



INTERDOOR

SPECIALIST INDUSTRIAL DOORS

Folding High Speed Doors

- **Maximum w x h:** 6000mm x 6000mm
- **Max Opening Speed:** 1 m/s – 1.5 m/s
- **Max Closing Speed:** 0.5 m/s
- **Wind Resistance:** Up to 13 Beaufort
- **Door Curtain:** 900 gr/m² Class M2
- **Application:** External & Internal
- **Regulations:** EN13241 Compliant

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FOLD

The **Tornado® Fold** is a high-speed folding door predominantly for external applications. All components of the door have been engineered to realise a long-life span and very low maintenance costs. The efficient operation and high stability of the **Tornado® Fold** guarantees optimal energy saving, draught exclusion and climate control.

Dimensions	
max. width (W)	6000 mm
max. height (H)	6000 mm
max. wind force	13 Beaufort
required lateral space at the guides	220 mm
required lateral space at slip on drive	520 mm
required lateral space at drive for fitting	650 mm
required lateral space at non-drive side	220 mm
required space above	1,070 mm

Components and Construction

The **Tornado® Fold** is an electrically driven folding door without balance springs, consisting of horizontal sections made of extremely durable polyester-reinforced PVC with reinforcement profiles and heavy-duty belts. These belts pull the curtain into a compact package above the opening. The door curtain can be equipped with various types of windows. The bottom of the door curtain has a solid hard edge bottom beam with a flexible bottom seal. Steel columns ensure smooth lateral guidance of the door curtain. The steel columns are mounted to the steel top cover to form one sturdy unit, onto which the roller and drive are mounted.

Materials

The door columns are made of hot dip galvanised steel. The horizontal roller is made of steel. The bottom beam is made of aluminium and has a flexible bottom seal with opto-sensors. The door curtain is 900 gr/m² class 2 PVC with a polyester reinforcement inlay.

Colours

The door curtain is available in 9 standard colours. The columns are supplied as standard with a grey powder coating (RAL 7011). All other RAL colours are available.

Drive

The drive consists of an electric motor with reduction unit mounted at the side or at the front of the door. The roller is directly driven. Drive side can be left or right.

Mains voltage

with frequency control: LNPE~230V/50Hz/16AT

Mains voltage

without frequency control: 3N~400V/50Hz/16A

Degree of Protection: IP65

Consumed Power: max.4kW

Protection

- The door can be manually opened in the case of power loss
- Supplied as standard with photocell and opto-sensors

Structural provisions and connection

- A flat mounting frame and the necessary mounting space must be available.
- Exact installation dimensions available upon request.
- Within 500mm radius of where the control unit without frequency control will be positioned, mains voltage must be available:
 - CEE form red – 3N~400V/50Hz/16A
- Within 500mm radius of where the control unit with frequency control will be positioned, mains voltage must be available:
 - CEE form blue 1 x 230V or
 - CEE form red – 3N~400V, fused, slow operation 16A fitted with a circuit breaker of at least 300 mA
- the control box is usually fitted on the drive side at a height of approx. 1500mm from the floor
- with standard CEE-plug, the control box is IP54 compliant

Control and operation

The control unit has 3 buttons (open-stop-close) and a CEE-plug and regulates a multitude of functions such as:

- adjustable opentime or 'Dead man control'
- LED display for control of functions
- choice of permanently open or permanently shut
- service and run mode

Other forms of operation that can be connected to the standard control box:

- operation by pullswitch, key-operated switch, push-button, photocell, radar, induction loop detection or by radio control

Optional Extras*

Control and operation

- frequency control (max 5000mm x 5000mm)
- additional controls as described above
- control box directly wired (IP65)
- main switch directly wired on the control box (IP65)
- door interlock control in combination with another door

Protection

- safety light curtain (up to 2500mm)
- radar detection
- motion /presence sensor
- connection of traffic lights (red/green or red and green)
- warning light (orange or red)

Construction

- door increase in size to 7000 x 6800 (w x h)
- windows (1080 x 360mm) made of transparent plastic
- metal hood and top cover in specified RAL colour

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