

# **DOCK SOLUTIONS LTD**

**UK MANUFACTURED LOADING BAY EQUIPMENT AND  
INDUSTRIAL DOORS**

## **DOCK SHELTERS**

**DOCK SHELTERS**

**DOCK SEALS**

**INFLATABLE SHELTERS**



**WEATHER SECURITY AND A SAFE CLOSURE  
SAVINGS ON ENERGY AND IMPROVING WORKING CONDITIONS  
WIDE RANGE OF CONTROL OPTIONS  
DESIGNS THAT NEED LITTLE MAINTENANCE  
LOADING BAY PACKAGES ARE AVAILABLE.**

**GET EXACTLY WHAT YOU NEED AT DOCK SOLUTIONS**

# Dock Shelters

The widest range of competitively priced Dock Seals & Shelters are available to you. Being the UK manufacturer we are able to offer a product designed and delivered to your exact requirements.

## **DOCK SEALS**

The adjustable head dock seal is the secure and effective answer to sealing the rear of vehicles with a wide height variation to a loading dock, protecting conditions inside the building from the conditions outside.

## **DOCK SHELTERS**

Simple, universal and effective, the retractable dock shelter offers a general purpose seal to cater for most applications. It is designed to recoil on impact, thereby extending the shelter life.

## **INFLATABLE SHELTERS**

The inflatable dock shelter provide you with the most versatile sealing system available, being able to facilitate various sized vehicles whilst offering the ultimate sealing of the vital gap of the vehicle and building.

## **LOAD HOUSES**

Installing a Dock Solutions load house insures that your exact requirements can be achieved By having bespoke manufactured loading bays to suite your operational needs.





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**Dock Solutions** responds to industry's call to close the gap with a variety of adaptable, custom-made designs that suit all vehicle configurations in the building interface.

### **Energy Conservation**

The conservation of energy is paramount to manufacturing industries and millions of pounds are lost each year to doors being left open.

### **Hygiene**

Dock Solutions dock shelters meet a regulatory requirement in most industries by using the most up-to-date production products, such as colourfast/washable materials, insulated panels (cold-store white finish), plastisol finishes, stainless and galvanised steels.

### **Weather Protection**

Many loading bays, whether at ground or dock level, are vulnerable to wind, rain, dust, and the sun, which can damage operators and products.

### **Security**

Dock shelters that are properly chosen provide protection against goods pilferage from the outside and ensure that only managed doors are used to enter the building. Noise levels are also decreased, which is beneficial in residential areas.

### **Safety**

Draught-free and weatherproof seals help to prevent slick surfaces from causing injuries to operators, products, or in-house materials handling equipment.

# Dock Shelters - Rigid and Retractable

The **Dock Solutions** range of Dock Shelters mounted at dock level or at ground level are manufactured with a choice of three frame constructions

- Galvanised steel box sections with Plastisol Colour coated sheeting, and raked roof.
- Treated timber clad in black PVC/polyester heavy duty fabric. Sloping roof rear-to-front.
- Insulated side and roof panels finished with steel colour coated while Plastisol sheets sloping roof rear-to-front

*Rigid Dock Shelter  
Type A Construction  
Dock Level Mounted*

Steel supporting brackets are installed under each side panel that is attached to the dock face.

Every model has two vertical side curtains and a horizontal head curtain connected to a special aeroelastic wind guy system to hold the curtains in place.

The curtains are made of heavy duty 3mm thick PVC Derco and machine stitched.

All fabrics are colourfast and have a special coating.

A standard dock level model measures 3500mm (w) x 3500mm (h), has a 600mm projection, a 1200mm head curtain drop, and 650mm wide side curtains.

Bespoken sizes can be manufactured to suit other applications.

Retractable galvanised frames units are also available for dock and ground level use.

**Dock Solutions** can include 'Non-Projecting' models where a collection of Dock Shelter curtains and their front face structure must fit into a new or existing structural opening.

The **Dock Solution** seal curtain, which is manually operated, is a useful accessory when there is no dock and the dock shelter is located at ground level.

*Side Curtain*

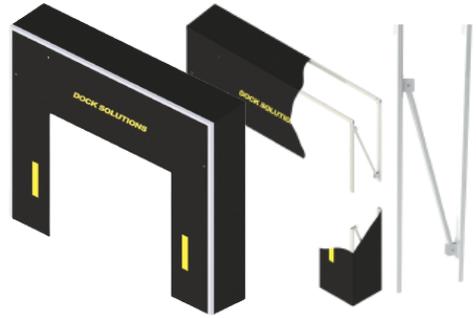
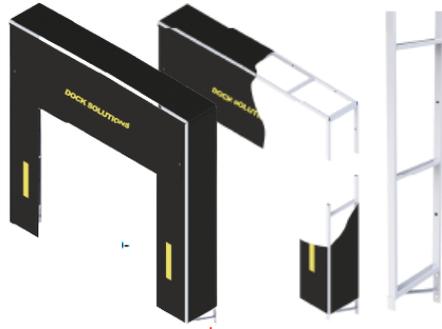


## Benefits

- It offers good value for money and can accommodate a wide variety of vehicle sizes.
- To comply with the most recent hygiene regulations, frame structures are chosen.
- Materials were chosen to match the building's and planning's aesthetics.
- Materials designed to withstand abrasion from vehicles and the elements.
- The spring curtain action is specially built to provide the best possible seal on the vehicle's sides and roof.
- Ground-level units and bottom-seal curtains can be customised to suit your needs.
- Side curtains have yellow traffic-markers stitched into them to help with vehicle positioning.



## Models:



### DS2000 Rigid

The DS2000 is a standard shelter. Offering a high sealing solutions to a wide range of vehicles.

The vertical sides and horizontal head curtains are constructed from a 1500gm/m<sup>2</sup> nylon based neoprene-coated 3.5mm thick PVC material with high wear and tear resistance.

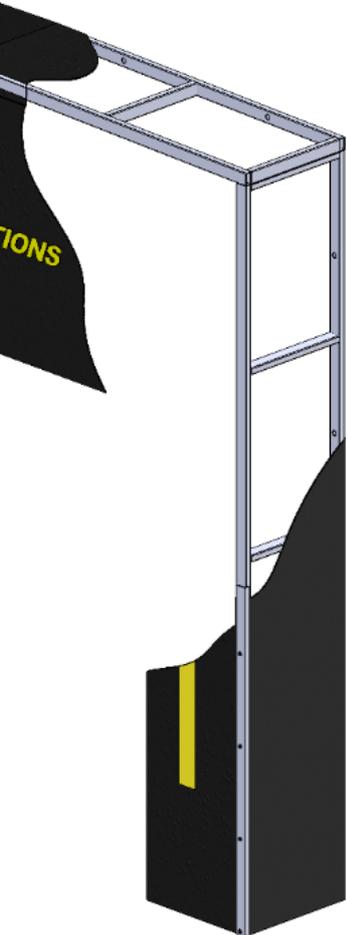
### DS3000 Retractable

Universal and effective, the DS3000 retractable dock shelter offers a general purpose seal to cater for most applications. This shelter is designed to recoil on impact, thereby extending the shelter life.

The vertical sides and horizontal head frames are constructed from zinc plated steel box section, covered with a polyester based PVC fabric

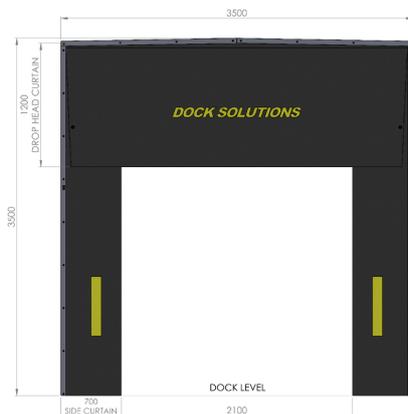
Head Curtain

Aluminium angle to secure curtains



Galvanised steel box section

Side Cladding



# Inflatable Dock Shelters

The DS4000 inflatable model provides the most versatile sealing system available, being able to facilitate various sized vehicles whilst offering the ultimate sealing of the vital gap of the vehicle and building.

Side storage curtains in black 3.5mm thick PVC with an aluminium angle across three sides for air bag security. For secure vehicle placement, both side storage curtains have stitched yellow traffic-guide arrows.

Heavy-duty 610gm/m<sup>2</sup> black PVC/polyester material is machine stitched into the air bag construction. All of the curtain fabrics are colourfast and made to be used outside.

When the side air bag seals are not in operation, they have an internal retraction mechanism that allows them to lie flat behind the storage curtain.

The weight-operated roller mechanism in the head retracts the head air bag seal, which is maximum width around and in front of the side seals.

The inflation device is operated by a three-phase motor/fan that requires a 10-amp supply. This device is attached to the roof panel's underside. There are also ground-level units available.

## Benefits

- For a wide variety of vehicle heights, this is an excellent seal.
- Hygiene regulations catered for.
- The side air bags' internal retraction mechanism gives them a smart, tidy appearance. When deflated, the enclosed counterbalanced weight retraction for the head seal also looks good.
- Colour coded materials available
- 10 sec timing for vehicle seal after parking
- Insulated panel construction
- Sealing the air gap between vehicle doors without putting too much strain on the building and seal.
- It can be mounted on buildings that are made of light-weight materials.

*Insulated roof panels sloped from back to allow for rainwater drainage*

*Head Storage Curtain  
3.5mm thick heavy duty  
PVC/polyester*

*Insulated side panels*





Motor/fan to operate inflation mounted on underside of roof panel -10amp supply



Inflated Head and Side Air Bags constructed from heavy duty 610gm/m<sup>2</sup> black polyester fabric

Insulated Side Panel

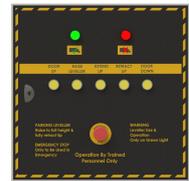
Steel Support Bracket

Inflated by a fan motor to seal the head and side bags against both sides and the top of a vehicle. The head and side bags are constructed of a extremely hard wearing material which is waterproof and has a high tear resistance. PVC, 3.5mm thick material is used for the storage curtains. The shelter is constructed from 50mm thick insulated panel with standard white to both sides. Other colours are available as an option motor. The control is switched on to inflate the air bags a 0.18kW 415v 3ph electric fan. Inflation time is between 10 and 15 seconds. The fan runs continually while the loading/unloading opera

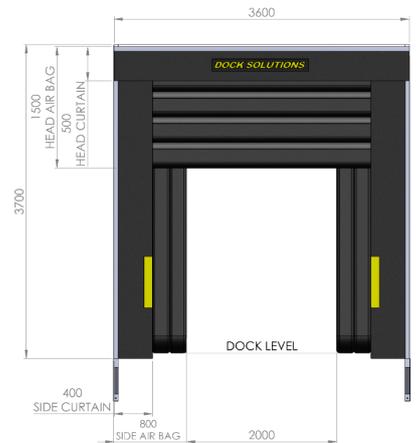
**Size:** 3600mm x 3700mm  
**General Specifications:**

Airbags made of a durable, waterproof, and anti-tear material that will last for a long time. Airbags have an internal retraction mechanism that takes about 15 seconds to deflate. The main frame is made up of 50mm insulated panels, which helps to prevent condensation in the loading bay area. Although the standard are generally white they can be colour matched to suit your requirements. Storage curtains are 3.5mm thick and come complete with guide markers. The device is operated by a small 415v 3 Phase fan that runs continuously. The power supply must be 6 amps.

**Standard Size:** 3.6m (W) x 3.7m (H) with 900mm projection floor mounted (no support brackets required) 4900mm (H)



Control Box for Inflatable Dock Shelters, Dock Leveller and Insulated Doors for safer working environment



# Foam Dock Pads

Because of the efficiency of the compression seal, foam dock pad seals are still very popular in the food and cold storage industries.

The interface must have a solid flush structure, and the seal around the door must be carefully crafted to fit all recorded vehicle widths and heights.

The Foam Dock Pads can be tapered to fit loading bay approach slopes, or they can have an adjustable head to accommodate different vehicle heights.

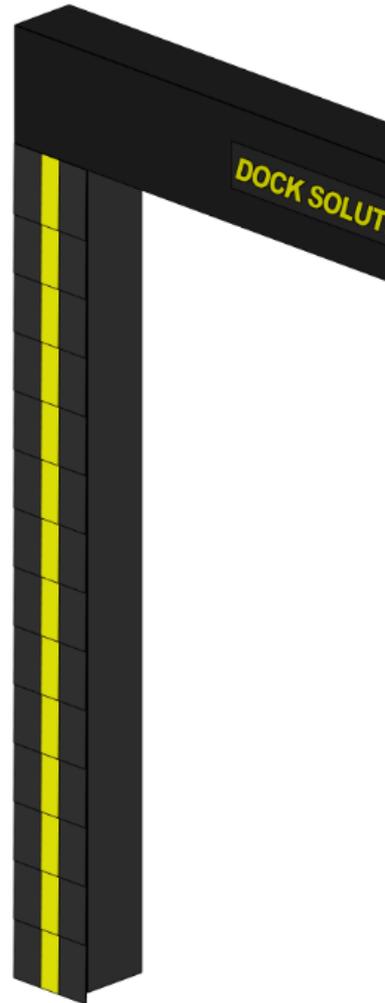
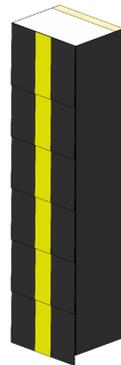
A seasoned-timber or galvanised steel rear frame is bonded with a polyether foam, then covered with a 900gm/m<sup>2</sup> woven polyester based PVC. They're then wrapped in a heavy-duty nylon-based neoprene black hovercraft-skirt material that weighs 1500gm/m<sup>2</sup>.

Foam Dock Pads can also be specified with full height extra-wear armour pleats on the front face of side pads.

*Fixed Head Model,  
Dock Level Mounted*

*Extra wear Armour  
Pleats on front face  
side pads*

*Replaceable Side Pad  
section for extra heavy  
duty applications*



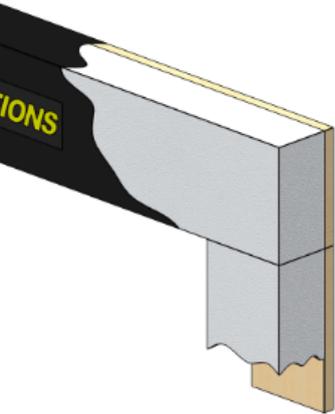
## Benefits

- Very good seal when all vehicles have been identified in advance.
- Allows more seals on building interface.
- Replaceable sections of pads can reduce maintenance costs.
- Vehicle orientation is supported by a yellow reference reversing stripe.
- Good compression recovery on foam specification.
- Pad designs to suit sloped approaches are available.
- Bevelled pads to assist with wider doorways.
- Traveling roller blind with exclusive moveable head seals.



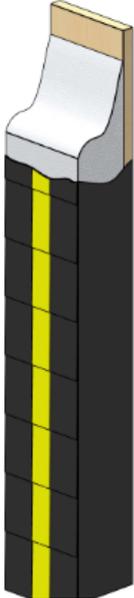
## Models:

Head Pad

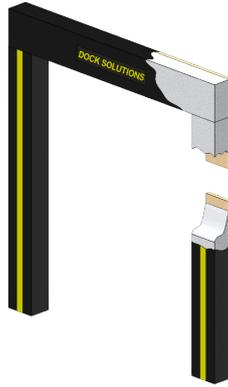


Polyether Foam

Rear Frame of seasoned timber or galvanised steel

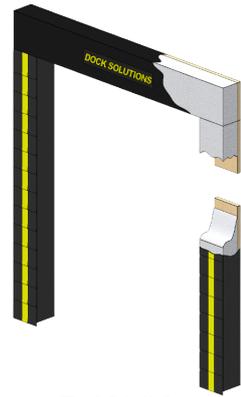


900g/m<sup>2</sup> woven polyester based PVC covered with heavy duty 1500g/m<sup>2</sup> nylon based neoprene black hovercraft skirt materials



**DS1000**

The DS1000 seals vehicles where other products cannot, particularly effective for the food and cold store industries.



**DS1001**

The DS1001 seals vehicles where other products cannot. The foam dock pads are also specified with full height extra-wear armour pleats on the front face of the side panels.

All foam filled seals require substantial steel work to be mounted upon as part of the force of a reversing vehicle for it to be transmitted to the building. If this is not achievable an inflatable would be better.

This basic yet efficient sealing system supplies you with cost effective alternative to other types of sealing systems. All models are constructed from high tear resistant material and high recovery rate foam in-fills. The models are particularly suited where the vehicle range and width are of a similar height, with the mobile headed seal giving you the option to cater for more varied height vehicles.

### Specification

A high recovery rated foam covered with 900g per m<sup>2</sup> base fabric with high tear resistant 1500g m<sup>2</sup> fabric on the impact areas, which are stitched together with heavy duty bonded nylon thread and then mounted on a 50mm treated timber base plank.



# Optional Parts

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## Wheel Guides

168mm diameter tube hot dipped galvanised steel or polyurethane traffic yellow finish.  
2580mm (l) x 340mm (h).  
Available with fixing plates or for casting into concrete.

## Bollards

100mm diameter (internal) or 168mm diameter (external) x 1200mm (h), Steel Bollards.  
Base plate fitting or for casting into concrete.  
Finish in hot dipped galvanised steel or in traffic yellow polyurethane



## Bottom Corner Pads (Rigid & Retractable)

Sets of Seal Pads for bottom corners of rigid or retractable Dock Shelters to seal off at dock height level the area beside the buffers.

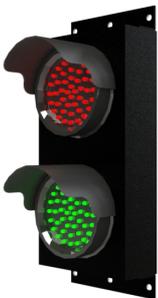
## Flexible Arm Dock Light

High quality dock light designed to replace up to 150W-750W incandescent light heads. Compact design utilises durable polymer housing, flexible arm and low hinged bracket for fixture to swing away upon impact LED technology - increasing efficiency, eliminates maintenance and supports green initiatives.



## Dock Buffers

Constructed from strong reinforced rubber composite to reduce the considerable forces of vehicles reversing on to the dock face.  
Both rectangular and 'L' shapes available.



## Traffic Lights

LED or Standard available.  
Single or Double units Red/Green.  
Maintenance free.  
100mm, 210mm or 300mm diameter lenses.  
Special weather resistant housing.

## Steel Support Bracket

Brackets extend beyond dock shelter projection.  
Constructed from 90mm x 90mm angle welded steel sections.  
Finished in hot dipped galvanised steel or traffic yellow polyurethane.

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**Dock Solutions'** operations provide a significant amount of service as well as the numerous products they manufacture. Customers remember good service, and **Dock Solutions** wants all of its customers to be satisfied with the goods and services it offers.

**Dock Solutions** provides a dependable national installation, repair, and maintenance service for all **Dock Solution** products as well as other manufacturers' products.

Fully experienced and trained engineers operate nationwide using fully-equipped mobile workshops



**Dock Solutions** offer Service and Maintenance for:

- Dock Seals, Dock Shelters, Dock Pads.
- Dock Levellers, Scissor Lifts, Goods Lift.
- Sectional Overhead Doors
- Roller Shutter and Folding Shutter Doors.
- Fire Doors, Crash Doors, Swing Doors, Strip Curtains
- High-Speed Doors

# Contacts

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