. soil, concrete floor, any floor covering	1.00	1131.00	1	1131.0	0.4000	34.00	113.33	2.50	<input type="checkbox"/>
<b>In Zone: 1UT2-I-W</b>											
1	Pr0Zo3F11	Floor, 1 ft. soil, concrete floor, any floor covering	1.00	1100.00	1	1100.0	0.4000	34.00	113.33	2.50	<input type="checkbox"/>
<b>In Zone: 1UT1-I-S</b>											
1	Pr0Zo3F11	Floor, 1 ft. soil, concrete floor, any floor covering	1.00	763.00	1	763.0	0.4000	34.00	113.33	2.50	<input type="checkbox"/>
<b>In Zone: 1UT3-E</b>											
1	Pr0Zo3F11	Floor, 1 ft. soil, concrete floor, any floor covering	1.00	1376.00	1	1376.0	0.4000	34.00	113.33	2.50	<input type="checkbox"/>
<b>In Zone: 1UT3-W</b>											
1	Pr0Zo3F11	Floor, 1 ft. soil, concrete floor, any floor covering	1.00	1376.00	1	1376.0	0.4000	34.00	113.33	2.50	<input type="checkbox"/>
<b>In Zone: 1UT2.2</b>											
1	Pr0Zo3F11	Floor, 1 ft. soil, concrete floor, any floor covering	1.00	1491.00	1	1491.0	0.4000	34.00	113.33	2.50	<input type="checkbox"/>
<b>In Zone: 1UT2-I-N</b>											
1	Pr0Zo3F11	Floor, 1 ft. soil, concrete floor, any floor covering	1.00	1100.00	1	1100.0	0.4000	34.00	113.33	2.50	<input type="checkbox"/>
<b>In Zone: 1UT1-I-N</b>											
1	Pr0Zo3F11	Floor, 1 ft. soil, concrete floor, any floor covering	1.00	763.00	1	763.0	0.4000	34.00	113.33	2.50	<input type="checkbox"/>
<b>In Zone: 1UT3-N</b>											
1	Pr0Zo3F11	Floor, 1 ft. soil, concrete floor, any floor covering	1.00	1376.00	1	1376.0	0.4000	34.00	113.33	2.50	<input type="checkbox"/>
<b>In Zone: TC1</b>											
1	Pr0Zo41F11	Floor, 1 ft. soil, concrete floor, any floor covering	1.00	27.00	1	27.0	0.4000	34.00	113.33	2.50	<input type="checkbox"/>

<b>In Zone: TC2</b>											
1	Pr0Zo43F11	Floor, 1 ft. soil, concrete floor, any floor covering	1.00	16.00	1	16.0	0.4000	34.00	113.33	2.50	<input type="checkbox"/>

# Systems

<b>AHU1</b>	<b>AHU 1</b>	<b>Constant Volume Air Cooled Split System &lt; 65000 Btu/hr</b>	<b>No. Of Units 24</b>
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Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	17200.00	14.00	8.00	<input type="checkbox"/>
2	Heating System	17200.00	8.50		<input type="checkbox"/>
3	Air Handling System -Supply	600.00	0.50		<input type="checkbox"/>
4	Air Distribution System (Sup)		6.00		<input type="checkbox"/>
5	Air Distribution System (Ret)		6.00		<input type="checkbox"/>

<b>AHU2</b>	<b>AHU 2</b>	<b>Constant Volume Air Cooled Split System &lt; 65000 Btu/hr</b>	<b>No. Of Units 24</b>
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Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	17200.00	14.00	8.00	<input type="checkbox"/>
2	Heating System	17200.00	8.50		<input type="checkbox"/>
3	Air Handling System -Supply	600.00	0.50		<input type="checkbox"/>
4	Air Distribution System (Sup)		6.00		<input type="checkbox"/>
5	Air Distribution System (Ret)		6.00		<input type="checkbox"/>

<b>AHU3</b>	<b>AHU 3</b>	<b>Constant Volume Air Cooled Split System &lt; 65000 Btu/hr</b>	<b>No. Of Units 20</b>
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Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	22800.00	14.00	8.00	<input type="checkbox"/>
2	Heating System	23200.00	8.50		<input type="checkbox"/>
3	Air Handling System -Supply	800.00	0.50		<input type="checkbox"/>
4	Air Distribution System (Sup)		6.00		<input type="checkbox"/>
5	Air Distribution System (Ret)		6.00		<input type="checkbox"/>

<b>AH-10</b>	<b>AH-10</b>	<b>Variable refrigerant Flow System</b>	<b>No. Of Units 1</b>
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Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	24000.00	17.00	8.00	<input type="checkbox"/>
2	Heating System	26000.00	3.00		<input type="checkbox"/>
3	Air Handling System -Supply	775.00	0.40		<input type="checkbox"/>

<b>AH11</b>	<b>AH-11</b>	<b>Constant Volume Air Cooled Split System &lt; 65000 Btu/hr</b>	<b>No. Of Units 4</b>
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Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	9000.00	16.00	8.00	<input type="checkbox"/>
2	Heating System	10000.00	1.00		<input type="checkbox"/>
3	Air Handling System -Supply	300.00	0.40		<input type="checkbox"/>

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Plant				
Equipment	Category	Size	Inst.No&Eff.	IPLV

Water Heaters					
W-Heater Description	Capacity	Cap.Unit	I/P Rt.	Efficiency	Loss
1 Electric Storage water heater	38 [Gal]		5 [kW]	0.9200 [Ef]	[Btu/h] <input type="checkbox"/>

Ext-Lighting						
Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No [sf/ft/No]	Control Type	Wattage [W]
1 Ext Light 1	Other (doors) than main entries	64	15	192.00	Photo Sensor contr	##### <input type="checkbox"/>

Piping						
No	Type	Operating Temp [F]	Insulation Conductivity [ Btu-in/h.sf.F]	Nominal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?
1	Domestic and Service Hot Water Systems	110.00	0.28	0.50	1.00	No <input type="checkbox"/>

## Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT
Double Pane Glass	User Defined	2	0.6500	0.3300	0.7600

## Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thick [ft]	Cond-uctivity [Btu/h.ft.F]	Density [lb/cf]	Sp. Heat [Btu/lb.F]	<input type="checkbox"/>
264	Matl264	ALUMINUM, 1/16 IN	No	0.0002	0.0050	26.0000	480.00	0.1000	<input type="checkbox"/>
187	Matl187	GYP OR PLAS BOARD,1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	<input type="checkbox"/>
265	Matl265	Soil, 1 ft	No	2.0000	1.0000	0.5000	100.00	0.2000	<input type="checkbox"/>
48	Matl48	6 in. Heavyweight concrete	No	0.5000	0.5000	1.0000	140.00	0.2000	<input type="checkbox"/>
284	Matl284	Polystyrene core (18 ga steel) 1	Yes	2.0071					<input type="checkbox"/>
94	Matl94	BUILT-UP ROOFING, 3/8IN	No	0.3366	0.0313	0.0930	70.00	0.3500	<input type="checkbox"/>
407	Matl407	R-19 Generic Insulation	No	19.0000	0.4147	0.0218	0.30	0.2000	<input type="checkbox"/>
245	Matl245	PLYWOOD, 5/8IN	No	9.4697	0.6250	0.0660	34.00	0.2900	<input type="checkbox"/>
1002	ApLbMat1002	BUILDING WRAP	Yes	0.0600					<input type="checkbox"/>
1022	ApLbMat1022	Fiber Cement Siding	Yes	0.5000					<input type="checkbox"/>
1023	ApLbMat1023	R-20 Generic Insulation	No	19.0229	0.4147	0.0218	0.30	0.2000	<input type="checkbox"/>
1024	ApLbMat1024	4 in. Wood	No	4.7571	0.3330	0.0700	37.00	0.3900	<input type="checkbox"/>
1025	ApLbMat1025	2x6 Wood	No	6.5429	0.4580	0.0700	37.00	0.3900	<input type="checkbox"/>
1026	ApLbMat1026	GYP OR PLAS BOARD,5/8IN	No	0.5663	0.0521	0.0920	50.00	0.2000	<input type="checkbox"/>

## Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	<input type="checkbox"/>
1003	Ceiling, Partition R-19	No	No	0.03	11.51	25.48	33.8	<input type="checkbox"/>
	<b>Layer</b>	<b>Material No.</b>	<b>Material</b>	<b>Thickness [ft]</b>		<b>Framing Factor</b>		<input type="checkbox"/>
	1	245	PLYWOOD, 5/8IN	0.6250		0.000		<input type="checkbox"/>
	2	407	R-19 Generic Insulation	0.4147		0.000		<input type="checkbox"/>
	3	1024	4 in. Wood	0.3330		0.000		<input type="checkbox"/>
	4	1026	GYP OR PLAS BOARD,5/8IN	0.0521		0.000		<input type="checkbox"/>
No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	<input type="checkbox"/>
1005	Floor, 1 ft. soil, concrete floor, any floor covering	No	No	0.40	34.00	113.33	2.5	<input type="checkbox"/>
	<b>Layer</b>	<b>Material No.</b>	<b>Material</b>	<b>Thickness [ft]</b>		<b>Framing Factor</b>		<input type="checkbox"/>
	1	265	Soil, 1 ft	1.0000		0.000		<input type="checkbox"/>
	2	48	6 in. Heavyweight concrete	0.5000		0.000		<input type="checkbox"/>
No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	<input type="checkbox"/>
1033	Door, Polystyrene core (18 ga steel) 1	No	Yes	0.50			2.0	<input type="checkbox"/>
	<b>Layer</b>	<b>Material No.</b>	<b>Material</b>	<b>Thickness [ft]</b>		<b>Framing Factor</b>		<input type="checkbox"/>
	1	284	Polystyrene core (18 ga steel) 1			0.000		<input type="checkbox"/>
No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	<input type="checkbox"/>
1076	Wall-Metal Frame, R-19 Insulation	No	No	0.05	0.68	9.99	19.5	<input type="checkbox"/>
	<b>Layer</b>	<b>Material No.</b>	<b>Material</b>	<b>Thickness [ft]</b>		<b>Framing Factor</b>		<input type="checkbox"/>
	1	264	ALUMINUM, 1/16 IN	0.0050		0.000		<input type="checkbox"/>
	2	407	R-19 Generic Insulation	0.4147		0.000		<input type="checkbox"/>
	3	187	GYP OR PLAS BOARD,1/2IN	0.0417		0.000		<input type="checkbox"/>

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1084	Roof, Built up roofing w/ R-19 insulation	No	No	0.05	0.79	5.19	19.3	<input type="checkbox"/>
	<b>Layer</b>	<b>Material No.</b>	<b>Material</b>	<b>Thickness [ft]</b>		<b>Framing Factor</b>		
	1	94	BUILT-UP ROOFING, 3/8IN	0.0313		0.000		<input type="checkbox"/>
	2	407	R-19 Generic Insulation	0.4147		0.000		<input type="checkbox"/>
No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1096	Wall-Exterior, Frame R-20 insulation, Fiber Cement Siding	No	Yes	0.04			27.5	<input type="checkbox"/>
	<b>Layer</b>	<b>Material No.</b>	<b>Material</b>	<b>Thickness [ft]</b>		<b>Framing Factor</b>		
	1	1022	Fiber Cement Siding			0.000		<input type="checkbox"/>
	2	1002	BUILDING WRAP			0.000		<input type="checkbox"/>
	3	245	PLYWOOD, 5/8IN	0.0521		0.000		<input type="checkbox"/>
	4	1023	R-20 Generic Insulation	0.4147		0.000		<input type="checkbox"/>
	5	1025	2x6 Wood	0.4580		0.000		<input type="checkbox"/>
	6	1026	GYP OR PLAS BOARD,5/8IN	0.0521		0.000		<input type="checkbox"/>