



## Case Study

### Schwimmbadstrasse in Wettingen, Switzerland

**Products:**

3.300 m<sup>2</sup> SWISS PANEL® SP 18 in aluminium metallic black, 0.80 mm

**Builder:**

K&K Fassaden AG, St. Gallen, Switzerland

**Architect:**

KMP Architektur AG, Wettingen, Switzerland

**General contractor:**

Piger Immobilien AG, Wettingen, Switzerland

**Realisation:**

2015 - 2016





# With SWISS PANEL® to the Minergie label

The rural flair of the municipality of Wettingen in the canton of Aargau has rapidly turned into an urban one in the past years and fits in with the metropolitan region of Zürich. Properties are being renovated here and brought up to the latest standards in energy efficiency. Modern metal profiles from Montana Building Systems Ltd. in Villmergen are thereby very popular, as in the residential and commercial complex at Schwimmbadstrasse 41-45.



Wettingen is a pulsating township that increasingly attracts small and medium-size enterprises as well as workers from the entire surrounding area. The township now has a population of around 20,300. Property companies such as Piger Immobilien AG from Wettingen view this boom as an opportunity to successfully let their residential and commercial complexes. For that reason they are going to great lengths to thoroughly renovate these buildings. The residential and commercial complex at Schwimmbadstrasse 41-45, a renowned building close to the railway station on the banks of the river Limmat, was also looking its age and needed a facelift. Ifstest AG has been domiciled here for a long time. It is one of the leading partners in Switzerland for the development and production of high-quality electronic devices and systems.

“When the interior of a building is concerned with high-tech, the surroundings must reflect that. Of course, we want our tenants to be entirely satisfied with our properties, to feel good and to stay”, says Ursula Jost-Oeschger

from the estate company, justifying the extensive building work. Apart from various renovations in the interior, the owners were primarily concerned that the elongated building should have an appealing and energy-efficient façade. Piger Immobilien AG therefore chose the corrugated profile SWISS PANEL® SP18/76 aluminium sheet 0.80 mm from the creative product range of Montana Building Systems Ltd. in Villmergen. For the colour they chose black métallisé from the MONTACOLOR® pallet in order to give the elongated building a touch of elegance and a special look.

Montana Building Systems Ltd., which is located in nearby Villmergen, has a worldwide reputation for product variety, perfection and high quality and is certified to ISO 9001 as well as the EPAQ Quality Label. Piger Immobilien AG were also convinced of that when they formulated their idea for the renovation solution. “With the modernised residential and commercial complex we also wanted at the same time to meet the criteria of the Swiss Minergie label. It’s a big task. The Montana

products should help us to successfully fulfil it”, says Ursula Jost-Oeschger.

The crew from KMP Architektur AG in Wettingen was commissioned to plan and design the façade. Architect Martin Haldimann values Montana’s good collection of sine-wave sheets. These aluminium profiles are particularly suitable for use in industrial and commercial construction, because they can be planned, manufactured and delivered just in time according to the customer’s wishes and in lengths of up to 17 m - even in large quantities. They are of a high quality and double coil-coated in polyester 25 µm. The rear side is coated with a bright protective lacquer. The profiles are thus armed to resist the most diverse weather influences. On the building site the lightweight profiles were easy to handle and quick to mount.

Thanks to the sinusoidal shape of the profiles, the architects succeeded in creating a calm surface pattern. The sine-wave sheets were assembled horizontally as a façade, so that



they adapted themselves to the elongated proportions of the existing building volume.

Paul Jurisic, project manager of JUWAL AG in Otelfingen explains the construction of the façade as follows: "The parapet contained insulation cassettes that were still in good condition. Therefore, the new windows could directly be placed upon the cassettes. However, the new windows were considerably heavier than the old wooden metal windows, due to triple glazing. Hence, it was necessary to statically strengthen the cassettes with vertical U profiles. The new insulation with spiral heat holders were attached to the old heat insulation. The overall thickness of the insulation amounts now to 260 mm - 100 mm for the existing cassettes and 160 mm for the new insulation."

This way good isolation values can be achieved and the energy balance of the building is improved. They meet the Swiss noise control requirements according to DIN 4109, because the construction lowers sound

waves. Additionally, the insulation makes for a pleasant room acoustics. The fitting proceeded rapidly.

The architect explains, "With the new dark metal façade we succeeded in retaining the character of building as demanded by the client. Façade parts that jut out over the building entrances were given a silver Alucobond sheet cladding. This differentiated metal cladding now gives greater clarity to the building structure." The connecting element of the building complex in terms of design is the dark metal windows with surrounding window frames, which blend very well into the overall appearance of the building.

However, the extensive beautification of the building complex is not limited to the exterior. Inside, amongst other things, the floor coverings were exchanged, entrances and exits suitable for the handicapped were installed, new railings were attached, the staircase lighting modernised and the lift cars replaced.



The renovation of the building sections 41 to 43 is complete. The modernisation work in number 45 is still in full swing (as of June 2016).

With this demanding building, Montana Building Systems Ltd. from Villmergen proved once again that its SWISS PANEL® product is particularly suitable for large commercial buildings. It allows the client, together with the planning architects, to design façades with a high energy efficiency that also look very good. "As a company we benefit not only from this value retention - we will also enjoy the improved comfort and lower energy costs in future. Because our company is also located here at Schwimmbadstrasse 45", says a delighted Ursula Jost-Oeschger from Piger Immobilien AG.





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07/2016

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