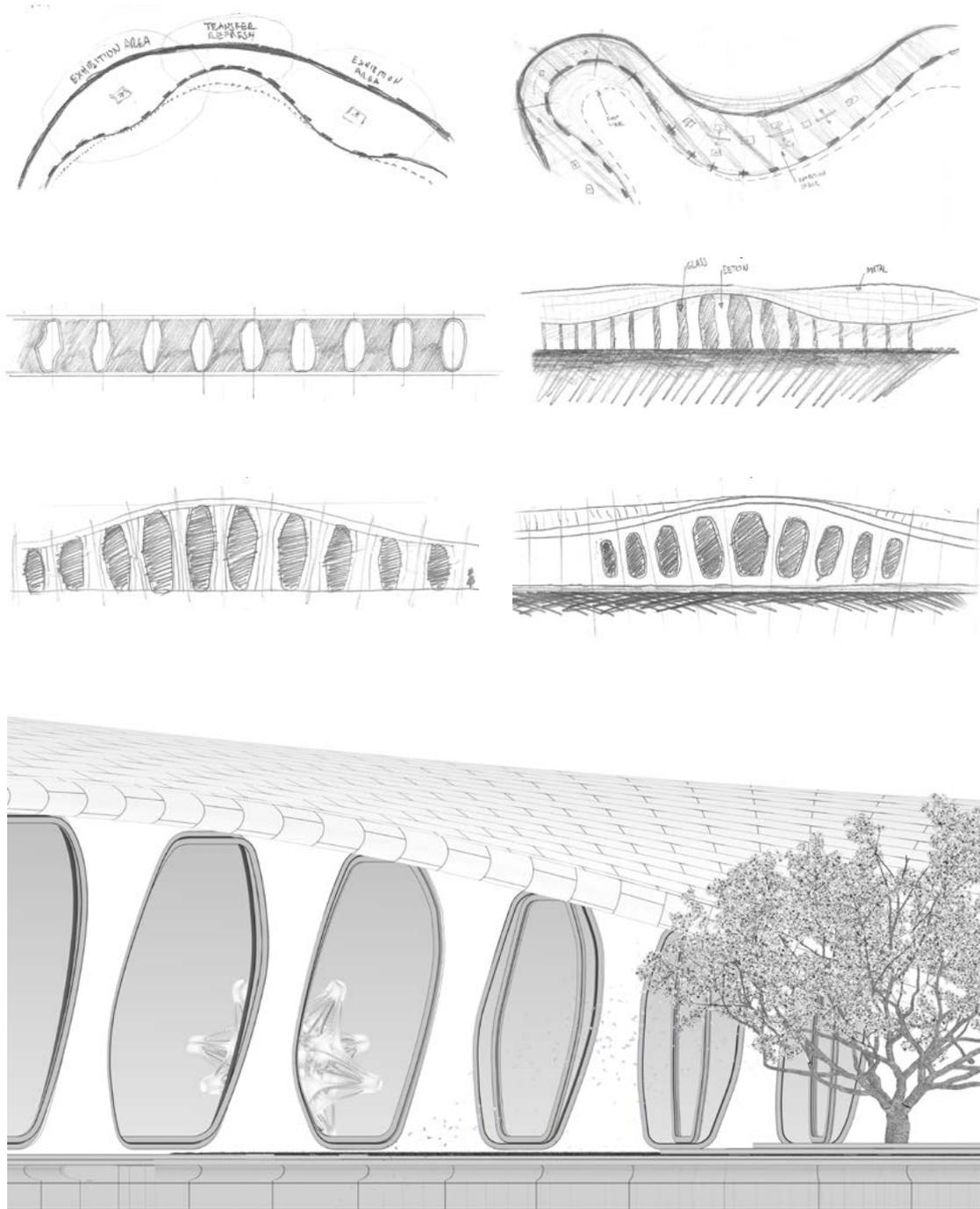


# Free forms

# Ample scope for creative visions and free forms.

air-lux pivot windows and doors give you full architectural freedom and permit a unique variety of shapes. The inflatable pneumatic seal now makes it possible to create window shapes that were previously impossible to achieve with

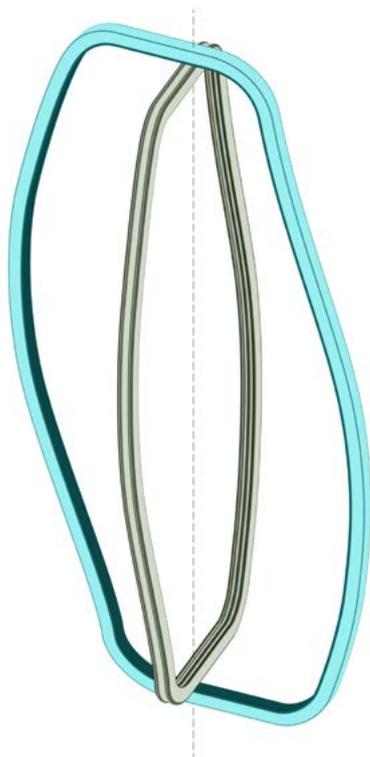
conventional sealing concepts, so windows and doors become fascinating design elements whose shapes change as they open.



# Fascinating new possibilities for windows and doors.

Whether for doors or windows, "pivot" stands for an opening system with a central or lateral axis of rotation. Pivot doors are an impressive alternative to conventional revolving doors, especially for entrances with large openings. Their free forms – which can be anything, from round to asymmetrical – make pivot windows exciting design elements for architects. air-lux makes pivot windows weighing up to 500 kg. The sashes open inwards and outwards and are

compatible with standard window systems. Another advantage is that the pneumatic seal can compensate for manufacturing tolerances, guaranteeing 100% impermeability.



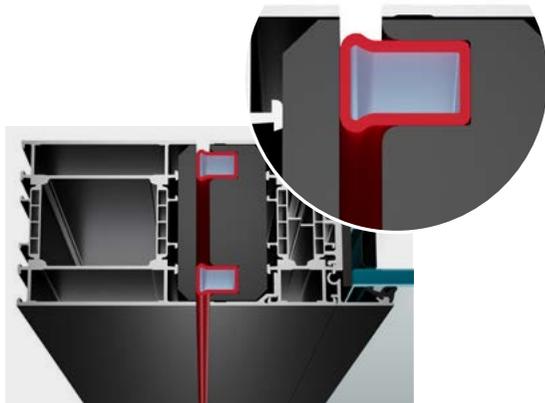
Pivot door in concrete construction

# Optimum sealing thanks to our patented sealing system.

Lateral pivot systems never really caught on, since it was impossible to seal the rotating sash, which moves inwards and outwards at the same time, with conventional sealing systems. But this is precisely where the air-lux sealing concept excels: The two air-lux pneumatic seals on each side of the pivot point make pivot windows and

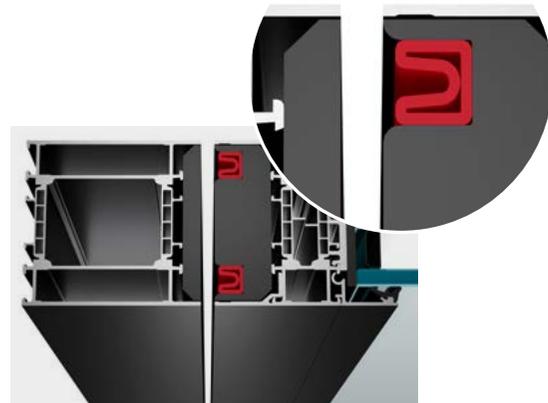
doors 100% impermeable to air and driving rain. This means that air-lux pivot solutions can be used without any problems in façades that are highly exposed to the elements – with no awnings or structural projections.

## Sealing with air – the air-lux sealing concept



### Seal active

Pressing the button generates air in the frame and pumps it into the seal, pressing the seal against the frame profile and sealing the gap between the door leaf and the frame perfectly.



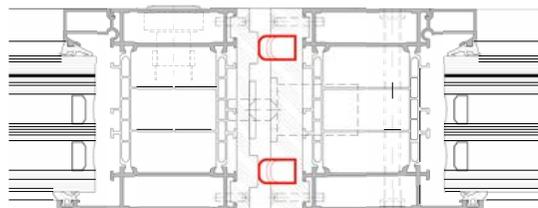
### Seal inactive

Pressing the button again opens the seal. The air escapes and the seal returns to its original, rolled-up position.

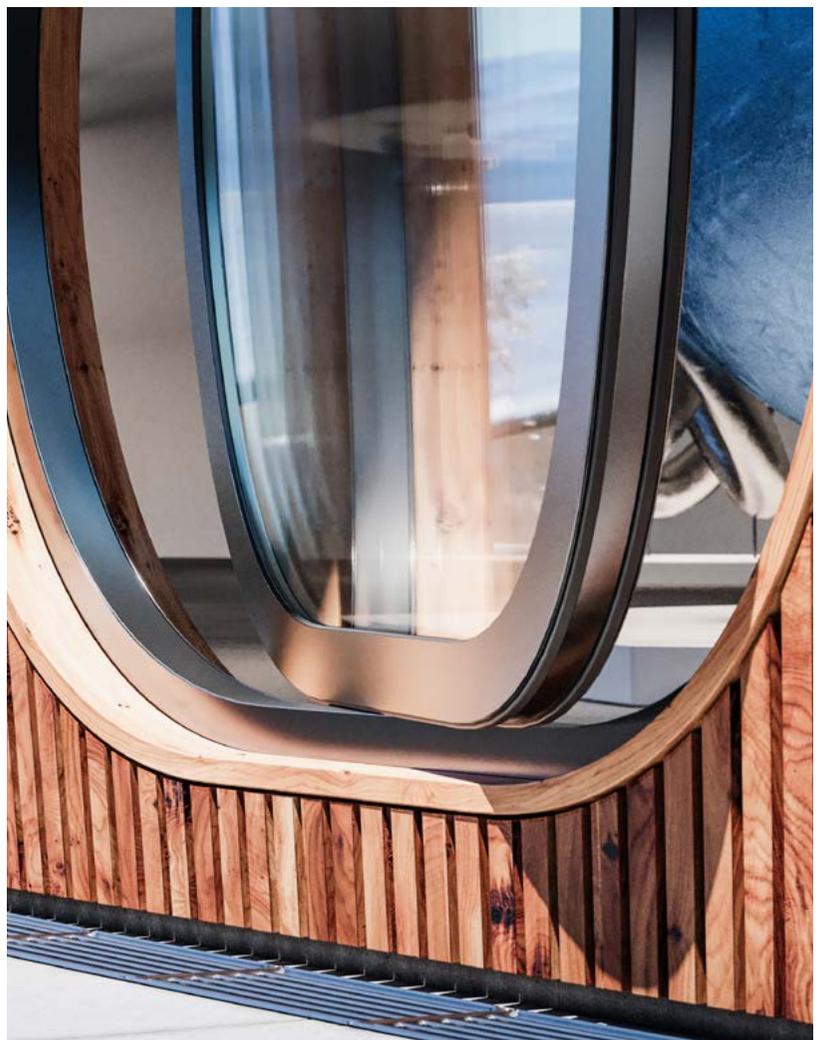
## 100% impermeability guaranteed

Our unique pneumatic sealing system is also ideal for pivot doors.

As with our sliding elements, 100% impermeability is guaranteed. Two circumferential, inflatable ring seals are fully integrated into the aluminium profiles – without any weak spots in the corners or the hinge axis pivoting area.



Horizontal cross-section detail



Pivot door in timber construction

# Sealing with air – the clever free-form solution.



- Keeps out 100 % of driving rain, wind and noise – on every floor, for every window shape
- 100 % impermeability even on heavily weathered façades – with no awning or structural projections
- air-lux air seal with membrane function
- Consistent pneumatic seal performance
- Low maintenance costs



air-lux – developed by Krapf AG

Founded in 1964, Krapf AG is now one of the leading Swiss metal and facade engineering companies. A full-service provider and professional project partner, Krapf AG is renowned for outstanding and architecturally, technically, and functionally compelling performance. In 2004, we developed the “air-lux” system, which has since been used in numerous prestigious projects.



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