Passive House Verification

Building:	Building Nx
Street:	205 Humber College Boulevard
Postcode/City:	M9W 5L7 Toronto
Province/Country:	Ontario CA-Canada
Building type:	Educational/Office
Climate data set:	CA0001b-Toronto
Climate zone:	3: Cool-temperate Altitude of location: 170 m
Home owner / Client:	Humber College
Street:	205 Humber College Boulevard
Postcode/City:	M9W 5L7 Toronto
Province/Country:	Ontario CA-Canada

Architecture:	B+H Architects
Street:	300 - 481 University Ave
Postcode/City:	M5G 2H4 Toronto
Province/Country:	Ontario CA-Canada
Energy consultancy:	Morrison Hershfield
Street:	300 - 125 Commerce Valley Drive W
Postcode/City:	L3T 7W4 Markham
Province/Country:	Ontario CA-Canada

Mechanical engineer:	Morrison Hershfield
Street:	300 - 125 Commerce Valley Drive W
Postcode/City:	L3T 7W4 Markham
Province/Country:	Ontario CA-Canada
Certification:	Passive House Institute
Street:	Rheinstr 44/46
Postcode/City:	64283 Darmstadt
Province/Country:	Hesse Germany

Year of construction:	2018	Interior temperature winter [°C]:	20.0	Interior temp. summer [°C]:	25.0
No. of dwelling units:	1	Internal heat gains (IHG) heating case [W/m²]:	3.5	IHG cooling case [W/m²]:	3.5
No. of occupants:	200.0	Specific capacity [Wh/K per m² TFA]:	204	Mechanical cooling:	x

Specific building characteristics with reference to the treated floor area

					Criteria	Alternative criteria	Fullfilled?[2]
	Treated floor area	m²	3247.0				
Space heating	Heating demand	kWh/(m²a)	15	≤	15	-	yes
	Heating load	W/m²	8	≤	-	10	
Space cooling	Cooling & dehum. demand	kWh/(m²a)	0	≤	15	15	yes
	Cooling load	W/m²	3	≤	-	11	
	Frequency of overheating (> 25 °C)	%	-	≤	-		-
	Frequency of excessively high humidity (> 12 g/kg)	%	1	≤	10		yes
Airtightness	Pressurization test result n_{50}	1/h	0.5	≤	0.6		yes
Non-renewable Primary Energy (PE)	PE demand	kWh/(m²a)	131	≤	-		-
Primary Energy Renewable (PER)	PER demand	kWh/(m²a)	61	≤	60	61	yes
	Generation of renewable energy (in relation to projected building footprint area)	kWh/(m²a)	26	≥	-	3	

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

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.

Passive House Classic? yes

Task:	First name:	Surname:	Signature:

Issued on:		City: