



Case study

SBF logistics centre, Poing near Munich

Client:

SBF Poing GmbH & Co. KG, München

Architect:

io-consultants GmbH & Co. KG, Heidelberg

General contractor:

ARGE: Max Bögl München/ Peter Gross Bau GmbH & Co. KG, Karlsruhe

Installation:

glammeier & john Bausysteme GmbH & Co. KG, Porta Westfalica

Year: 2015

Products:

Kalzip® FC rainscreen system
High Performance Coating (HPC) in RAL 7031, 7045, 7046 and 9006, gloss level 3%





Fashion retailer Schustermann & Borenstein GmbH offers a unique selection of renowned national and international designer brands all over Europe. With rising sales in 27 countries, made almost exclusively via the internet, the company has simply outgrown its current premises, and had to look at expanding its facilities to cope with future growth. BestSecret, the company's E-commerce subsidiary, in particular is in need of larger premises, with continual need to grow and expand their facilities to cope with growing customer demand. For this reason, the company made the decision to relocate its headquarters to the newly developed commercial district of Grub in Poing near Munich, and build new administrative offices with adjoining logistics centre.

Prêt-à-porter – Fashion Façade for BestSecret

The history of the international fashion retailer Schustermann & Borenstein GmbH dates back to 1923. It was around this time that the two textile wholesalers, Hermann Schustermann and J.B. Borenstein set-up shop in Munich. They merged a few decades later and now rank among the leading international fashion retailers. This successful leading fashion retailer has grown from what it was in 1923 to what it is today, and exceeded the capacity of its current premises. To keep up with the growing demand and maintain future growth, the decision was made to relocate the business into a new purpose-built facility, that is larger and will be more efficient.

The new purpose built development in Poing will include a 1700 square metre area to house administrative and office staff and a 50,000 square metre area will provide warehousing and shipment facilities. The concept for the

design was provided by Heidelberger Büro io-consultants GmbH & Co. KG. As explained by building owner Sascha Krines, one of the fashion retailer's four managing directors: „Along with their experience in this sector, it was io-consultants' integrated handling of the logistics, architecture and IT sub-areas that impressed us as well as their professional approach to project management“.

Fashionable logistics hall

The logistics hall features a colourful Kalzip FC rainscreen system and has already created a visual highlight for the area. And despite not being the first choice material, it was the building owner and architect who selected the Kalzip FC system as it ideally connected the architectural, structural and economic advantages. The system's fast-to-install lightweight benefits provided greater flexibility on the build, allowing installation in multiple

directions and at any point on the facade. The innovative design and technical capabilities offered, allows individual panels to be removed and installed without compromising adjoining panels. „The short colourful and vertically laid panels also made it possible to create a closed area at the Poing logistics centre which is very much alive, just as the building owner desired,“ explains Dr. Karl-Heinz Schmidt from PGB Ingenieurgesellschaft mbH in Karlsruhe, which was involved in the façade planning.

The success of the project was thanks to the joint collaboration between the Kalzip specialists and Glammeyer + John Bausysteme GmbH & Co.KG in Porta Westfalica. The team worked closely together from the outset, both before and during installation, to achieve the desired finish and look.

Project manager Ronald Brockhagen praised the commitment of his team saying: „It was

necessary to vertically brace 16 specially produced panels of various heights and widths to compensate for the horizontally laid substructure. To achieve the required flat facade, each individual panel was laid in accordance with a layout diagram for which a combination of 250 and 500mm wide FC panels was provided with 125mm offset for every second cover cap. In addition to this, perforated panels were laid in front of the underlying window areas. Together the team achieved it successfully.

It clicked in just one step

The Kalzip FC rainscreen system can be fixed to any suitable substructure, in this case the existing support structure for the logistics hall was built using narrow ferroconcrete.

The Kalzip FC system was installed as a suspended facade with rear ventilation. This means that steel partitioning was first attached to the supports, into which 160 mm thick mineral wool with a 40 mm thick outside

webbing insulation was inserted. Due to the specified U-values, which require very low heat penetration coefficients, the top hat sections were designed with spacer fasteners, which thermally disconnect the partition wall.

This was followed by the installation of the horizontally laid modular click rails. With this system, gentle pressure from the outside is sufficient to press the panels into the modular click rails. This vario system installation with its special rail geometry enables a freely selectable direction for the installation of panels in the FC rainscreen system.

Thanks to the light clicking-in of all of the other system components as well, this assembly process saves on work time and is therefore particularly cost-effective. No additional means of attachment are required. The measuring is easily done using the pre-adjusted modular click rails. Each panel on the façade is secured by just one fixed point clamp to prevent slippage.

Outstanding colour stability

Various HPC (High Performance Coating) colour shades in pre-coated aluminium coils were used for the rollforming of the panels. RAL 7031, 7045, 7046 and 9006 with a 3% matt gloss level. The HPC coating system represents a further development to the polymer resin base, which is particularly distinguished by high ageing resistance and colour stability. It offers high resistance and is particularly suited for usage under aggressive and demanding climatic conditions with high UV radiation levels and also prevails in commercial districts.

The ageing resistance of paints is defined by a rating. Every paint starts with a rating of 10. The heavier the ageing, the lower the value. After 15 years, the Kalzip HPC coating system has a value of ≥ 8 , which is described as very good or barely visible. The same applies for colour stability. The value for this is $< 5\Delta E$ and thus indicates outstandingly stable behaviour. The guarantee for this HPC coating according to the manufacturer data is 15 years.



Summary

The Kalzip FC rainscreen system combines lightness, strength, durability, low maintenance and sustainability with the creative freedom to produce an outstanding architectural look and crisp clean lines that will last for many years. So versatile is the system that single panels can be replaced without having to disassemble the entire facade thanks to the one-click rail system that the panels are mounted to. The contemporary, visually stunning aesthetics achieved with the Kalzip FC rainscreen system is befitting of a top-class fashion retailer and one that will be the envy of neighbouring buildings.

From September 2015, the fashion house of Schustermann and Borenstein GmbH will operate from its new state of the art logistics facilities, setting new standards for those businesses looking to locate to this newly developed commercial district.



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