

INDUSTRIAL DOORS

FlexiEdge

FAST-ACTION
INDUSTRIAL
DOORS

steril[®]

DOOR
P R O D U C T S



STERIL
SUPERIOR SOLUTIONS BY
QUALITY PEOPLE

Superior solutions by quality people



The Stertil Group provides customised and technically advanced solutions for all loading bay equipment (Stertil Dock Products) and building access solutions (Stertil Door Products) as well as being market leader in heavy duty lifting equipment. Through our own service organisation, Stertil provides the best possible service available.

These superior solutions are conceived, developed and implemented by a team of professional specialists with unique expertise. Stertil's quality people make the difference in the production and installation of the products, making Stertil a worldwide leading company in loading bay and industrial door solutions.

INTRODUCTION

FlexiEdge is a range of fast-action industrial doors offering exceptional safety, damage resistance and weather resistance.

FEATURES AND BENEFITS

● APPLICATIONS

Suitable for any high-frequency application for all vehicles including fork lifts and pedestrian access. FlexiEdge doors have been installed throughout Europe in warehousing, storage and logistics, retail, manufacturing industry, public transport, airports, food industry, brewing, pharma-ceuticals and waste treatment plants.

● CHOICE OF DRIVE SYSTEMS

Positive drive.

The door curtain is driven positively when closing as well as opening, by means of a toothed driving wheel engaging in a side belt on the door curtain.

Low-friction drive

Doors have low-friction side guides for quiet operation. The door is opened by a conventional roller and closes under its own weight. The advantage of both drive systems is that there are no heavyweight elements, which makes the door safer and requiring less maintenance. A further advantage of the Positive drive is that it will operate smoothly under greater wind pressures than the Lowfriction.

● ENVIRONMENTAL BENEFITS

Speed of operation minimises open time, thus reducing heat loss from the building, conserving energy and lowering CO₂ emissions.

● RAPID PAYBACK

Energy savings reduce fuel bills and mean that doors have a shorter payback period. We can provide a cost analysis for specific installations to demonstrate savings.

● COMFORT CONDITIONS

Rapid operating times help to maintain internal temperatures, so improving staff working conditions, and reducing entry of pollution, dust, vermin and noise.

● ACTIVATION SYSTEMS

A wide range of activation systems allows maximum usage of the doors.

● STANDARDS COMPLIANCE

All doors are CE marked and comply with and generally exceed applicable European harmonised standards including EN 13241-1. Industrial, commercial and garage doors and gates.

FlexiEdge Fast-action industrial doors

INTENSIVE USE

Fast operating speeds and mechanical reliability mean that the doors can be used intensively, minimising open time and making them ideal for high-traffic areas.

ULTRA SAFE

The door curtain is fully flexible with a soft bottom edge. It contains no rigid elements which could cause injury. In addition, a photocell is fitted to all doors, and a bottom edge wireless detector device gives additional 'comfort of use' on all doors with the exception of D-310 LF.

SELF-REINSERTING

The flexible soft-edge door curtain resists damage by vehicle collision. If the door edges are knocked out they are automatically re-inserted in the side guides as the door opens.

SUPERIOR SEAL

The door curtain has a positive air seal on both sides and at the top, while the flexible bottom edge self-adjusts to seal on uneven floors.

WIND RESISTANT

All-weather models have additional reinforcement to achieve a very high resistance to wind loads for exposed areas.

ENERGY SAVING

The exceptional door seals and fast operating speeds minimise heat loss and save energy.



Highly efficient sealing capabilities



Superior wind load capabilities



Superior Exit option

FlexiEdge Fast-action industrial doors



DOOR SELECTION

All doors are purpose-made for each project. The table below summarises the range available.

Doors sizes and speeds are indicative only, and greater speed, width or height may be possible in individual cases.



EXTERNAL DOORS

Suitable for normal exposures

Model	Characteristics	Drive system	Size, maximum width x height (m)	Speed, up to (m/s)	
				opening	closing
M2 P	Medium size range	Positive drive	5.5 x 5.5	2.4	1.2
M3 P	Larger size range	Positive drive	9.0 x 5.5	0.8	0.4
D-501 P	Medium sizes, faster opening, near silent operation	Positive drive	5.5 x 5.5	2.4	1.2

EXTERNAL ALL-WEATHER DOORS

Provide greater weather resistance for exposed locations, extreme wind loads

M2 AW	Medium size range	Positive drive	5.5 x 5.5	2.4	1.2
M3 AW	Larger size range	Positive drive	8.0 x 5.5	0.8	0.4

INTERNAL DOORS

	Characteristics	Drive system	Size, maximum width x height (m)	Speed, up to (m/s)	
				opening	closing
M2 C	Medium size range	Positive drive	5.5 x 5.5	2.4	1.2
M3 C	Larger size range	Positive drive	11.0 x 5.5	0.8	0.4
D-501 C	Medium size range, near silent operation	Positive drive	5.5 x 5.5	2.4	1.2

INTERNAL DOORS, SPACE SAVING

	Characteristics	Drive system	Size, maximum width x height (m)	Speed, up to (m/s)	
				opening	closing
D-310 LF	Entry level door for less intensive use up to 25,000 cycles/year	Low friction	3.0 x 3.0	1.0	1.0
D-313 LF	Faster opening	Low friction	3.5 x 3.5	2.7	0.5
D-311 LF	Larger sizes	Low friction	4.0 x 4.0	1.2 (2.0)***	0.5

SPECIAL PURPOSE DOORS

	Characteristics	Drive system	Size, maximum width x height (m)	Speed, up to (m/s)	
				opening	closing
Cleanroom - limited air leakage					
D-313 LF C	Faster opening	Low friction	3.5 x 3.5	2.7	0.5
D-311 LF C	Larger sizes	Low friction	4.0 x 4.0	1.2 (2.0)***	0.5
Emergency exit - breakthrough curtain					
M2 E	Larger sizes	Positive drive	5.5 x 5.5	1.2	0.6
D-313 LF E	Space saving, faster opening	Low friction	3.5 x 3.5	2.0	0.5
Freezer/coldroom					
M2 F	Minimises heat transfer. Insulated curtain available	Positive drive	4.0 x 5.5	2.4	1.2

*** optional speed

STANDARD COLOURS

Black
RAL 9005

Blue
RAL 5002

Green
RAL 6005

Grey
RAL 7035

Orange
RAL 2004

Red R
AL 3000

White
RAL 9010

Yellow
RAL 1003

Colours shown are print
indications only and may
not exactly match the
Ral system

DESCRIPTION

OPERATION

Control box. User-friendly control box with self-diagnosis feature.

Motor. Frequency inverter motor and encoder for smooth operation and reliability (except D-310 LF which has single speed drive). Wearable parts are reduced to a minimum. The D-313 LF has the motor inside the drum for a slimmer space-saving installation. Emergency manual opening in the event of a power failure is via a short manual hand crank inserted at the motor position.

SAFETY SYSTEMS

Infra-red photocell detector 300mm above floor level. In addition a bottom-edge wire-less detector device gives additional comfort of use.

EMERGENCY EXIT DOORS

T-shaped break-out section in the centre of the curtain allows emergency exit by pushing on the marked emergency release area spot.

MATERIALS

Door structure is galvanised steel. Stainless steel is available as an option.
Reinforced polyethylene side guides.

DOOR CURTAIN

Flexible and durable curtain with no rigid elements. Reinforced polyester sandwiched between PVC layers.

Curtain options.

- Vision panels
- Corporate logos
- Vision windows
- Translucent Stertil Lumin curtain
- Insulated door curtains for chill and freezer applications
- Fly screen curtains
- Corporate logos printed on doors.
- For vision panel sizes and more details contact your Stertil Area Technical Sales Manager.

APPEARANCE

Range of standard RAL colours shown illustrated as a guide only. Company name, logo, or other information may be printed on the door curtain.

PERFORMANCE

WEATHER PERFORMANCE

Classes given in the table apply to the largest doors of that type; notes in brackets indicate where a higher class can be achieved for a smaller door.
All sizes given as W x H

Door model	Resistance to wind load EN 12424 & EN 12444	Resistance to water penetration EN 12425 & EN 12489	Air permeability EN 12426 & EN 12427
EXTERNAL			
M2 P	Class 3 (Class 4 up to 4.0 x 5.5m)	Class 2	Class 1
M3 P	Class 2 (Class 3 up to 6.0 x 5.5m)	Class 1	Class 1
D-501 P	Class 2 (Class 3 up to 4.0 x 5.5m)	Class 2	Class 1
EXTERNAL ALL-WEATHER			
M2 AW	Class 4 (Class 5 up to 5.0 x 5.5m)	Class 3	Class 1
M3 AW	Class 3 (Class 4 up to 6.0 x 5.5m)	Class 1	Class 1
INTERNAL			
M2 C	Class 1	Class 1	Class 1
M3 C	Class 1	Class 1	Class 1
D-501 C	Class 1	Class 2	Class 1
D-310 LF	Class 1	-	-
D-313 LF	Class 1	Class 3	Class 2
D-311 LF	Class 1	Class 2	Class 1
SPECIAL-PURPOSE (INTERNAL DOORS)			
Cleanroom			
D-313 LF C*	Class 1	Class 3	Class 4/3**
D-311 LF C	Class 1	Class 2	Class 3/1**
Emergency exit			
M2 E	Class 1	Class 1	Class 0
D-313 LF E	Class 1	Class 1	Class 0
Freezer/coldroom			
M2 F	Class 1	Class 1	Class 1

* Certified by Fraunhofer Institute for use in Cleanrooms complying with ISO 14644-1: 2010
Classes 6 to 8 and GMP guidelines up to Class C.

** Class overpressure/underpressure (with door installed externally to cleanroom)



Choice of print available

FlexiEdge Fast-action industrial doors

SAFETY

All doors achieved a Pass grading to EN 12453 and EN 12445.

MECHANICAL ASPECTS

All doors achieved a Pass grading to EN 12604 and EN 12605 for mechanical resistance and unintended movement.

OPERATING CYCLES

Tested to EN 12604 and EN 12605. D-311, D-313, D-501 and M2 doors: for 1,000,000 cycles. M3 doors: for 750,000 cycles. Less intensive use, D-310 LF, 25,000 cycles/year.

THERMAL TRANSMITTANCE

To EN 12428: All standard doors: $6.02\text{W/m}^2\text{K}$.
M2 F insulated doors: $2.42\text{W/m}^2\text{K}$.



ACTIVATION SYSTEMS

A range of activation systems can be supplied to maximise the effectiveness of FlexiEdge doors.

MANUAL



Push button pads incorporating auto timed close function are standard. Pull cord, both wired and wireless, and keyoperated switches are also available.

INDUCTION LOOPS



The door opens automatically with closure after a time delay. Induction loops are set in the floor on one or both sides of the doorway, and can be tuned to optimise operation for the type of traffic. Can also be configured to cut out the effect of passing cross traffic. Not actuated by pedestrians.

PHOTOCELLS



Set on both sides of the doorway to initiate opening and closing, as well as providing additional safety. Typically mounted on posts or handrails to suit the flow of traffic.

RADAR



Initiates opening and closing, and may also act as a safety detector. Detects both vehicle and pedestrian traffic. Normally fitted above or at one side of the doorway, and range can be set at up to 10m. Can be tuned to suit directional traffic flow and for object shape/size sensitivity.



RADIO OR INFRA RED TRANSMITTERS



Hand-held or truck-mounted activation transmitters, with the receiver normally mounted in the door control panel. Codes can be preset so that doors can only be operated by authorised personnel.

'AIR LOCK' CONFIGURATION



To provide maximum control of heat loss, a pair of doors can be installed and set to operate in sequence so that only one is open at a time, forming an 'air lock'. Any automatic or manual activation system can be used, combined with traffic lights or audible alarms.

TOUCHLESS HAND-FREE DETECTOR



Activation of doors by movement of hand.

ACTIVE INFRA-RED



Presence detector with built in stationary object detection and movement sensor.

TRAFFIC AND WARNING LIGHTS



These can be linked to door operation for additional safety in working. Audible alarms can be used to warn of traffic approach or door movement.



SERVICES

SELECTION AND ADVICE

Technical representatives are available throughout the UK to discuss your requirements and advise on suitable door types. Contact us at the address below or use our online enquiry form at: www.stertil.co.uk.

INSTALLATION AND MAINTENANCE

Detailed installation drawings and technical specifications can be supplied in hard copy, on CD-ROM or by email on request. Doors are installed by our own fully trained and experienced engineers, based throughout the UK. We can offer contracts for regular planned maintenance, as well as a 24-hour emergency repair service.

5-YEAR WARRANTY

Our confidence in our product quality and service is demonstrated by our offer of a 5-year warranty.

STERTIL DOCK PRODUCTS & LOADING BAY EQUIPMENT INCLUDES:

- Dock Shelters & Seals
- Dock Levellers
- Vehicle Restraint Systems COMBILOK®
- Other Dock Equipment e.g. Traffic Lights, Bumpers, Wheel Guides
- Scissor Lift Tables

STERTIL DOOR PRODUCT RANGE INCLUDES:

- FlexiEdge Fast Action Industrial Doors
- Rapid Roll Fast Action Industrial Doors
- Thermador Sectional Industrial Doors
- Roller Shutters
- Personnel Doors



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