



fermacell[®]

fermacell Project & Solution

100% passive house, Courcelles-les-Lens, France

- 100% passive house
- 450 m² of **fermacell** greenline boards
- Project completed in 2013

100% passive house, Courcelles-les-Lens, France

The Project

Olivier Baey is an ecologist at heart; he currently lives in a house built in the 1950s with single-glazed windows, poor insulation and oil-fired central heating: the typical profile of the high-energy-consuming house. For example, he pays more than €3,000 a year in heating, whereas the budget for a passive house is €300 at most. When a new addition arrived in the family, Olivier Baey decided to build his own 100%-passive house, using the most environmentally friendly products available on the market.

Project Requirement

The ecologically-minded owner decided to act as the main contractor for his own building project, in order to implement his eco-friendly ideas from A to Z. Step by step, he selected the materials he wanted and convinced local builders and craftsmen to fit the materials in his future home: a timber frame from Finland, triple-glazed-

windows, wood cladding, **fermacell** greenline Gypsum Fibreboards with 100% natural cellulose fibres and an A+ classification (classification setting out the volatile organic compound (VOC) emission rate on a scale ranging from A+ to C).

Solution

"As the parents of two young children and as part of our ecological and sustainable building project, which will be Passivhaus certified, we discovered fermacell's greenline product range at a timber trade fair in Angers (France). We then attended a demonstration at another fair in Belgium, which convinced us about the performance levels of **fermacell** Gypsum Fibreboards for ensuring the most healthy living environment possible. Admittedly, they cost more than standard plasterboards, but we wanted to remain faithful to our philosophy and have quality interior finishes. Furthermore, we are going to paint the **fermacell** greenline boards with

a mineral paint in order to preserve their air-purifying characteristics. To our knowledge, we are one of the first housing projects in the north of Paris to have chosen greenline boards, for a total surface area of around 450 m² (walls and ceilings). And because fermacell was sensitive to the approach we had opted, they became a partner in the project. Finally the craftsman we used had never installed greenline boards before and took the initiative to learn the specific technique so as to fit them correctly. The result is perfect!"



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Overview	
Owner:	Olivier Baey
Main contractor:	Olivier Baey

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