FECH
JET SYSTEM® FASSADENBAU

FOR OVER 25 YEARS
MADE IN GERMANY

FECH-JET-SYSTEM®

WINDOWS AND DOORS
FOR SANDWICH-STRUCTURED COMPOSITE

EXPORTPREIS BAYERN 2011
innovationspreis Bayern 2014
FENSTERBAUER DES JAHRES 2018
Bayerischer Staatspreis

FECH-FENSTERTECHNIK.DE

WINDOW INSTALLATION REVOLUTIONIZED

DESIGN PERFECTED

STRUCTURAL PHYSICAL PROPERTIES STREAMLINED

The Fech Window Engineering Company (Fech Fenstertechnik GmbH & Co. KG) located in the Swabian town of Buttenwiesen, Bavaria, Germany, was founded by me in 1989 and is an owner-managed family business with over 30 employees.

A major breakthrough was achieved by us in 2001 with the unique and patented ‚Fech-Jet-System" which has been developed through extensive work.

Our highest priority is a personalized customer service with the desire to achieve optimal results. Last but not least, we look forward to a high level of customer satisfaction resulting from our total committment to timeliness, quality and flexibility.

We have achieved great success in sandwich-structured composite and glass construction through the latest production technology. All components are exclusively manufactured in Germany and originate from reliable and dependable distributors across the local region.

Our new and innovative company building in Nordendorf, Germany, which we occupied during 2013 was constructed under the most current energy efficient optimization measures and is completely self-sufficient.

INNOVATIVE, ENVIRONMENTALLY FRIENDLY AND FUTURE-ORIENTED.

Werner Fech
Company Founder and Owner
Fech Fenstertechnik GmbH & Co. KG

Tobias Fech
CEO of the company
Fech Fenstertechnik GmbH & Co. KG

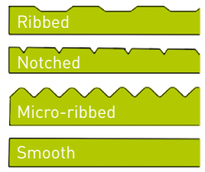
ECONOMIC, DESIGN-RELATED AND STRUCTURAL ADVANTAGES OF THE FECH-JET-SYSTEM®

The Fech-Jet-System® offers vis-a-vis conventional window constructions a number of superior advantages which in a striking manner have an affect upon the efficiency, workmanship, and cladding design in a striking manner.

These new-generation window types were specifically developed for the sandwich-structured composite and respond to the typical material characteristics and installation conditions of this increasingly popular lightweight construction.

The Fech-Jet-System® also takes into account the challenging demands for the cladding design, structural quality and the durability of the window structure.g.

The Fech-Jet-System® can be used for most commercially available sandwich-structured frames with a thickness from 60 to 180 mm
(2,3622 to 7,08661 inches).



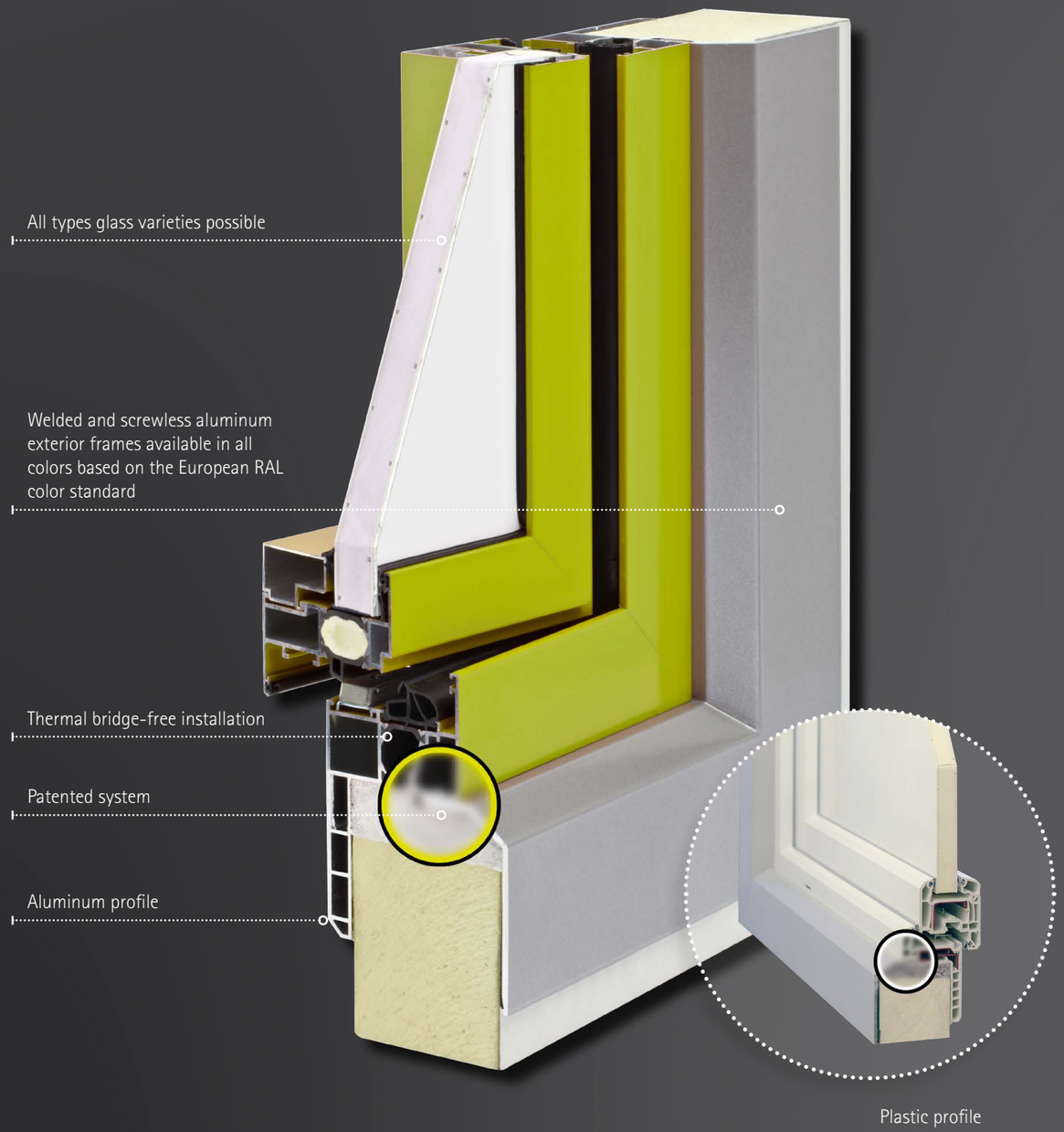
UNIQUE & PATENTED HIGHLIGHTS

- Easy window installation using the sandwich-structured composite
- Reduction of installation time as well as significant savings - There is no need for a sheet-metal frame using the sandwich-structured elements and no additional framing of the windows (neither on internal or external surfaces)
- High quality design- The conventional design principle of using bothersome screws or rivets as well as angled miter joint cuts has been eliminated
- Ideal freedom of design and flexibility- The welded aluminium exterior frame is available in every color based on the European RAL color standard
- Optimal insulation qualities and excellent tightness of the entire framework structure and corner segments allow for a longer service life- Fasteners and connectors which traditionally penetrated the window frame have been eliminated
- Retrofitting is easily accomplished

THE FECH-JET-SYSTEM® AS ALUMINUM OR PLASTIC PROFILE.

The Fech-Jet-System® can be used for exterior building walls as well as dividing walls, partitioned walls and concrete walls. The following window types with a thickness from 60 to 180 mm are possible:

- Side-hung , bottom-hung , sliding, slanted, and pivot windows with fixed glazings and integrated glazed cornerings
- Screwless outer gate frames
- Automatic doors
- Door system which open outward or inward (as an escape exit door) and available with complete safety features



FREEDOM OF DESIGN AND FLEXIBILITY WITH NUMEROUS COLORS

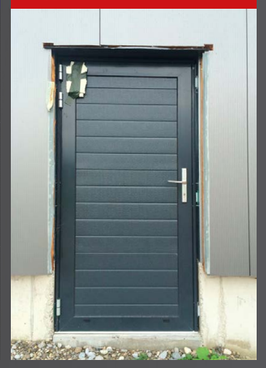
NO NEED FOR USING SCREWS AND RIVETS!

A very high level of design quality through the construction principle.
Annoying screws or rivets as well as miter cuts at angles have been completely eliminated.

The surface of the Fech-Jet-System® welded aluminum outer frame can be treated with all technically feasible color powder coatings and manufactured with all European RAL colors. On the one hand, this permits matching to the various manufacturer colors of the sandwich-structured elements and on the other hand, any color contrast to the window frame and the sandwich-structured elements.

Fech-Jet-System® Doors

No Fech-Jet-System® Doors



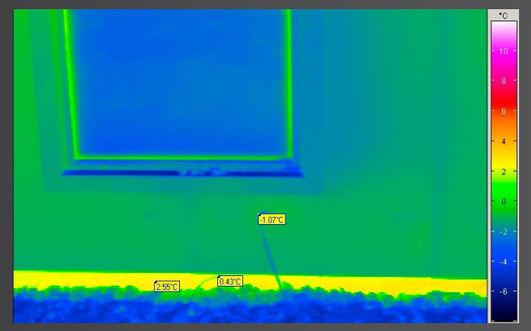
WIDEST RANGE OF SANDWICH-STRUCTURED PROFILES, ELEMENT GAUGES, AND WINDOW SURFACE AREAS

The Fech-Jet-System® is not dependent on a specific manufacturer and is compatible with most sandwich-structured facades. It does not matter whether the window/door opening was produced through design features or by subsequent cutting. Depending on the sandwich-structured profile, the section areas between the frame and sandwich-structured elements are reliably sealed by means of various shaped special seals. The window/door system is influenced by the variable aluminum exterior frame of the sandwich-structured elements in all common thicknesses of 60 to 180 mm as well as the most diverse window/door construction.

OPTIMAL PHYSICAL PROPERTIES HEAT INSULATION, AND IMPERMEABILITY

Foamed insulation cavities offer optimal heat insulation and enhance the entire window structure. Besides the complete sealed window frame construction, the patented joining technique for frames guarantees additional superior protection against unwanted draft and torrential rain.

Test reports from the "PfB Rosenheim"(Certified Testing Center for Construction Elements in Rosenheim, Bavaria, Germany) verify the high quality of air permeability (DIN EN 12207), impermeability against torrential rain under static pressure (DIN EN 12208), resilience against wind (DIN EN 12210), and against mechanical stress (DIN EN 13115). Tests based on EN 1027 show even at a water pressure of 800 Pa for a period of five minutes that no penetration of water could be determined on the reverse side of the window or the cutting edge of the sandwich-structured elements.



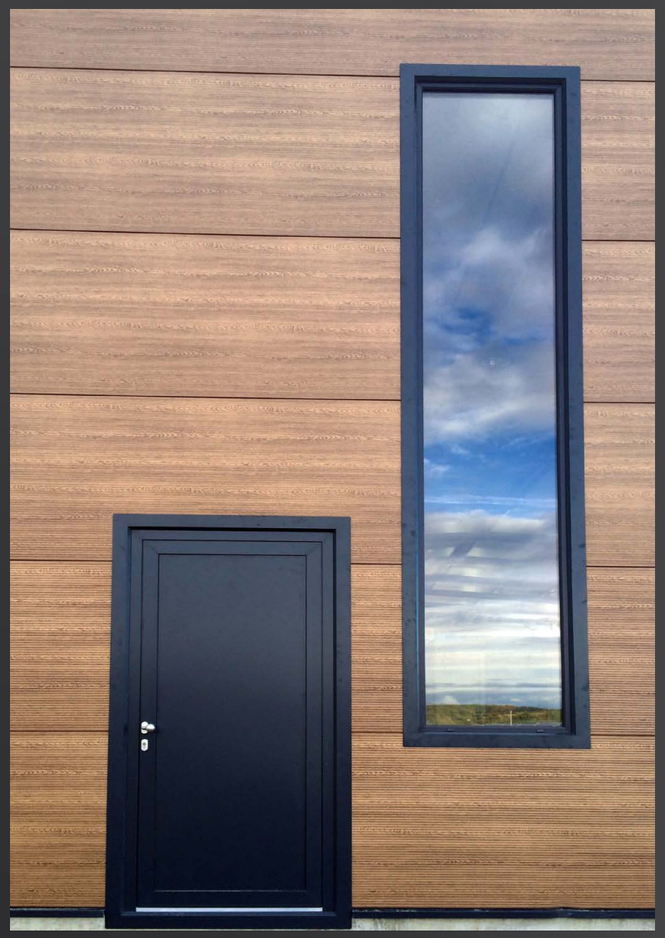
No thermal bridge in the connecting area of the window facade. The Fech-Jet-System® complies with all applicable standards for heat insulation and the new ‚EnEv" (German Enery Saving Regulation).

NOISE INSULATION

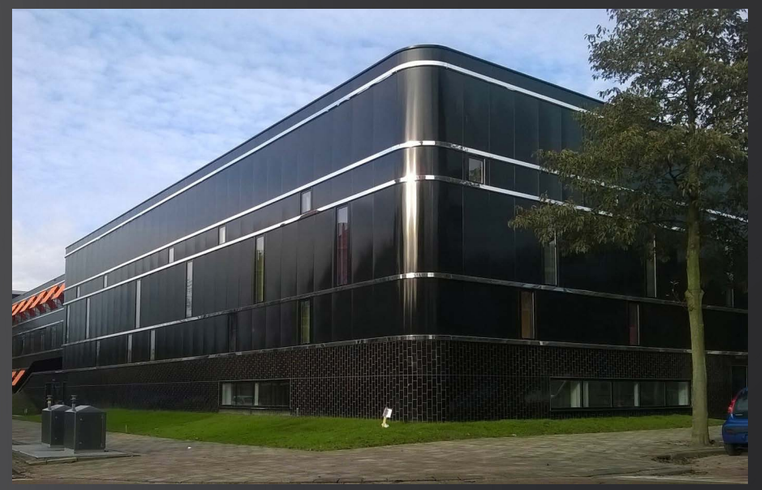
The noise insulation of the Fech-Jet-System® is significantly enhanced at standard values through various glaziers and fillings.

STATIK

The method of installation for the Fech-Jet-System® was checked time and time again based on structural factors. You do not need for installation any mounts, replacement, window sills or drip plates.

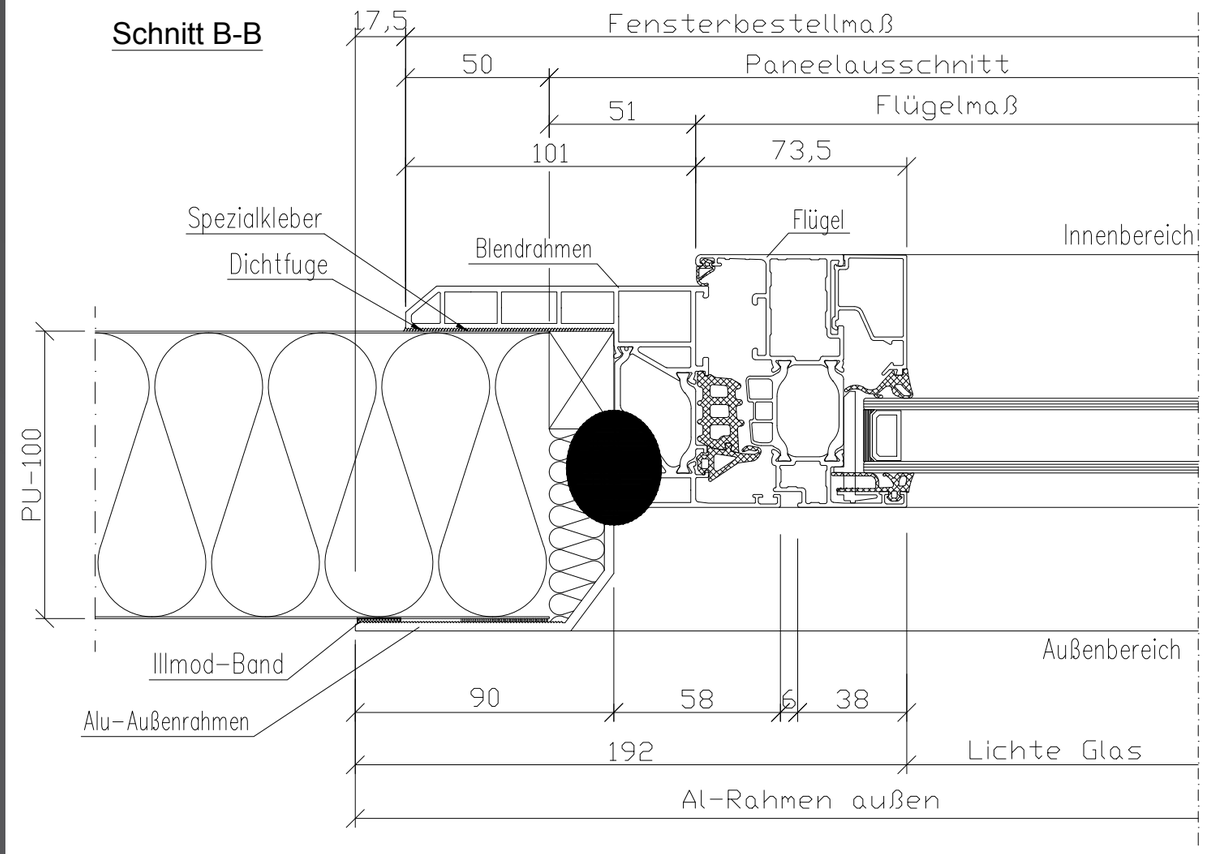


THIS IS ALL US



Horizontalschnitt Fech-Jet-System Fenster DK 100mm Paneel

Schnitt B-B



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MORE INFO AT FECH-FENSTERTECHNIK.DE

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