

## iku® windows – the intelligent self cleaning window AUTOMATIC system

iku® windows is a aluminium sliding window system with two rails and double thermal breakage.

By adding the iku® box underneath the window sill it becomes an intelligent window.

### Functions

- Automatic opening and closing
- Integrated self cleaning mechanism
- Control of the shades – inside or outside
- Controlled ventilation

### At the touch of a button

- via Keypad directly at the window
- via Remote control
- via a building control system such as LON, EIB , via a computer

### Benefits

- automated self cleaning – time and cost saving
- added security – central survey possible – burglar protection
- Convenient
- Energy saving – through connection to heating an air condition
- Ideal also for senior and disabled people
- Controlled ventilation
- Control of integrate shading systems
- Space saving through sliding technology
- Driven rain proof

Nearly any size can be realised, standard sizes for office or residential buildings as well as window doors.

Slim profiles offer a unique design together which high functionality, which was awarded already several times.

Windows can be opened and closed as needed at the touch of a button on the window's keypad, by remote control, by telephone or the internet or can be controlled centrally though a bus wiring system. Additional sensors respond to rain, wind, high or low temperatures or excessively high CO<sub>2</sub> levels. Power can be supplied cost-effectively through photovoltaic cells using alternative technology.



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iku® windows AUTOMATIC windows think for themselves and can open and close automatically when necessary. The outside of the windows can also be cleaned automatically simply by opening and closing. Water and detergent are pumped from a container to the wiper lips. As the tank for the water and detergent is located inside the building, the fluid will not freeze even when the temperature falls below freezing. The windows can therefore be cleaned whatever the weather.

Alongside design and quality, criteria such as convenience and ease of operation, security and cost-effectiveness are now more important than ever in today's building construction. The cost-benefit aspect is an important criterion even at the planning stage of a building. Improved security and energy-, time- and, above all, cost savings, these are the deciding factors in building construction. When you consider that sliding windows are used almost exclusively throughout the world, then iku® windows are the logical consequence of this trend. Sliding windows are ideal for optimising space with no wings opening into the room to take up space.

Add to this the increasing importance of automated building systems. Fully automated buildings are no longer a distant vision but a fast approaching reality

iku® windows have exploited all the benefits of sliding windows and perfected these by attending to structural engineering, cleaning and design.

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### Test values

According to NORM B5300

Air permeability	Class 3
Driving rain resistance	Class 9A
Wind resistance	Class 5c

Airborne sound insulation following ÖNORM EN 20140-3:1995

Glass values:

Description	Soundproofing value (dB)	U value (W/m²K)
Isaphon 39/24-2.9	39	2,9
Sound- and heat-absorbing glass	38	0,9
Laminated security glazing 10/8/6	38	0,9
DIN 52290 security glazing	38	0,9

All panes are 24 mm thick.

Acoustic insulation  $R_w (C;Ctr) = 44(-2;-5)$ dB according to NORM EN ISO 717-1:1997

Thermal transmission coefficient

$U_w$  1,5W/m²K for double glazing  $U_g = 0,9$ W/m²K

$U_w$  1,7W/m²K for double glazing  $U_g = 1,1$ W/m²K

For further details please refer to [www.iku-windows.com](http://www.iku-windows.com)

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