

**FIEGER**  
Louvre Windows



Our FGL-Units will soon be available as certified systems in accordance to EN 12101-2.



## **Fieger Louvre Windows – FLW**

... are double-glazed, louvre windows with thermally-broken extruded aluminium frames. The horizontal louvres rotate on pivot bearings, linked to a rack and pinion system, which ensures smooth, synchronized operation. Visual enhancement: when closed, the glass louvres form a flush surface with the outside of the window frame resulting in a markedly uniform appearance.

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### **Optimal ventilation**

With a maximum opening angle of 90 degrees, Fieger louvre windows provide a large free area of ventilation compared to standard window constructions. Their unique design enables them to be used in a variety of applications for the natural ventilation of buildings combined with good insulation qualities and better exploitation of natural light.

Our louvre windows are suitable for a wide range of applications, e.g. facades, conservatories, schools, staircases, production halls, atria and office buildings, to mention only a few.





A-R-S Sales Department Neu Anspach

Architect: Hartmann Planung GmbH, Hanau

Contractor: Sommer Fassadensysteme-Stahlbau-Sicherheitstechnik GmbH & Co. KG, Döhlau

Nurses' Residence, München-Grünwald

Architect: BMBW München Architekten BDA + Partner

Constructor: Gebr. Schneider GmbH & Co. KG, Stimpfac



Friedrich-List-School, Karlsruhe, Germany, 2003

Architect: Rossmann + Partner Engineer/Architect BDA,  
Karlsruhe

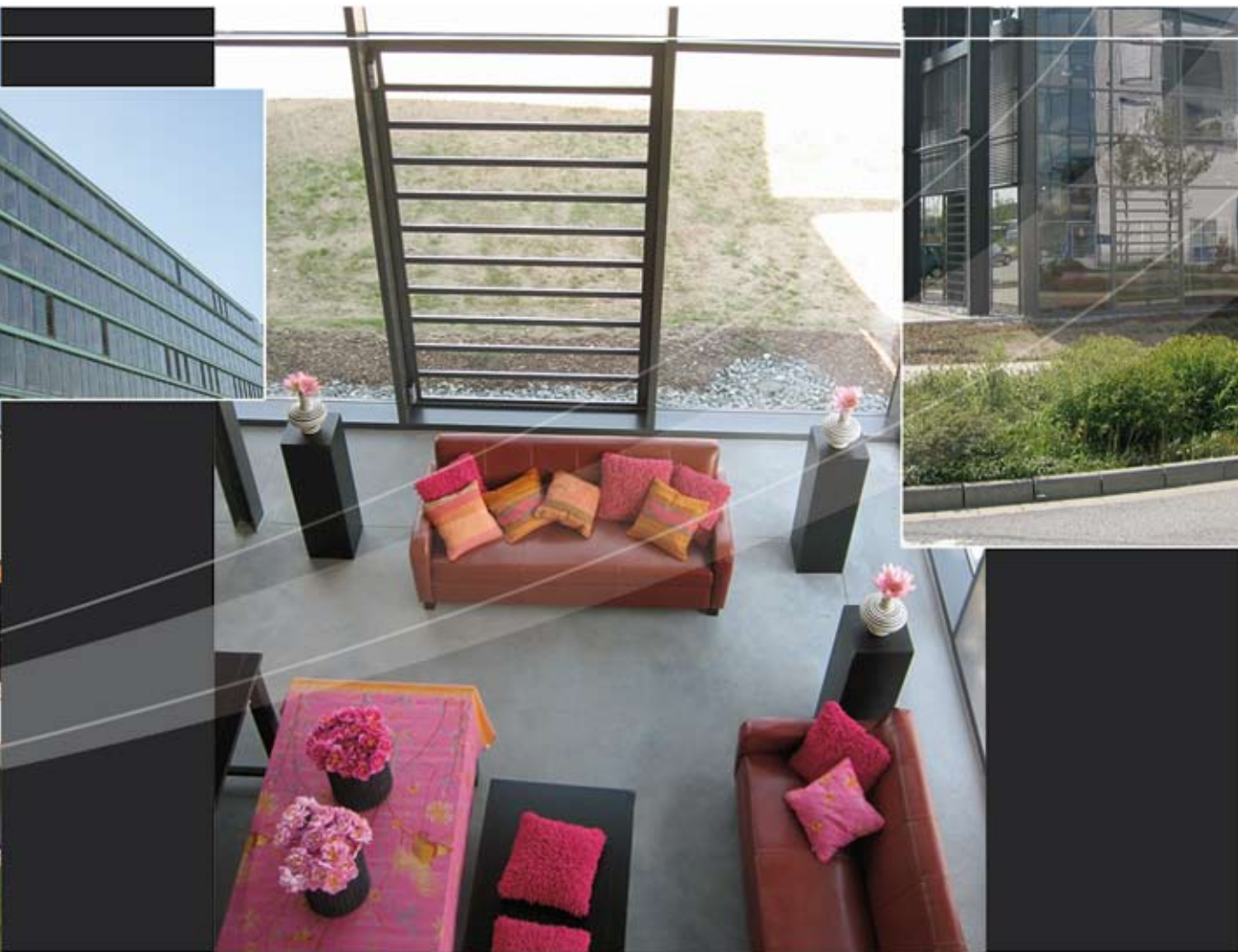
Contractor: Medicke Metallbau GmbH, Glauchau



Nursery Augsburg

GRUGA-Park Essen

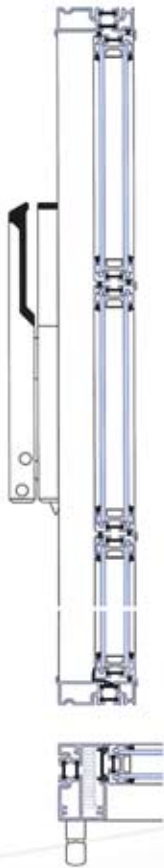
Architect: Architect Kaspar Kraemer, Köln  
Constructor: Helmut Fischer GmbH, Talheim



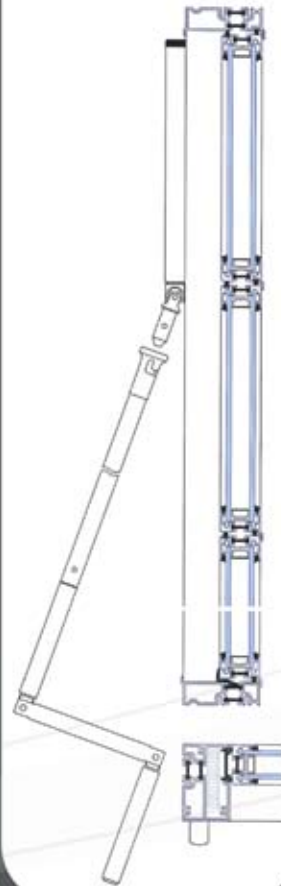
Apart Hirschberg  
Contractor: Goldbeck Bau GmbH



Hand lever



Gear mechanism



Crank handle  
(fixed or detachable)

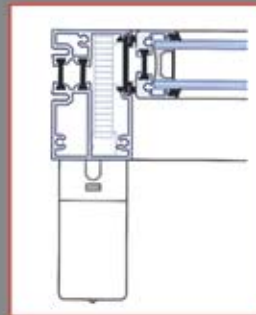


## Fieger SmoTec Louvre Windows – FLW SmoTec

Certified in accordance with EN 12101-2.

For natural smoke and heat exhaust ventilation Systems, NSHEVs.

Thermally broken aluminium frames. Flush-fitting frame and louvres on the outside. Frame depth is 65 mm, visible frame width is 40 mm vertically and 20 mm horizontally. Visible width of glazing frame is 20 mm. Louvres are fully adjustable by means of a maintenance free rack and pinion drive. Mechanical parts are concealed. Units are glazed, adjusted, tested for function and ready for installation.



Elektroantrieb





## **Fieger SmoTec Louvre Windows – FLW SmoTec**

Certified in accordance with EN 12101-2.

For natural smoke and heat exhaust ventilation Systems, NSHEVs.

In addition to general ventilation applications we can also supply units for specialist smoke control use. The new SmoTec System has been fully tested and certified to EN 12101-2.

Tests covering a broad range of criteria were carried out by the Institute of Materials Testing in North-Rhine-Westphalia and those of the Institute of Industrial Aerodynamics in Aachen. This included testing the performance of the louvre windows and their structural integrity in response to fire, as well as determining the aerodynamic ventilation characteristics for units of different sizes.

### **NRWG Certified**

This system is a certified NSHEV available in a variety of sizes and with different drives.





The test results with different sizes, systems and four different drives enable our customers to choose from an exceptionally wide range of NSHEV's for their required application.

Naturally, the tried-and-tested qualities of our FLW louvre windows remain unchanged. With the rack and pinion mechanism only a low stroke is required to completely open the units. As a result, our units provide the maximum ventilation free area in the shortest possible time. A perfect synthesis of visual and functional features, combined with the safety qualities of a certified system.





As an additional service, we can quote you for commissioning your SmoTec louvre windows. Maintenance contracts for routine inspections of the installations are available at all times.



System FLW SmoTec  
with electric drive 24V  
Type STG Beikirch FLA 1200

Dimensions: (L x W x D) 393 x 33 x 35 mm  
Shear force: approx. 1200 N  
Power consumption: approx. 0.75 A  
Housing: RAL 9006 (other colours avail. on request)



System FLW SmoTec  
with electric drive 24V  
Type GU Eltral S 24 LAM

Dimensions: (L x W x D) 210 x 36 x 75 mm  
Shear force: approx. 1200 N  
Power consumption: approx. 0.7 A  
Housing: anodised (other colours avail. on request)



System FLW SmoTec  
with electric drive 24V  
Type D + H LDF 100/60

Dimensions: (L x W x D) 425 x 26 x 25 mm  
Shear force: approx. 800 N  
Power consumption: approx. 0.85 A  
Housing: stainless steel (other colours avail. on request)



System FLW SmoTec  
with electric drive 24V  
Type WSS 6000

Dimensions: (L x W x D) 195 x 34 x 70 mm  
Shear force: approx. 1200 N  
Power consumption: approx. 0.65 A  
Housing: anodised (other colours avail. on request)



## Fieger Louvre Windows – FGL System

A new system from Fieger Louvre Windows – Fieger “all glass” louvre windows. Our goal in developing this system was to reinvent the conventional louvre window and give it a “new face”. In the design process we placed great emphasis on harmonising the well-proven elements of our FLW System with the newly developed components. The result is that we can now offer you a system which combines the functional advantages and the high quality of Fieger louvre windows with the optical advantages of a frameless louvre window.

### Applications

Installed in double-skin facades, louvre windows are the ideal solution for modern ventilation designs, reducing energy requirements in winter, supplying fresh air in summer and ensuring a comfortable atmosphere at all times. Smoke control is frequently a key issue in modern buildings and controllable ventilation is the preferred approach. A maximum ventilation free area combined with the short time required to open them make Fieger louvre windows particularly effective for the removal of smoke and gases in the event of fire.





“24 Hour Library“, Karlsruhe  
Contractor: Rupert App GmbH & Co., Leutkirch



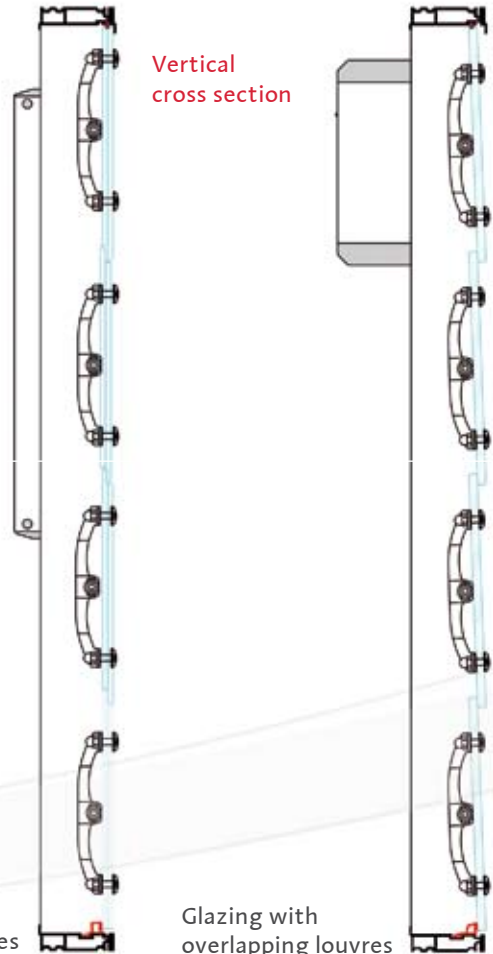
Each louvre has 2 holes on each side to fix the stainless steel brackets.



Fieger louvre windows can be operated with all conventional drives, e.g. the electric motor shown above.



The rack and pinion drive integrated in the window frame ensures smooth and synchronized operation.



Vertical cross section

Glazing with interlocking louvres

Glazing with overlapping louvres

Fieger Louvre Window in Australia.





## [www.louvrewindow.co.uk](http://www.louvrewindow.co.uk)

The Fieger Louvre Windows webpage offers visitors a wide variety of further information and, in particular, numerous downloads. The window drawings depicted there, as well as the tender and enquiry forms can be downloaded directly to your system.

You can also use the webpage for enquiries. There is an electronic enquiry form which indicates the details which are necessary for an estimate or for processing your order directly.

### Fieger Lamellenfenster GmbH (Germany)



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