



Project by Kämpfen Zinke + Partner AG in Altstetten

Zwyssigstrasse 7+9, 8048 Zurich - Altstetten, Switzerland

Location 47°23'03" N | 8°29'08" E

🕰 Altitude **419 MAMSL**

with the support of











A valuable balcony railing

The two apartment buildings consisting of 28 flats are fanned out towards the south. The windows provide different views and allow passive solar heat to radiate in. Four units of different layout are arranged on each floor. The apartments are oriented around corners and are thus lit from several sides. Individual, slightly slanted walls create spatial tension. From the basement ceiling upwards, the buildings are made entirely of wood; the solid wood ceilings are visible, while the walls are plastered white. An angled balcony, clad with glittering golden multi-crystalline photovoltaic modules, encloses the buildings on three sides, making them very distinctive and supplying the house with electrical power. Pellet heating, supported by solar collectors, provides the heating energy. The central ventilation system is controlled by CO2 sensors located inside each unit.

A versatile meeting space stretches out between the buildings. Valuable shrub borders complement the play areas and provide a habitat for many small creatures. Nesting boxes are embedded in the facades to accommodate swifts and bats.



Ground floor



View from the balcony

| Energy | | |
|----------------------------|------------|---------|
| Active solar surface | 83m² (STH) | n/a |
| Active solar surface ratio | <25% | >75% |
| Peak power | n/a | 56 kWp |
| Building skin application | Flat roof | Railing |
| | - | |
| Storage | n/a | n/a |

Energy production

25000
kWh

Source: Nachhaltig Bauen, 3/2018

Self-consumption

Not available



Building characteristics



Golden PV multi-cristalline modules are well matched with a wooden cladding.

Building typology

Residential

Construction type

New

Year of construction

2017

Energy reference surface

1835 m² (Zwyssigstrasse 7) and 1937 m² (Zwyssigstrasse 9)

Energy Index

n/a

Energy labelling

Minergie-P-ECO

BIPV module

Product

n/a

Manufacturer

n/a

Cell technology

Multi-crystalline

Cell colour

Gold-green

Front glass type/customization

Glass/glass BIPV modules

Dimensions

Custom made

Specific power

n/a

Specific weight

n/a



Building skin

Roof

Application

Solar thermal collectors are installed on both roofs

Description

Hollow box elements with 240 mm of mineral wool

U value

n/a

Fastening system

Other

Facade

Application

PV modules integrated into the balcony railing

Description

Hollow box elements with 240 mm of mineral wool

U value

n/a

Fastening system

Other

Glass surface

Application

Windows

Description

Triple glazing with woodmetal frame

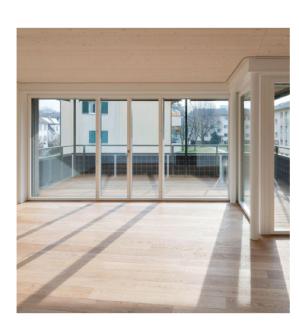
U value

n/a

g value

n/a

Other



and are thus lit from several sides.



The apartments are oriented around corners Golden PV multi-cristalline modules are integrated into the balcony railing.



Costs

Total cost of the building n/a

Price per m³

n/a



The balconies run along the entire south, east and west sides and twinkle in the sunlight.

Parties involved

Owner

LIVEG Immobilien GmbH

Architects

Kämpfen Zinke + Partner AG

HVAC engineer

Hässig Sustech GmbH

Photovoltaic Installer

Gasser energy

Facade installer

1a hunkeler holzbau AG

Photo

Kämpfen Zinke + Partner AG

Awards & recognitions

Awards

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Publications

- Reflektierende
 Energieeffizienz.
 Nachhaltig bauen 3/2018
 by Anita Bucher (only in DE)
- Architektur: Mit Gold verzierte Schoggibröckli in Altstetten. ee News 24.08.2018 by Anita Niederhäusern (only in DE)



North facade of the two buildings on Zwyssigstrasse.