

Delta Speed 7000 Clean High Speed Door Product Data Sheet 3 / 11

Product Description

The Delta Speed 7000 Clean high-speed door uses the latest technology to provide a very simplistic high speed door designed specifically for clean room applications where the door is required to reliably provide a fast opening barrier from one department to another with minimal air transfer even with the door in the close position.

The door is available in sizes up to 3.5m wide x 3.5m high.

All Enerco high-speed doors are manufactured in modular design and are almost maintenance free. This results in outstanding operational reliability, fast and inexpensive repairs when damage occurs, as well as low operating costs.

This is especially true of this door which features special innovative air seals to ensure the door provides minimum air loss at pressures up to 50 pascal (Pa).

The UHMWPE polyethylene guides provide an optional self-repairing system should the curtain be dislodged by impact. The door will simply recover its position with one open and closing cycle.

High-speed doors protect from drafts, keep temperature zones at a constant temperature and insulate against noise. In addition to this, they help to improve security and the working environment.

The Delta Speed 7000 Clean has opening speeds of up to 2000mm per second and 600mm per second variable closing speeds depending on the controls chosen.



The door features an integral control panel that controls the functions of the door. A UPS battery back-up system is available to open the door in the event of power failure.

Applications

- As an internal door in chemical, pharmaceutical, aircraft manufacture and other high clean component applications where goods are transferred and produced.
- To minimise air transfer by automatically opening and closing quickly and safely.
- Minimise air loss and maintain constant temperatures

Curtain Design

The curtain is made from a class 2, 1700g/m² self extinguishing, anti-static polyester fabric coated with colour impregnated PVC and is available in two standard colours. Please see page 2 of this product data sheet for the range available.

The bottom profile is complete with a fail-safe conductive wireless leading edge that constantly evaluates the leading edge and will reopen in the event of the closing cycle being blocked.

The curtain is available as standard with two rows of vision sections with each of the sections measuring 300mm high x 850mm wide or 300mm high x 1200mm wide and the number of sections is dependent on the curtain width.

These vision sections can be placed as standard or to suit the surrounding area i.e. if they need to be in line with surrounding windows.

Curtain Colours For 1700g/m²



White similar to RAL 9010



Dark Blue similar to RAL 5002

Frame Design

The vertical side guides and head assembly are manufactured from stainless steel with integral ultra high molecular weight polyethylene (UHMWPE) curtain guides and sealing system. The motor cover is manufactured from stainless steel AISI 304. The side frames incorporate integral photocell, push button and emergency stop as well as the control panel.



Door Drive Mechanism and Control Panel

The integral control circuit monitors that safely elements of the door functions including the failsafe diagnostics required for the door to comply with European Directives 98/37/CE and 89/106 /CE.

The power supply required to support the door is 240v single phase 16 amp and via the inverter drive the curtain is driven using a 415v 3 Phase heavy duty motor complete with shaft encoder and electrically operated brake. This ensures all aspects of the door are controlled from within the control panel and there is no need to access the motor arrangement.

The control panel also houses the various activation and safety connections, including mounting the loop controller or radio control receivers.

A UPS battery back is available to open and close the door in the event of power failure.

Safety Features

- Photocell protection
- Electric safety edge
- Emergency opening handle (standard)
- All safety features are failsafe
- Self repairing curtain if accidentally knocked out

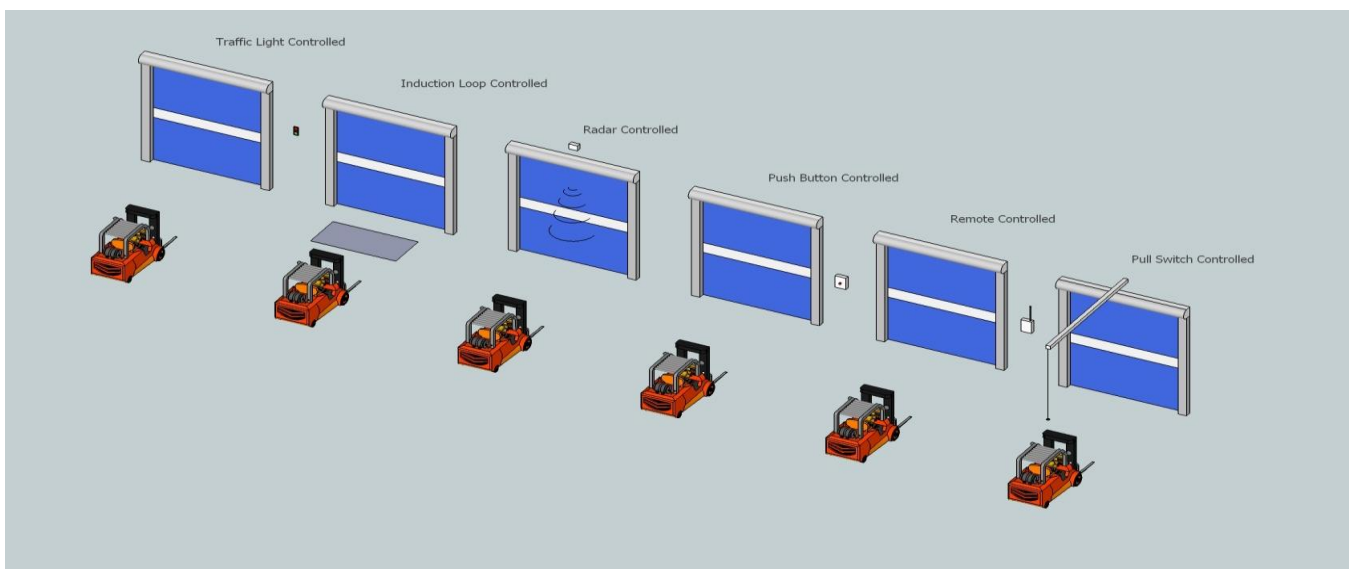
Remote Controls

The door can be supplied with additional remote controls. These fall into two categories, activation and safety. When wired to activate, they will open the door from its closed position, stop the door from closing when open and stop / reverse the door when closing.

When wired to safety the features are the same as to activate however the door will not open when closed.

Remote controls include those shown below (left to right) interlocked and traffic light controlled, induction loops, radar (motion and presence sensor), push buttons, radio / infra red controls or pull switch operation.

Other methods of operation are available such as light grilles, photocells etc i.e. virtually any method providing which momentarily closes a 0 volt normally open circuit. In addition dependant on the complexity of the operation, it may be necessary to use a combination of two different types. For example where you have numerous doors in close proximity using a radar and radio control gives high control over the doors rather than using multi channel transmitters. Our sales team will be pleased to discuss the options with you.





Warranty

The Delta Speed 7000 Clean doors are supplied with a 24 month parts and labour warranty as standard providing the equipment is maintained in accordance with the manufacturer's instruction and not modified in any way whatsoever. Full details of the servicing requirements are available.

Servicing

To help protect your investment and extend the effective working life of the equipment, full maintenance packages are available and, in most cases, we can maintain all of your existing doors and loading bay equipment. The door must be serviced at least once per annum.

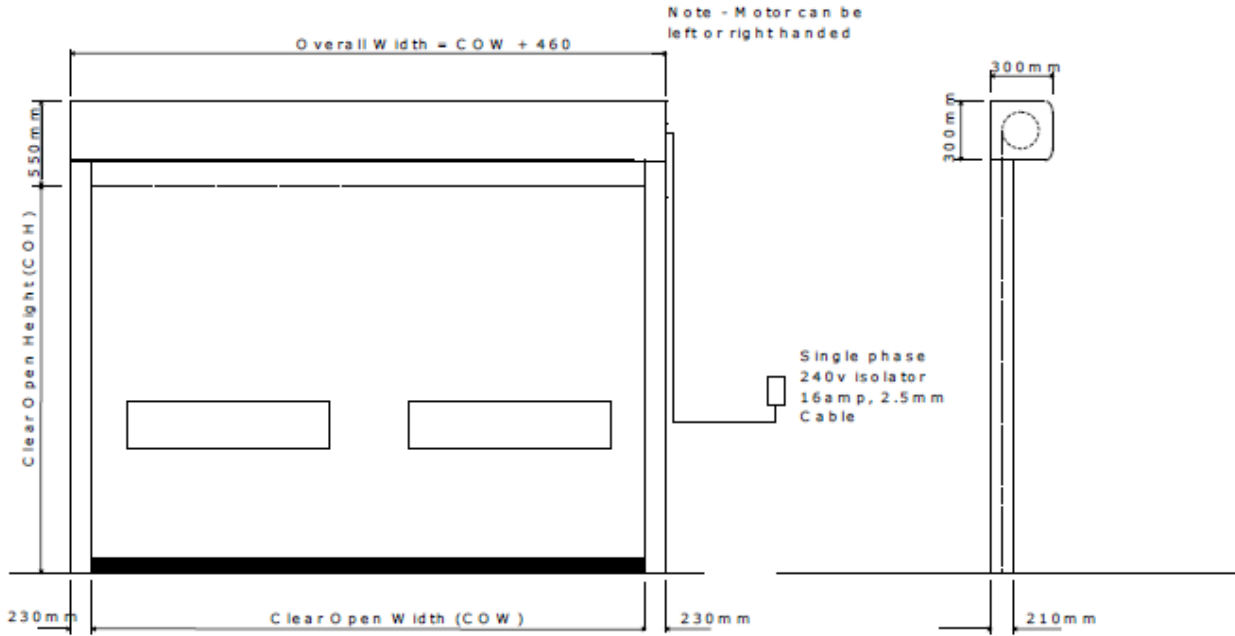
Full details of our preventative maintenance packages are available on request. Enerco recommend the first service is carried out 6 months after installation.

We have Worksafe Contractor, CHAS and Construction Line accreditation as well as being active members of the Doors and Hardware Federation (DHF) where we have their seal of approval for the service and maintenance of doors. We ensure that our staff are trained to the highest standard and all have an NVQ qualification in line with current industry guidelines This NVQ is in addition to the CSCS Health and Safety, First Aid, Asbestos Awareness and other training including product training applicable to our industry and is continually being updated.

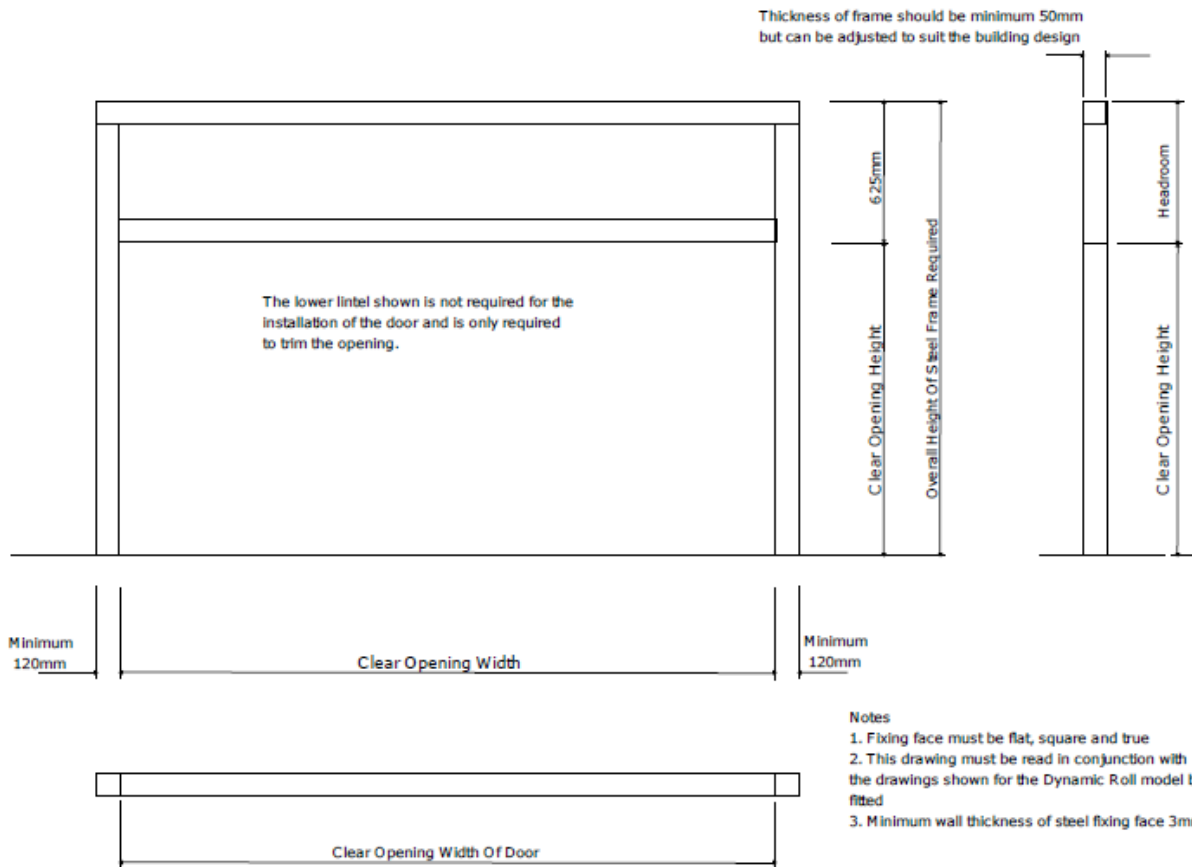


Technical Data

Application	Internal	Yes
	External	No
Speed	Maximum opening speed	2.0m/s
	Closing speed variable	0.6m/s
CE Marked	Manufacturers Declaration Of Conformity	Compliant
Mechanical compliance	BS EN12604	Compliant
Safe Use Of Power Operated Doors	BS EN12453	Compliant
Safety equipment	DIN EN13241 - 1	Compliant
Resistance against wind pressure	DIN EN12424	Class 2
Air Permeability	DIN EN12426 - 7	Class 3
Water Tightness	DIN EN12425	Class 3
Door sizes	Width LB max. mm	3500
	Height LH max. mm	3500
Space requirement for fitting	Side room	230mm both sides
	Headroom depending on size	550mm
Control Panel Style & Size	FU controls integral to side guides	Standard
Operating Temperature range	Subject to application	-30°C - +70°C
Door construction	Stainless steel AISI 304	Included
Curtain / Door leaf	1700gm Anti static polyester reinforced coloured PVC	Included
Anti crash facility	With soft edge	Optional
Guide Material	Stainless Steel c /w UHMWPE self lubricating section	Included
Motor Cover	Stainless steel AISI 304	Standard
Operator and controls	Frequency converter	Included
	Supply voltage	1PHNE
	Open button	Included
	Emergency Stop	Included
	Fuse	16amp slow acting
	Protection category	IP65 standard
	Safety protection	Included
	Photocell	Included
	Wireless safety edge	Included
	Timed closing	0 - 200 seconds
	Electronic limits	Included
Emergency Opening	Counterbalance	Included
	Battery back-up	Optional
Activators	Induction loop	Optional
	Photocells	Optional
	Pull cords	Optional
	Radar	Optional
	Radio control	Optional
	Proximity Sensor	Optional
Accessories	Traffic lights	Optional
	Flashing beacon	Optional
	Audible alarm	Optional
	Protection barriers / Bollards	Optional



General Layout Drawing Of Delta Speed 7000 Clean High Speed Door

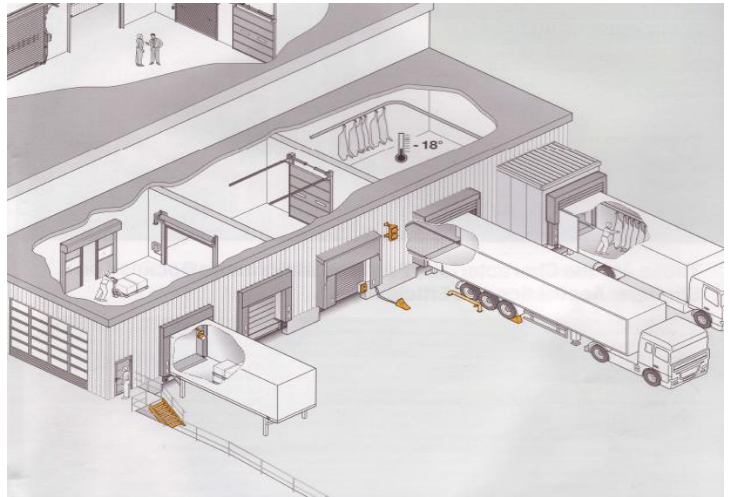


Steel Frame Requirement For Delta Speed 7000 Clean High Speed Door



Other products in the Delta range from Enerco include: -

- Delta Guard – Commercial Shutters
- Delta Roll – Steel Roller Shutter Doors
- Delta Check – Fire Roller Shutter
- Delta Secure – High Speed Security Doors
- Delta Slide – Insulated Overhead Doors
- Delta Insudoor – Insulated Roller Shutters
- Delta Part – High Speed Bi – Parting Doors
- Delta Strip – Strip Curtains
- Delta Steel – Steel Security Door Sets
- Delta Fold – Steel Sliding Folding Shutters
- Delta Level – Dock Levellers
- Delta Lift – Scissor Lifts
- Delta Seal – Dock Sealing Systems
- Delta Shield – Perimeter Security
- Delta Bar – Window Bars
- Delta Grille – Retractable Window Grilles
- Delta Service – Service and Repairs
- Delta Load – Loading Bay Accessories
- Delta Glide – Garage Doors



Please contact our sales team for more information on 01525 289322 or a brochure. Alternatively visit our web site www.enerco.co.uk or our dedicated high speed door site www.enercohighspeeddoors.co.uk where you will see our full range of high speed doors as well as a series of videos.

We reserve the right to change the specification of this product or alter the product data sheet without prior notification