

DuPont™ **Energain®**

A school restaurant in Vaires sur Marne, France adopts DuPont™ Energain® thermal mass panels as an innovative product solution for their building energy efficiency requirements and improved comfort.



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The thermal comfort of a school restaurant is key to the relaxation of children during their lunch break. In order to best meet the tender requirements set by the district council Vaires sur Marne in France, COPREBAT, specialist in modular building solutions, installed DuPont™ Energain® Phase Change Material to add thermal mass to the lightweight timber building.

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Driven by the objective to exceed the current French Energy Legislation (Réglementation Thermique, RT 2005), COPREBAT identified DuPont™ Energain® as one of the highest performing PCM construction products in the marketplace.

DuPont™ Energain® has been installed on the inside of the external timber walls resulting in a thermal mass performance equivalent to 2-4 cm of concrete.

Thierry Gonzalbes, General Director COPREBAT, explains: “We continuously look for innovation that can help to improve the energy efficiency of our building projects. In this specific project, DuPont™ Energain® enabled us to exceed the current energy requirements and meet the upcoming legislative requirements (Réglementation Thermique, RT 2012)¹. “
COPREBAT has demonstrated their capacity to innovate in their core competency: prefabricated construction.

The district council is very pleased to have managed a sustainable construction project that voluntarily goes beyond the legislative energy requirements.

Since September 15th, 2010, the children have been experiencing the benefit of the thermal comfort provided by this construction. Room climate and energy consumption will be measured over a period of 6 months by an engineering office specialising in energy management.

Owner

Mairie de Vaires Sur Marne, bd de Lorraine, 77360 Vaires sur Marnes, France

Project management

Agence Crea 2, 177 bd Marcel Cachin, 94130 Igny, France

Construction company

COPREBAT, Zone Industrielle, 45310 Patay 02, France, <http://www.coprebat.com>

Engineering Office

Nobatek, Rue de Mirambeau, 64600 Anglet, France, <http://www.nobatek.com>

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¹ The new upcoming French Energy legislation (La Réglementation Thermique 2012, RT 2012) has the objective that all new buildings consume in average less than 50 kWh/m²/year primary energy compared to 150 kWh/m²/year defined in the current legislation (RT 2005).