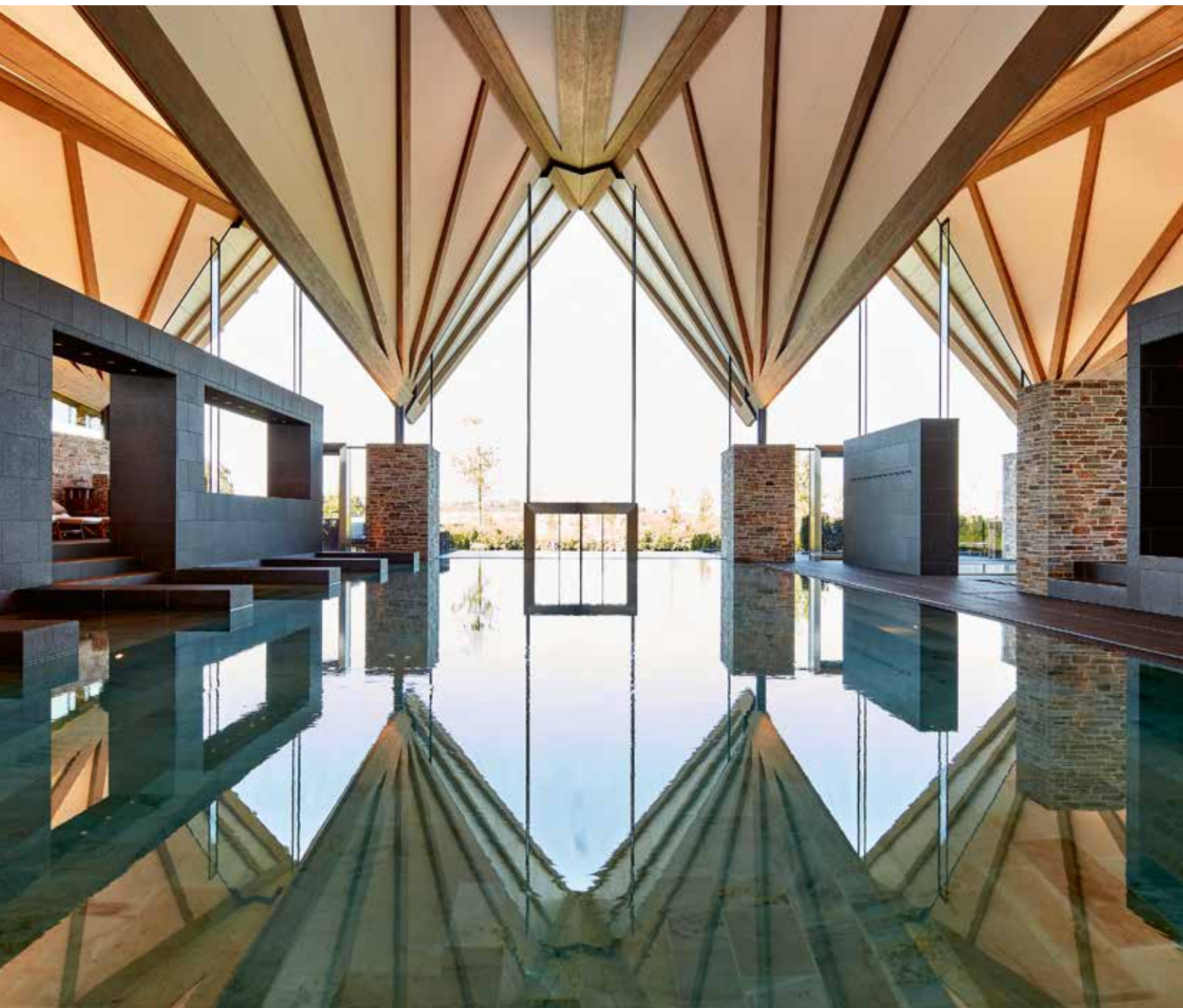


TORMAX IP65 and IP68 system solutions

Corrosion-free automatic door systems for demanding applications



Premium quality, durable and safe in operation



Indestructible materials and a technically sophisticated design make it all possible: TORMAX swing and sliding door systems with IP65 and IP68 certification withstand all weather conditions and many chemicals.

They are equally suitable for door systems in outdoor areas as they are for use on offshore platforms and ocean-going vessels or for rooms with the strictest hygienic requirements.

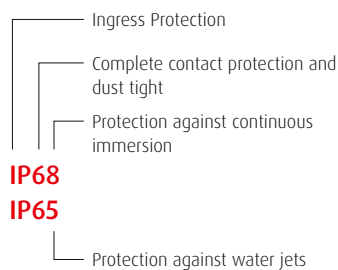
Product features at a glance

- › Drive parts made of stainless steel or in a stainless steel housing to protect them from rain, snow, ice, humidity, pollution, UV radiation, low/high temperatures, cleaning agents, dust, salt, sandstorms, wind, chlorine and other chemicals
- › Exceptionally long service life, even under harsh conditions
- › Extremely reliable and cost-efficient operation
- › Protects people from electrical accidents by water exposure
- › Prevents vandalism and burglaries
- › Drive unit easy to clean

The IP65/68 product range

Unrivalled choice

The IP65 and IP68 certified TORMAX swing and sliding door systems have it all, providing reliable and durable protection for the installed drives against even the harshest environmental influences.



Certified according to protection classes IP65 and IP68

TORMAX corrosion-resistant door systems are more resilient than any other competitor product on the market. They are IP65 and IP68 certified according to the specifications of EN/IEC 60529, and as such proven to be corrosion-free as well as dustproof and waterproof and able to master any situation with ease.

All parts of the drive system are either made of stainless steel or fully integrated into a stainless steel housing. A technically advanced sealing system prevents any aggressive or harmful media from entering and thus significantly increases the service life of the drive. With the tightness of the housing, drive shaft and cable, the drives for swing and sliding doors meet the criteria of protection classes IP65 and IP68, as extensive tests by an independent testing institute have confirmed. The standard TORMAX drives, which were already well proven in the market, can thus also be used in a far wider range of applications.

Versatile in use

The drive systems in IP65/68 design are ideally suited for automatic doors in swimming pools, wellness and sauna facilities, buildings by the sea, cold storage rooms, greenhouses, garages, car wash lanes as well as on offshore platforms, cruise ships and yachts. And because the housing is easy to clean, it is equally suitable for rooms with the most stringent hygienic requirements in the food, pharmaceutical and medical sectors – from commercial kitchens and butcher’s shops to clean rooms, laboratories and operating theatres.

Reliable and low-cost in maintenance

Thanks to the exceptional level of protection, operation of the door systems is particularly reliable. Architects and planners can be confident that they are using a dependable, user-friendly and resilient automatic door system, while operators and investors appreciate the long service life and low life cycle costs.

The right solution for any project

With three different swing door drives, four sliding door drives and countless configuration options, the range of corrosion-resistant TORMAX door systems is unrivalled. Our qualified technical advisors will always find the right solution for your project – be it for door leaves weighing 600 kg, for graceful glass doors or for passageways 3 metres across.

Easy to clean, meets the strictest hygienic requirements



Long service life even under extreme conditions



Wide range of applications, from tropical humidity to arctic cold



TORMAX T1 Swing door systems

Visible and invisible drives

The standard version of the TORMAX T1 Series swing door systems can be adapted to a wide range of situations, from new installations to retrofits. Built into a corrosion-resistant IP68 stainless steel housing, this swing door drive stands the test of time even in the most demanding operating areas.

Powerful drives

The range of TORMAX swing door systems in IP65/68 design includes two visible drives and one concealed drive. The two visible drives are used for door weights of up to 250 kg and 600 kg, respectively. Like all TORMAX systems, these drives are characterised by their dynamic, low-noise and efficient operation as well as by their durability.

Invisibly embedded in the floor

The invisible drive TORMAX iMotion® 1401 is a perfect solution for any situation where first-class door automation is a must and a visible drive is not an option for structural reasons. The drive is invisibly embedded in the floor and does not require any linkage. As such, it ensures top quality without making any compromise on design. It has higher torques than competing products and its power delivery is sufficient to dynamically move doors weighing up to 600 kg. Thanks to the IP65/68 certification, this drive can also be used safely and permanently under exposed environmental conditions.

TORMAX T1 swing door systems in IP65/68 design

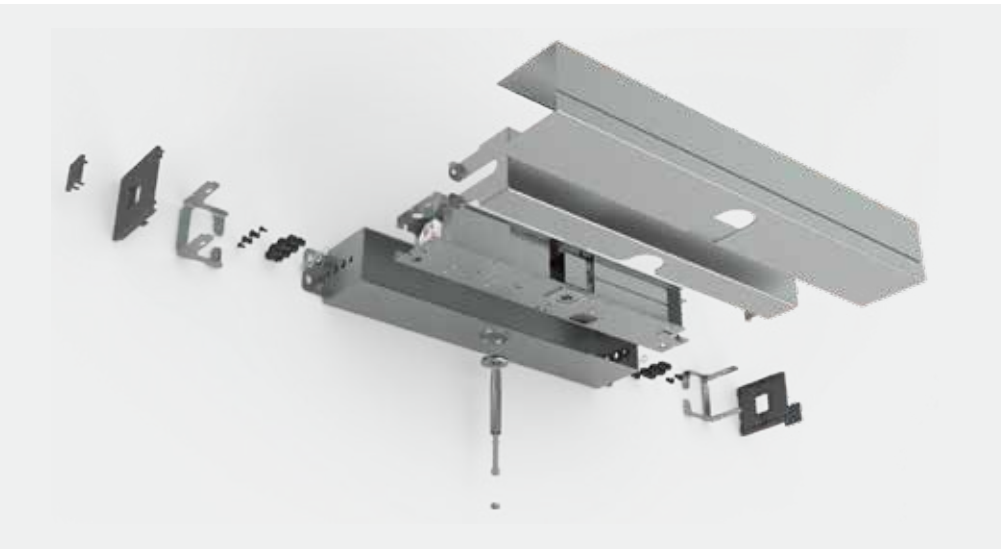
	Max door leaf weight [kg]	Door width [m]	Wind load [km/h]	AC motor	Dimensions (L × W × H) [mm]	Mounting type
Visible drives TORMAX 1201 TORMAX iMotion® 1301	250	1,4	60		720 × 122 × 104	Lintel or door leaf
	600	1,6	80	●	720 × 122 × 104	Lintel or door leaf
	Casing set for IP68 swing door housing consisting of housing profile, side plates and blind covers made of stainless steel					Overall height of drive system with casing: 115 mm
Invisible drive TORMAX iMotion® 1401	600	1,6	80	●	450 × 293 × 127	Recessed in the floor
General features	Dynamic, quiet, efficient, durable					
	Modular, programmable TORMAX microprocessor controls with outstanding functionality, comprehensive monitoring and diagnostic functions					
	Six operating modes: automatic, reduced opening, exit, permanently open, closed, manual operation					
Operation	For exterior and interior doors					
	1- and 2-wing swing door systems, easy to retrofit					
	Suitable for new buildings and refurbishments					
	Ambient temperature: -20°C to +50°C					
Options	IP-protected sensors and user interfaces					
	Shortenable stainless steel shaft					
Certifications	CE / EN 16005, TÜV certified					
	IEC / EN 60529, IP65 / IP68 tested, Eurofins certified					

- Standard



Invisible drive TORMAX iMotion® 1401 recessed in the floor

Dustproof and waterproof housing of the TORMAX iMotion® 1301 and TORMAX 1201 door drives with housing profile, side plates and blind covers made of stainless steel



TORMAX T2 sliding door systems

Four different drives

The TORMAX T2 Series sliding door systems are functional and convenient to use both indoors and outdoors. They offer easy access without any door contact and are suitable wherever there is sufficient space at the side. The door system is exceptionally smooth-running and durable; it guarantees reliable operation even in harsh conditions.

Wide range of products

TORMAX offers four different drives in IP65/68 design for sliding door systems, with the most powerful motor operating doors of up to 450 kg. Door opening widths of 800–3000 mm are standard, larger opening widths can be provided as customised products. TORMAX specialists install the drives, pre-assembled in their stainless steel housing, together with the other stainless steel components as a system directly on the construction site.

Rigorous quality control

The pre-assembly of the drives, including the leakage-free shaft seals, is carried out in a production environment specially equipped for stainless materials. Before leaving the workshop, the drives are subjected to rigorous quality control, including a leak test on the assembled IP68 housings.

Pre-assembled drive unit with housing and exposed parts made of stainless steel (TORMAX iMotion® 2202.A-IP68)



TORMAX T2 Sliding door systems in IP65/68 design

Drive system	Max door leaf weight [kg]	Drive height [mm]		AC synchronous motor	Holding brake	Monitored battery unit	Bistable lock
		200	150				
TORMAX iMotion® 2401	1 × 450 / 2 × 300	•		•	•		+
TORMAX iMotion® 2301	1 × 150 / 2 × 130	•		•	•		+
TORMAX iMotion® 2202.A	1 × 130 / 2 × 120	•	•	•	+	+	+
TORMAX 2101	1 × 100 / 2 × 100	•	•				
Main features	Door opening widths 800 – 3000 mm (larger opening widths on request)						
	Drive unit pre-assembled in a stainless steel housing; exposed parts, e.g. carriage body, made of stainless steel						
	Installation heights of drive system with housing: 200 mm / 150 mm						
	Dynamic, quiet, efficient, durable						
	Modular, programmable TORMAX microprocessor controls with outstanding functionality, comprehensive monitoring and diagnostic functions						
	Six operating modes: automatic, reduced opening, exit, always open, closed, manual operation						
Operation	Optionally with IP-protected sensors and user interfaces						
	For exterior and interior doors						
	1 and 2-wing sliding door systems						
	Suitable for new buildings and refurbishments						
Certifications	Ambient temperature: -20°C to +50°C						
	CE / EN 16005, TÜV certified						
	IEC / EN 60529, IP65 / IP68 tested, Eurofins certified						

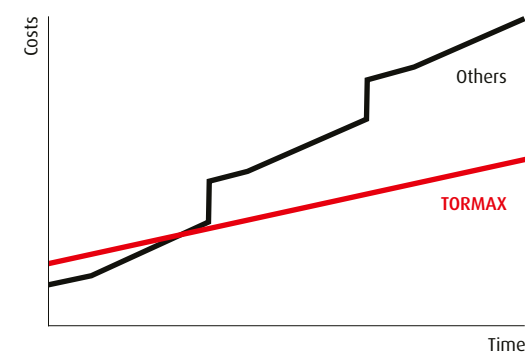
• Standard + Option



Comprehensive quality from a single source

With a TORMAX IP65 and IP68 system solution, you opt for comprehensive quality from a single source.

- › **Outstanding product quality** with premium components and innovative technical solutions
- › **Close project support** by highly qualified technical staff, from design and production to installation and service
- › **Flawless, efficient installation** with pre-assembled modules and leak test on site
- › **High service quality** provided by our own thoroughly trained service technicians using original spare parts throughout the service life of your automatic door system
- › **Significantly lower life cycle costs** than other systems due to exceptionally long service life, reliable technologies, fewer interruptions and service calls



the passion to drive doors

TORMAX installed Europe's first automatic door in 1951. Today, we are a leading manufacturer of automatic pedestrian and industrial door systems, distinguished by technologically advanced, reliable and innovative solutions.

As an independent Swiss industrial group with global operations, we offer the full range of automatic pedestrian and industrial door systems and ensure their reliable operation throughout their service life.

TORMAX will be pleased to advise you about suitable door systems and support you from design to manufacturing, supervising construction, installation and service.

Get in touch with TORMAX!

www.tormax.com