

*Sustainable logistics
with intelligent docking systems*



Loading Technology

Complete solutions for more efficiency



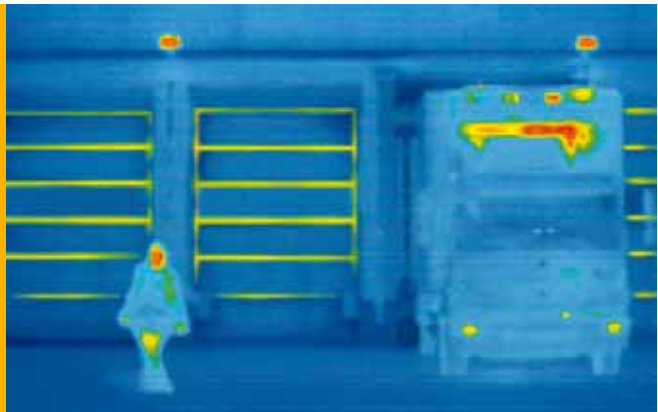


The right concepts

Efficient planning

Energy efficiency

Thermographic studies confirm that a building's openings are a particularly critical factor when it comes to energy efficiency. With proper planning and the proper equipment that matches the building's intended function, thermal loss can be kept at a minimum.



Safety

Workplace safety is quite rightfully a very important issue. Accident and health risks as well as damage to goods, vehicles and building equipment must be avoided. Especially at loading bays, where your own employees and external staff work together, suitable measures must be considered carefully.



Longevity

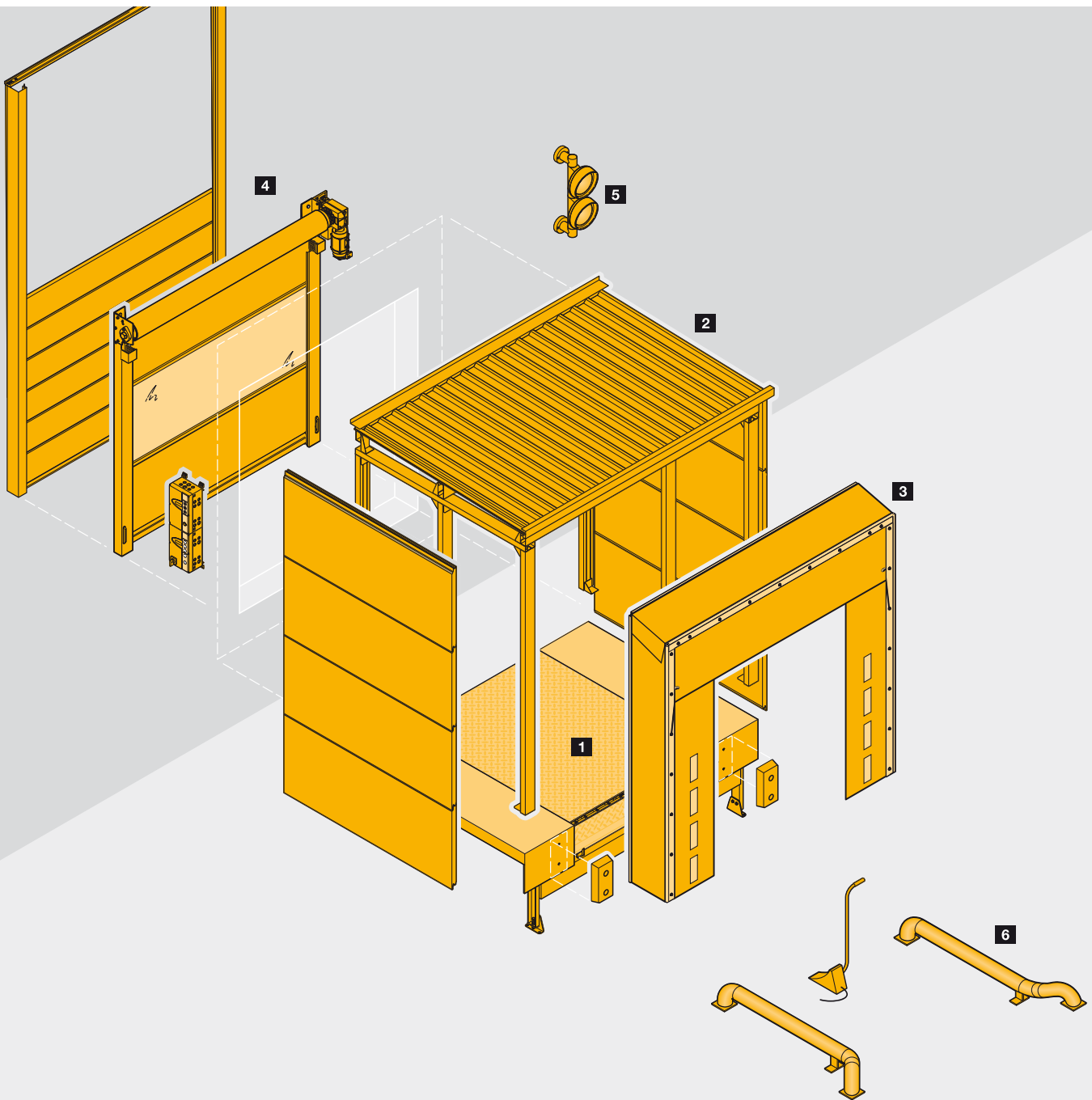
The rough nature of daily use quickly leaves its mark on loading bays – quick wear and tear, collision damage and planning errors can require costly repairs and replacements within a very short period of time. High-quality materials, coupled with foresighted planning and the selection of suitable protection measures protect your valuable investment.



Increasing demands as to energy efficiency, safety and longevity require individually adjusted solutions. We advise you on site and recommend an economically efficient system which in terms of quality, function and reliability meets your requirements.

The right products

Developed and manufactured in-house



Optimally co-ordinated system

All components for your loading bay are available from a single source: Hörmann. Developed and manufactured in-house, Hörmann products are optimally co-ordinated, which ensures smooth loading and unloading at your loading bay.

- 1 Dock levellers**
- 2 Loading houses**
- 3 Dock seals / shelters**
- 4 Industrial doors**
- 5 Control systems**
- 6 Dock and safety accessories**

Good reasons to try Hörmann

Individual solutions from the market leader for doors and loading technology



1

Robust dock levellers

Sustainability and quality go hand in hand. Dock levellers have to withstand the rough day-to-day loading environment. For this reason, all components are manufactured using high-quality materials. The design of all dock levellers corresponds to EN 1398 and, with regard to loading capacity, is dimensioned generously. Particularly sturdy flat anchors, ventilation slots in the edge bracket and adjustment angles to screw ensure reliable fixing in the building structure, one of the most important prerequisites for a long service life.

For further information, see pages 18 – 19.



2

Energy-efficient loading houses

The dock leveller is fit directly in front of the building with a loading house, allowing the building opening to be sealed efficiently with an industrial door. As early as the quotation phase, we are able to provide model statistics defining the maximum wind and snow loads for Hörmann loading houses.

Any unevenness in the door can easily be compensated for using adjustable feet.

For further information, see pages 34 – 37.



3

Flexible dock seals and shelters

Dock seals and shelters are particularly efficient when they are optimally adapted to the docking vehicles and the loading situation. This requires a wide range of flexible solutions.

Robust push-in flap dock shelters with different frame constructions prevent them from being damaged during docking.

Inflatable dock seals adjust to different vehicle dimensions. Roll-up flaps compensate for even larger differences in vehicle heights.

Dock seals and shelters with telescopic link arms or rising roof constructions are recommended to compensate for vehicle movements or when placing interchangeable containers.

For further information, see pages 38 – 43.



4

Compatible control systems

From development to production, all Hörmann door and dock leveller controls come from the same source, making them optimally matched to each other. As a result, you benefit from a uniform operating concept with standardised housing sizes and the same cable sets for dock levellers and door controls.

Another advantage: If the dock leveller control is placed beneath the door control, both controls can be combined into a single compact unit.

For further information, see pages 26 – 27.

Proper planning

Sustainability begins with planning

Loading technology inside the building

With many interior solutions, energy is lost through the dock leveller even when the door is closed. This leads to unnecessary energy loss in temperature controlled buildings, which can be prevented with the proper planning.

For such cases, Hörmann offers concepts with advance travel doors and insulated panels under the dock leveller. This minimises heat loss outside loading times.

For buildings that are not temperature controlled, the conventional fitting with a door mounted to the dock leveller is suitable.



Loading technology in front of the building

In the external solution, the dock leveller is placed in front of the building in a loading house. The loading house acts as the door to the building, minimising energy loss, especially when no loading is in process.

A further advantage: The interior building space can be used entirely up to the door. This solution is also suited for modernisation, as a complete loading bay can be added to the building without costly reconstruction measures.



Inflatable dock seals

Flexible sealing without restriction to the door opening area



Inflatable dock seals adjust particularly well to the different lorry sizes. The excellent seal mostly prevents the entrance of cold into heated buildings or of heat into refrigerated warehouses, saving energy. It envelops the vehicle without restricting the area of travel of the doors and is the optimal solution for specific situations, such as a DOBO system. After the loading process and switching off the fan, the cushions quickly withdraw via their interior tension cables and counter weights.

Hörmann practical application tip

The inflatable dock seal can be operated conveniently with multi-control 460.



Use in the DOBO system

Lorry or flatbed can be docked to the loading bay with closed doors. Before opening the door, the inflatable dock seal is activated and effectively envelops the vehicle on three sides. The doors of the lorry or the flatbed can be opened now.



Design features

1 Frame construction

The roof and side cladding are made of insulated steel panels, 20 mm thick. They are available in a choice of White aluminium, RAL 9006, or Grey white, RAL 9002, with anodised aluminium corner profiles with a rounded softline look.

2 Flap and fabric

The side and top flaps consist of 2-layered, 3-mm-thick substrate fabric made of polyester monofilament threads with double-sided UPVC coating which protect the inflatable cushions. The cushions consist of weather-resistant flexible and high frequency-welded flap material in Graphite black, RAL 9011.

3 Blower

The powerful blower is in operation during the entire loading process and thus guarantees a constant seal. Ventilation slots ensure the required pressure compensation and drain condensation water.

4 Corner sealing cushions

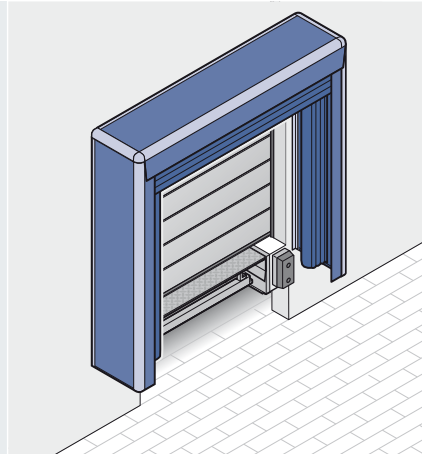
As standard, the DAS-3 is available with a foam-filled corner sealing cushion and optionally with inflatable corner sealing cushions (see page 47).

Inflatable dock seals

Versions

DAS-3 dock seal

Only after the lorry has docked, the fan inflates the dock seal around the vehicle, fully sealing the loading area within a few seconds. This type of dock seal is especially recommended for DOBO systems, for refrigerated warehouses and extended loading times. It is available upon request with a roll-up flap instead of an inflatable top cushion. Corner sealing cushions are included as standard in the scope of delivery, optionally also as inflatable versions. They seal the bottom section, between the wall connection and the side cushions.

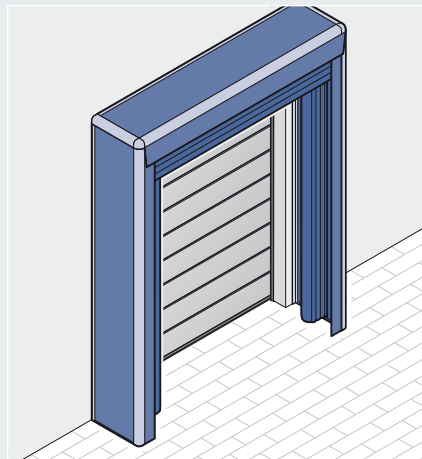


DAS-3

3-sided inflatable dock seal
Optionally as a recess model
Standard size:
3600 × 3550 × 850 mm (W × H × D)
Front opening in the home position:
3100 × 3150 mm (W × H)
With inflated cushions:
2400 × 2550 mm (W × H)

Dock seal DAS-G-3, roadway model

The roadway model allows unimpeded passage into the building with deflated cushions. It is available upon request with an electric roll-up flap instead of an inflatable top cushion.

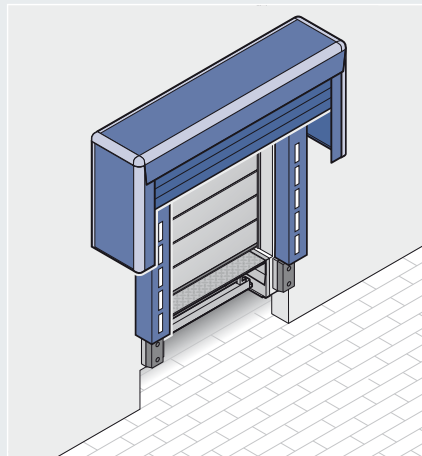


DAS-G-3

Roadway model
As DAS-3,
Standard size:
3600 × 4700 × 850 mm (W × H × D)
Front opening in the home position:
3100 × 4300 mm (W × H)
With inflated cushion:
2400 × 3700 mm (W × H)

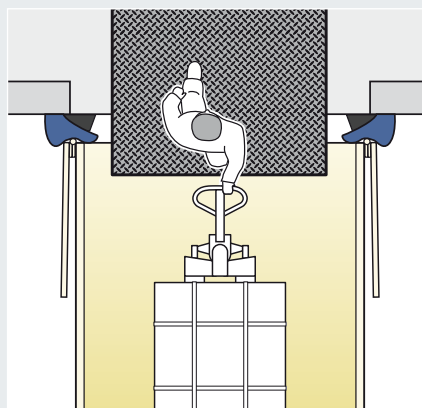
Dock seal DAK-3

DAK-3 is an advantageous combination of fixed side cushions and inflatable top cushion with sandwich cladding. This dock seal is particularly suited for hanging goods. Foam-filled side cushions provide perfect lateral sealing. On top the inflatable top cushions keep the loading opening totally open to directly forward the goods on conveyor systems.



DAK-3

1-sided inflatable dock seal with fixed side cushions
Standard size:
3600 × 3500 × 350 / 850 mm (W × H × D)
Front opening in the home position:
2400 × 3100 mm (W × H)
With inflated top cushion:
2400 × 2500 mm (W × H)



Advantage of fixed side cushions

With cushion dock seals the space between the outside of the container and the open doors is sealed.