Powershelter® 407

The PowerShelter 407 is a dock shelter, which is used for sealing the area around the door opening and the vehicle, which is docked, making use of robust durable inflatable cushions. There are two versions, these are a build-in and a front projection model.

Materials

The cushions are made of polyester trevira fabric with a dull PVC coating on both sides. The protection strips, made of 3500-gr/m² two-layer polyester fabric, are flexible in the length and stable in the width. On both sides wear-resistant, hard, antistatic, dull PVC coating is applied.

The front projection model is based on a fixed frame made of galvanised steel, covered with a steel sheet, finished with a Goosewing Grey synthetic coating (BS10A05). For further protection, this version is provided with a galvanised protection console.

Both versions are finished with an anodised aluminium frame. The PowerShelter 407 as a whole, is resistant to all weather circumstances

All Loading Systems products and systems comply with the highest quality standards.

Dimensions

The PowerShelter 407 with its standard dimensions is suitable for centrally docked vehicles, with a width range of 2400 to 2800 mm and a height range of 3600 to 4200 mm. The PowerShelter 407 can be modified to meet each client specific situation.

Drive

The cushion material of the upper cushion is extended and retracted by means of a powerful tubular motor. During extension the blower motor ensures that the cushions are filled with air.

Operation

The motors are easily operated by means of a single push button, which operates both the tubular motor and the blower motor. As soon as a vehicle is docked within the PowerShelter, both motors can be activated and within thirty seconds the area between the door opening and the vehicle is sealed and is airtight.

The blower motor maintains the pressure in the cushions during the loading and unloading operating on a detection system ensures that the top cushion continuously adapts to the varying height of the vehicle to prevent the top cushion from getting damaged and maintain sealing.

After the loading / unloading operation has taken place, the blower motor is deactivated by means of the push button, after which the top cushion is retracted by the integrated retraction system, powered by the tubular motor. The vehicle can leave the loading / unloading dock, as soon as this action has been completed.

The PowerShelter 407 is safeguarded against vehicles leaving prematurely. In the event that this does happen, the unique free moving cushion mountings will ensure that the cushions will swing away from the vehicle, without the suspension of the cushions being damaged.

Application

- The inflatable PowerShelter 407 is the most efficient and durable sealant for a loading / unloading platform. Due to the accordion design of the cushion, an optimal seal is created. This is why the PowerShelter 407 is specifically used in situations, where there are large differences between the internal and external temperatures. For instance in air-conditioned or refrigerated storage areas.

Product characteristics

- Since the PowerShelter 407 cushions are inflated only after the vehicle is completely docked, they will not be subject to the forces created by a reversing vehicle. This significantly increases the average life span of a dock shelter.
- In the deflated situation, the cushions are to be found behind the protection strips. The aesthetic aspects of the building are thus not compromised. Furthermore the driver always has a clear view during the docking procedure.

Technical specifications

Standards	CE
Width	3500 mm
Height	3700 mm
Projection	0 / 800 mm
Side cushions width	(inflated) 600 mm
Top cushion depth	(inflated) 1100 mm
Mounting height	(recommended) 4700 mm
Cushion material	670 gr/m²
Inflation time	30 seconds
Deflation time	40 seconds
Power supply	1NE / 230V / 0,25 kW
Colour	black

Revision: 26-06-06

Options

- Special dimensions.
- Other measurements for side cushions and top cushion.
- Bottom corner pads.
- Traffic light installation.
- Door interlock.

Building-in possibilities

The correct layout of a loading and unloading platform depends on a variety of factors. Therefore the PowerShelter 407 can be modified to meet each client specific situation.

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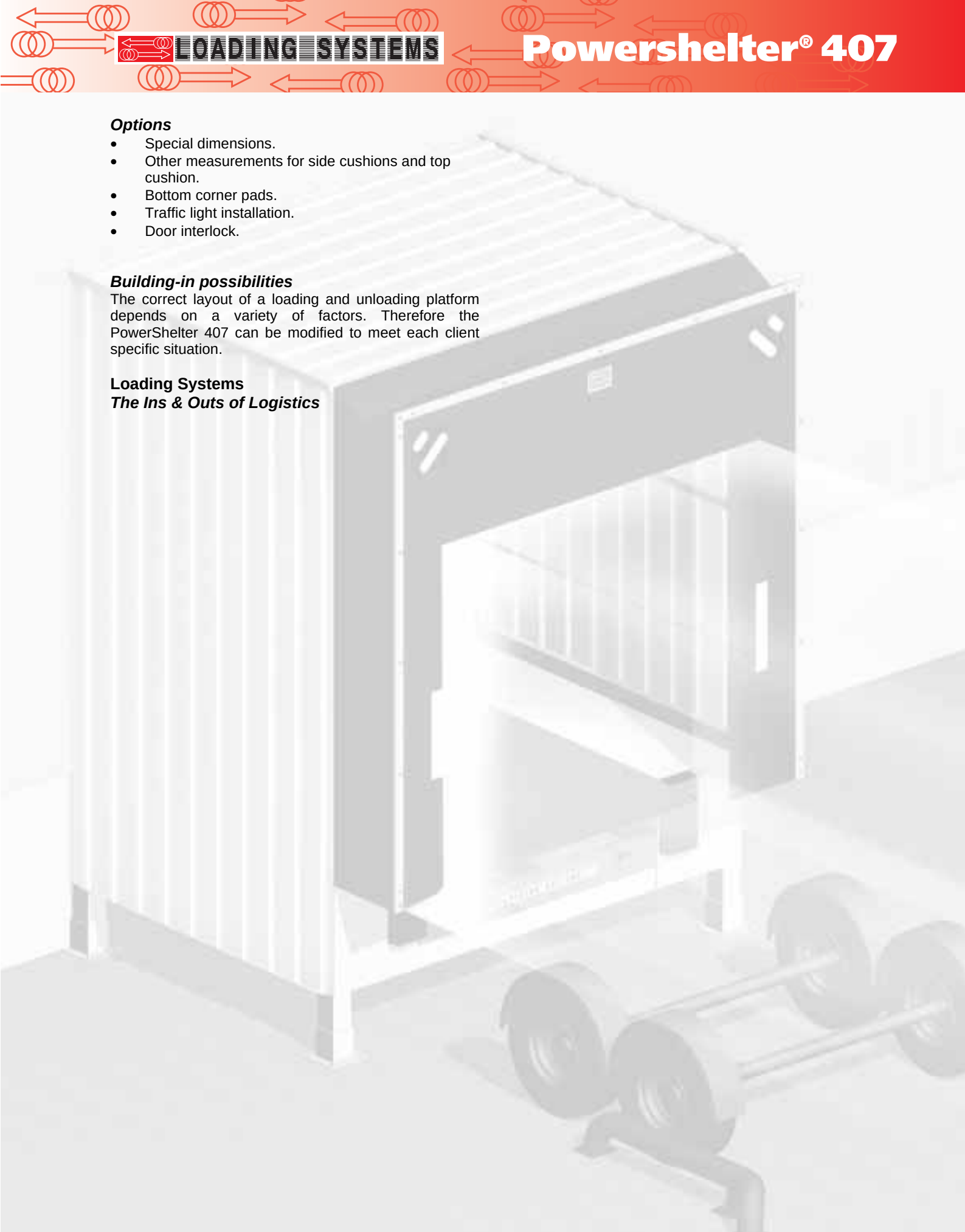

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