



**Proter Imex srl**  
Via Borgo Molino 12  
31020 San Pietro di Feletto  
Italy

T +39 0438 784227  
F +39 0438 784247  
info@proterimex.it  
www.proterimex.it

**Casa Hoval**  
Case study





**Proterceiling** radiant ceiling is a heating and cooling system integrated in the false ceiling.

Using a radiant ceiling in new buildings or in the retrofiting of old buildings has many advantages:

- great comfort without air drafts
- 30% cost saving
- completely silent
- no maintenance required
- unlimited life time
- it adapts to every environment



**Client's demand: to combine energy efficiency, sustainability and architectural design in an innovative way.**

Proter Imex contributed to this ambitious project making the heating and cooling radiant ceiling on a surface of 400 square meters. Proter Imex has satisfied the request to have a ceiling with a monolithic appearance while keeping the radiant panel's inspection feature: for that reason, metal panels with a 2 mm shadow gap and an embossed

painting with plaster effect were used. Furthermore, to give extra flat appearance, the union of metal ceiling and plasterboard compensation was made with sharp edges without the use of trims.

Also the micro-perforations design has been studied for the aesthetic integration of lighting and ventilation systems in the radiant panels.

The Kappa Office system provides a comfortable working environment from a climatic and acoustic point of view, it avoids obstacles on the floor, reduces energy

consumption and doesn't require any maintenance.

It's possible to save up to 30% of energy consumption because the environment's comfort is reached with a lower operating temperature and with a faster response time (few minutes) of the system.

The building was considered so worthy from an architectural point of view for its functionality, sustainability, respect of nature and of man to receive the **CasaClima Award 2015** for the Best Work & Life project.

Project name:  
 Casa Hoval - Zanica BG  
 Radiant ceiling: Kappa Office  
 Intervention Area: 400 m<sup>2</sup>  
 Client:  
 Hoval Srl

Architectural and interior design, energy concept and environmental sustainability, project management:  
 Solarraum – architecture, energy, mobility  
 M.Sc.Dr. Arch. Barbara Wörndle  
 Dr. Eng.Oscar Stuffer

Mechanical design:  
 Studio Castelli  
 Eng. Sergio and Carlo Castelli  
 Eng. Stefano Grigis | Eng. Elio Radici  
 Eng. Paolo Bazzana