

User report

Thermally Insulated High-Speed Doors from EFAFLEX for GreenBuilding Certificate

Siemens Kirchheim has committed itself to sustainable building.

In 2004, the European Commission initiated the GreenBuilding programme. The concept plans to improve the energy efficiency and integration of renewable energies into non-residential buildings on a voluntary basis. Siemens AG in Kirchheim unter Teck has committed itself to sustainable building and has received the Green Building Certificate for new buildings on its site.

“We had to fulfil strict regulations for this certificate concerning how much we must reduce our energy costs,” explains Sven Bucher. He is responsible for the building projects on the site. “Thermal insulation plays a very important role in this. For this reason, we decided to use high-speed doors from EFAFLEX for our new buildings.”

Up to now, factory buildings have been responsible for a high level of consumption of water, energy and, as a result, raw materials, particularly in the industrial nations. With the “Green Buildings” scheme, the impact on humans and the environment should be reduced considerably.

Effective “Green Buildings” demand careful and systematic planning with regards the materials and components used during construction. The products of the Lower Bavarian specialists for high-speed industrial doors fulfil the selection parameters of the planners due to their fast operating speed and, particularly, due to their high level of thermal insulation. With a U value in accordance to DIN EN 13241-1 of up to 0.8 W/m²K and an opening speed of up to approx. 4 m/sec, they are the frontrunners on the market.

The particular challenge in developing the new door leaf sections was to guarantee the usability for high-frequency high-speed doors and for as many years of use as possible. In comparison to conventional doors, the requirement profile, particularly with regards load capacity, stability, dimensional accuracy and torsional strength, is considerably more demanding. EFAFLEX high-speed doors with a size of up to 8000 x 8000 mm are frequently used up to 150,000 times per year and move with speeds of up to approx. 4m/sec.

In total, 25 high-speed doors from EFAFLEX have been installed in the Kirchheim factory. Some of these doors were also integrated into existing buildings. The largest door was planned for the goods-in department. With a width of 5,000 mm and a height of 4,900 mm, the manoeuvring of articulated lorries and other large vehicles is possible without any problems.

EFAFLEX doors are also used inside the factory and in the airlock sections of the production halls. They prevent draughts in areas, in which employees work near doors or corridors which would cool down a lot if the doors were opened for longer periods of time. “We are very satisfied with the quality of the EFAFLEX doors. And when everything works on a product, then you always try to use doors from the same manufacturer,” says Sven Bucher. The new generation of high-speed spiral doors has been on sale for several years and is constantly being optimised in accordance with the requirements of customers. The planners at Siemens Kirchheim appreciate this innovative strength and flexibility. “Resin moulded transformers are produced in our factory. Most of our products are very individual, i.e. unique pieces,” says Sven Bucher, describing the connection between the company’s own products and those of the door supplier.

The resin moulded transformers manufactured for the distribution sector in the Energy Sector/Power Transmission Division of Siemens are installed into wind turbines, in German maglev systems, in tower blocks, ships and on offshore platforms.

Transformers have always been built at the Kirchheim site. After its construction in 1957, the factory traded under the name Trafo-Union in the late 1960s. From 1st October 1987, Siemens took over the production site. As the world leading supplier for energy distribution, the global corporation contributes to the

sustainable and responsible handling of electrical energy. With an integrated portfolio of medium-voltage and low-voltage energy distribution, Siemens facilitates the implementation of intelligent electricity grids, thus laying the foundations for green cities, energy-efficient infrastructures, buildings and industrial applications.

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