



No compromise.

OFFICIAL PARTNER OF

air-lux®

High-
perform-
mance
Window
Systems.



Swiss
made

air-lux®. The Frameless Glass Façade System That Defies The Elements.



air-lux is the floor-to ceiling glass façade system with large-scale sliding windows and a unique pneumatic sealing concept. The maintenance-free air-lux sliding window system with sliding windows up to 18 m² was developed by Krapf AG, a leading Swiss metal and façade engineering company and comprehensive provider of quality solutions. With air-lux, Krapf AG offers architects, façade planners and home-builders a versatile window façade system that is as architecturally and aesthetically appealing as it is structurally sound.

air-lux installations are planned and produced in-house, and installed by our own fitters. Since the first installation in 2004, over 5,000 sliding casement windows have been installed.



We are a Key Player in Door Access Solutions for Commercial, Institutional and Residential projects in Hong Kong and Macau. Our Products & Solutions include Automatic & Security Doors and Industrial Gates. Service is our Value – we offer Technical Advice & Customized Drawings, Supply & Installation, Contracting, Training and Service & Maintenance programs.

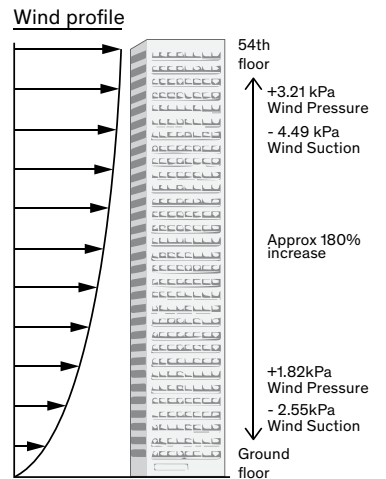
AUB is closely working with Façade Contractors and Engineering Companies providing Solutions for all kind of High and Low-Rise Commercial and Residential buildings

AUB & air-lux®

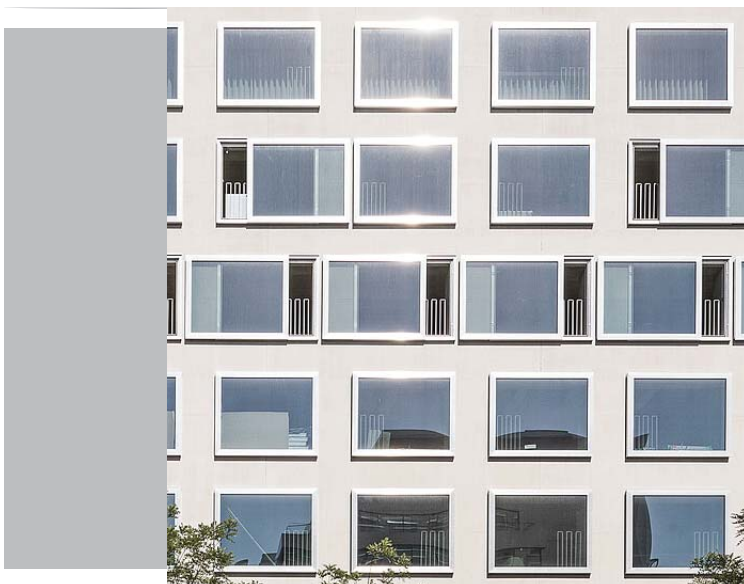
Our partnership aims to bring unrivaled technology and exceptional features to the densely populated territory of Hong Kong and Macau. The innovations in Noise Reduction, Security as well as Impermeability of Heat and Rain will enhance the living standard and the experience of Space.



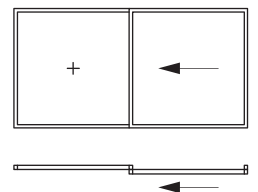
High-rises sliding windows



Constant performance under highest wind loads with the air-assisted sealing system from air-lux. Capacity to accommodate construction sagging on sill and lintel is outstanding.



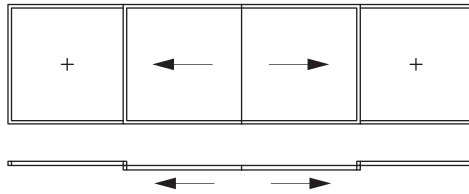
Picture frame sliding windows



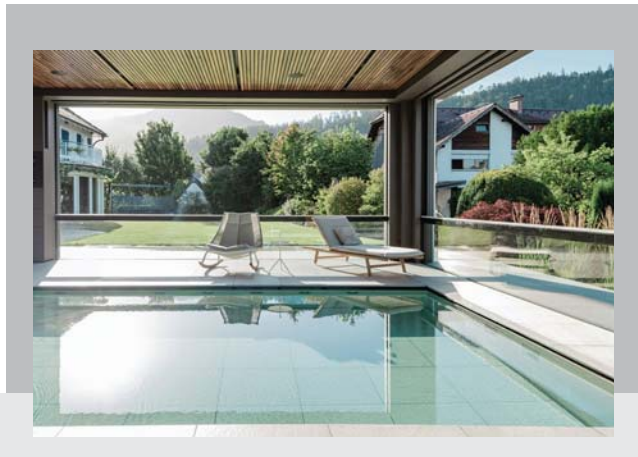
A Unique design without visible profile and guide rails – a window that slides on the façade with the patented air-assisted sealing system from air-lux.



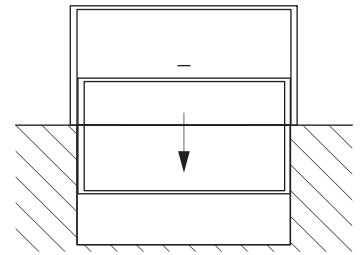
Sliding windows



Constant performance under highest wind loads with the air-assisted sealing system from air-lux. Capacity to accommodate construction sagging on sill and lintel is outstanding.

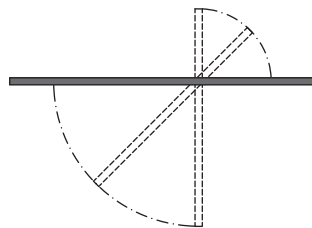


Descending windows

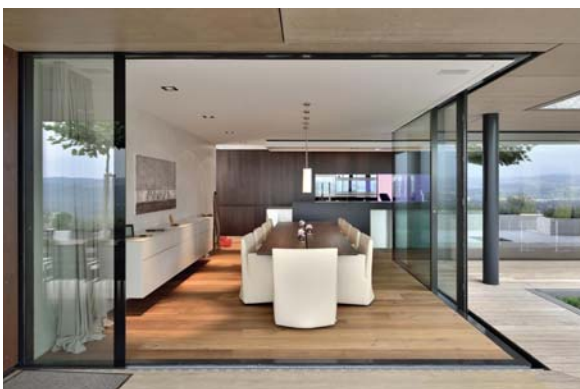


A very impressive way to open the window – the entire panel width descends completely into the ground. 100% Impermeability with the patented air-sealing system from air-lux

Pivoting doors



A fascinating Door Access Solution – with central or lateral pivot point for very large panels in glass or other materials. 100% Impermeability with the patented air-assisted sealing system from air-lux.

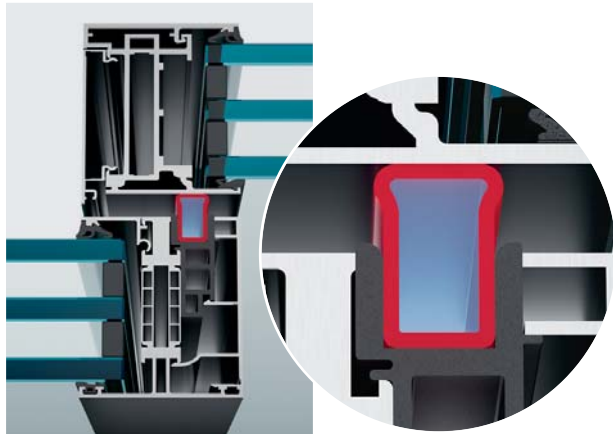


Cornering solution

Unbeatable Impermeability

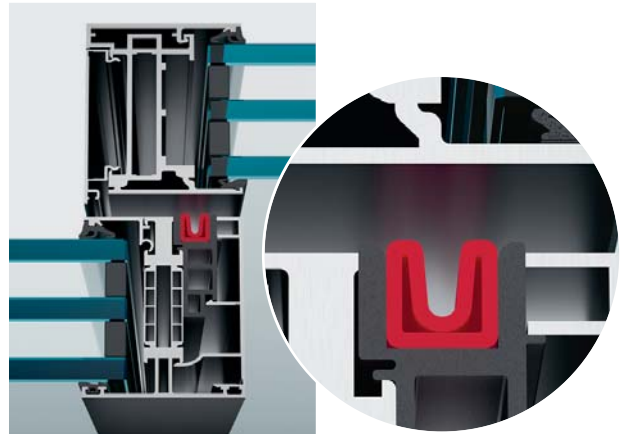
The outstanding structural properties of the air-lux window façade system are ensured in particular by the inflatable ring seal around the perimeter. When inflated, this guarantees 100% impermeability against driving rain, wind and noise. Air is generated in the frame and pumped into the seal almost inaudibly.

Sealing with air - the air-lux sealing concept



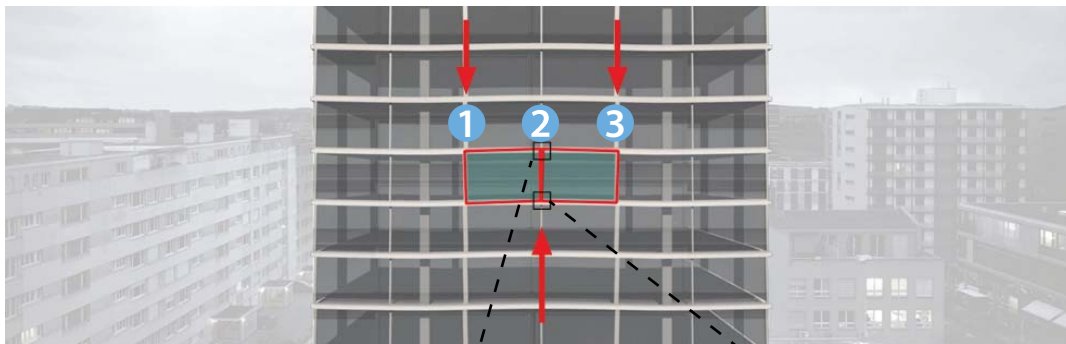
Seal active

Air is pressured into the tube to close the gap between slider and frame – a perfect seal.



Seal inactive

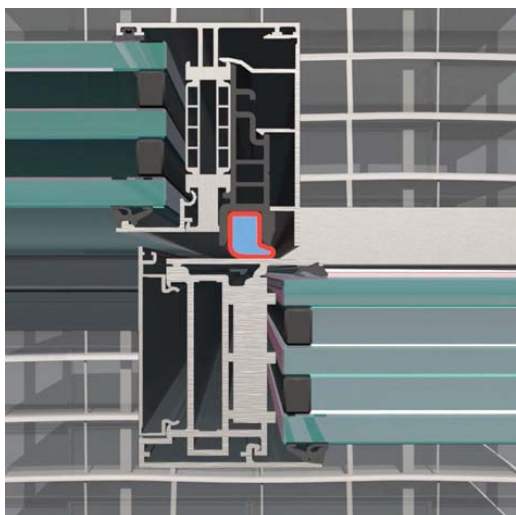
Air is released, tube seal retracted – the slider opens without friction.



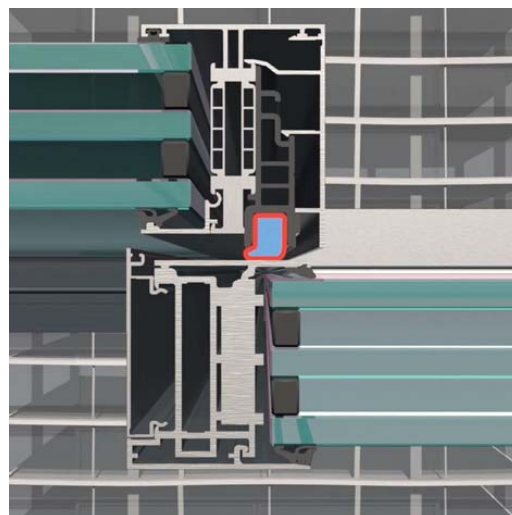
Element sagging in ① & ③

Constant performance of air-seal under impact of construction sagging.

The result is 100% tightness over the entire life cycle.



Profile pull apart at ② top



Profile push against each other at ② bottom

EN standards



Air permeability

Classification to EN 12207:
1999–11

Class 4



Driving rain impermeability

Classification to EN 12208:
1999–11

Class E1500



Noise insulation

Up to 44 dB depending on element
size and choice of glass



Wind load

Classification to EN 12210:
1999–11/AC: 2002–80

Class C4/B4
1600 Pa, max. 2400 Pa



Thermal insulation

Classification to EN 10077-1
0.92 W/m² K, U_g 0.6 W/m² K

U value/property-specific
0.83 W/m² K, U_g 0.5 W/m² K

US standards



Air permeability

Classification to standard
ASTM E283-04

0.00 cfm/ft² @ 300 Pa (6.24 psf)



Driving rain impermeability

Classification to standard
ASTM E331-09 Uniform pressure
ASTM E547-09 Cyclic pressure

No access @ 958 Pa (20 psf)

No access @ 958 Pa (20 psf)



Wind load

Classification to standard

Uniform structural load
Design pressure ASTM E330-02 (10)
ASTM E330-02 (10)

+/- 2394 Pa (+/- 50 psf)

+/- 3591 Pa (+/- 75 psf)

Deglazing
ASTM E987-88 (09)

No damage



Thermal insulation

Classification to standard

NFRC glazed wall system
NFRC sliding door

0.18 Btu/hr.sqft. °F (1.02 W/m²K)

0.24 Btu/hr.sqft. °F (1.36 W/m²K)



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