



Case Study

Residential complex“ Vogelsang”, Dettingen an der Erms, Germany

Products:

MONTAFORM® Design Individual 42-4/304

MONTAFORM® Design Individual 42-4/304 A (with full perforation)

Stone Grey matt

901 m²

Stone Grey matt

70 m²

Engineer & client:

Ch. Trost GmbH, Dettingen an der Erms, Germany

Architect:

Malte Wittenberg Architektur, Berlin, Germany

Construction time:

2022

High-quality aluminium façade with industrial character

Dettingen an der Erms: “Vogelsang” residential complex impresses with clear architecture and durable façade.

A special building complex is currently attracting curious glances in the South-German community of Dettingen an der Erms (Germany): in the construction of the “Vogelsang” residential complex, the architect Malte Wittenberg from Berlin opted for clear architecture and a high-quality façade solution. Rear-ventilated metal façades from the MONTAFORM® Design facade cladding product range from Montana Building Systems Ltd. (Switzerland) were used. The choice of profile was inspired by the industrial environment, which is mostly made up of steel and aluminium processing companies.



Dettingen an der Erms is a rural community in South Germany with a population of just under 10,000. It is located about twelve kilometres north-east of Reutlingen in the Stuttgart metropolitan area. The region is one of the centres of the German automotive industry. These are metalworking companies in which the employees mainly deal with steel and aluminium. This initial situation played a particular role in the planning of the “Vogelsang” residential complex, which was built in 2022 in the direct vicinity of an industrial estate. One of the goals of the project was to transfer this image of the materiality of the industrial area to the neighbouring residential buildings. Therefore, façade profiles that go hand in hand with the image of materiality in the neighbourhood were deliberately used in the construction of the three

apartment blocks with 22 residential units and an underground car park. The conscious irregularity of the Design aluminium profiles is additionally oriented to the verticality of timber cladding and thus creates a reference to the rural area. From the wide range of standard profiles, the architect and client therefore decided on the MONTAFORM® Design Individual, also partly perforated. With an elegant matt and classy looking special coating in the colour “Stone Grey”.

Aesthetics and cost-effectiveness

The architecture and design of a building are most visually expressed in the style of its façade. That also applies to the Vogelsang residential complex. The flexibility of the MONTAFORM® Design Individual profiles proved

to be advantageous in several ways here: the rear-ventilated façade is low on maintenance and is regarded as a sustainable construction element. It is energy-efficient and ensures a pleasant living situation. It also enables an aesthetically sophisticated façade solution with a high-quality look that at the same time establishes a connection to its surroundings. By the way, this not only applies to the choice of material with regard to the metalworking neighbourhood, because Dettingen an der Erms lies in a rural location. Since wood is often used here, the planner also oriented himself to the verticality of timber claddings in this project. The irregularity of the profiles is consciously based on the typical irregularity of timber boarding. With success: in this way, architect Malte Wittenberg



skilfully creates an optical connection to both the rural area and the industrial environment.

Furthermore, the aim was to deliberately relieve the perception of the solid concrete base of the residential building by a certain lightness in the storeys above. This lightness was achieved by the use of the delicate aluminium profiles. This can be seen in particular in the balcony claddings, where a perforated version of the MONTAFORM® Design Individual profiles was used. This gives every structure an additional dimension with light and lightness.

Close cooperation of the construction participants

The quality of construction products is one thing. Their usability in practice is another. Therefore, the planner and client were clear from the outset that they didn't want a run-of-the-mill solution. A high-quality façade was desired which, however, also had to be affordable. And this is where Montana's construction consulting really excelled:

even in the early planning phase of the façades there was close cooperation between the manufacturer and those involved in the construction. This also concerned the selection of suitable products. In the implementation and installation phase there was just as much support by Montana's technical department – with regard to the execution of the details, for example the connections to doors and windows as well as the design of the inside and outside corners. The deliberate irregularity of all façade profiles of the residential complex also represented a big challenge for the planning and installation. Ultimately, the processing of the one millimetre-thick aluminium profiles with the tools recommended by Montana proved not to be a problem.

The new Vogelsang residential complex has now been in use by tenants and owners since 2022. According to initial feedback, they are very taken with the high quality of the Montana façade profiles used. That is also due to the fact that metal is not yet used so frequently in residential construction.

Montana Bausysteme AG

Durisolstrasse 11
CH-5612 Villmergen
info@montana-ag.ch
www.montana-ag.ch

Montana is a registered trademark of Tata Steel. While care has been taken to ensure that the information contained in this publication is accurate, neither Tata Steel, nor its subsidiaries, accept responsibility or liability for errors or for information which is found to be misleading. Before using products or services supplied or manufactured by Tata Steel and its subsidiaries, customers should satisfy themselves as to their suitability.

Copyright © 2023 Montana Bausysteme AG