

Delta Speed 7000 Dynamic Roll High Speed Door

Product Data Sheet
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Product Description

The Delta Speed 7000 reset high-speed door uses the latest technology to provide a very simplistic high speed door for a variety of applications that require proven reliability in standard sizes up to 7m wide x 5.4m high. Other sizes are available subject to application.

This model of door is available for a wide variety of applications. The 7000 Clean is manufactured using stainless steel materials with a 1700g/m² curtain which will operate where pressure differentials of up to 50Pa are present. The 7000 Food design is manufactured from either stainless steel or a complete polyethylene frame with stainless steel accessories ensuring the door can be jet washed during cleaning processes.

The range is further enhanced by the Frigo 2 model which can operate in temperatures as low as -30°C. With its unique twin skin 5mm thick insulated curtains, warm air blower and heater elements the door provides reliable access in these arduous applications.

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 a special innovative self repairing system should the curtain be dislodged by impact. The door will simply recover its position with one open and closing cycle.



Delta Speed 7000 supplied with galvanised guides and canopy neatly installed into the reveal of the opening maintaining the aesthetics of the building. The minimal head and side room requirement as well as the various motor mounting positions, provides the flexibility to mount this door without intrusion into the operational area of the opening.



Delta Speed 7000 Clean supplied with stainless steel guides and canopy with optional blue curtain and front mounted motor

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 Dynamic Roll has opening speeds of up to 2500mm per second and variable closing speeds depending on the controls chosen.

The motor, control and safety systems and the optional modular counterweight balancing system are neatly housed in the head assembly and vertical guides. A UPS battery back-up system is available to open the door in the event of power failure and can provide up to 40 operational cycles.

Applications

- To minimise energy losses by automatically opening and closing quickly and safely.
- Minimise draughts and maintain constant temperatures
- As an internal or external door where goods are despatched and received on a regular basis.
- In busy traffic doorways
- Ideal for maximum pest / vermin control
- Enhance the aesthetic appearance
- Ideal for windy application
- Supermarkets between sales floor and back stage areas including large LOGO areas printed onto the curtain
- Cold store areas
- Clean room applications
- Food preparation areas
- Fire escape routes
- Car wash areas



This large Delta Speed 7500 demonstrates the ability of the curtain to withstand impact from vehicle traffic. The next opening cycle will self repair the curtain and the door will automatically close ready for use. No tools needed and automatically

Curtain Design

The curtain is made from a class 2, 1300g/m² self extinguishing polyester fabric coated with colour impregnated PVC and is available in a range of standard colours. Please see page 3 of this product data sheet for the range available. Other colours are available at extra cost in 900g/m². Please ask your Enerco contact to discuss this option if required

The simplistic curtain design has strengthening and stability strips to ensure effective protection against cold, heat, dust, noise, and high resistance to wind pressures up to 90km/h subject to size of the door. These strips also ensure that only the strips roll onto each other thus minimising any potential marking of the curtain vision sections

The bottom profile is complete with a fail-safe conductive wireless leading edge as standard on doors over 3m width or height. For smaller doors the standard is the Diameter Sensing Controls (DSC) that constantly evaluates the diameter of the barrel to ensure that if the door is interrupted during its closed cycle and the curtain is prevented from uncoiling, the door is automatically stopped and reopened.

The curtain is available as standard with one row 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.

Larger vision sections are available for areas where high levels of natural daylight are required.

Frame Design

The vertical side guides and head assembly are manufactured from hot galvanised steel and are available in either a powder coated finish to standard RAL colours as detailed on page 3 or alternatively can be manufactured from AISI 304 stainless steel if required. The side frames incorporate a self lubricating sliding guide that is sprung loaded to assist with the wind load and ensure the curtain is taught.

Door Drive Mechanism and Control Panel

Controls consist of an IP65 rated integrated control panel that safely controls all 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 control panel is equipped with a sequential push button, emergency stop push button as well as the isolator on the front cover.

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 (standard)
- Electric safety edge (standard on all doors over 3m width or height and optional below these dimensions subject to application and our engineer's recommendations).
- Diameter Sensing Controls (DSC) that constantly evaluates the diameter of the barrel to ensure that if the door is interrupted during its closed cycle and the curtain is prevented from uncoiling the door is automatically stopped (standard on all doors below 3m width or height)
- Emergency opening handle (standard)
- All safety features are failsafe
- Self repairing curtain if accidentally knocked out

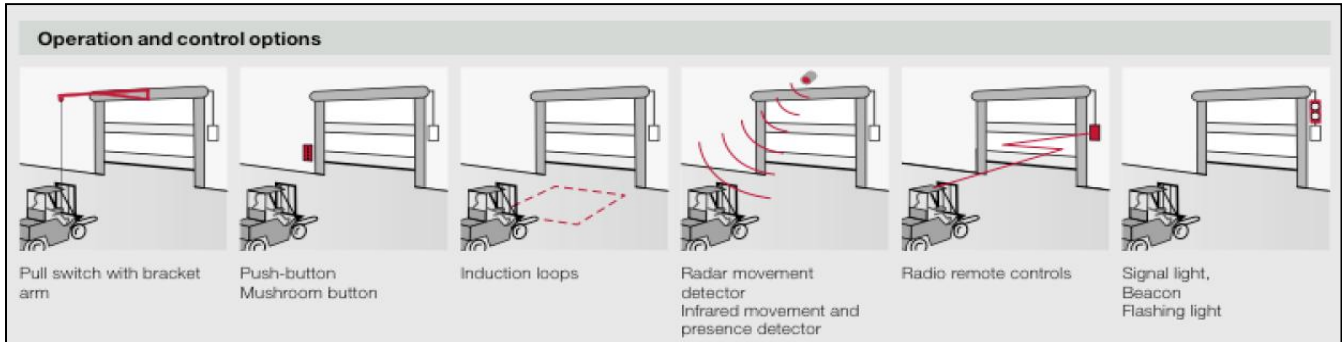


Standard IP55 rated pre coated steel control casing complete with integrated inverter controls and accessories if required

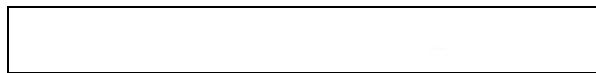
Remote Controls

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 induction loops, photocells, radar, push buttons / pull switch operation or radio / infrared controls.



Curtain Colours For 1300g/m²



White similar to RAL 9010



Yellow similar to RAL 1003



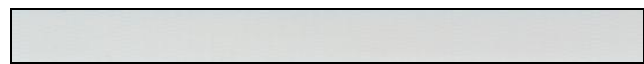
Red similar to RAL 3002



Dark Blue similar to RAL 1015



Orange similar to RAL 2004



Light Grey similar to RAL 7035

Additional colours are available in 900g/m² material including Green RAL6028, Beige RAL1015, and Light Blue RAL5012

At special request your company's logo could be applied to the curtain to advertise your product, brand or company name. Special instructions "no pedestrian access" or "Restricted Area" can also be added to suit your particular requirements.

Guide and Canopy Colours

As standard the guides are supplied galvanised with optional stainless steel depending on model. In addition the doors can be customised with powder coated finishes in White RAL 9010, Red RAL 3000, Dark Blue RAL5010, Grey RAL7037, and Green RAL6005.

7000 Frigo 2 Model

The curtain material is 5mm thick insulated 1500g/m² and available in colours Dark Blue RAL5002, Green RAL6026, Grey RAL7038 and White RAL9010.

The frame will be supplied in either galvanised or stainless steel finish.

Maximum size of this door is 3500mm x 3000mm.

7000 Clean Model

The curtain colour available in this model is White RAL9010.

The frame will be supplied in stainless steel.

Maximum size of this door is 3000mm x 3000mm.

7000 Food Stainless or PE

Full range of 1300g/m² colours as shown above.

The frame is manufactured from AISI 316 grade stainless steel.

Maximum size of this door in stainless steel is 4500mm x 4500mm and in the PE material 4000mm x 4000mm.



Tall Delta Speed 7000 manufactured for one of the world's leading pharmaceutical organisations using high narrow aisle forklifts travelling through segregated areas



Fire Exit Route Applications

Where the door is required to be compliant with emergency escape procedures there are three options available.

The first, the door can be supplied with a UPS battery back-up which either automatically opens the door on activation of the alarm or can be manually opened on request.

The second option is to use the optional counterweight which can either automatically open the door in the event of power failure or manually disengaged by pulling the release cord.



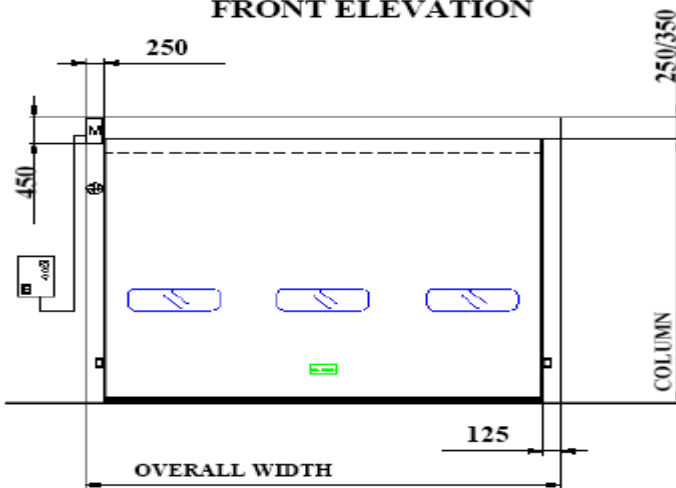
The third option is the door can be supplied with a simple, unique pass door which is easily returned to full operation when the emergency has returned to normal. Simply undo the Velcro secured edge and walk through the door. To return to normal operation simply press the two edges back together and the door is back to normal operation.

Technical Data

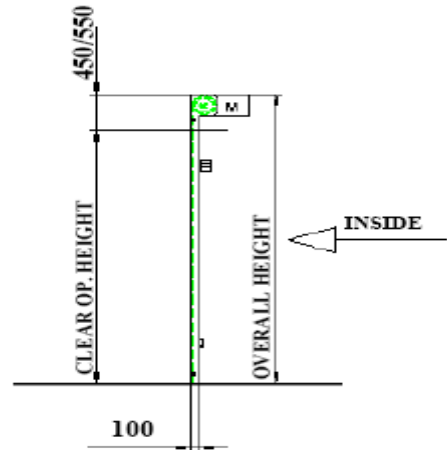
Application	Internal	Yes
	External	Yes
Speed	Maximum opening speed	2.5m/s
	Closing speed variable	0.5m/s
CE Marked	Manufacturers Declaration Of Conformity	Compliant
Mechanical compliance	BS EN12604	Compliant
Safe Use Of Power Operated Doors	BS EN12453	Compliant
Safety equipment	DIN EN13241 – 1	Compliant
Resistance against wind pressure	DIN EN12424	Class 2 (90km/h)
Water Tightness	DIN EN12425	Class 3
Door sizes	Width LB max. mm	7000
	Height LH max. mm	5400
Space requirement for fitting	Side room both sides front mounted motor	125mm
	Side room side mounted motor	375mm motor side 125mm non drive side
Control Panel Style & Size	Headroom depending on size	450 / 550mm
Operating Temperature range	FU controls in steel casing (W x H x D)mm	300 x 400 x 150
Door construction	Subject to application	-30°C - +70°C
Curtain / Door leaf	Self supporting	Included
Anti crash facility	1300gm Polyester reinforced coloured PVC	Included
Guide Material	With soft edge	Included
	Galvanised steel	Included
	Powder coated RAL choose colour	Optional
	Stainless steel AISI 304	Optional
Barrel Cover	Standard	Optional
Operator and controls	Frequency converter	Included
	Supply voltage	1PHNE
	Open button	Included
	Emergency Stop	Included
	Fuse	16amp slow acting
	Protection category	IP55 standard
		IP65 optional
	Safety protection	Included
		Optional
		Included
		0 – 200 seconds
Emergency Opening	Timed closing	Included
	Electronic limits	Included
	Hand crank	Included
	Battery back-up	Optional
	Counterweight	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



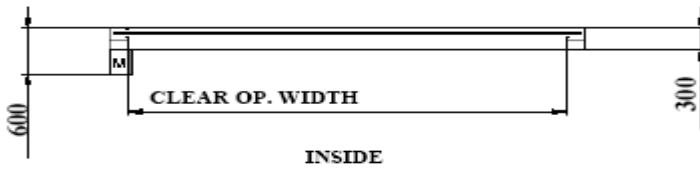
FRONT ELEVATION



SECTION

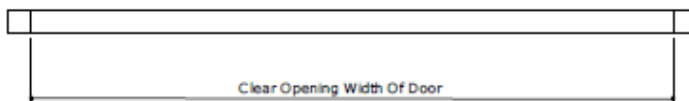
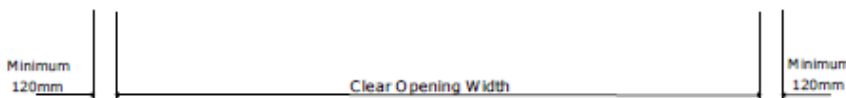
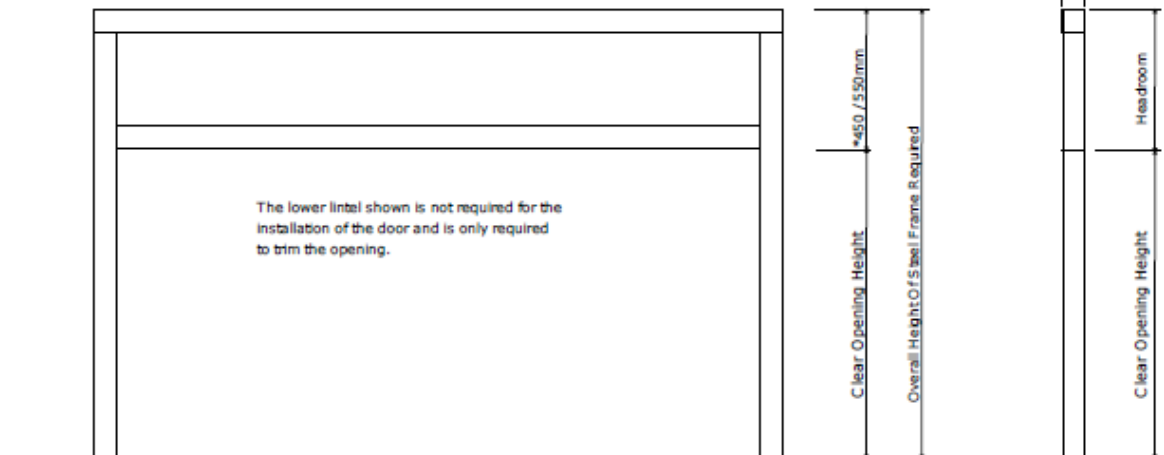


PLAN VIEW



The headroom dimension is dependant on the clear opening size of the door and whether the motor is front or side mounted

Thickness of frame should be minimum 50mm but can be adjusted to suit the building design



Notes

1. Fixing face must be flat, square and true
2. This drawing must be read in conjunction with the drawings shown on the Delta Speed 7000 Product Data Sheet 3 / 15 detailing the clearances required to install the product
3. Minimum wall thickness of steel fixing face 3mm

Warranty

The door is supplied with a 24 month parts and labour warranty as standard providing the equipment is serviced by an Enerco trained fully qualified high speed door engineer in accordance with the service intervals detailed below. To satisfy the requirements of the warranty, an agreement must be signed and dated within 30 days of the installation date. Failure to service the product in accordance with the service schedule or by unqualified engineers will result in the warranty being null and void.

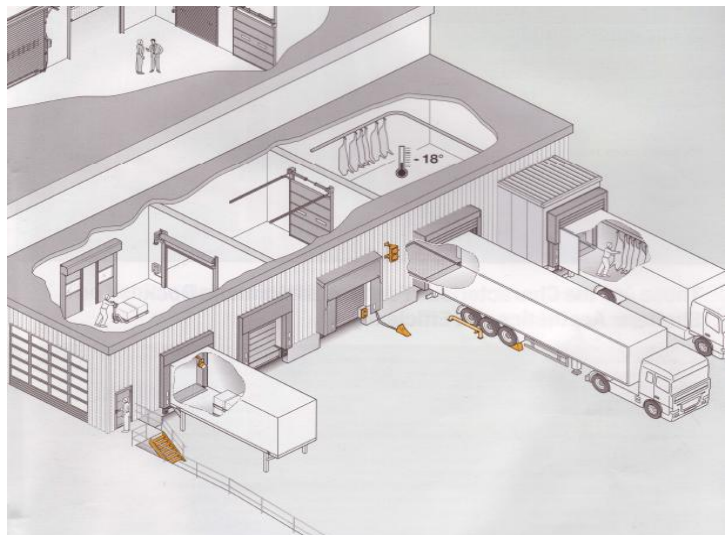
Servicing

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 or every 100,000 cycles whichever is applicable. Full details of our preventative maintenance packages are available on request. Enerco recommend the first service is carried out 6 months after installation to ensure the number of cycles can be monitored.

We have Safe 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.

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

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

