

Passive House Verification

| | | | |
|---|-------|--|----------------------------|
| Photo or Drawing | | Building: 706 E57 AVE | |
| | | Street: 706 E57 AVE | |
| | | Postcode/City: VANOUVER E | |
| | | Province/Country: CANADA | CA-Canada |
| | | Building type: APARTMENT BLOCK | |
| | | Climate data set: CA0003b-Vancouver | |
| | | Climate zone: 4: Warm-temperate | Altitude of location: 63 m |
| | | Home owner / Client: Archstone Projects Ltd. | |
| | | Street: | |
| | | Postcode/City: | |
| | | Province/Country: | |
| Architecture: Cornerstone Architecture | | Mechanical system: Smith + Andersen Falcon Engineering Ltd. | |
| Street: | | Street: | |
| Postcode/City: | | Postcode/City: | |
| Province/Country: | | Province/Country: | |
| Energy consultancy: | | Certification: Passive House Academy | |
| Street: | | Street: | |
| Postcode/City: | | Postcode/City: | |
| Province/Country: | | Province/Country: | |
| Year of construction: | 2016 | Interior temperature winter [°C]: | 20.0 |
| No. of dwelling units: | 95 | Interior temp. summer [°C]: | 25.0 |
| No. of occupants: | 149.2 | Internal heat gains (IHG) heating case [W/m ²]: | 3.0 |
| | | Specific capacity [Wh/K per m ² TFA]: | 132 |
| | | IHG cooling case [W/m ²]: | 3.0 |
| | | Mechanical cooling: | |

| Specific building characteristics with reference to the treated floor area | | | | Alternative criteria | | Fullfilled? ² |
|--|---|--------|---|----------------------|----------------------|--------------------------|
| | | | | Criteria | Alternative criteria | |
| Space heating | Treated floor area m ² | 5346.4 | | 15 | - | yes |
| | Heating demand kWh/(m ² a) | 7.04 | ≤ | - | 10 | |
| | Heating load W/m ² | 6.65 | ≤ | - | - | |
| Space cooling | Cooling & dehum. demand kWh/(m ² a) | - | ≤ | - | - | - |
| | Cooling load W/m ² | - | ≤ | - | - | - |
| | Frequency of overheating (> 25 °C) % | 0 | ≤ | 10 | - | yes |
| | Frequency excessively high humidity (> 12 g/kg) % | 0 | ≤ | 20 | - | yes |
| Airtightness | Pressurization test result n ₅₀ 1/h | 0.6 | ≤ | 0.6 | - | yes |
| Non-renewable Primary Energy (PE) | PE demand kWh/(m ² a) | 112 | ≤ | 120 | - | yes |
| Primary Energy Renewable (PER) | PER demand kWh/(m ² a) | 72 | ≤ | - | - | - |
| | Generation of renewable energy (in relation to projected building) kWh/(m ² a) | 0 | ≥ | - | - | - |

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.

Task: PHA First name: Surname: Passive House Classic? **yes**

Issued on: City: Signature: