

**Increased comfort and reduced energy consumption:
DuPont™ Energain® proves its performance in the loft**

DuPont™ Energain® has been selected to deliver comfort and support sustainable construction in innovative architectural projects ranging from ecological houses, loft, office buildings to school or university buildings. This time, the product has been specified in a private house, recently built a few km from Luxemburg city.

A relevant selection

Jean-Claude Wauters is managing director of Isomontage, a renowned company specialised in thermal insulation, acoustic and refrigeration. “As part of my professional activities, I’m very interested to keep myself up to date on new technologies that effect thermal performance. Therefore, when we decided to build a new private house, I wanted to integrate the latest technologies of sustainable construction. This is how the choice was taken for DuPont™ Energain® to increase the thermal comfort of the building, reduce the energy consumption and CO₂ emissions.

An appropriate solution

Jean-Claude Wauters has selected Energain® for the loft of the building as an alternative to conventional ‘Active Cooling’. Summer time temperatures under the roof can increase so much that even an excellent insulation is not sufficient to maintain comfort inside the room. Installing Energain® on the ceiling, between insulation and gypsum board was considered as an efficient solution to the problem of overheating. Absorbing the heat, Energain® helps to maintain stable, comfortable temperatures and reduce temperature peaks by up to 7°C. When temperature decreases, the Energain® panel releases the stored energy back to the room.

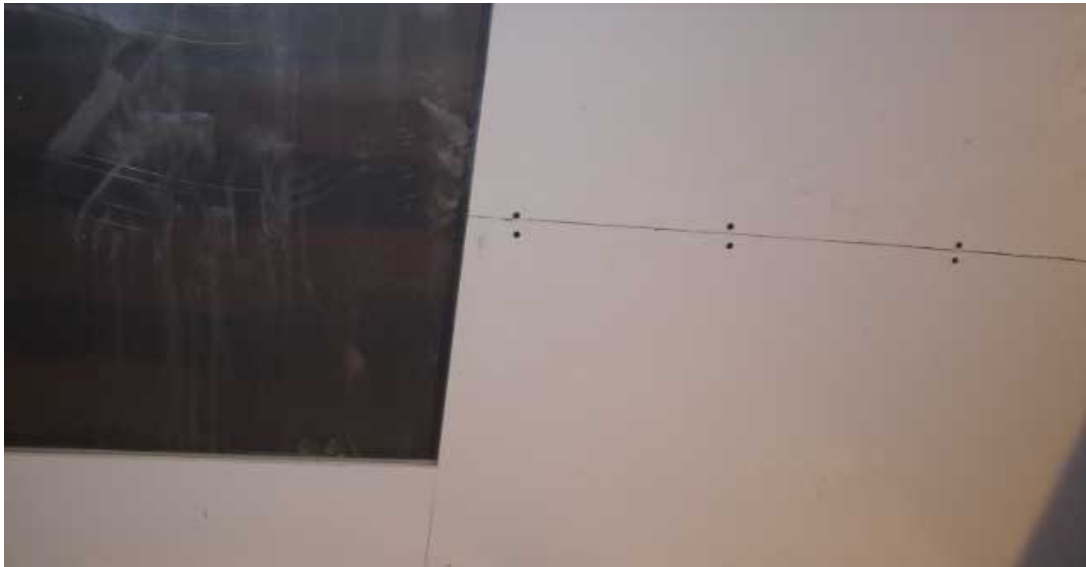
Thermal Cycle

Jacques Weyland, Goblet Lavandier & Associés, engineering office: As for many other products, the performance also depends on the quality of installation. For PCM it is important that a discharge of the panel is guaranteed during the night, so it can absorb the heat again on the following day. To ensure a discharge over night and establish a reproducible cycle of charging and discharging, a ventilation system (natural or mechanical) is recommended that simply circulates the air and improves air quality at very low energy.

“It is true comfort”

“The house had been completed by the end of spring and we moved into it in the month of June. This is the first summer in our new home and we have been impressed by the stability of room temperature in the loft, we have not been surprised by any overheating or significant temperature fluctuations – it is true comfort” concludes Jean-Claude Wauters.

DuPont™
Energain®



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