

Technical information DORTEK high speed doors	
Model	DORTEK 360 HS DOOR
Certified to meet EN 13241-1	
Version	20150414

Environmental door:
-Stops draft, dust and noise, improving environment and saving energy -Fast, smooth operation, improving productivity

Advantages:
-Fast -Can easily be opened even when power failure -Reliable, solid -Door panel stands an impact -Few wear parts, long life -Noise damping -Stands rough environments

Technical data:	
Sizes(clear opening)	Standard sizes: Min 1140x2000mm. Max 3500x3000mm.
Operating cycles	Max 3 per minute.
Ambient temperatures	0 - +55°C.
Noise damping	Approx. 10 dB (complete door), door panel material approx. 25dB at 2000Hz.
Environment	The 360 is designed for use in interior positons with moderate pressure differences. The door is tested for resistance to wind load according to test methods in EN 13241-1, wind class 3.

Technical specification	
Drive unit	<p>Ovitor 1-speed drive, 0.55kW, 230/400V, with limit switches and mechanical brake. With sprag clutch in the gear box.</p> <p>Hollow shaft drive driving the top tube shaft (30mm) directly.</p> <p>Release gear on the gearbox to disconnect the drive.</p>
Control system	<p>N1-400.</p> <p>Direct start/ stop. Fixed opening/closing speed 0.75m/s.</p> <p>Supply voltage 3x400V, 10A, 50Hz.</p> <p>Cabinet, ABS in grey finish, RAL7035, IP65, 320x340x200mm.</p> <p>Push buttons up/stop/down and non-retractable stop in the box front.</p> <p>Automatic closing possible.</p>
Door panel	<p>Clean 2mm, 2 layer mono/multifilament fabrics with PVC coating both sides. Weight 2.4kg/m².</p> <p>Antistatic design with carbon fibers integrated in the material.</p> <p>Colours: Blue (RAL 5007) or grey (RAL7038).</p> <p>Vision panels and colours, see options.</p> <p>Approved by FDA for use in direct contact with food.</p> <p>Resistant against most chemicals such as: Ammonium, sodium, hydrate, phosphoric acid, tartaric acid, oil, detergents, calcium chloride, oxalic acid, chlorhydric acid, citic acid, sodium carbonate, acetic acid.</p> <p>Tested antistatic according to EU norm pr EN 1718..</p>
Door frame material	<p>Anodized extruded aluminium profiles designed for rapid assembling/disassembling. Prepared with slots for brushes.</p>
Bottom beam	<p>Anodized extruded aluminium profiles. The bottom beam has flexible guide brackets (BRX) at its ends. At an impact the brackets can slide out from the frames reducing the risk for damage to the door.</p> <p>The guides can easily be reinserted by hand (after a recommended safety inspection).</p>
Top tube	<p>Steel tube designed to accommodate the opening spring. Primed.</p>

Technical specification cont.	
Spring system	<p>Emergency opening spring on the non-motor side of the top tube.</p> <p>The spring is tensioned when the door closes and if the lever on the gearbox is turned, the spring rolls up the door to 2m clear height.</p> <p>For safety reasons, a micro switch is attached on the spring end, giving a permanent opening signal to the control if the spring is de-activated.</p> <p>(The drive can be released manually or automatically, see options)</p>
Seals	<p>At the top, a brush seals against the door panel and a foam seal against the wall. At the bottom the sturdy EPDM rubber profile seals against the floor.</p>
Bottom beam rubber	<p>Extruded EPDM profile with chamber for the pneumatic safety edge.</p>
Seals	<p>At the top, a brush seals against the door panel and a foam seal against the wall. At the bottom the sturdy EPDM rubber profile seals against the floor.</p>
Covers material	<p>Front top cover in extruded, anodized aluminium. (Top roll cover and motor cover box optional)</p>
Top bracket material	<p>5mm steel in galvanized finish.</p>
Safety edge	<p>Pneumatic safety edge with rubber profile at the bottom of the door panel. (the pressure switch mounted on the bottom beam).</p> <p>Reverse the door to open when obstructed during the doors closing cycle.</p> <p>The signal from the contact strip is transferred via a spiral cable.</p>
Safety photocell	<p>Safety photo cell in door line, type transmitter/receiver, built into the frames. Reverses the door to open when obstructed during the doors closing cycle.</p>
Actuators	<p>Push button box, up/stop/down, IP65, for non-door side.</p>

Options	
Drive unit	<p>DORTEK drive FL50, 1,1kW, 230/400V, IP 54, with integrated pulse coder. Electric brake with brake release lever on the motor.</p> <p>Hollow shaft drive driving the top tube shaft (30mm) directly.</p> <p>For use with control systems A2 and A0.</p>
Control system	<p>DORTEK drive A2, with touch display in the box front.</p> <p>Soft start/soft stop. Variable opening speed up to 2.5m/s.</p> <p>Variable closing speed up to 1m/s.</p> <p>Supply voltage 1x230V, 16A, 50/60Hz.</p> <p>Inverter, vector control with programmable PLC.</p> <p>Control voltage 24VDC.</p> <p>Cabinet, steel in grey powder coated finish, RAL7035, IP65, 240x600x240mm.</p> <p>Push buttons up/stop/down and non-retractable stop in the box front.</p> <p>Outputs (volts free) for door open/door closed and main alarm.</p> <p>Service counter. Automatic closing possible.</p> <p>For use with drive unit FL50.</p>
Control system	<p><i>DORTEK drive A0.</i></p> <p>Soft start/soft stop. Variable opening speed up to 2m/s.</p> <p>Variable closing speed up to 1m/s.</p> <p>Supply voltage 1x230V, 16A, 50/60Hz.</p> <p>Inverter, vector control. Control voltage 24VDC.</p> <p>Cabinet, ABS in grey finish, RAL7035, IP65, 300x420x200mm.</p> <p>Push buttons up/stop/down and non-retractable stop in the box front. Automatic closing possible.</p> <p>For use with drive unit FL50.</p>
Control system	<p><i>S1-400.</i></p> <p>Designed for supply voltage 3x230V, 50Hz (S1-230).</p>
Control system	<p><i>All control systems.</i></p> <p>Electrical safety edge instead of pneumatic.</p>
Control system	<p><i>All control systems.</i></p> <p>Wireless connection of the safety edge instead of spiral cable.</p>

Options cont.	
Control system	<i>A2 and A0.</i> UPS battery backup, available for control units A2 and A0. (A0 with UPS will set limitations to the acceleration and opening speed while the A2 with UPS can be run as normal)
Control system	<i>A2.</i> Programmed time functions for disconnecting pull cords evenings, etc.
Control system	<i>All control systems.</i> Actuators like Radar motion detectors, loop detectors, radio remote control, pull cords, etc. Traffic light control - standard traffic lights or LED stripes. Code locks or tags to prevent unauthorized access. Preparations for interlock with another door(s).
Emergency opening	Release handle for manual release of the opening spring door- or back side. Automatic control with servo motor which releases and open the door automatically in case of power failure (or fire alarm). The control is backed up by 2 pcs 12V batteries also fitted in a separate control box. (ABS, 400x350x200mm)
Door panel	Door panel in special colour: Yellow (RAL 1023), orange (RAL 2004) or red (RAL 3000). Vision panel (transparent) in the door panel, full width, height 300-1400mm. Door panel flame retardant (grey/black)
Safety	Light curtain covering the clear opening up to 2.5m as extra safety device. Radar motion detector, monitoring the closing.
Seals	Brushes in the frames sealing against the door panel.