Passive House Verification

Building: Little Mountain Co-housing
Street: 5007 Quebec street
Postcode/City: V5W 2N3, Vancouver
Province/Country: BC, Canada

Building type: Residential
Climate date set: CA0003d-Vancouver
Climate zone: 3: Cool-temperate
Altitude of location: 77 m

Home owner / Client:
Street: Little Mountain Co-housing
Postcode/City: 5007 Quebec street, Vancouver
Province/Country: BC, Canada

Energy consultancy: Cornerstone Architecture
Street: 408-611 Alexander Street
Postcode/City: V6A 1E1, Vancouver
Province/Country: BC, Canada

Year of construction: 2017
No. of dwelling units: 30
No. of occupants: 55.3

Interior temperature winter [°C]: 20.0
Interior temp. summer [°C]: 25.0
Internal heat gains (IHG) heating case [W/m²]: 2.8
IHG cooling case [W/m²]: 2.9
Specific capacity [Wh/K per m² TFA]: 60
Mechanical cooling: yes

Specific building characteristics with reference to the treated floor area

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Alternative criteria</th>
<th>Treated floor area m²</th>
<th>Fulfillment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Space heating Heating demand kWh/(m²a)</td>
<td>11</td>
<td>≤ 15</td>
<td>yes</td>
</tr>
<tr>
<td>Heating load W/m²</td>
<td>-</td>
<td>≤</td>
<td></td>
</tr>
<tr>
<td>Space cooling Cooling &amp; dehum. demand kWh/(m²a)</td>
<td>-</td>
<td>≤</td>
<td></td>
</tr>
<tr>
<td>Cooling load W/m²</td>
<td>-</td>
<td>≤</td>
<td></td>
</tr>
<tr>
<td>Frequency of overheating (&gt; 25 °C) %</td>
<td>1</td>
<td>≤ 10</td>
<td></td>
</tr>
<tr>
<td>Frequency of excessively high humidity (&gt; 12 g/kg) %</td>
<td>0</td>
<td>≤ 20</td>
<td>yes</td>
</tr>
<tr>
<td>Airtightness Pressurization test result n₅₀ 1/h</td>
<td>0.6</td>
<td>≤ 0.6</td>
<td>yes</td>
</tr>
<tr>
<td>Non-renewable Primary Energy (PE) PE demand kWh/(m²a)</td>
<td>98</td>
<td>≤ 120</td>
<td>yes</td>
</tr>
<tr>
<td>Primary Energy Renewable (PER) Generation of renewable energy kWh/(m²a)</td>
<td>51</td>
<td>≤</td>
<td></td>
</tr>
<tr>
<td>Renewal footprints area)</td>
<td>0</td>
<td>≥</td>
<td></td>
</tr>
</tbody>
</table>

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: Nourhan
First name: Al Kurdi
Surname: Issued on: City:

Project data imported from designPH 1.1.55 PRO9
PHPP display code: 176932879_280915_CAWCA_en09