



PATENTED TECHNOLOGY

Fixscreen® Mono AK^{EVO} & Fixvent® Mono AK^{EVO}

Windproof sun protection + insect resistance
(+ ventilation)

Fixscreen® Mono AK^{EVO} & Fixvent® Mono AK^{EVO}

RENSON® offers with the Fixvent® Mono AK^{EVO} and Fixscreen® Mono AK^{EVO} an aesthetical and comfortable solution which combines windproof sun protection, insect resistance and, in case of the Fixvent®, even ventilation. Both products can perfectly be combined with each other (within one specific project as well as within one certain space), thanks to their same 'look & feel' features. These products allow an easy and smooth overframe installation for window depths between 50 and 215 mm. Thanks to the patented Connect&Go®- and Click&Safe®-technology, an easy (dis)mounting of the screen tube can be guaranteed.

The box as well as the screen itself meet the needs of a high stability and consistency. On the one hand official tests (according to the STS52.0-norm) guarantee a minimal distortion of the box at high windloads at the window, and on the other hand the Fixscreen®-technology provides a tight and windproof screen up to 130km/h. Then there is the Smooth-technology, which provides the zipper guides of a patented wear-resistant layer and makes the screen go up and down smoothly and silently.

The Fixvent® Mono AK^{EVO} and Fixscreen® Mono AK^{EVO} offer herewith following combinations:

- **High thermal comfort:**
 - solid U-values up to 0,32 W/m²K (EXTREME-version)
- **High visual comfort:**
 - control of incoming light
 - maximal see-through to the external side even with the screen completely down
- **High acoustic comfort:**
different acoustic levels available offering a solution to every situation
 - Fixvent® Mono AK^{EVO}
 - standard-version: up to 40 (-1;-4) dB
 - ULTRA-version: up to 45 (-1;-5) dB
 - EXTREME-version: up to 48 (-2;-5) dB
 - Fixscreen® Mono AK^{EVO}: up to 52 (-2;-5) dB
- **High aesthetical finish:**
 - hidden installation with a maximal respect for the architecture: can be installed on aluminium, wood, uPVC windows in all possible window depths
 - hidden weld seam at the height of the bottom bar
 - large screen surfaces possible: up to 21 m² (Fixscreen® Mono AK^{EVO} coupled in two parts with 2 motors)
- **High physical comfort (Fixvent® Mono AK^{EVO}):**
 - self-regulating flap: natural ventilation without any draft
 - controllable airflow: manual, with rod or motorized
 - incoming air guided in upwards position to ensure a comfortable indoor climate
= i-Flux® technology: optimal comfort, minimal energy loss



Fixscreen® Mono AK^{EVO} & Fixvent® Mono AK^{EVO}



Fixvent® Mono AK^{EVO}

- Ideal solution for new-build, (large) renovations and projects
- Constant supply of fresh and healthy air: self-regulating as from 2 Pa
- 3 levels of sound absorption in open position:
 - Fixvent® Mono AK^{EVO}: up to 40 (-1;-4) dB
 - Fixvent® Mono AK^{EVO} Ultra: up to 45 (-1;-5) dB
 - Fixvent® Mono AK^{EVO} Extreme: up to 48 (-2;-5) dB



Fixvent® Mono UT^{EVO}

- Especially developed for utility buildings in which both the natural air supply and mechanical extraction are located in the same room
- Ideal solution for rooms with a high occupancy (as class rooms, offices, ...)
- Constant higher level of basic ventilation: self-regulation as from 10 Pa
- 2 levels of sound absorption in open position:
 - Fixvent® Mono UT^{EVO}: up to 40 (-1;-4) dB
 - Fixvent® Mono UT^{EVO} Ultra: up to 45 (-1;-5) dB
- No visual difference with Fixvent® Mono AK^{EVO}



Fixscreen® Mono AK^{EVO}

- Ideal solution for new-build, (large) renovations and projects
- Easily combinable with Fixvent® Mono AK^{EVO}: same look and feel
- Sound absorption up to 52 (-2;-5) dB

Guarantee	
5 year guarantee	Against any defects occurring during normal use and maintenance
7 year guarantee	Fixscreen®- technology : zip remains in side channel
10 year guarantee	concerning the coating of aluminium elements
Guaranteed wind resistance	130 km/h (wind class 3) (screen placed in closed position before a window construction)

For further details: see the warranty certificate

Fixvent® Mono AK ^{EVO}	Small	Medium	Large	X-Large	XX-Large
Airflow					
Equivalent Area					
Fixvent® Mono AK ^{EVO}			18324 mm ² /m		
Fixvent® Mono AK ^{EVO} ULTRA			4836 mm ² /m		
Fixvent® Mono AK ^{EVO} EXTREME			2800 mm ² /m		
Fixvent® Mono UT ^{EVO}			19724 mm ² /m		
Fixvent® Mono UT ^{EVO} ULTRA			4836 mm ² /m		
Q at 1 Pa					
Fixvent® Mono AK ^{EVO}			12,8 l/s/m		
Fixvent® Mono AK ^{EVO} ULTRA			3,7 l/s/m		
Fixvent® Mono AK ^{EVO} EXTREME			2,1 l/s/m		
Fixvent® Mono UT ^{EVO}			15,5 l/s/m		
Fixvent® Mono UT ^{EVO} ULTRA			3,7 l/s/m		
Comfort					
Sound reduction $D_{new}(C;C_{tr})$ in open position (screen up)					
Fixvent® Mono AK ^{EVO}	33(0;-2)dB	35(0;-3)dB	36(-1;-4)dB	37(-1;-4)dB	40(-1;-4) dB
Fixvent® Mono AK ^{EVO} ULTRA	n.a.	38(0;-2)dB	40(-1;-4)dB	43(-1;-4)dB	45(-1;-5)dB
Fixvent® Mono AK ^{EVO} EXTREME	n.a.	43(0;-3)dB	43(0;-3)dB	46(-1;-4)dB	48(-2;-5)dB
Fixvent® Mono UT ^{EVO}	33(0;-2)dB	35(0;-3)dB	36(-1;-4)dB	37(-1;-4)dB	40(-1;-4) dB
Fixvent® Mono UT ^{EVO} ULTRA	n.a.	38(0;-2)dB	40(-1;-4)dB	43(-1;-4)dB	45(-1;-5)dB
Technical specifications					
Self-regulating at 2Pa	yes (UT-version at 10 Pa)				
Thermally broken	yes				
U-value (W/m ² K)					
Fixvent® Mono AK ^{EVO}	1,47	0,98	0,80	0,77	0,72
Fixvent® Mono AK ^{EVO} ULTRA	n.a.	0,70	0,55	0,46	0,41
Fixvent® Mono AK ^{EVO} EXTREME	n.a.	0,62	0,47	0,38	0,32
Fixvent® Mono UT ^{EVO}	1,47	0,98	0,80	0,77	0,72
Fixvent® Mono UT ^{EVO} ULTRA	n.a.	0,70	0,55	0,46	0,41
Airflow leakage in closed position	< 15% at 50 Pa				
Insect mesh	yes				
Control					
Screen	motor control				
Ventilation flap	manually, rod, motor				
Dimensions					
Box					
Box height (mm)	132				
Box width (mm)	167	197	227	257	287
Compatible window depths (mm)	50-94	95-124	125-154	155-184	185-215
Screen: max. WxH (mm)+max. surface					
Single (1 screen - 1 control)	4000 x 3000 (12 m ² for motor control)				
Coupled (2 parts - 2 motors)	6000 x 3000 (18 m ²)				
Bottom bar (D x H) (mm)	30 x 57				



Outer view Fixvent® Mono AK^{EVO}



Outer view Fixscreen® Mono AK^{EVO}



Detail bottom bar (integrated seam)

Fixscreen® Mono AK ^{EVO}	Small	Medium	Large	X-Large	XX-Large
Comfort					
Sound reduction $D_{new}(C;C_{tr})$ (screen up)	47(-1;4)dB	50(-1;-3)dB	50(-1;-3)dB	50(-1;-3)dB	52(-2;-5)dB
Technical specifications					
Thermally broken	yes				
U-value (W/m ² K)	0,92	0,53	0,54	0,54	0,55
Insect mesh	yes				
Control					
Screen	motor control				
Dimensions					
Box					
Box height (mm)	132				
Box width (mm)	167	197	227	257	287
compatible window depths (mm)	50-94	95-124	125-154	155-184	185-215
Screen: max. WxH (mm)+max. surface					
Single (1 screen - 1 control)	4000 x 3500 (14 m ² for motor control)				
Coupled (2 parts - 1 motor)	6000 x 3000 (18 m ²)				
Coupled (2 parts - 2 motors)	6000 x 3500 (21 m ²)				
Bottom bar (D x H) (mm)	30 x 57				



RENSON® reserves the right to make technical changes to the products shown. The latest brochures may be downloaded from www.renson.eu

RENSON® Export Department • Tel. +32 (0)56 62 71 11 • export@renson.net

RENSON® Sunprotection-Screens NV
IZ 1 Flanders Field • Kalkhoevestraat 45 • B-8790 Waregem
Tel. +32 (0)56 62 65 00 • Fax +32 (0)56 62 65 09
export@renson.be • www.renson.eu

RENSON® Fabrications LTD
Fairfax Units 1-5 • Birchholt Road • Parkwood Industrial Estate • Maidstone • Kent ME15 9SF
Tel. 01622/754123 • Fax 01622/689478
info@rensonuk.net • www.renson.eu



Creating healthy spaces