

Pieve di Soligo, Italy, 07.05.2020

To the k. a. of Gnome Design SRL Dakó nr. 2/A - 520014 Sfântu Gheorghe, ROMANIA

subject

Gnome Offices, Oltului nr. 3 - 520027 Sfântu Gheorghe, ROMANIA PRE-CERTIFICATION statement and confirmation

Dear Sir, dear Madam,

We were appointed the certification of the above-mentioned building. Our review activity was carried out on the documentation provided to us by V&V Projekt SRL - PhD. eng. Szabolcs Varga. In particular:

- Architecture files: plans, elevations, sections, windows and doors details, nearby buildings;
- Thermal bridge calculation report;
- PHPP calculation;
- HVAC planning files;
- Tech specs for insulation materials, windows and HRV units.

Based on the review of the provided documentation, we hereby confirm that **the abovementioned building will reach the Passive House standard** as defined by the Passive House Institute with the criteria listed in the document "Criteria for the Passive House, EnerPHit and PHI Low Energy Building Standard, version 9f, revised 15.08.2016", **if - and only if - the building will be realized in strict adherence to the PHPP calculation and to all info contained in the above mentioned documentation** (as an example, but not limited to: design parameters, materials, components, insulation thickness, connections), the building will reach the Passive House Standard. Please note that changes in the current design parameters may result in significant changes of the PHPP calculation results, possibly leading to the impossibility to certificate the building. This is not a building certification but a confirmation that the energy design matches Passive House standard requirements.



Marco Filippi Certifier of passive buildings accredited by the International Institute of Darmstadt, Germany



Attachment: pdf print of the PHPP Verification sheet

PIAZZETTA SAN MARCO 7/8 31053 PIEVE DI SOLIGO (TV) +39 0438 981600 VIA DEI DA PRATA 14 31100 TREVISO +39 0422 303480 per info: WWW.EPPLUS.IT INF0@EPPLUS.IT



PRECERTIFICATIO Passive House Verification Building: Gnome Offices Street: Oltului nr. 3 Postcode/City: 520027 Sfântu Gheorghe Province/Country: Covasna RO-Romania Office building Building type: Climate data set: RO0002a-Sibiu 3: Cool-temperate Altitude of location: Climate zone: 524,8 m Home owner / Client: Gnome Design SRL Street: Dakó nr. 2/A Postcode/City: 520014 Sfântu Gheorghe RO-Romania Province/Country: Covasna Architecture: Open Works SRL - arch. Török Áron, arch. Köllo Ágnes Mechanical engineer: Instal All SRL - eng. Vékony Péter Street: Tánicsics Mihály nr. 11 Street: Pap Lehel FN Sfântu Gheorghe Sfântu Gheorghe Postcode/City: Postcode/City: 520055 520092 RO-România Province/Country: RO-Romania Province/Country: Covasna Covasna V&V Projekt SRL - PhD. eng. Szabolcs Varga Energy consultancy: Certification: Energy Plus Project / Marco Filippi Street: Tánicsics Mihály nr. 5 piazzetta San Marco 7/8 Street: Sfântu Gheorghe Postcode/City: 520055 Postcode/City: 31053 Pieve di Soligo ENERGY PLUS PROJECT RO-România Province/Country: Covasna Province/Country: Treviso IT-Italy 2020 Interior temperature winter [°C]: 20,0 25.0 Year of construction: Interior temp, summer [°C] No. of dwelling units: Internal heat gains (IHG) heating case [W/m ²]: 3,5 IHG cooling case [W/m²]: 3,5 Specific capacity [Wh/K per m² TFA]: 204 Mechanical cooling: No. of occupants: 30.0 Specific building characteristics with reference to the treated floor area Alternative 525.7 Treated floor area m² Fullfilled?² Criteria criteria Space heating Heating demand kWh/(m²a) 13 < 15 yes 15 Heating load W/m² < 10 Space cooling Cooling & dehum. demand kWh/(m²a) 3 15 15 < yes 9 Cooling load W/m² 11 Frequency of overheating (> 25 °C) % Frequency of excessively high humidity (> 12 g/kg) 0 10 yes Airtiahtness Pressurization test result n 50 1/h 0.6 0.6 yes Non-renewable Primary Energy (PE) 93 PE demand kWh/(m²a) -PER demand kWh/(m²a) 65 60 65 Primary Energy Generation of renewable yes Renewable (PER) 19 energy (in relation to pro-jected kWh/(m²a) 9 building footprint area) Empty field: Data missing; '-': No require I confirm that the values given herein have been determined following the PHPP methodology and based on the characteristic values of Passive House Classic? yes the building. The PHPP calculations are attached to this verification. Signature Task: First name: Surname: 2-Certifier Marco Filippi Issued on Certificate ID City PRECERTIFICATION Pieve di Soligo, Italy 07.05.2020 9. MARCO

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The annual energy demand displayed above is determined according to the Passive House Planning Package (PHPP) calculation. The present PRECERTIFICATION is a statement that the PHPP calculation done by the Energy Consultant is consistent with the documentation received by Energy Plus Project. This means that if - and only if - the building will be realized in strict adherence to the PHPP calculation and to all info contained in the above mentioned documentation (as an example, but not limited to: design parameters, materials, components, insulation thickness, connections), the building will reach the Passive House Standard. Please note that changes in the current design parameters may result in significant changes of the PHPP calculation results, possibly leading to the impossibility to certificate the building, certification but a confirmation that the energy design matches Passive House standard requirements.