### Passive House Verification

**Building:** 706 E57 AVE  
**Street:** 706 E57 AVE  
**Postcode/City:** VANCOUVER BC  
**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.  
**Building type:** APARTMENT BLOCK  
**Architect:** Cornerstone Architecture  
**Mechanical system:** Smith + Andersen Falcon Engineering Ltd.  
**Energy consultancy:** Archstone Projects Ltd.  
**Certification:** Passive House Academy  
**Year of construction:** 2016  
**No. of dwelling units:** 95  
**No. of occupants:** 149.2  
**Interior temperature winter [°C]:** 20.0  
**Interior temp. summer [°C]:** 25.0  
**Internal heat gains (IHG) heating case [W/m²]:** 3.0  
**IHG cooling case [W/m²]:** 3.0  
**Specific capacity [Wh/K per m² TFA]:** 132  
**Mechanical cooling:** yes  

### Specific building characteristics with reference to the treated floor area

<table>
<thead>
<tr>
<th>Space heating</th>
<th>Treated floor area m²</th>
<th>5346.4</th>
<th>Criteria</th>
<th>Alternative criteria</th>
<th>Fullfilled?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating demand kWh/(m²a)</td>
<td>7.04</td>
<td>≤ 15</td>
<td>-</td>
<td>-</td>
<td>yes</td>
</tr>
<tr>
<td>Heating load W/m²</td>
<td>6.65</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Space cooling</th>
<th>Criteria</th>
<th>Alternative criteria</th>
<th>Fullfilled?</th>
</tr>
</thead>
<tbody>
<tr>
<td>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>0</td>
<td>≤ 10</td>
<td>yes</td>
</tr>
<tr>
<td>Frequency excessively high humidity (&gt; 12 g/kg) %</td>
<td>0</td>
<td>≤ 20</td>
<td>yes</td>
</tr>
<tr>
<td>Airtightness</td>
<td>Pressure test result n50 1/h</td>
<td>0.6</td>
<td>≤ 0.6</td>
</tr>
</tbody>
</table>

| Non-renewable Primary Energy (PE) | PE demand kWh/(m²a) | 112 | ≤ 120 | yes |

| Primary Energy | Generation of renewable energy kWh/(m²a) | 0 | ≥ | - |

- Empty field: Data missing; -: No requirement

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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:**  
**Issued on:**  
**City:**  

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Passive House Classic? yes  
Signature:  

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PHPP, Verification  
706 E57 PHPP V9 modified.xlsx