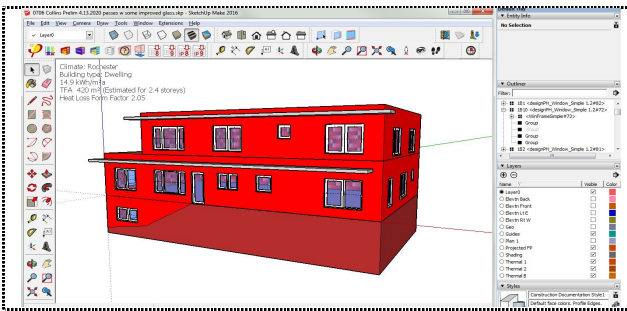


Passive House Verification



Architecture: Robin Hargrave
 Street: _____
 Postcode/City: _____ Lima
 Province/Country: NY US-United States of America

Energy consultancy: Airtight Services: Bill LaBine
 Street: 290 Genesee St
 Postcode/City: 14414 Avon
 Province/Country: NY US-United States of America

Year of construction: 2021
 No. of dwelling units: 1
 No. of occupants: 3.3

Building: Collins Passive House
 Street: 7110 Woodruff Rd
 Postcode/City: 14485 Lima
 Province/Country: NY US-United States of America
 Building type: Single Family Residence
 Climate data set: US0056b-Rochester
 Climate zone: 3: Cool-temperate Altitude of location: 960 ft

Home owner / Client: _____
 Street: _____
 Postcode/City: _____
 Province/Country: _____

Mechanical engineer: started with Bettencourt model, added dPH
 Street: _____
 Postcode/City: _____
 Province/Country: _____

Certification: _____
 Street: _____
 Postcode/City: _____
 Province/Country: _____

Interior temperature winter [°F]: 68.0 Interior temp. summer [°F]: 77.0
 Internal heat gains (IHG) heating case [BTU/(hr.ft²)]: 0.71 IHG cooling case [BTU/(hr.ft²)]: 0.71
 Specific capacity [BTU/F per ft² TFA]: 14.8 Mechanical cooling: _____

Calculation electricity / Internal heat gains
 Building type: 1-Residential building

Internal heat gains
 Utilisation pattern: 10-Dwelling
 Values: 2-Standard

Occupancy
 3 1-Standard (only for residential buildings)

Specific building characteristics with reference to the treated floor area

	Treated floor area ft²		Criteria	Alternative criteria	Fullfilled?²
Space heating	Heating demand kBTU/(ft²yr)	4.84	≤	4.75	yes
	Heating load BTU/(hr.ft²)	3.65	≤	- 3.17	
Space cooling	Cooling & dehum. demand kBTU/(ft²yr)	0.88	≤	5.07	yes
	Cooling load BTU/(hr.ft²)	2.67	≤	- 3.21	
	Frequency of overheating (> 77 °F) %	-	≤	-	
	Frequency of excessively high humidity (> 0.012 lb/lb) %	6.1	≤	10	yes
Airtightness	Pressurization test result n ₅₀ 1/hr	0.5	≤	0.6	yes
Non-renewable Primary Energy (PE)	PE demand kBTU/(ft²yr)	17.10	≤	-	-
	PER demand kBTU/(ft²yr)	7.89	≤	19	yes
Primary Energy Renewable (PER)	Generation of renewable energy (in relation to projected building footprint area) kBTU/(ft²yr)	0.00	≥	-	

² Empty field: Data missing; '-': No requirement

1-PE-factors (non-renewable) PHI Certification
 (Selected primary energy factors for calculation of PE d

I confirm that the values given herein have been determined following the PHPP methodology and based on the characteristic values of the building. The PHPP calculations are attached to this verification.

Task: 1-Designer First name: Bill Surname: LaBine
 Issued on: _____ City: Avon, NY

Passive House Classic? yes
 Signature: _____

Building energy standard
 1-Passive House

Class
 1-Classic

Verification of primary energy
 2-PER (renewable)