

**T O R M A X   U N I Q U E   S O L U T I O N S**

★★★★★  
**TORMAX**  
AUTOMATIC

Opening a door? Any child can do this.  
Opening a door automatically? Any manufacturer of automatic doors can do this.  
Not really.

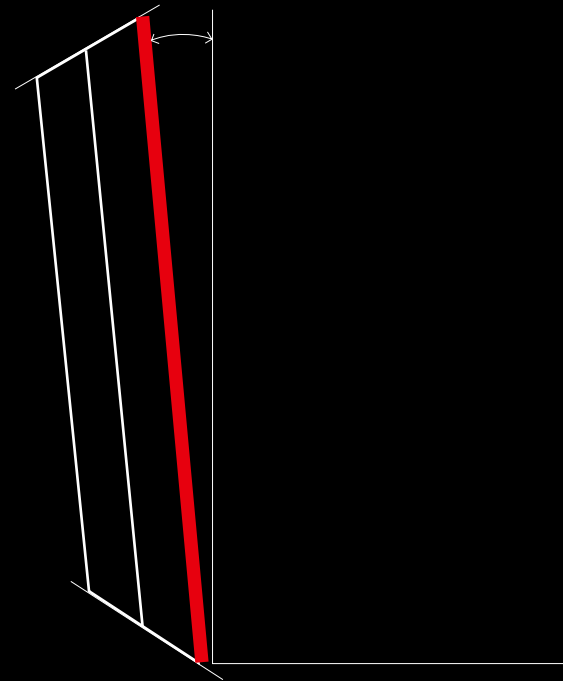
TORMAX offers you a wide range of standard products for every type of doorway, of course. Almost "off the peg". But we can do much more besides.

We also custom manufacture door mechanisms. Automatic doors which are on the slant. Doors which are ten meters high. Doors made only of glass. Doors without any frame whatsoever.

## PRINCIPLE NUMBER 1: FOR US, THERE IS NO SUCH THING AS "IMPOSSIBLE"...

Each individual door which we show you in this brochure was specially made. They represent the cream of our work. Each one is fitted with a powerful TORMAX drive. Even when the drive is invisible, as it often is, it operates quietly, reliably and powerfully. For many doors, the architect or client told us, "Other suppliers said that what we wanted was impossible."  
Well, what doors can we open for you?  
We look forward to doing the impossible for you too.

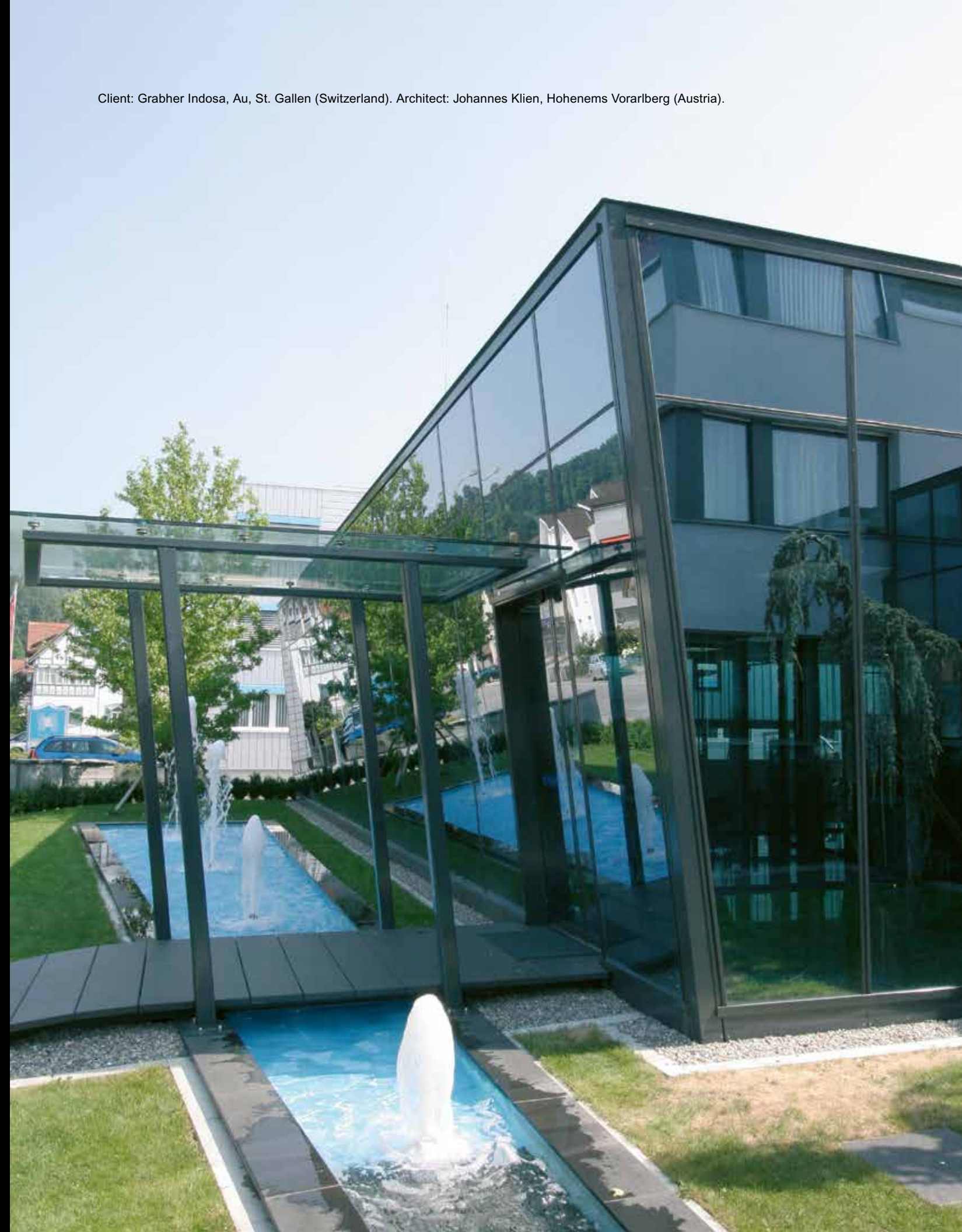
Client: Grabher Indosa, Au, St. Gallen (Switzerland). Architect: Johannes Klien, Hohenems Vorarlberg (Austria).



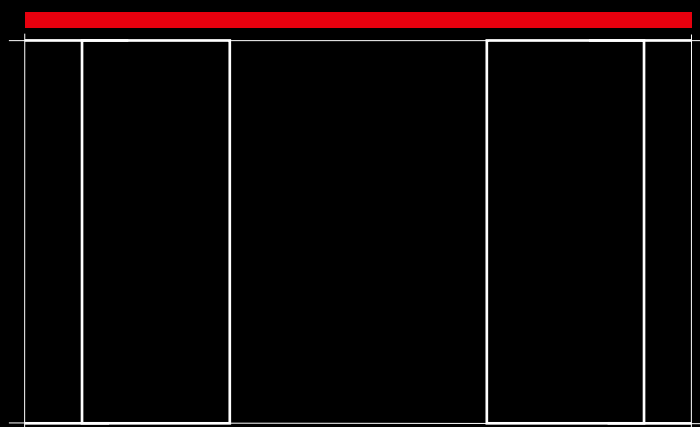
## FORM: NEW VALUES

New values of harmony and stability: the architect Johannes Klien designed an out-of-vertical, filigree glass façade for Grabher Indosa. The lobby of the world's number 1 manufacturer of can-making equipment is lighter than air, defying gravity. But an automatic door in harmony with this bold idea was needed.

The architect found the right door at TORMAX. The task was too complex for other manufacturers. TORMAX, however, developed special guide systems to support the doors, manufactured leaves completely of insulating glass to take the whole of the doors' kinetic energy and designed an edge connection capable of resisting the unusual loads. The drive is integrated in the profile above the door. Seven degrees out of plumb. This is how we support deconstructive design.



# DESIGN: WHEN DOORS BECOME INVISIBLE



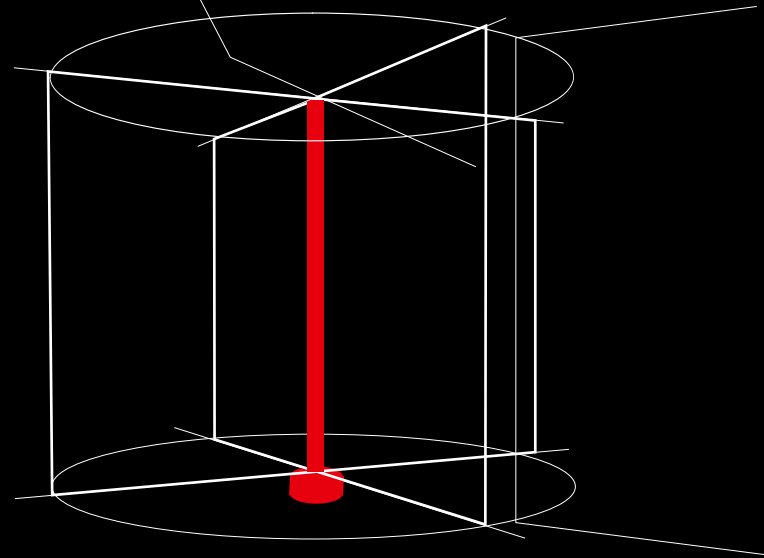
The Manhattan Center on the Place Rogier in Brussels. The skyscraper, containing hotels, banks, shops and offices, serves as a distinctive landmark even from afar. Inside, costly materials and simple structures dominate, for example the entrance to an inner gallery. At first glance you hardly suspect there is a door; the frameless door leaves are made entirely of toughened glass, the entrance is wide and light and no drive is visible.

Elegance and lightness combined with space. Light leads the visitor to his destination and, free from barriers, floods the corridor. TORMAX built the door drive into the ceiling so that it was invisible. All that remains are a few unobtrusive slots for the leaf guides.

It was Mies van der Rohe who was most systematic in turning the concept of flowing spaces into reality and introducing a new lightness into façades. Schmidt, Hammer & Lassen, the famous Danish architects, developed his ideas further in the best tradition. In this case for Kromann Reumert, a leading firm of Copenhagen lawyers for whom the architects designed a clear, straight façade and, inside, an automatic turnstile revolving door which appears to want to stand on its own. It will keep every draft at bay in the broad, open vestibule.

TORMAX manufactured the door. From outside, the observer is impressed by the building's smooth envelope. Inside, the design of the revolving door is a logical extension of this concept. A building like a work of art. Filigree, light-weight glass free from columns. The drive is not in the floor but much deeper – below the ceiling of the basement, protected from all external influences but easily accessible.

## CONSTRUCTION: MERGING THE INSIDE WITH THE OUTSIDE

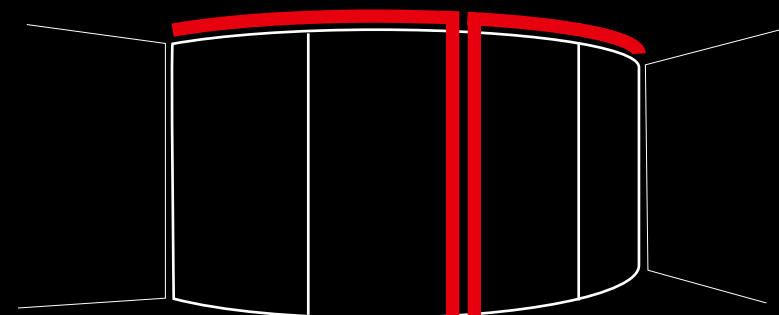


## PRECISION: SEAMLESSLY CLOSING CIRCLES

The “Vereinigten Sparkassen” in Eschenbach, Bavaria. A new concept for counters. Each client is advised discretely. To achieve this, the architect designed doors in the banking hall in the form of large, circular walls.

The bank staff operate the suspended, semi-transparent doors from their desk. From the outside, the client can see when banking staff are free; from the inside, the bank staff can see if a client is waiting.

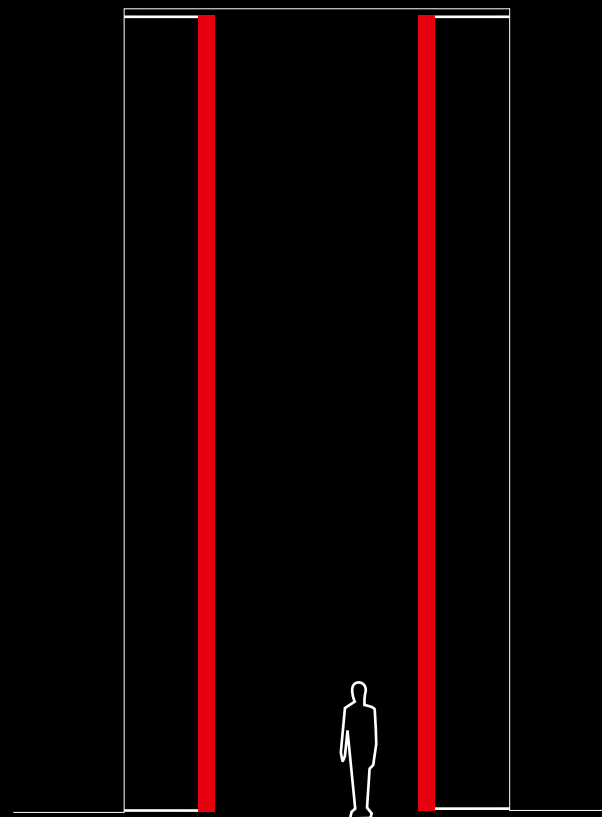
The challenge: the all-glass doors must be perfectly soundproof, even though they were designed without frames. Therefore extreme precision is needed. To a fraction of an inch, but moving over a distance of 4.80 meters. We built doors which are suspended on points and guided over a distance of only 5 centimeters. More would have been a risk as the extensive curve of the glass needs room for expansion. The leaves must not collide but there must also be no gap. Sensors moving with the doors ensure that the doors close seamlessly.



Powerful stainless steel ribs. Intensive light is reflected in the façades of the twin Governor Phillip & Macquarie Towers in Sydney. In the lobby, light streams from above onto marble walls. A massive bronze sliding door separates the two towers. Ten meters high, five meters wide, weighing about five tons. No human hand can open or close this door. The sliding door must be automatic. Its design proclaims aesthetic values but is also functional: in emergencies it acts as a fire door.

Special motors were necessary – significantly more power than for normal doors was specified. TORMAX met the specification. The drive is as reliable as it is quiet. If there is a fire, the door closes immediately. A unique bronze for the thousands of people who pass through it each day on their way to work. Driven by TORMAX.

## POWER: A TEN-METRE-HIGH BRONZE



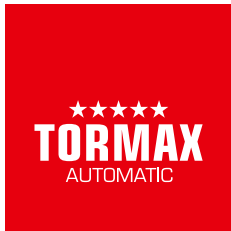
## ...BUT WE ALSO LOVE THE STANDARD



In the previous pages we demonstrated that when it comes to automated doors nothing is impossible for TORMAX. But even here we can do things which are different: TORMAX makes the possible just as possible as the impossible. Wherever you are looking for a solution related to automatic doors, you will find the right partner in TORMAX.

TORMAX can provide you with an almost infinite variety of standard products and drives of all power categories for every type of door: for double swing doors, for sliding doors, circular doors, turnstile revolving doors and folding doors.





**TORMAX USA Inc.**  
[www.tormaxusa.com](http://www.tormaxusa.com)  
[info@tormaxusa.com](mailto:info@tormaxusa.com)

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