



International Passive House Open Days

June 23 - 25, 2023



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Database ID:

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Building in its original status

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Ajena outPHit case study

Non-residential concrete building from the 1960s on the outskirts of Lons le Saunier, France. Ajena uses the building as a training centre for renovation, so a well renovated EnerPHit building will be an excellent showcase for comfortable and energy efficient renovation.

Parties involved: Etienne Vekemans, ProPassif

Year of construction: Completed in 2023

Construction type: Masonry construction

Building type: Educational building

Treated Floor Area (m²): 285 m²

Climate: Cool, temperate

Airtightness: $n_{50} = 1.04/h$ (EnerPHit Airtightness achieved)

Annual heating demand kWh/(m²a): 25 kWh/(m²a)

Heating load W/m²: 15W/m²

PE demand (non-renewable Primary Energy) in kWh/(m²a): 116 kWh/(m²a)

Renewable energy generation in kWh/(m²a): 85 kWh/(m²a)

Final energy consumption for:

Electricity in kWh/(m²a): expected electric consumption with heat pump of 8 kWh/(m²a) final heating energy.

Remarkable features:

The modernisation proposal consists of a complete energy retrofit to the EnerPHit level using some prefabricated elements. The north side will have an internal Biobased insulation and the south wall will be a prefabricated mounted on-site. Triple glazing and ventilation with heat recovery will be added.

Photo: Jacques Ferrier Architecture, Metropole Rouen Normandie

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