Passive House Verification

Photo or Drawing

Building:	330 Van Brunt
Location and Climate:	Brooklyn, NY — New York City NY*
Street Address:	330 Van Brunt Street
City, State, Zip:	Brooklyn, NY
Country:	USA
Building Type:	
Home Owner(s) / Client(s):	Willam Matelski
Street Address:	330 Van Brunt Street
City, State, Zip:	Brooklyn, NY
Architect:	Ryan Enschede Studio
Street:	375 Lincoln Place, 4C
City, State, Zip:	Brooklyn, NY
Mechanical System:	ZeroEnergy Design
Street Address:	156 Milk Street, Suite 3
City, State, Zip:	Boston, MA

Year of Construction:	2012			
Number of Dwelling Units:	1	Interior Temperature:	68.0	°F
Gross Enclosed Volume V_e:	16966	ft^3	Internal Heat Gains:	0.6	BTU/hr.ft^2
Number of Occupants:	4.0			

Energy Demands with Reference to the Treated Floor Area

Treated Floor Area: 1811 ft^2

	Applied:	Monthly Method		PH Certificate:	Fulfilled?
Specific Space Heat Demand:	**7.29**	**kBTU/(ft²yr)**	**4.75**	**kBTU/(ft²yr)**	**No**
Pressurization Test Result:	**0.96**	**ACH_{50}**	0.6	ACH_{50}	**No**
Specific Primary Energy Demand (DHW, Heating, Cooling, Auxiliary and Household Electricity):	**29.1**	**kBTU/(ft²yr)**	38.0	kBTU/(ft²yr)	**Yes**
Specific Primary Energy Demand (DHW, Heating and Auxiliary Electricity):	**21.0**	**kBTU/(ft²yr)**			
Specific Primary Energy Demand Energy Conservation by Solar Electricity:		**kBTU/(ft²yr)**			
Heating Load:	**4.90**	**BTU/(ft^2hr)**			
Frequency of Overheating:		**%**	over 77.0	°F	
Specific Useful Cooling Energy Demand:	**0.69**	**kBTU/(ft²yr)**	4.75	kBTU/(ft²yr)	**Yes**
Cooling Load:	**2.82**	**BTU/(ft^2hr)**			

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

Issued on:

signed: