Cold Storage System with Hydraulic Loading Bridge

PFIP
PFEP

The two most flexible and efficient solutions for loading and unloading products requiring of perfect thermal insulation.

Cold Storage System

TECHNICAL DESCRIPTION

It is of vital importance to maintain the cold chain during the transportation, loading and storage. It is also very important to be energy efficient to reduce the cost of maintaining a constant temperature in the facilities. For this reason, **Inkema** has developed two **Cold Storage Loading Bay Systems** with loading bridge, one aimed for indoor and another one for outdoor.

Both systems are composed by a **hydraulic loading bridge, isothermal insulation, steel bumpers, an inflatable shelter** and an **insulated sectional door**.

The only difference between the two systems comes from the installation method: in external mode a **free-standing frame** and an **isothermal dock house** must be added, to act as an external loading bay.

MAXIMUM PROFITABILITY:
Installing a hydraulic loading bridge instead of a telescopic dock leveller reduces significantly the total cost of the system.

CERTIFIED SAFETY:
The vertical hydraulic loading bridge is equipped with a system of automatic blocking acting as safety mechanism..

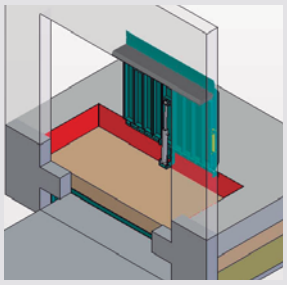
CONSTRUCTION METHOD AS INTERNAL LOADING BAY - PFIP

Installing the PFIP as internal loading bay requires of a **hydraulic vertical bridge**, which is installed inside the building, together with **frontal insulation** in high density foam, to ensure maximum tightness between the exterior and the temperature-controlled interior of the building.

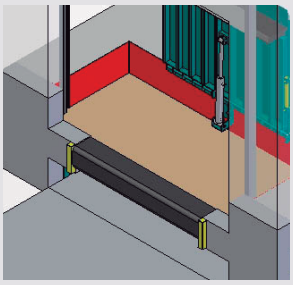
Finally, installation is completed with a **set of steel bumpers**, an **inflatable shelter** and an **isothermal sectional door**.

PFIP is the Cold Store version offering best value for your premises.

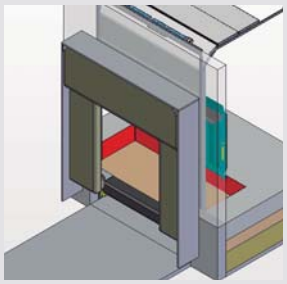
INTERNAL LOADING BAY SET - PFIP



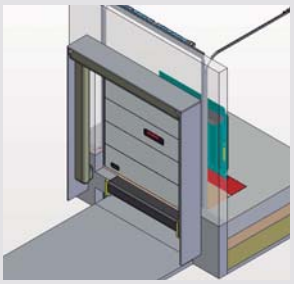
Hydraulic Bridge
L 1825 x W 2200 mm.
Max. load: 6 tons.



Frontal Insultaion and Bumpers
W 2240mm. Material: Foam.
2 Bumpers: L 90 x W220 x 430mm.



Inflatable Dock Shelters
L 1020 x W 3500 x H 4000 mm



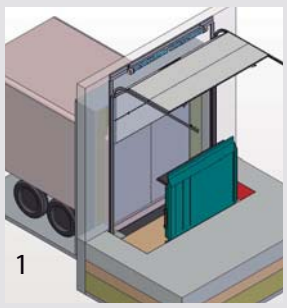
Sectional Door
W 3000 x H 3500mm (Recommended)

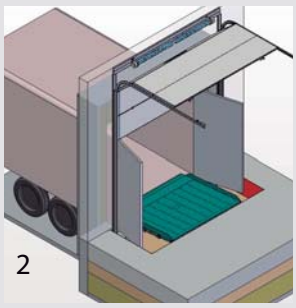
OPERATION AS INTERNAL LOADING BAY - PFIP

1. Once the truck is parked in the loading dock, the inflatable shelter begins to inflate until it is perfectly coupled to it. When the seal between the truck and the bay is optimal, the sectional door its opening automatically.

2. Then, after opening the sectional door, we proceed now to open the rear gates of the truck that will be fitted onto the loading bay platform. When the truck gates are fully open, the hydraulic bridge will be activated and the loading and unloading process will begin.

Once the loading or unloading is finished, the inverse operation process of the Cold Store Loading Bay - PFIP begins. The hydraulic bridge returns to its initial position.

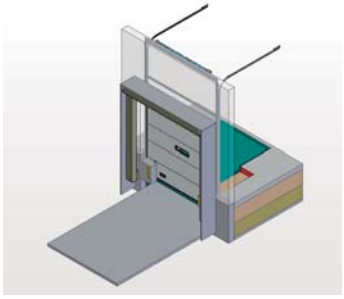




The truck gates are closed, and then the sectional door is closed. Afterwards, the inflatable shelter begins to deflate and when it is totally collected in the sides of the tunnel, the truck can depart.

C/ Galileo, 2 – Naves 7 y 8 – Apartado de correos 132 – 08150 Parets del Vallès – Barcelona – (Spain)
For further information please contact us by phone **+34 93 544 47 08** or by email: **export@inkema.com**

Cold Storage System

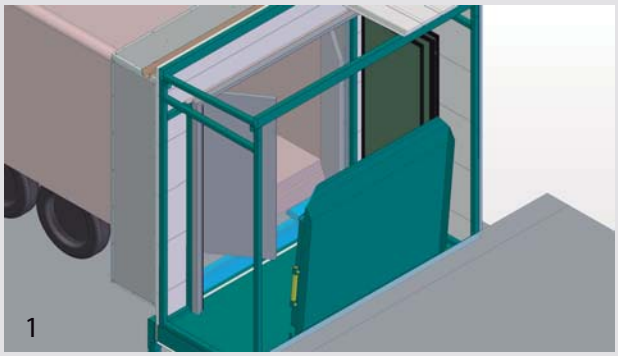


CONSTRUCTION METHOD AS EXTERNAL LOADING BAY - PFEP

The **Cold Store Loading Bay point** can be installed **as an external loading bay**. This requires a metal **free-standing frame** and an **isothermal dock house** to cover it.
The **hydraulic loading bridge** is installed onto the free-standing frame, and a **sectional door** is added at the isothermal dock house to ensure optimal sealing.
The equipment is completed with an **inflatable dock shelter** with PVC tarpaulins and aluminium profiles in the dock house fitted onto the building.

Use of the interior space in the installation.

OPERATION AS EXTERNAL LOADING BAY - PFEP

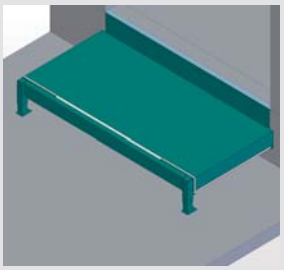


1. The truck parks in the loading bay, fitting perfectly to the inflatable shelter. Once the truck is sealed by the shelter, automatically, the door of the system can be opened, as well as the truck gates.

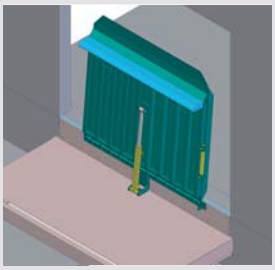
2. Finally, when the truck doors are fully open, the hydraulic bridge for loading and unloading is activated.

Once the loading or unloading is finished, the **inverse operation process** starts:

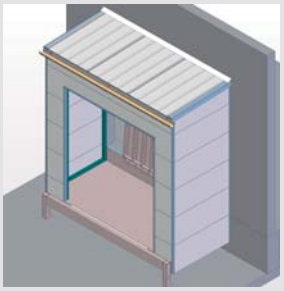
EXTERNAL LOADING BAY SET - PFEP



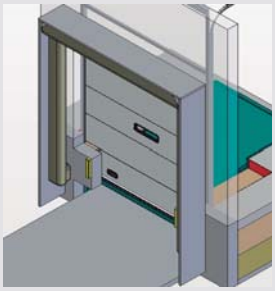
Isothermal Free-standing Frame L 2000 x W 3500 x H 1200mm.



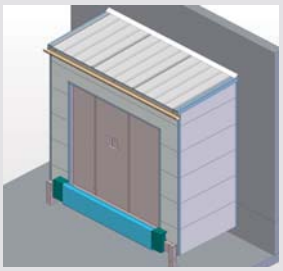
Hydraulic Bridge
L 1825 x W 2200 mm. Max: 6T.



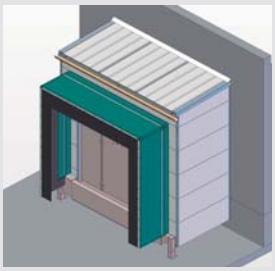
Isothermal Dock House
Roof inclination: 5%



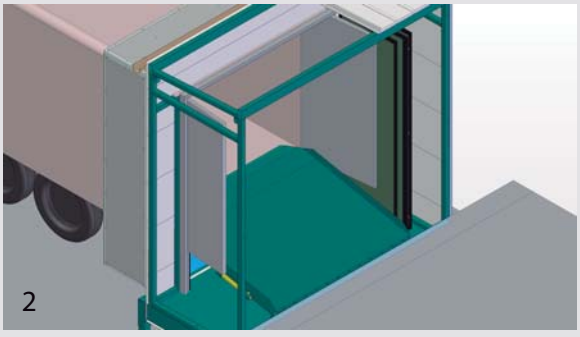
Sectional Door
W 3000 x H 3500 mm. (Recommended).



Front insulation and bumpers
W 2240mm. Material: High density foam.
Bumpers: L90 x W220 x H430mm (2uds)



Inflatable Dock Shelter
L 1020 x W 3500 x H 4000 mm. Material: PVC canvas and aluminium profiles.



The bridge is activated to descend to its initial position. The truck gates are closed, and then the sectional door is closed. Afterwards, the inflatable shelter begins to deflate and when it is totally collected in the sides of the dock house, the truck can depart.

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