

Delta Seal 3000 Inflatable Dock Shelter

Product Data Sheet 11 / 3

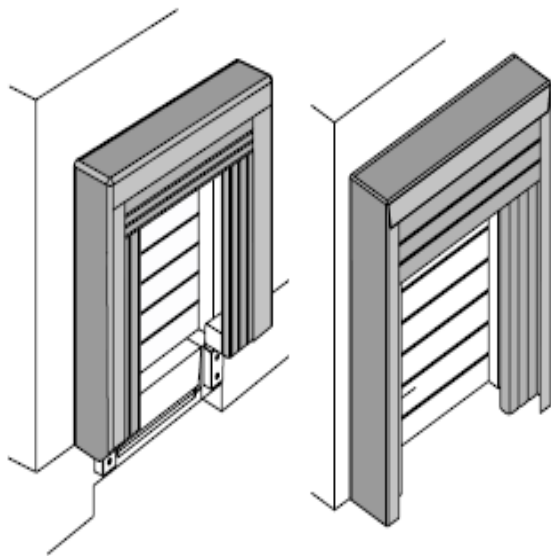
General Description

Dock seals are widely used to seal the gap between the vehicle and the building so that when the loading door is open the goods and personnel are protected from the inclement weather conditions. Inflatable dock shelters are becoming increasingly popular because they adapt precisely to the size of the trailer or container and therefore have excellent sealing qualities.

Especially in our current unpredictable weather patterns these dock shelters are not a luxury but more a Health & Safety and quality assurance necessity.

Benefits include

- The saving in energy costs is considerable and carbon footprint reduced due to the extra tight sealing.
- It is less likely that goods will be soiled, get wet, inadvertently heated (when an appropriate shelter /seal is used), product stolen or damaged in some other way.
- Personnel fall sick less frequently
- Birds, insects and other vermin are no longer able to fly into the building.
- When the shelter is not being used the cushions are fully retracted tautly into the housing where they are protected against wind and wear.
- Aesthetically pleasing due to the defined lines when not in use.



Type Of Shelter / Seal

Which type of shelter is ideally suited to your operational requirements should be based on the following criteria;

- Frequency - how often is the door to be used for loading and unloading purposes?
- Duration - how long does the loading and unloading process take?
- Goods - What type of goods are being protected?
- Vehicles - What is the size (maximum & minimum widths and heights), shape and types of vehicles or containers?
- Discipline - Who will be using the loading bays? This is especially true of the inflatable seal where wheel guides, traffic lights and composite controls are all recommended to ensure the efficiency of the loading system

It's not the door that dictates the size but the trailer dimensions. Remember even the lowest of vehicles can be accommodated just ask Enerco to design the type of shelter required.

Installation Requirements

A minimum 75mm wide flat stable fixing face is required to mount the dock shelter on all three sides. This can be either steel, concrete or other material providing the material is suitable for our 8mm dia. fixings. In addition a 3 phase power supply will be required.

Requirements Of The Dock Door

The door opening should not be too small as a trailer or container with its doors opened often has an external dimension of 3000mm and a high vehicle such as double deck trailers combined with inclined loading bays often results in the trailer top being behind the outer structure of the building. In these cases the doors need to be wider than the maximum width of the trailer and / or the dock face must protrude further than the building structure. When considering these parameters ensure that the correct buffers are installed.

Size Calculation

The optimum height of the dock shelter is calculated by taking the maximum height of the trailer and adding 500mm. The head curtain height is calculated by subtracting 100mm and the minimum trailer height from the overall height. The standard dock height mounted shelter is 3600mm wide x 3700mm high x 900mm projection with 1500mm drop head cushion and 800mm wide side cushions.

General Description

The Delta Seal 3000 heavy-duty inflatable dock shelter model can be mounted at the dock height or ground level as determined by your operational requirements.

As explained above, the size of the dock shelter is dictated by the range of trailers that will be using the equipment. To the left are shown two inflatable dock shelters specifically manufactured to suit the clients requirements.

When not in use the head and side front curtains protect the inflatable cushions providing clean lines to the aesthetics of the loading bay. When in use the three phase 415v motor inflates the cushions to create a tight seal around the trailer.

The vehicles complete the docking process before the cushions are inflated and when inflated they affect a touch seal on the head and side of the vehicles.

Inflatable shelters can be combined with seal pads to have a compression seal to the sides and touch seal to the top of the trailer. This is applicable where a wide range a trailer heights will be needed.

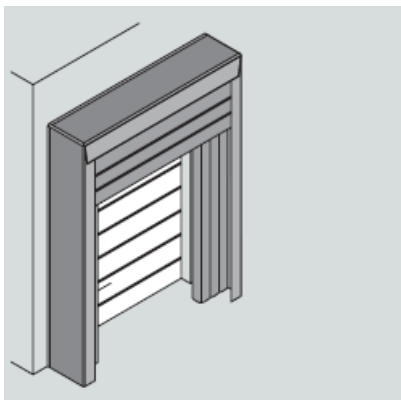
Frames

The roof and side frames are constructed from 50mm thick insulated panels finished in white. The panels can be coloured at extra cost to suit specific aesthetic requirements.

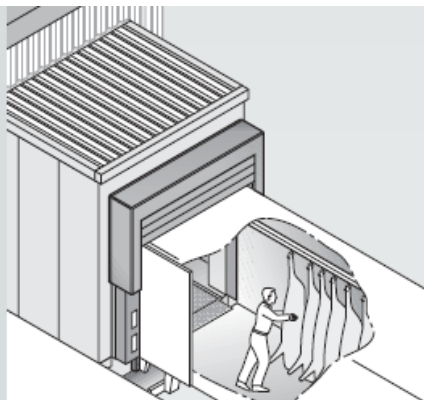
The panels have galvanised steel channels on the edges for strength and fixing and be supported by yellow support brackets on the underside of the side panels for additional strength.

The front edges will be finished in an anodised aluminium angle 25mm x 50mm to secure the storage curtains which protect the deflated air bags.

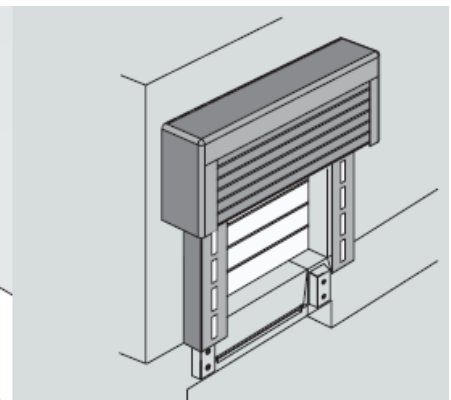
The roof panel will be sloped from rear to front to assist rainwater drainage.



Level Access Design



Dock Height Unit Combined With Seal Pads To Both Sides



Dock Height Mounted Unit

Cladding

The flexible cladding on the sides and roof will be heavy-duty 600gm m2 black PVC/polyester material. A translucent material is also available should more light be required within the dock. The roof will fall slightly to the front to assist with drainage.

Curtain Material

The head and side storage curtains are made from heavy duty 3mm thick black PVC and the air bags from a robust 600 denier woven nylon with black finish. All materials are colourfast and treated. The front curtains will have yellow line markers to ensure the vehicles are guided centrally between the two vertical side curtains.

Operation

The side air bags have an internal retraction system in order that they can store flat behind the side storage curtains. The head air bag which is full width and sits in front of the vertical side air bags is mounted from the roof panel and when not in operation is retracted by means of a weight operated roller.

All three air bags are inflated by a motor/fan unit housed within the underside of the roof insulated panel. The power supply requirement is 415v 3 phase 10amp.

An ON/OFF switch is supplied and mounted internally within 1m of the door to control inflation/deflation of the air bags. Alternatively this switch can be incorporated into the composite control to ensure the correct sequence is observed by the loading bay operator



Optional Accessories

- Corner side pads for four-side sealing
- Bottom curtains for level access shelters
- Bay numbers welded on to head curtains
- LED traffic lights with or without automatic operation.
- Wheel Guides 168mm dia. steel tube, yellow or galvanised finish cast in or bolted type. (Recommended)
- Bollards 168mm dia. x 1200mm high steel tube, yellow or galvanised finish, cast in or bolted type
- Rubber Buffers
- Composite control panels

Warranty

The Delta Seals 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.

Other products in the Delta range from Enerco include: -

Delta Guard – Commercial Shutters
Delta Check – Fire Roller Shutter
Delta Slide – Insulated Overhead Doors
Delta Part – High Speed Bi – Parting Doors
Delta Steel – Steel Security Door Sets
Delta Level – Dock Levellers
Delta Load – Loading Bay Accessories
Delta Speed – High Speed Doors
Delta Service – Service and Repairs
Delta Glide – Garage Doors
Delta Glaze – Aluminium Glazed Window and Door Systems

Delta Roll – Steel Roller Shutter Doors
Delta Secure – High Speed Security Doors
Delta Crash – Rubber, Polyurethane & PVC Swing Door
Delta Strip – Strip Curtains
Delta Fold – Steel Sliding Folding Shutters
Delta Lift – Scissor Lifts
Delta Shield – Perimeter Security
Delta Grille – Retractable Window Grilles
Delta Insudoor – Insulated Roller Shutters
Delta Bar – Fixed & Removable Security Window Bars

Please contact our sales team for more information on 01525 289322 or a brochure. Alternatively visit our web site www.enerco.co.uk



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