



## Case study

# Riedpark housing development in Zug Switzerland

### Products:

MONTAFORM® MF DESIGN 35-5/250 AV  
(full perforation 4 mm, division 7 mm)  
Area about 10,000 m<sup>2</sup> in the final development  
stage

### Owner:

Seewarte Zentralschweiz AG, 6330 Cham  
Client : Hammer Retex AG, Cham

### Architects:

EM2N Architekten und MÜLLER SIEGRIST  
Architekten, both Zurich, CH  
Competition victory: 2006

### Landscape architects:

Fontana Landschaftsarchitektur GmbH, Basel

### Realisation:

2008-2015

### Construction costs:

CHF 94.4 million



# Riedpark housing development in Zug, Switzerland

## Metal façade for exclusive residential buildings

In the Swiss town of Zug, about 23 km south of Zurich, exclusive private flats with unusual floor plans and individual facades made of metal profiles are being built on the Riedpark site overlooking Lake Zug.

The formerly spacious landscape of the Lorze plain is one of the fastest growing settlement areas in Switzerland. The new housing development is being built here. 'Riedmatt'. The name of the plot is derived from the watery natural history of the landscape, as can be learnt on the website of Fontana landscape architects from Basel. The nearby River Lorze is thereby the inspiration for the layout of the basic complex. Just as the Lorze meanders through the river bed, "the new houses also form a band of buildings that divides the outdoor area into two zones: the urban residential alleys on the north side and the park on the south side", the report continues.

The idea to create an urban structure with exclusive houses in these natural surroundings arose out of an architects' competition. This competition was won in 2006 by the architectural partnership EM2N Architekten and MÜLLER Architekten, who both come from Zurich. The intention of the development was to give the surroundings a new impetus and offer views of the Alps from most of the flats.

The architects picked up on the natural form of the landscape and planned special types of houses with typical zigzag facades and generous glazed areas.

"The meandering form enables an east-west orientation of most of the houses. South-facing balconies open up a view of Lake Zug and the Alps", is how MÜLLER SIEGRIST Architekten describe their design. "A sawblade-like façade is created with pointed teeth in the standard storeys and blunt areas in the attic storey. The façade is materialised in horizontal concrete bands and perforated, anodised aluminium trapezoidal sheets arranged vertically."

Hammer Retex AG, headquartered in Cham, is considered to be one of the leading property companies in central Switzerland. In three construction stages from 2008 to 2015 it realised the development of the Riedpark site in Zug with exclusive 3½ to 5½-room flats. The owner and the architects attached great importance to a special façade from the outset. Kurt Schwitters of EM2N says, "We wanted a facade that you don't find everywhere."

Residential buildings are usually given plaster or timber facades. Depending on the region many architects also choose fair-faced concrete or exposed-face masonry. This was not the case with the Riedpark. Here the architectural partnership chose façade profiles from

Montana Building Systems Ltd., which are quick and simple to install, durable and provide the architects with a great deal of design freedom.

Detailed consultation and sampling at the architect's office followed until a profile was selected. The variant used was the 'zigzag-shaped' MONTAFORM® MF DESIGN 35-5/250 AV with four-millimetre-thick full perforation and seven-millimetre division, installed in offset rows with concealed fastening.

"The cladding profiles were anchored to a GFT-Avanti substructure pre-mounted on the concrete exterior walls", explains Urs Gerber from the façade construction company Gerber + Gadola AG from Cham. "The GFT-Avanti substructure, which consists of insulator and bracket and includes thermal isolation, was checked and tested by the Swiss Federal Laboratories for Materials Science and Technology (EMPA)."

The mineral wool thermal insulation was finally fitted between the slender substructure. Before that the black façade lining and the MONTAFORM® MF DESIGN profiled sheets with their high-class anodised quality were mounted as a suspended, rear-ventilated façade.

The dimensional accuracy of the profiles and the great flexibility of the folded sections for the connecting profiles represented the greatest challenges that had to be overcome with this sophisticated façade. Thanks to intensive work preparation by the Montana support team, the company succeeded in completing the aesthetic façade on time.

The MONTAFORM® DESIGN line offers architects, façade planners and building owners unique and unusual design options. The planner designs the form, selects the material and the colour. The specialists from Montana Building System Ltd. in Villmergen draw up a feasibility study and finally supply the individually designed façade profile. This creates a future-oriented, new, symbiotic and creative partnership between architect and industry.



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