



GREEN BUILDING IN BRETAGNE WITH PELLET HEATING BY MCZ

This project focuses on the creation of a winter garden in a private house, completely eco-friendly and heated by a single little pellet stove.

The project starts from the need to extend an early twentieth century house in Vigneux de Bretagne, without special features apart from the solid granite walls, typical of Breton tradition. The architect Tristan Brisard chose not to force the similarities with the old house, but rather to create a stylistic liaison with an aesthetically autonomous volume as a living area, based on the **archetype of the house**, the icon typically drawn by children. A particularly good choice, which led to the creation of a sort of conservatory, basic and minimalist, a “cathedral”-like volume made entirely according to the **principles of green building**.



With the primary objective of maintaining a **low environmental impact** in terms of CO² emissions, energy consumption and use of raw materials, the natural choice was to create a **building made entirely of wood**.

The beams are solid untreated chestnut and articulate the basic shapes of the room. The walls and the frame of the house are made of Finnish spruce wood, with natural wood fibre insulation, and the bright and basic furnishings, in true northern style, are also made of wood. Preference was given to materials made with raw untreated wood, or processed with natural solvent-free glues.

The result is a **high level of comfort**, thanks to the effect that these materials have on air quality inside the building. Low conductivity, high thermal inertia, breathability and outstanding hygroscopicity reduce the need for heating in winter and cooling in summer. The **energy needs** of the entire extension is **very low**, thanks to the use of natural lighting, both in summer and winter.



The environmental sustainability objective was also achieved thanks to **pellet heating**, chosen as a **more environmentally friendly and cost effective alternative** than diesel or natural gas, but also more practical than wood.

The owners Julien and Fanny Guérin chose the **Thema stove by MCZ**. With this little forced ventilation stove, which is just 80 centimetres tall, they are able to easily heat the entire room (**over 70 square metres**), while maintaining a **constant 20°C** during the day and 18 at night, with limited consumption (less than one tonne of pellets throughout the winter).

"THEMA HAS MANY POSITIVE ASPECTS. HEATING IS INSTANTANEOUS, THE FLAME IS STUNNING, EVEN COMPARED TO OTHER PELLET STOVES ON THE MARKET. THE TEMPERATURE IS CONTROLLED PERFECTLY AND EASILY. IN ADDITION, CLEANING IS FAST AND THE PELLETS ARE ADDED FROM THE DOOR AT THE TOP, EASILY AND WITH NO MESS."

- FANNY GUÉRIN, PROPRIÉTAIRE



Thema pellet stove - the reason for the choice

Minimal appearance

Thema has sleek but graceful and feminine lines at the same time. This is because it does not have sharp edges, but only pleasing curves and rounded edges.

Minimum size

This model measures just 80 cm and the connection to the flue is from the top. An easy solution that even further reduces size (the stove can be placed against the wall).

Wide flame

In this small heater what matters most is the flame. It is wide and pleasant, like a wood fire, thanks to a special stretched brazier.

Silent operation

Simply press a button, to turn off the fan thema continues to spread heat by natural convection, in complete silence, without overheating.



PROJECT AND PHOTO: Tristan Brisard Architecte

You can download the images of this project by clicking on the following link :
www.ergo-online.it/press/MCZ_PrivateHouse.zip

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