AIRLA

AÉRAS

Products

Product Range

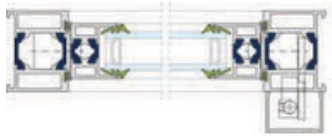
AIRLA
AÉRAS

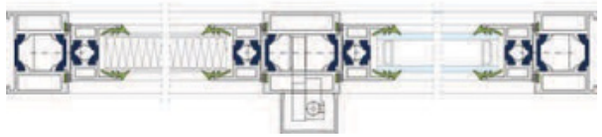
AIRLA

AÉRAS

TGL ISO

The Aeras window system, a well-established and classic design, features louvre blades that are framed all around and a significant amount of glass. This design incorporates a thermally broken frame, ensuring it effectively fulfills the most stringent demands for thermal insulation, aesthetics, functionality, and security.





Football Stadium Fürth, Germany

AÉRAS

NSHEV DIN EN 12101-2:2003

Aerodynamically effective opening area	as per calculation
Functional safety	RE 1000
Functioning under load	SL 0
Functioning in low temperatures	T (-20)
Stability under wind pressure	WL 3000
Resistance to heat	B 300-E

CERTIFICATION

AS2047	Water Penetration Test	600pa Subject to Glass
	U-value	Make-Up Subject to Glass
	SHGC	Make-Up Subject to Glass
	Acoustics	Make-Up

POSSIBLE SIZES

- Minimum frame width: 300 mm
- Maximum frame width: 2000 mm (wider elements only with division by middle post)
- Slat height variable: 120 to 400 mm
- Variable slat height: 120 to 245 mm (NSHEV)

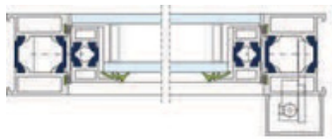
Penkenbahn Mayrhofen, Austria

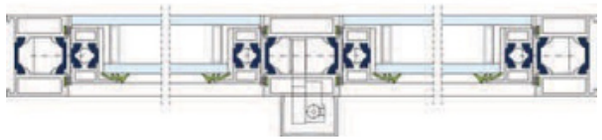
AIRLA

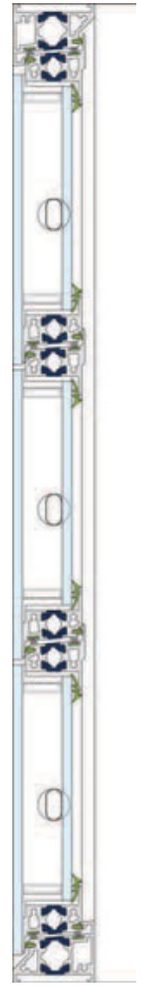
AÉRAS

STG ISO

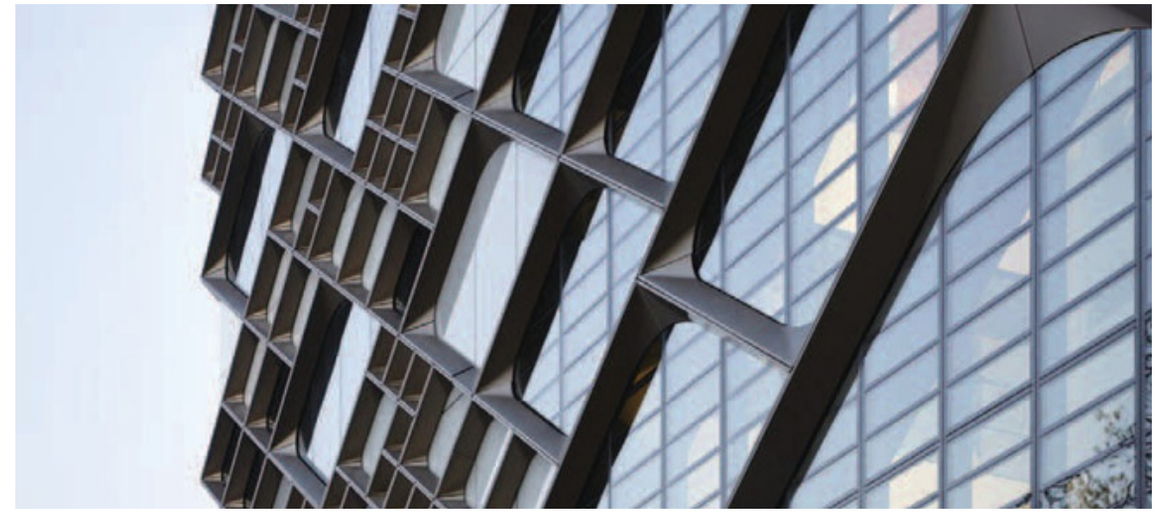
The Aeras louvre window stands out with its external structural glazing optics crafted from stepped-insulated glass. This structurally glazed louvre provides an all-glass appearance from the outside. Drawing inspiration from the classic louvre window design, but with a minimized frame, it is particularly well-suited for integration into glass Façades.







Deakin University Burwood, Australia



University of Sheffield Sheffield, United Kingdom

AÉRAS

NSHEV DIN EN 12101-2:2003

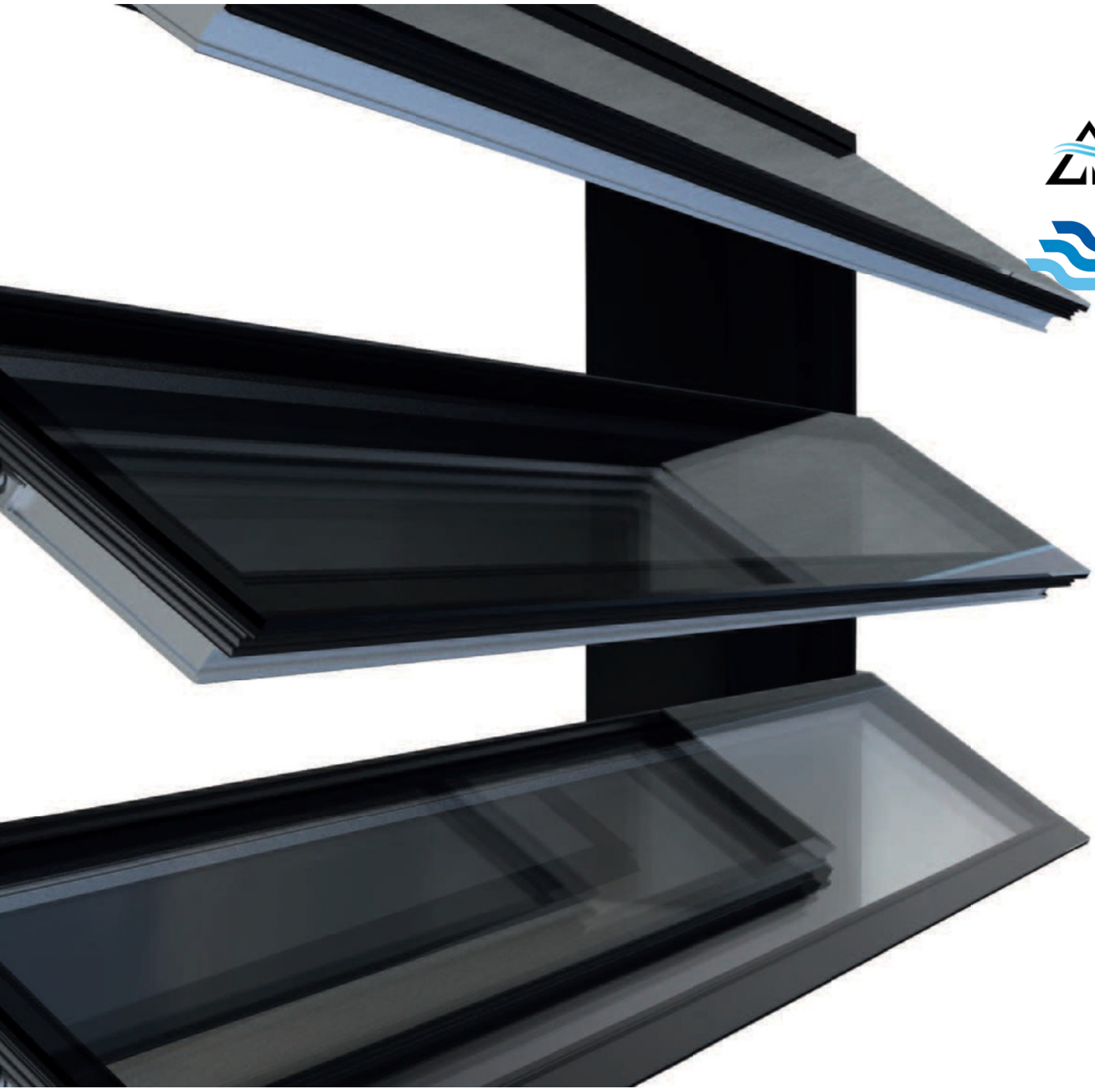
Aerodynamically effective opening area	as per calculation
Functional safety	RE 1000
Functioning under load	SL 0
Functioning in low temperatures	T (-20)
Stability under wind pressure	WL 2500
Resistance to heat	B 300-E

CERTIFICATION

AS2047	Water Penetration Test	600pa Subject to Glass
	U-value	Make-Up Subject to Glass
	SHGC	Make-Up Subject to Glass
	Acoustics	Make-Up

POSSIBLE SIZES

- Minimum frame width: 300 mm
- Maximum frame width: 2500 mm (wider elements only with division by middle post)
- Slat height variable: 120 mm to 400 mm

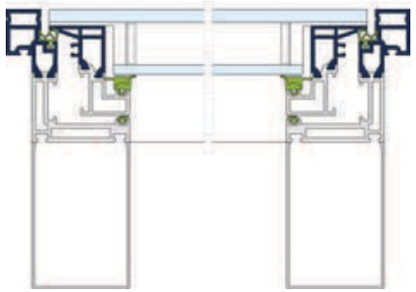


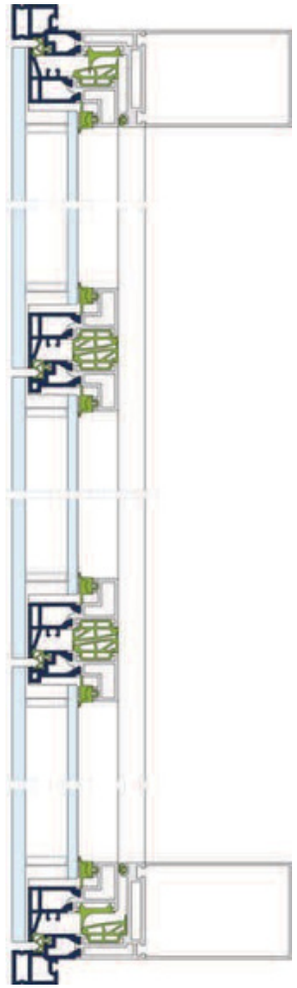
AIRLA

AÉRAS

EAL

Introducing the Aeras EAL louvre, a breakthrough in window technology designed for the evolving Australian market.With a structurally glazed, stepped-insulated glass design and a thermally broken frame, it offers an all-glass look with optimal thermal performance. Versatile and adaptable, it can accommodate double or triple glazed insuated glass units (IGUs)





FIBA Headquarter Mies, Switzerland

Alexander Fleming School Stuttgart, Germany

AÉRAS

NSHEV DIN EN 12101-2:2003

Aerodynamically effective opening area	as per calculation
Functional safety	Re 1000
Functioning under load	SL 0 T
Functioning in low temperatures	00 WL
Stability under wind pressure	2500 B
Resistance to heat	300-E

CERTIFICATION

AS2047		
	Water Penetration Test	1000pa Subject to Glass
	U-value	Make-Up Subject to Glass
	SHGC	Make-Up Subject to Glass
	Acoustics	Make-Up
AS4284	Water Penetration Test	1500pa
EN12101-2	NSHEV	

DIMENSIONS

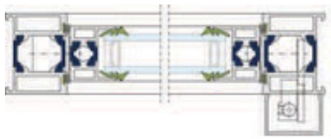
Frame Width	min. 400mm up to 2500mm
Frame Height	min. 370mm up to any height
Louvre Blade Height	min. 275mm up to 500mm

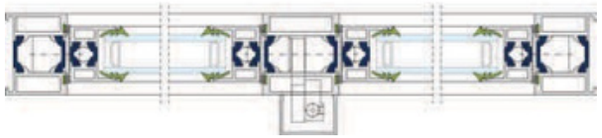
AIRLA

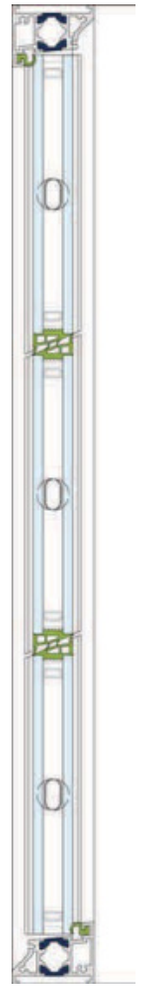
AÉRAS

GG ISO

Introducing the Aeras GG Iso louvre window, a premium offering that redefines the traditional system with an emphasis on extensive external glass visuals. By eliminating conventional horizontal blade profiles, it amplifies the glass surface area, thereby enhancing its visual appeal. This design approach positions the Aeras GG Iso louvre window as an exceptional choice for flawless incorporation into all-glass façades.







Augustiner Monastery Erfurt, Germany

AÉRAS

NSHEV DIN EN 12101-2:2003

Aerodynamically effective opening area	as per calculation
Functional safety	RE 1000
Functioning under load	SL 0
Functioning in low temperatures	T (-20)
Stability under wind pressure	WL 3000
Resistance to heat	B 300-E

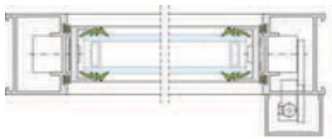
Folkwang School of Musik Essen, Germany

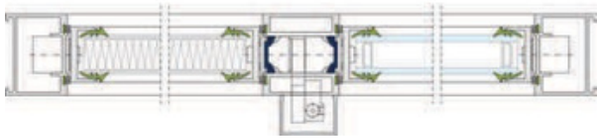
AIRLA

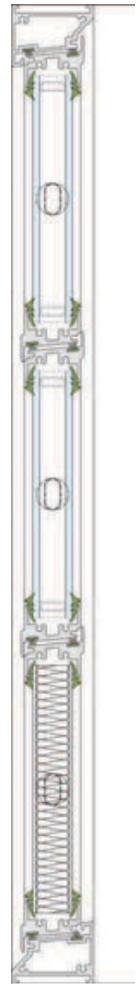
AÉRAS

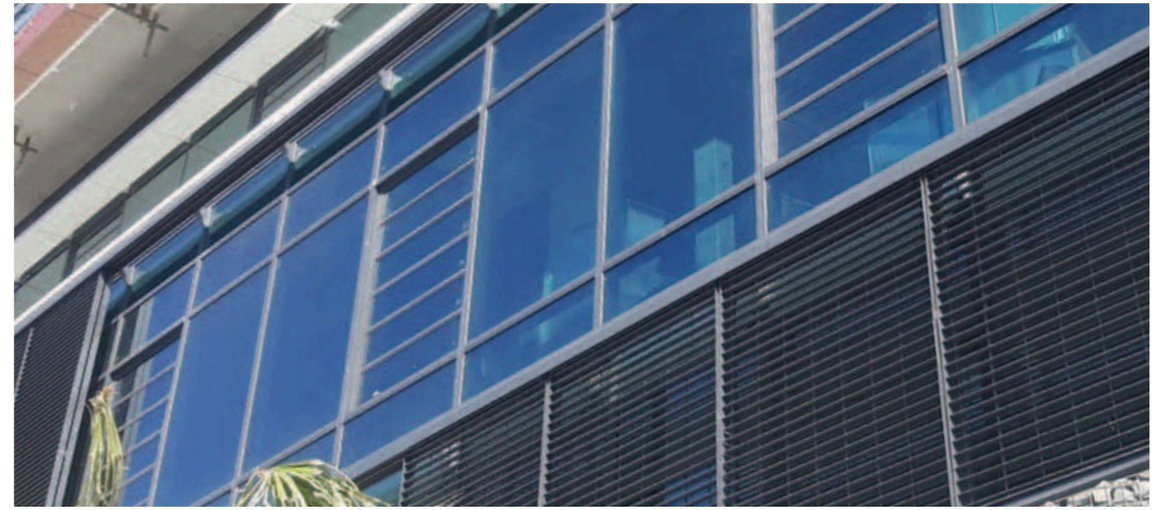
NTL

Introducing the Aeras NTL Iso louvre window, a high-quality and time-tested non-thermally broken version. The Aeras louvre window system, with its captive glazed blades, is distinguished by its high glass content. The NTL Iso draws inspiration from the classic louvre window, but its frames and blades are crafted from non-insulated, extruded aluminium profiles.









Shellharbour Civic Centre Shellharbour City, Australia

AÉRAS

NSHEV DIN EN 12101-2:2003

Aerodynamically effective opening area	as per calculation
Functional safety	RE 1000
Functioning under load	SL 0
Functioning in low temperatures	T (-20)
Stability under wind pressure	WL 3000
Resistance to heat	B 300-E

CERTIFICATION

AS2047	Water Penetration Test	600pa Subject to Glass Make-Up
	U-value	Subject to Glass Make-Up
	SHGC	Subject to Glass Make-Up
	Acoustics	Make-Up

POSSIBLE SIZES

- Minimum frame width: 300 mm
- Maximum frame width: 2000 mm (wider elements only with division by middle post)
- Slat height variable: 120 to 400 mm
- Variable slat height: 120 to 245 mm (NSHEV)

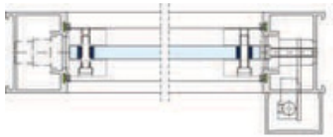
University of Technology Sydney, Australia

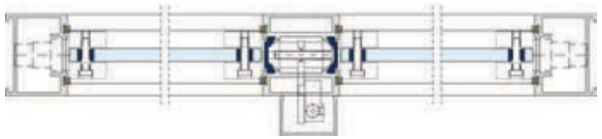
AIRLA

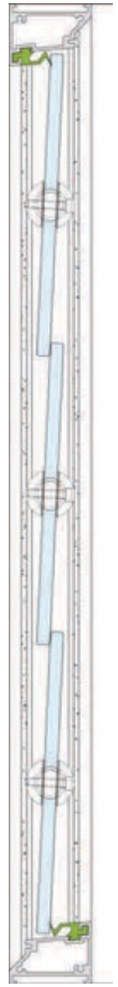
AÉRAS

GG OL

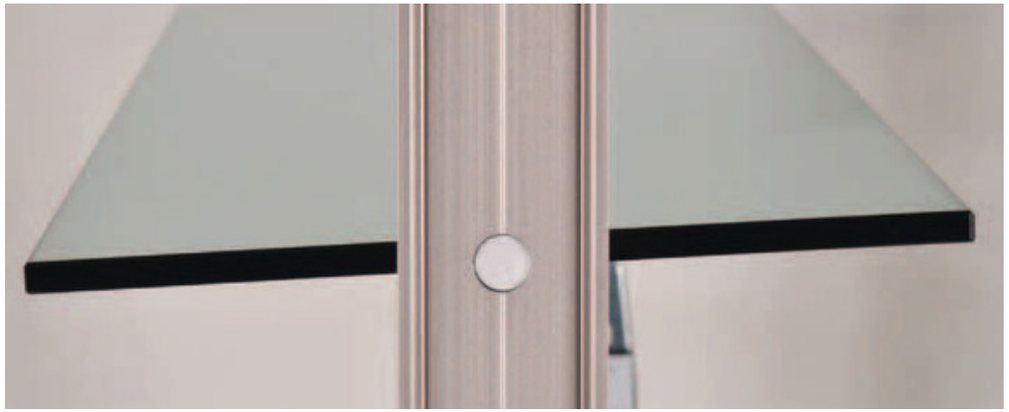
Introducing the Aeras GG OL louvre window, a non-insulating system designed for 6, 8, 10 or 12mm single glass. With its special filigree holding elements and scale-like overlapping of the glass edges, it's particularly well-suited as a second skin. The point-fixed glass panes deliver impressive all-glass optics.







GG Overlapping



Senior Center Allermöhe, Germany

AÉRAS

NSHEV DIN EN 12101-2:2003

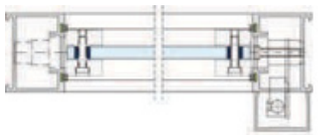
Aerodynamically effective opening area	as per calculation
Functional safety	RE 1000
Functioning under load	SL 0 T
Functioning in low temperatures	00 WL
Stability under wind pressure	1500 B
Resistance to heat	300-E

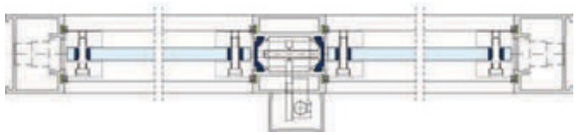
AIRLA

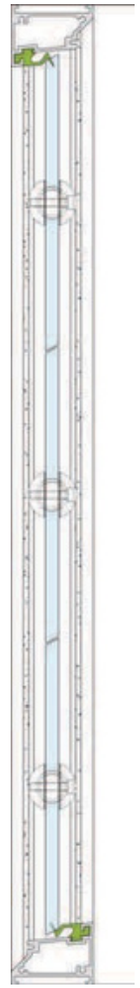
AÉRAS

GG ST

The Aeras GG BE louvre window, a non-insulating system, sets itself apart with special filigree holding elements and the overlapping of horizontal glass edges polished to a 30° mitre. This system is not only suitable for use as a second skin but also, in a special watertight version, for facades. The point-fixed all-glass panes also create a stunning effect as room dividers within buildings.







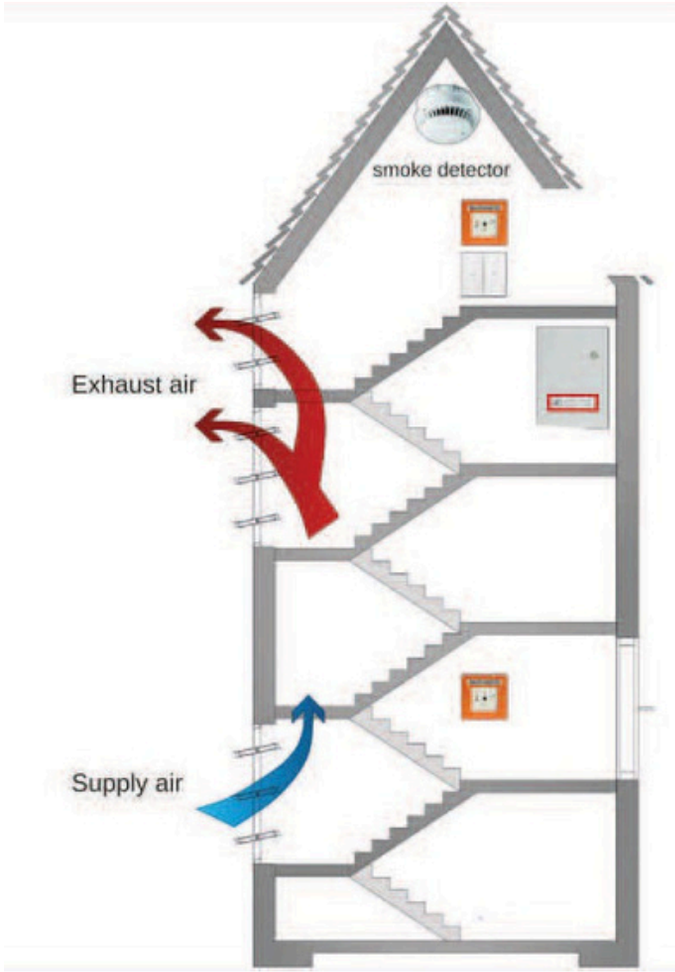
Deichtor-Center Hamburg, Germany

AÉRAS

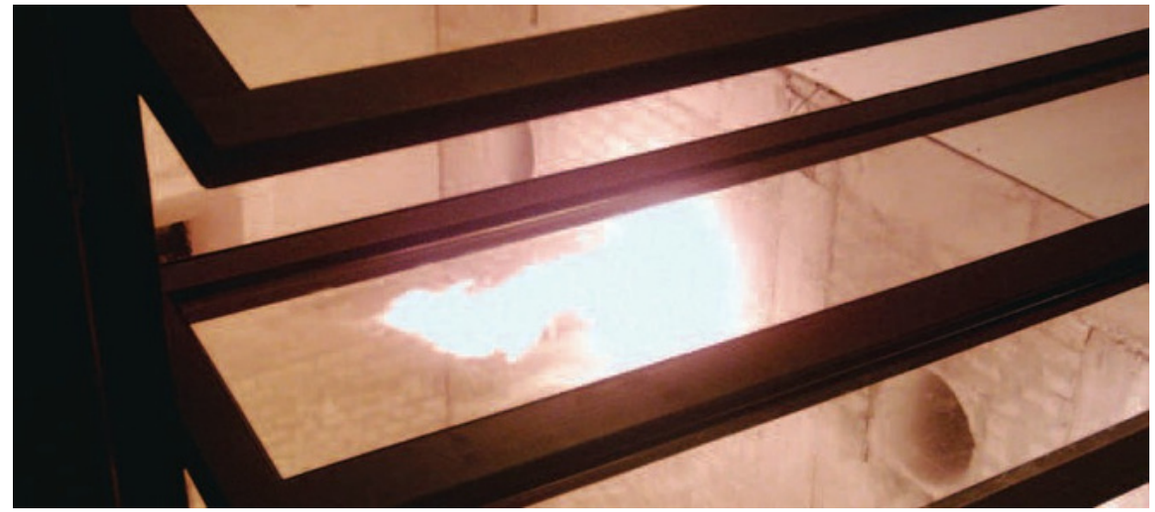
NSHEV DIN EN 12101-2:2003

Aerodynamically effective opening area	as per calculation
Functional safety	RE 1000
Functioning under load	SL 0 T
Functioning in low temperatures	00 WL
Stability under wind pressure	1500 B
Resistance to heat	300-E

Our windows are convincing not just because of their attractive optics and high technological standards, but they also make crucial contributions to the safety of the building. We provide all-round solutions for smoke and heat venting systems (SHEV) with natural smoke and heat vents (NSHEV). Our louvre systems can be adapted flexibly to the area of installation and combine the highest safety with first-class ventillation comfort. For use in NSHEV ventillation systems, the entire louvre system is verified and certified as per DIN EN 12101-2.



Smoke and heat drainage in the stairwell



AÉRAS

If the air stays away...

... being ahead of time can save lives! Although the highest standards for safety are ascertained and implemented for buildings today, many human deaths are caused by fire. The cause of death is not the fire itself, but suffocation by flue gas poisoning. Even the consequential damage to the survivors of this type of poisoning is not insignificant. Aeras louvre systems are the most suitable because of their constructive properties and the resulting functionality and ensure an efficient discharge of flue gas as per the latest standard.

This helps to save lives!

Our service

- Advice on planning and projection of SHEV and NSHEV systems
- Generation of object-related tendering documents
- Making layout plans with specifications on cable length and cable cross-section
- Setting up the system as per building law requirements
- Maintenance service

Protection objectives of a SHEV system

- Personal protection: keeping the rescue paths free of smoke
- Environmental protection: reductionof environmental damage
- Material asset protection: smoke-free maintenance for extinguishing, retaining the basic building structure

Convince yourself of our patented Aeras development: The FailSafe drive. This enables the windows to open or close automatically and independantly if the external voltage supply fails or is intterrupted, thus guarenteeing maximum safety.

Electrical or pneumatic operation for daily ventilation and smoke extraction as NSHEV as per DIN EN 12101-2

University Düsseldorf Campus Derendorf, Germany

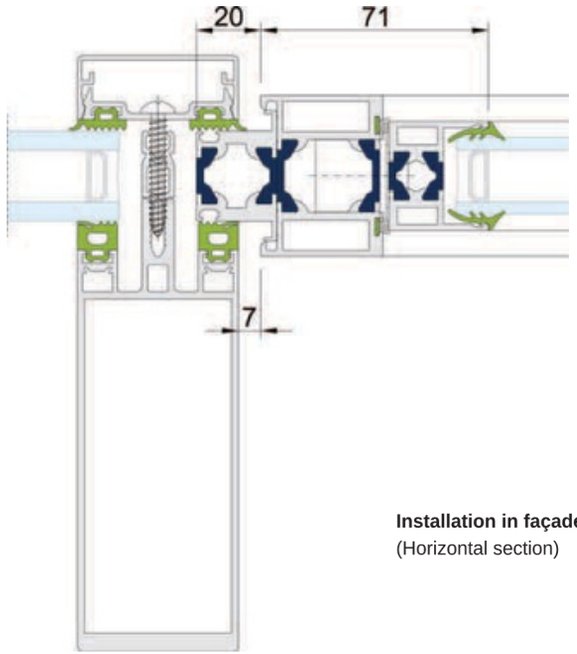
AÉRAS

Operating Versions

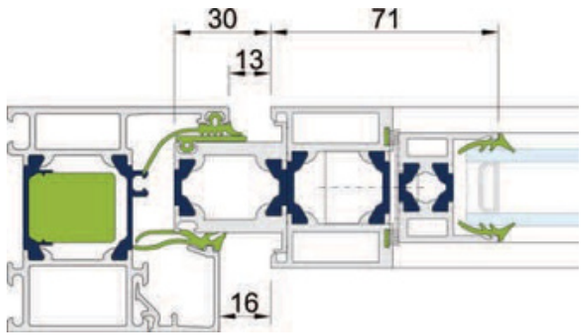
- manual (hand lever, end gear mechanism with crank handle)
- power-operated (electric drives 24V or 230V)
- pneumatically (compressed air cylinder)

Manual operation for ventilation

We provide you with products and services from a single source. Be it mountng support or complete installation - you will benefit from our service. Among others, heres some of the installation possibilities.



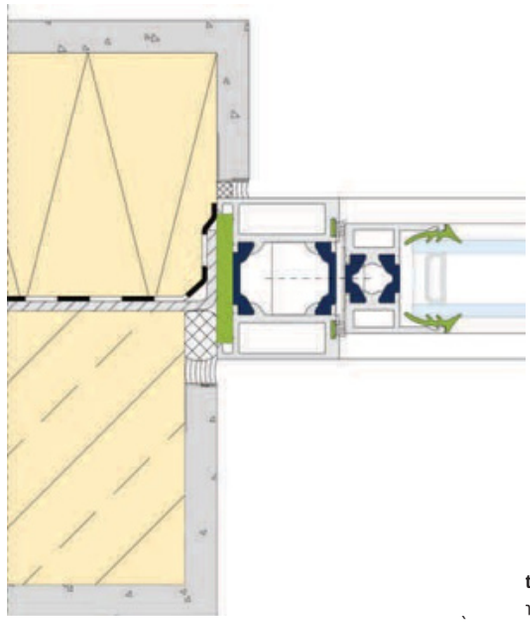
Installation in façades / post-beam-constructions
(Horizontal section)



Installation in window constructions
(Horizontal section)

Vitzthum School Dresden, Germany

AÉRAS



tion in masonry
ıtal section)

Accessories

You have a variety of different accessories to choose from while designing our louvre windows:

Electronic glass breakage sensor

The electronic glass breakage sensor helps in monitoring glass surfaces of windows.

Antri-trap protection

We offer intrusion protection for automatic (»power-operated«) windows and louvres. To avoid danger of pinched fingers while automatically closing, this area is monitored by a WPS system. Both, the direct contact points and the danger zones in the overall periphery of the window, are monitored by the sensor. This enables the WPS to react in a proactive manner. Not only can it monitor the main and secondary locking edges, but also several adjacent windows at once.

Insect and bird screen

It is imperative that the louvre windows are opened to ensure a pleasant indoor climate. But this also allows unwanted guests like insects and birds to enter the room together with the fresh air. To prevent this, our louvre windows can also be equipped with insect and bird screens. It is very simple to install these grills and their durability and accuracy of fit make them stand out.

CO_2, rain and wind sensors

In addition to the smoke control technology, our range of products also includes components for intelligent energy management: CO2, rain and wind sensors can be integrated as per customer's wish.

Regarding the glazing, Aeras louvre windows can be manufactured flexibly in line with customer's requirements. Glass made of float, laminated or toughened safety glass or combinations are used, depending on the static requirements and the installation situations called for. Special glasses with printing, sun-protection, sound-protection and laser-treated glasses are availabe as well.

Service

Our broad product portfolio provides an individual solution for every requirement. Our products are tested and certified accordingly. We provide all-round care with the highest cost transparency: from planning right up to building management (maintenance).

Special solutions

We set no limits to your ideas and realise projects that are especially challenging and extraordinary. There are engineers and technicians ready to help you in our development section. They ensure systematic implementation in the project phase, thus ensuring the success of your projects!

Sustainable projects

Visionary ideas become reality. As part of our integrated quality and environment management, during the planning and development we consider economic aspects as well as the effects on human beings and our nature."

Reliable production

We guarantee products Made in Germany. Our production uses quality-tested materials.

Flexibility

We deliver all our products to you in the fastest possible time. If so desired, our qualified professionals will also train you in mounting our products and also support you in the execution.

Mounting and Service

We offer a complete construction service package for your next project. As the manufacturer of high-value system products, we are well acquainted with the mounting procedure. In this process, we ensure quality control and logistics; we are equipped for large-scale construction projects and provide a considerable number of qualified personnel in a short time for your large project.

Our factory in Germany manufactures to the highest quality standards and deliver Australia and New Zealand wide.


AIRLA

AÉRAS