

Architect Giuseppe Maria Padoan (pictured below), installer Esteban Lucca and Mauro Toffanin created a house based on bio-architecture and perfect indoor climate.



Combining old and new, East and West for the perfect home

An eco-friendly constructor and a bio-architect teamed up with Uponor in Italy to create a balanced combination of old and new, East and West for the perfect indoor climate.

The goal was to build a sustainable house in Isola Vincentina, northern Italy. Built with natural materials such as wood and cork, the house was planned to comply with state-of-the-art parameters of modern bio-architecture, with an eye for energy saving and for creating perfect indoor living comfort.

The building project was a challenge especially since architect **Giuseppe Maria Padoan** planned the house following Feng Shui principles, an ancient Asian philosophy based on the combination of natural elements and energy flows.

"Building with bio-architecture means appreciating the quality of the product by giving priority to all the choices that are consistent with the use of natural ecological materials. We also need technological systems that do not harm the health of people and techniques of construction that do not interfere with the delicate biological balances of our bodies," he explains.

Uponor's role was to create a perfect indoor climate for the house. With this goal in mind, the technical team came up with a solution that fits perfectly with the building's biologically pure cork panels used as flooring material.

"We had to come up with a special solution in order to lay the pipes on the panels, but thanks to

the long professional collaboration with Uponor and their sales reps, we were able to overcome the project's challenges, fulfilling both the end users' desires and the architect's vision," installer **Esteban Lucca** says.

"This project was a challenging experience. To obtain this job we needed to demonstrate that our technologies were a perfect match for the 'green' concept of the house. We had many meetings before the project started, the quality of Uponor's systems spoke for itself and we started working together. The second challenge was to come up with a solution for an underfloor panel that could satisfy all the parameters that the Feng Shui principles require. The result was a unique project," says **Mauro Toffanin**, Uponor's technical consultant. ●

A lovely Italian house

- Modern single-family house that was built based on key bio-architecture principles
- Installed integrated underfloor heating and cooling system; installation July 2009
- Uponor underfloor panels (tracks + insulating cork panel) and MLCP pipes.



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