

fischer all-in-one facade solutions

# All-in-one systems for multifunctional facades

**The fischer facade systems business unit of the fischer Group of Companies offers innovative and high-quality all-in-one solutions for the secure and aesthetic installation of rear-ventilated facades. The company also offers a wide range of services, as the fischer specialists support planners and facade builders with consultation and calculation services from the briefing and installation stage across all construction phases until the project's successful completion.**

fischerwerke GmbH & Co. KG  
Corporate Communications

Klaus-Fischer-Straße 1  
72178 Waldachtal

Building envelopes must meet ever growing requirements. Rear-ventilated facades meanwhile have to fulfil increasingly complex requirements in terms of sustainability, safety, protection, air conditioning and a distinguished appearance. fischer facade systems guarantee a positive ecological balance through high energy savings and a consistent circular flow economy, a long service life plus the advantage of creative freedom.

## **Creative freedom and functionality**

The visible or concealed fischer fastenings are suitable for all standard cladding materials for rear-ventilated facades and fulfil every aesthetic requirement. The modern facade technology also provides a healthy indoor climate, as rear-ventilated rooms constantly dissipate the moisture from the structure and living spaces. The fischer facade systems provide additional benefits such as simple, easy and fast installation, low maintenance

requirements, a long service life, effective protection against weather conditions and high energy efficiency. In addition to a permanent and secure hold and efficient thermal insulation, the functional and technical advantages also include the option to install a fireproof barrier and non-flammable insulating material, integrated lightning protection through a conductive substructure as well as improved soundproofing.

### **A wide range of substructure solutions**

fischer's all-in-one system of compatible products with tested and approved individual components includes a comprehensive range of substructure solutions. With the acquisition of BWM Fassadensysteme GmbH from Leinfelden-Echterdingen in 2018, the portfolio of the fischer Group of Companies expanded considerably. fischer now offers various substructures to fasten rear-ventilated facades from a single source. The solutions range from visible fastenings for lightweight panels using rivets or drilling screws to hook solutions for facade cassettes as well as aesthetically appealing concealed fastenings with the fischer Zykon panel anchors FZP II. The comprehensive range for aluminium supporting structures features systems that enable extensive prefabrication, simple application and fast installation. These also include substructure solutions that have been specially tailored to the problem areas of rear-ventilated structures, such as variable systems and systems with thermal isolation to the benefit of improved energy efficiency and sustainability. The ATK 601 stand-off anchor construction fulfils high requirements for fully pre-insulated facades or for the renovation of ETICS systems with rear-ventilated facades and ZeLa brackets. Both supporting structures have been declared "certified passive house components" by the independent Passivhaus Institute certification body. The certificate contains all parameters (punctual thermal transmission coefficients) and documents the unique position of the supporting structures compared to

conventional wall constructions available on the market. The ATK 601 and the ZeLa bracket provide added benefits with their high planning reliability and broad range of applications.

### **The right solution for any fastening application**

The facade panels can be visibly fastened using rivets or drilling screws, while ceramic tiles can be fastened with brackets. Angled metal cassettes can be attached to the facade with bolt suspensions. The fischer undercut anchors provide a form-fit fastening without expansion pressure in the conical undercut drill hole and are concealed when viewed from the building's exterior. The undercut anchor system is completed by the well-engineered and compatible drilling and installation technology as well as additional accessories. Thanks to its broad range of undercut anchors, fischer is able to attach almost any type of cladding material to the facade. It is therefore possible to use facade panels made out of natural stone from a thickness of 20 mm, single-pane and laminated safety glass from a glass thickness of 8 mm, as well as ceramic tiles, fibre cement and HPL plates from a thickness of 8 mm. Individual panels or even all panels can subsequently be exchanged with ease through the use of hook-on profiles. Even reveal panels can be fastened easily and with a high degree of flexibility. The varied panel thicknesses can be compensated through the use of stand-off anchor types. This method also allows the realisation of an element facade as well as factory prefabrication.

The long-established technology of the fischer undercut anchors enables the bending stress of the panel to be reduced by up to 50 per cent compared to standard edge fixings (mandrel, kerf cut and/or plug mandrel fixings or bracket solutions) through the statically adjustable position of the anchor in the 1/5 point on the reverse of the panel. This achieves lower slab bending

moments and higher load-bearing capacities and allows more freedom during planning and execution, while better use can be made of the respective technical material properties. The optimised static system and increased breakout forces allow larger-sized panels of the same thickness to be used in comparison to edge fastenings. Thinner and therefore lighter panels can also be used, which are economical to purchase and transport, thereby making installation easier.

The fischer facade systems business unit works in close proximity to markets and customers, subsidiaries and local partners across the globe. SystemTec and BWM facade systems offer compatible solutions and all-in-one systems for a market segment of the future.

## **The fischer Group of Companies**

The fischer Group of Companies, headquartered in Waldachtal in Germany's northern Black Forest, generated sales of 872 million euro in 2020 with a worldwide staff of 5,200 employees. The family-owned company operates 50 subsidiaries in 38 countries and exports to more than 120 countries. It includes the five divisions: fischer fixing systems, fischer Automotive, fischertechnik, fischer Consulting and LNT Automation

fischer fixing systems is the technological market leader in key areas of fixing technology. fischer offers products that deliver technical perfection to a wide range of customers, from do-it-yourselfers to tradespeople to key account partners.

fischer Automotive manufactures high-quality parts for vehicle interiors. The company is highly competent in the plastics processing segment and is an important partner for the automotive industry. Its range of products includes air vents, cup holders, trays and multi-function components.

With its construction kits, fischertechnik is active in both the toymaking and the educational sector. fischertechnik is one of the last remaining toy makers to exclusively develop and produce in Germany.

fischer Consulting evolved from the competence developed in the company itself, which includes the fischer ProcessSystem with its central aim of permanent improvement for the ultimate benefit of the customer. fischer Consulting advises small and medium-sized businesses, government agencies and major companies on their path towards lean and efficient processes.

fischer Electronic Solutions develops and manufactures electronic solutions including product and system developments based on the latest technology as well as custom production orders processed in the company's own production facilities. As an experienced provider of development and production services for custom systems such as multi-touch solutions made of glass and the corresponding controller units, fischer Electronic Solutions forms the perfect link between the customer and the final product.

[www.fischer.group](http://www.fischer.group)

[www.fischer-international.com/en](http://www.fischer-international.com/en)

## **Contact partner**

**Katharina Maria Siegel**

Press Relations Officer fischer fixings

Telephone: +49 7443 12 – 4217

E-mail: Katharinamaria.Siegel@fischer.de