

High-speed doors with historical appearance

Active monument protection: At the BAUHAUS centre of expertise Munich Freimann, modern high-speed doors from EFAFLEX are adapted to old industrial facades

The building of the new BAUHAUS centre of expertise in the Euro industrial estate Munich Freimann is an exception amongst the listed buildings. The former repair centre Munich-Freimann was used by the railway between 1925 and 1995 to repair locomotives and suburban railway trains. It was an obligation for BAUHAUS to maintain the existing structure of the building as best possible. To give the façade the perfect appearance of the old industrial building, the planners chose high-speed folding doors EFA-SFT® from EFAFLEX. They conform to the highest technological standards, and therefore also to the sustainability concept of BAUHAUS AG.

“Our trust in the doors of EFAFLEX has grown from the long-standing partner-like collaboration with the company. The quality of the doors is crucial for us”, reports Steffen Walter, head of the construction and planning department of BAUHAUS. “For the entrance and exit to the Drive In Arena of our centre of expertise in Freimann, we must have doors that open and close very quickly. Due to the strict requirements of monument protection, the doors should be the same as the historic doors, in size and appearance.” A challenge for the construction department, planners and the door specialists. “EFAFLEX resolved this matter perfectly. The doors fit into the listed façade perfectly and provide the required opening and closing speed.”

Even a folding door several metres wide and tall, EFA-SFT® , reaches speeds of up to 2.5 m/s. In the interior area, this advantage ensures flawless sequences. The enormous speed when opening and closing the high-speed folding doors also helps to effectively save energy. The EFA-SFT® perfectly combines functionality and aesthetics. Due to the patented modular structure, it is easy to repair and low-maintenance. Particularly large doors are fitted with special floor stoppers, to additionally stabilise the closed wing in the middle area.

The EFA-SFT® is made of aluminium and steel, a combination at the highest quality standard. The supporting parts of the EFA-SFT® are made from galvanized steel sheet as standard. The door leaf is made of anodised, corrosion-free aluminium and is fitted with single pane acrylic glass, which lets lots of daylight into the building. Optionally, double glazed insulating glass guarantees excellent heat insulation with high-speed folding doors.

Doors in the F series are fitted with a robust pneumatic drive as standard, which proves itself umptein times, and has been developed to perfection. It effortlessly reaches a million load changes. If the customer has no pressurised air supply installed, the high-speed folding doors will be delivered with an electric motor on request.

The EFA-SFT® can be equipped with a comfortable remote lock. It can be operated from the switchgear cabinet or an external key switch. If necessary, the door can be unlocked from the inside with a lever and opened by hand. The horizontal folding movement of the high-speed folding door ensures that the full clearance height is completely clear. Doors in the F series protect against noise and drafts, save energy and impress with good heat and sound insulation properties. High-speed folding doors from EFAFLEX, which are primarily used in building closure, are a cornerstone of modern industrial architecture. Thanks to the extraordinary diversity of individual design, the high-speed folding door can be adapted to any façade.

With regards to the equipment options, the EFA-SFT® is the most diverse high-speed door by EFAFLEX. Wing separation, mullion arrangement and infills can be changed. The surface of the door leaf can be anodised in the colours of the

Eloxal table or powder coated in any RAL colours, according to the customer's wishes.

“We value the advantages that these doors offer us,” says Bernd Kiesel, Deputy Manager at the BAUHAUS Centre of Expertise in Freimann. “The doors don’t cause us any problems, and that is exactly what we enjoy during our day to day work here.” Bernd Kiesel also praises the laser scanners, which the doors are equipped with: “Thanks to this controller, the doors only open when vehicles move directly towards them, but not, when the normal cross and shunting traffic moves across the car park. In the heating period, this means great potential for energy saving.”

Combining sustainability and monument protection has become a challenge for the planning of the new centre of expertise, due to the high ceilings of the old industrial hall alone. Energy-efficient lighting and building technology plays a central role in the concept for Munich Freimann. Apart from a computer aided heating system, only LED lights have been installed. In the heated areas, all glazing will be replaced with modern double glazing. The roof was completely re-insulated. It will be heated with sustainable district heating. Staggered entrance doors and air curtains ensure that the hot and cold air exchange with the ambient air is minimised. As a result of all the environmental protection and energy saving measures, which were taken in the course of the renovation, the requirements of the energy saving ordinance were significantly exceeded, in spite of the monument protection and building regulation specifications. In the end, BAUHAUS was even able to achieve the standard “KfW Effizienzhaus 70” [Reconstruction loan corporation Efficiency house 70].