



solar  
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architecture  
energy  
mobility

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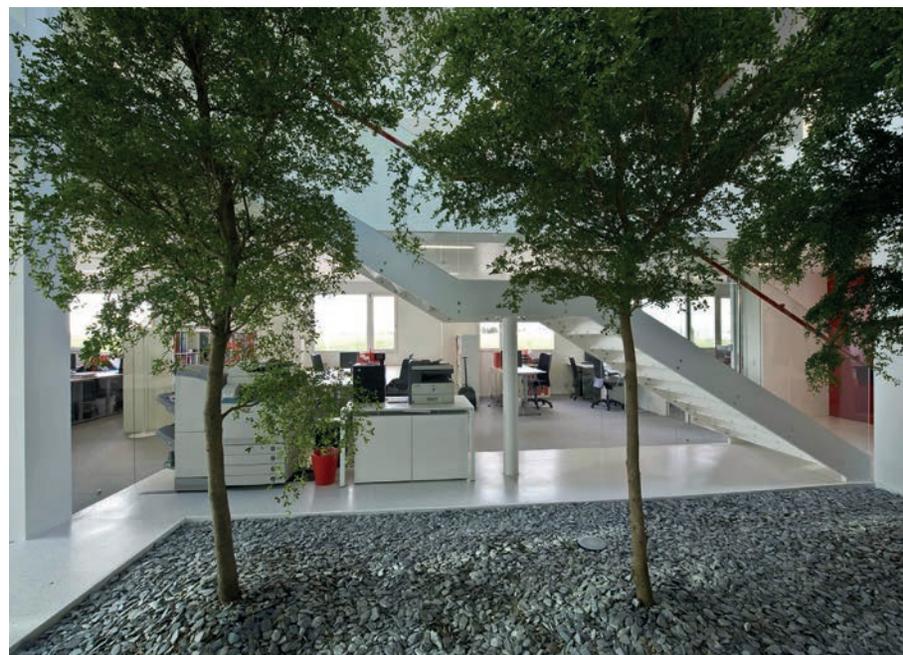
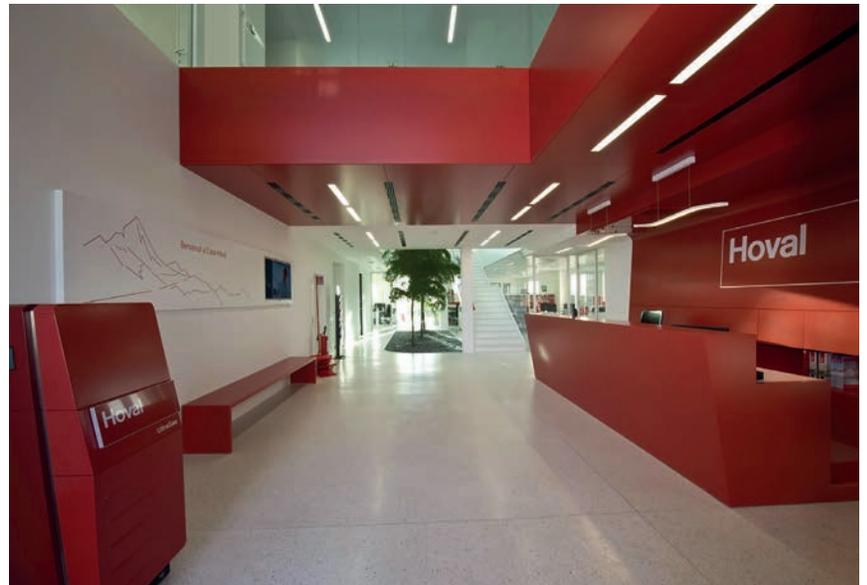
Solarraum design studio was founded in 2004 by Barbara Wörndle architect. In 2006 the engineer Oscar Stuffer became the co-director.

Energy efficiency and sustainable architecture were always been the main focus of their work. The integration between design and technology reveals to be a promising strategies since the beginning, allowing a comprehensive and detailed planning approach. In Solarraum vision, a crucial role is played by high architectural quality, energy efficiency, who leads to high profitability of the project, and a detailed time schedule in each phase of the project.

Solarraum can count on certified Passivhaus designers and Casa Clima consultants as members of the staff. The studio is not just focused on well-established concepts, it is always developing cutting edge and innovative solutions. Solarraum designs and builds residential, industrial and public buildings both in Italy and abroad. Moreover, it offers professional energy optimization advices for firms, private and public clients.”



**CASA HOVAL, Zanica (BG)**  
**Winner KlimaHaus Award 2015**



Casa Hoval, the new headquarters of company Hoval Italia was planned and constructed within just one year! In addition to time and budget constraints, sustainability, energy efficiency and nice design were key requirements for the project.

Winner of **KlimaHaus Award 2015**

**Client** Hoval Srl

**Location** I-24050 Zanica (BG)

**Services** Architectural planning and site construction management, interior design, energy concept, energy calculations, accounting, project management.

**Construction** 2014

**Floor space / Volume** 1.530m<sup>2</sup> / 13.700m<sup>3</sup>

**Energy performance** Klimahaus A, Klimahaus Work & Life, CENED A+, Minergie



## RESIDENTIAL BUILDING Villa C., Bellano (LC)



Energy retrofit of heritage-listed Villa Castelli built in the mid-19th century on the shores of Lake Como. By installing internal insulation, triple pane wood windows and roof insulation, the Villa was turned into a Nearly Zero Energy Building (nZEB). Maximum comfort is guaranteed by an air distribution system in the rooms and by an underfloor heating system, which is fed by a geothermal probe connected to a heat pump. Winner of **KlimaHaus Award 2016**

**Client** Private AWARDS

**Location** I- 23822 Bellano (LC)

**Services** Energy concept, consulting for execution planning and tendering, calculations for ventilation and heating systems, site construction management assistance, HVAC planning.

**Construction** 2013-2014

**Floor space / Volume** 565m<sup>2</sup> / 2.606m<sup>3</sup>

**Energy performance** Klimahaus R



## SPORTS CENTRE FOR CROSS-COUNTRY SKIING Seiseralm/Alpe di Siusi (BZ)



The sports centre for cross-country skiing rises at 1800m above sea level on the Seiseralm/ Alpe di Siusi, in the Schlern/Sciliar natural park. Design efforts were aimed at developing a building complex that could 'easily' integrate into the alpine landscape, hence the decision to include green areas and to use only a limited number of building materials, namely wood and glass. The sports centre (over 7.000m<sup>3</sup>) was completed and ready to use in only 7 months.

**Client** Rauch Agnes KG

**Location** I– 39040 Seiseralm/Alpe di Siusi (BZ)

**Services** Architectural planning and site construction management, accounting.

**Construction** 2009

**Floor space / Volume** 1.450m<sup>2</sup> / 7.350m<sup>3</sup>

**Energy performance** Klimahaus A



## RESIDENTIAL BUILDING T., Eppan /Appiano (BZ)



Energy retrofit and remodelling of an existing residential building, as well as addition of one floor atop to create a new apartment. Energy demand for heating was cut by 85%. Eco-friendly materials were used for the entire renovation project and the new apartment in the attic is a wood framed construction built to Passive House standard.

Recipient of **KLIMHAUSAWARD 2010**.

**Client** Private

**Location** I-39057 Eppan/Appiano (BZ)

**Services provided** Architectural planning and construction site management, accounting, energy concept, energy calculations.

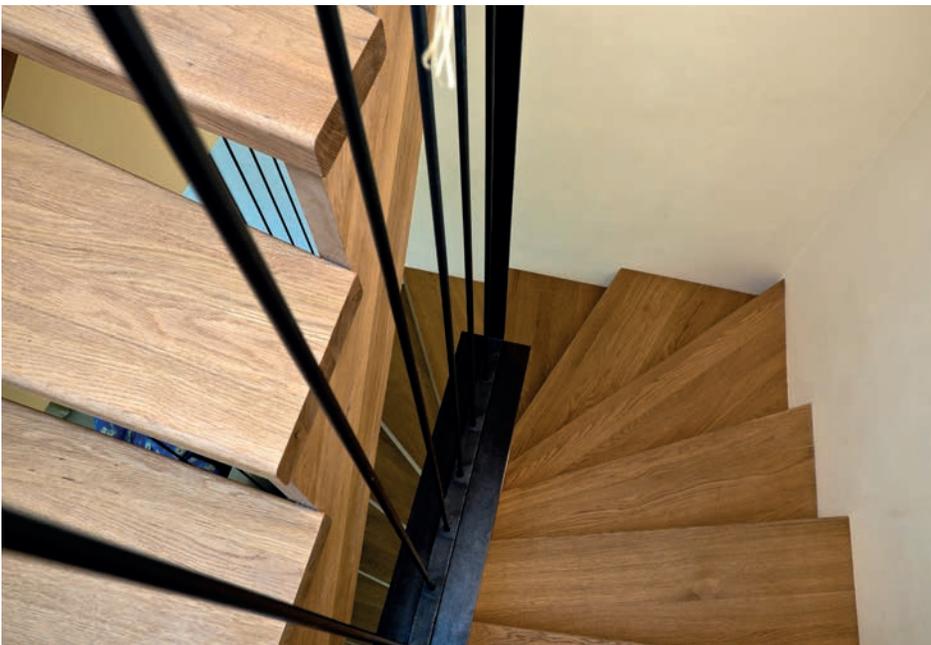
**Construction** 2008-2009

**Floor space / Volume** 350m<sup>2</sup>

**Energy performance** Klimahaus A



## RESIDENTIAL BUILDING P., Kaltern/Caldaro (BZ)



Construction of a passive house/ Klimahaus Gold under very unfavourable conditions due to geographical location, surrounding area (existing neighbouring building on the south side), very small volume and limited budget. The building was monitored in the framework of the European project "Enerbuild WP5\_action 5.4" and was selected as the best passive house in the Alps!

**Client** Private

**Location** I- 39052 Kaltern/Caldaro (BZ)

**Services provided** Energy concept, PHPP (Passive House Planning Package) calculation, execution and detailed planning, construction site management.

**Construction** 2008-2009

**Floor space / Volume** 600m<sup>3</sup>

**Energy performance** PassiveHouse/Klimahaus Gold



## RESIDENTIAL BUILDING K., Bozen/Bolzano (BZ)



Renovation of a heritage-listed 17th century building in the centre of Bozen/Bolzano, whose outward appearance and features had to be preserved. Overall, the heating energy demand was cut by approximately 85% from 191kWh / m<sup>2</sup> to 28kWh / m<sup>2</sup> on a yearly basis. That means guaranteed comfort both in winter and in Bozen's hot summer!

**Client** Private

**Location** I-39100 Bozen/Bolzano (BZ)

**Services** Architectural planning and site construction management, accounting, energy concept, energy calculations, planning of comfort ventilation.

**Construction** 2011

**Floor space / Volume** 250m<sup>2</sup> / 1.100m<sup>3</sup>

**Energy performance** Klimahaus A



## MULTI-FAMILY RESIDENTIAL BUILDING P., St. Ulrich /Ortisei (BZ)



Construction of a new multi-family residential building consisting of 7 residential units built to Passive House standard. The traditional roof shape lets the building blend nicely into the neighbourhood while ensuring modern, bright and comfortable rooms. The building envelope boasts high quality insulation and balconies are free from thermal bridges. A semi-central ventilation system supplies hygienically clean air.

**Client** Investgroup GmbH

**Location** I- 39046 St. Ulrich/Ortisei (BZ)



## RESIDENTIAL BUILDING F., Bozen/Bolzano (BZ)



Energy retrofit of an existing farmhouse built in 1957. Detail design was challenging because the owner wanted the outward appearance of the building to remain unchanged. Thanks to a highly insulated building envelope, a wood fuel heating system for space heating and hot water, solar collectors and a photovoltaic system the building can now be considered a "Nearly Zero Energy Building (nZEB)".

Winner **KLIMAHUSAWARD AWARD 2009 "Beste Sanierung"** (Best retrofit)

**Client** Private

**Location** I-39100 Bozen/Bolzano (BZ)

**Services** Architectural planning and site construction management, accounting, energy concept, energy calculations.

**Construction** 2008

**Floor space / Volume** 200m<sup>2</sup> / 970m<sup>3</sup>

**Energy performance** Klimahaus B



## PASSIVE HOUSE S., Kastelruth /Castelrotto (BZ)



Construction of a new building intended for commercial and residential use: precast concrete was used for the commercial premises and wood framing for the residential area. The residential premises were designed as a passive house and received KlimaHaus "Gold Plus" certification. The heating and cooling systems are fed by a ground collector and a heat pump with brine used as heat transfer medium, supplemented by a photovoltaic system on the roof, which makes the building a Plus Energy House.

**Client** Silbernagl Urban & Co. KG

**Location** I- 39040 Kastelruth/Castelrotto (BZ)

**Services** Architectural planning and site construction management, accounting, energy concept, energy calculations.

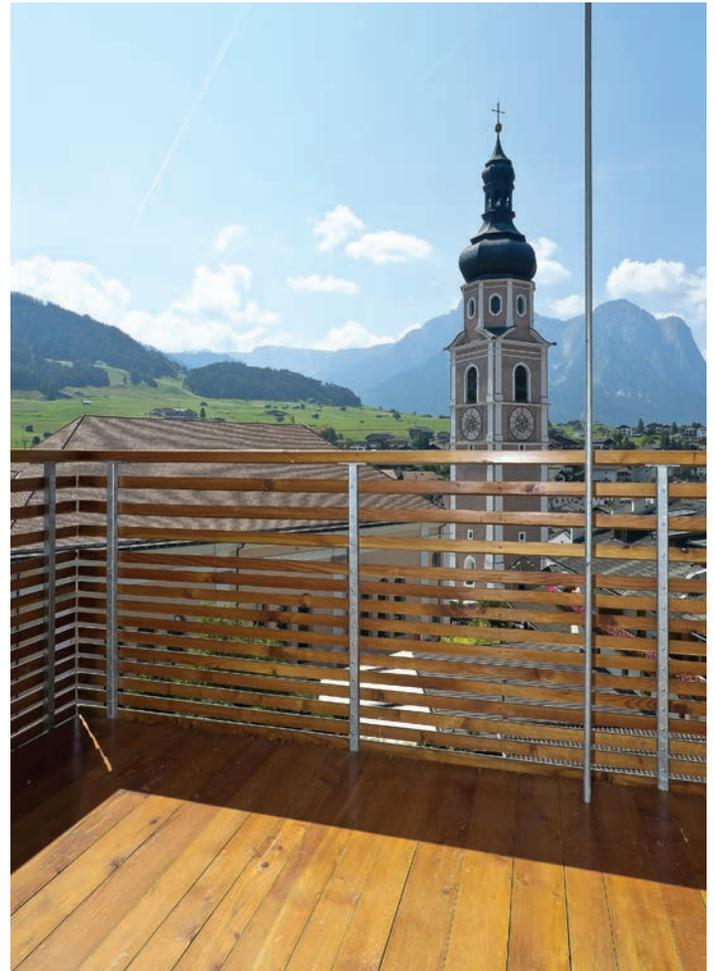
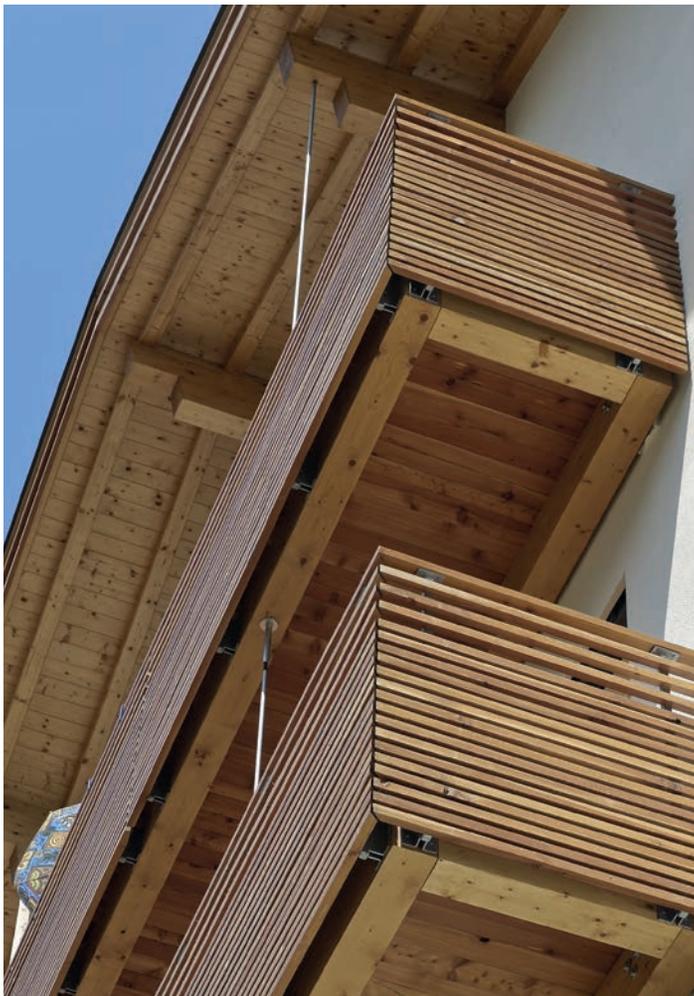
**Construction** 2006-2007

**Floor space / Volume** 268m<sup>2</sup> office and commercial space, 110m<sup>2</sup> residential space

**Energy performance** Klimahaus Gold plus, Plus Energy House



## PARISH HOUSE Kastelruth/ Castelrotto (BZ)



The parish house from 1965 was completely renovated to boost energy efficiency. The foresight of the client prompted an innovative strategy leading to a “factor 10 renovation”, with a 86% cut in the heating energy demand.

**Client** Parish Kastelruth/Castelrotto

**Location** I– 39040 Kastelruth/Castelrotto (BZ)

**Services** Architectural planning and site construction management, accounting, energy concept, energy calculations.

**Construction** 2007

**Floor space / Volume** 920m<sup>2</sup> / 3.800m<sup>3</sup>

**Energy performance** Klimahaus A



## SERVICE CENTRE A22, San Michele all'Adige (TN)



The existing project for the service centre of the Brenner motorway was reconsidered and optimized to enhance energy efficiency (of building envelope and systems) also by means of dynamic simulations. That allowed cutting energy consumption by 82%, which let the building improve from KlimaHaus energy efficiency class "G" to "A". All this with additional costs of only 4%!

**Client** Brennerautobahn AG/ Autostrada del Brennero Spa

**Location** I- 38010 San Michele all'Adige (TN)

**Services** Energy concept, dynamic simulation, execution planning, HVAC execution planning, consulting for tendering, calculations for ventilation and heating systems, site construction management assistance.

**Construction** 2009-2012

**Floor space / Volume** 5.500m<sup>3</sup>

**Energy performance** Klimahaus A



**AURUM - MULTY-FAMILY RESIDENTIAL BUILDING, Auer/Ora (BZ)  
RESIDENTIAL BUILDING V., Montan/Montagna (BZ)**



Aurum is a multi-storey building labelled Casaclima "A" Nature. In Aurum energy efficiency, high indoor comfort, low construction costs and low environmental impact are the driving forces of the project. The building aspect has been design starting from clients' need. Eco-friendly materials were favoured instead of the standard ones: Hemp, Wood and cellulose were used as insulation. The building is completely energy independent thanks to the PV-panels that cover the entire residual energy needs of the building.

Winner of **Environment Award Euregio 2016**  
Finalist of **THE PLAN AWARD 2017**

**Client** Housing Association – AURUM

**Location** I– 39040 Auer - Ora (BZ)

**Services** Architectural planning and site construction management, accounting, energy concept, energy calculations, planning of comfort ventilation.

**Construction** 2015 - 2016

**Floor space / Volume** 1375m<sup>2</sup> / 5.500m<sup>3</sup>

**Energy performance** Klimahaus A Nature



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