Cold Storage System with Telescopic Leveller

PFIR
PFER

Complete loading and unloading systems for the interior or exterior of cold stores with high freight traffic.

Cold Storage System

TECHNICAL DESCRIPTION

These two different **cold point systems with Inkema telescopic leveller** have been specially designed for the loading and unloading of goods, one for interior and the other one for the exterior of any installation where a high level of tightness is required.

Both systems are formed by a **hydraulic leveller** with telescopic lip, inner **frontal isothermal insulation**, **steel bumpers**, an **inflatable shelter** and an **insulating sectional door**.

The only difference between both systems comes from the installation in external mode, which requires a **free-standing frame** and an **isothermal dock house** to act as an external loading bay.

IDEAL FOR INTERNAL TRAFFIC OF MERCHANDISE INSIDE THE INSTALLATION:
Telescopic Leveller will ease the manoeuvres an gain time.

TAILORED SOLUTIONS FOR ANY INSTALLATION:
Thanks to their adaptability, these cold store systems can be installed either as inner loading bays (PFIR) or external (PFER).

METHOD OF CONSTRUCTION FOR INTERNAL SYSTEM - PFIR

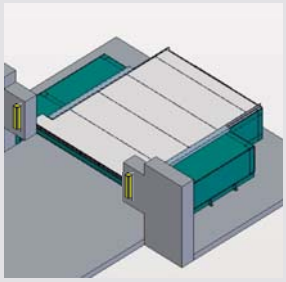
For its installation as internal loading bay, a hydraulic dock leveller with telescopic lip and step will be placed on top of a pouring tray.

Internal insulation is added to the pouring tray to ensure maximum sealing between the exterior and the interior of the temperature-controlled building.

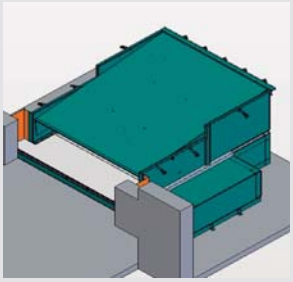
Finally, **steel bumpers**, **frontal isothermal insulation** in high density foam, **inflatable shelter** and **isothermal sectional door** are installed.

The Cold Store System with telescopic dock leveller facilitates the manoeuvres to be carried out, speeding them up.

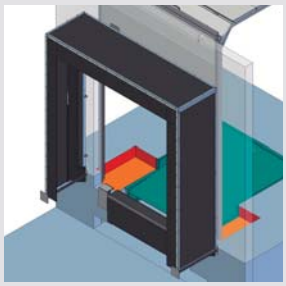
COMPOSITION AS INTERNAL LOADING BAY - PFIR



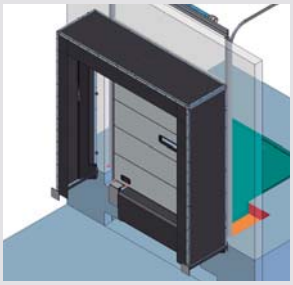
Internal insulation and steel bumpers (2no.)



Telescopic leveller with step and folding legs



Inflatable dock shelter
L 1020 x W 3500 x H 3700 mm

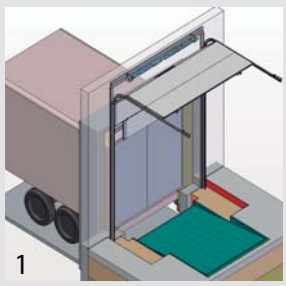


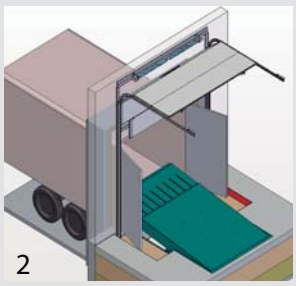
Sectional door:
W 3000 x H 3500mm (Recommended)
Frontal Isothermal insulation

OPERATION AS INDOOR LOADING BAY - PFIR

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 begins its opening until it is completely open.

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 leveller will be activated and the loading and unloading process will begin. Thanks to the leveller's telescopic lip, it fits perfectly to the platform of the truck allowing the transit between the building and the truck.





Once the loading or unloading is finished, the inverse process starts. The telescopic lip is withdrawn, and the leveller is lowered to its initial position. The gates of the truck are closed, followed by the sectional door. The shelter deflates and the truck can depart.

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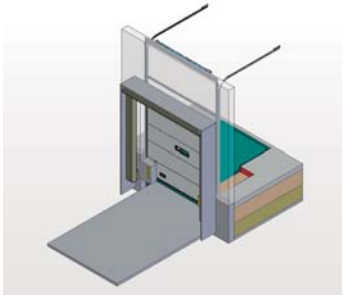


Cold Storage System

METHOD OF CONSTRUCTION AS OUTDOOR LOADING BAY - PFER

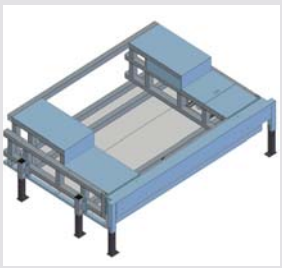
The **Cold Store Loading Bay point** can be installed as an **external loading bay**. This requires a **metal free-standing frame** to lift the structure to achieve loading level, and an **isothermal dock house** to cover it.

The **telescopic lip hydraulic leveller** with step is installed onto the free-standing frame, and a **sectional door** is added at the isothermal dock house to ensure optimal sealing.

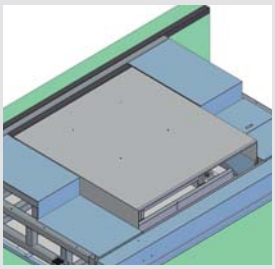
The equipment is completed with an **inflatable dock shelter** with PVC tarpaulins and aluminium profiles in the dock house fitted onto the building.

Whatever the type of Cold Store System, it adapts to different types of vehicles and goods

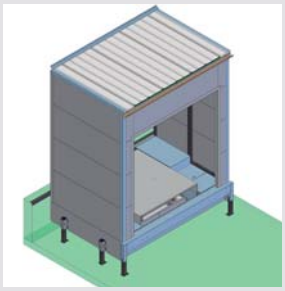
COMPOSITION AS OUTDOOR LOADING BAY - PFER



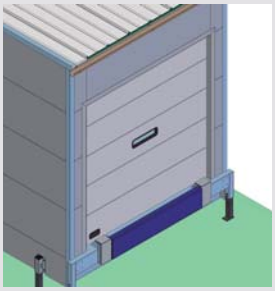
Isothermal free-standing frame
L 2000 x W 3500 x H 1200 mm.



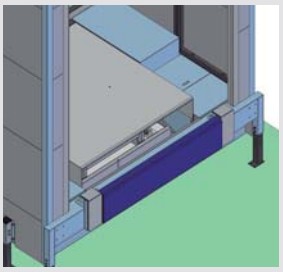
Telescopic leveller with step and folding legs



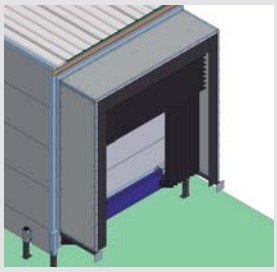
Isothermal dock house
Roof inclination: 5%



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

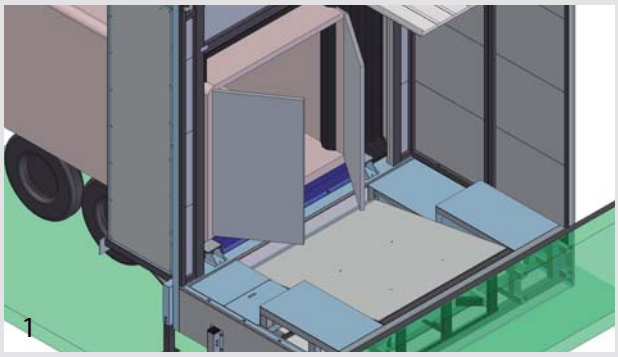


Frontal insulation and bumpers
W 2240mm. Material: High density foam.
2 Bumpers: L90 x W220 x H430mm



Inflatable dock shelter
L 1020 x W 3500 x H 3700 mm.
Material: PVC canvas and aluminium profiles.

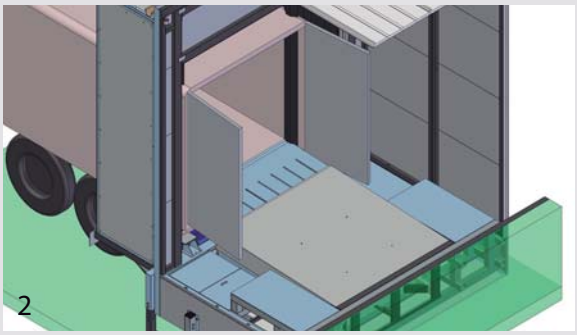
OPERATION AS OUTDOOR LOADING BAY - PFER



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

2. Finally, when the truck doors are fully open, the hydraulic dock leveller is activated, to allow the loading and unloading process. Thanks to the leveller's telescopic lip, it fits perfectly to the platform of the truck easing the transit between the building and the truck.

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



The telescopic lip is withdrawn, and the leveller is lowered to its initial position. The gates of the truck are closed, followed by the sectional door. Afterwards, the inflatable shelter begins to deflate and when it is totally collected into the sides of the dock

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