

Product datasheet

Dock leveler

ASSA ABLOY DL6010SM

ASSA ABLOY
Entrance Systems

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Technical facts

Features

Size - nominal length	700 mm	
Sizes - nominal width	1250 ,2000, 2200 mm	
Vertical working range	Above dock:	0-100 mm
	Below dock:	0-100 mm
Lip material:	Steel	
Surface treatment:	Standard:	Hot dip galvanised

Performance

Load capacity:	40kN (4 tonnes), 60kN (6 tonnes)	
Surface treatment galvanised:	Hot dip galvanised 80 µm Corrosive category C4 & C5-I M acc. DIN EN ISO 12944-2	

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1. Description

1.1 General

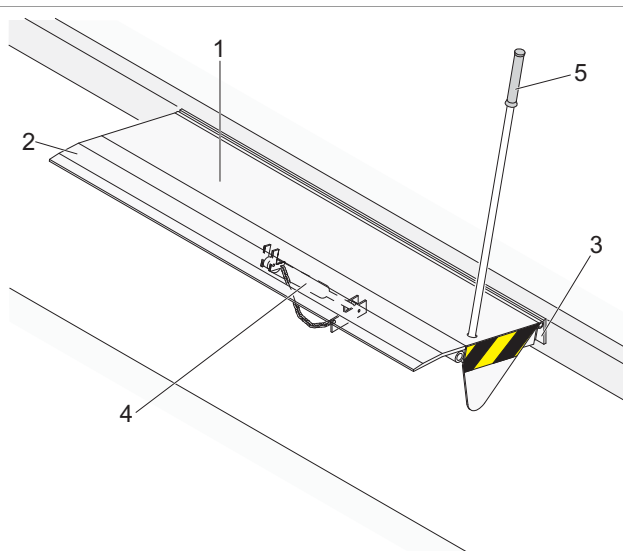
1.1.1 Application

The ASSA ABLOY DL6010SM swingdock minidock is a full Docking System especially developed for a limited working range, the ideal solution for a standardized fleet of vehicles. It is available as ramp model as well as pit model. The advantage of the ramp model is the quick installation which also can be done as add-on to existing ramps. The operation of the ASSA ABLOY DL6010SM swingdock minidock is mechanically and supported by a gas spring. You need only one person to lift the platform, swing out, and put the lip on the vehicle bed in one movement. The ASSA ABLOY DL6010SM swingdock minidock solution include the free floating position, the platform follow the vehicle's movements up and down during loading and unloading. The dock leveler type ASSA ABLOY DL6010SM swingdock minidock meets all requirements of European directive EN 1398.

1.1.2 Mode of operation

The swing lip safely bridges the gap between the ramp and the lorry bed. By manually pulling the rod, the dock leveler is raised and the lip swings out. Then the leveler can be lowered gently onto the lorry bed. After loading or unloading, pulling the rod raises the leveler again, the lip swings down and the platform returns to its parking position, i.e. to ramp level.

1.1.3 Overview



- 1 Leveler platform
- 2 Swing lip
- 3 Rear frame
- 4 Gas spring

1.1.4 Standard

Nominal length:	700 mm
Nominal width:	1250 ,2000, 2200 mm
Load capacity:	40kN (4 tonnes)
Surface	Hot dip galvanized
Installation:	Ramp installation (steel support construction for buffers included)

1.1.5 Options

Load capacity:	6 tonnes (60 kN) (only available for nominal width 2000, 2200 mm)
Installation:	Pit installation
Equipment:	Buffer RB Buffer RB with steel protection plate Buffer RB/2 Buffer PE

1.2 Surface

1.2.1 Hot galvanising

To increase corrosion protection to C4 for saline coastal areas or C5-I for aggressive or humid atmospheres, the dock leveler can be delivered with hot dip galvanised (80 µm) steel parts.

2. Selection guide

2.1 Load capacity according to EN 1398

The EN 1398 describes 3 key definitions about loads.

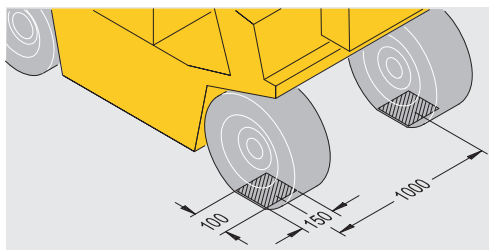
2.1.1 Rated load

The rated load is the total weight of the goods, the forklift truck and the driver.



2.1.2 Axle load

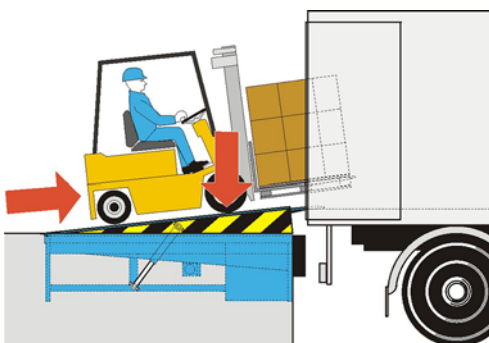
Axle loads shall be taken acting over two rectangular contact areas at 1 m lateral distance. These areas shall only apply if the actual conditions do not call for more severe loading. The size of the footprint [mm²] is derived from the wheel load [N] divided by 2 [N/mm²]. The ratio of the rectangular print is W:L = 3:2.



In the drawing measures for a leveler with a load capacity of 100kN or 150kN are shown.

2.1.3 Dynamic load

The dynamic load is the movement of the rated load and is the pressure on the leveler platform caused by the moving forklift truck.



2.2 Select the load capacity

The load capacity of a dock leveler must always be higher than the rated load.

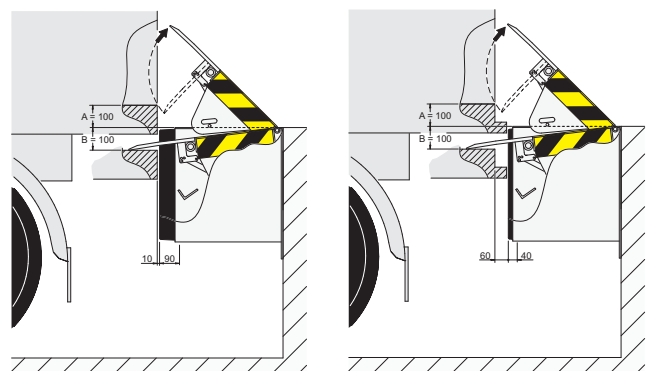
2.2.1 Example

Weight of forklift truck	3600 kg
Weight of goods	1500 kg
Weight of driver	100 kg
Total weight/rated load	5200 kg
Suitable load capacity of the leveler	6000 kg/60kN

2.3 Select buffer depth

To secure the lip of the Minidock comes far enough into the truck bed, you have to choose the right depth of the buffer depending on the loading situation.

2.3.1 Depth of the buffer

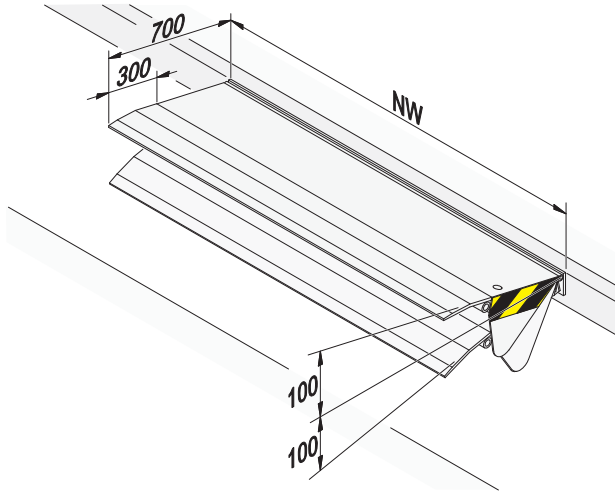


The 90 mm deep buffer is suitable for loading situations with little space between the buffer and the truck bed.

The 40 mm deep buffer is suitable for loading situations with longer distance between the buffer and the truck bed; especially when the trucks have their own buffer constructions.

3. Specifications

3.1 Dimensions



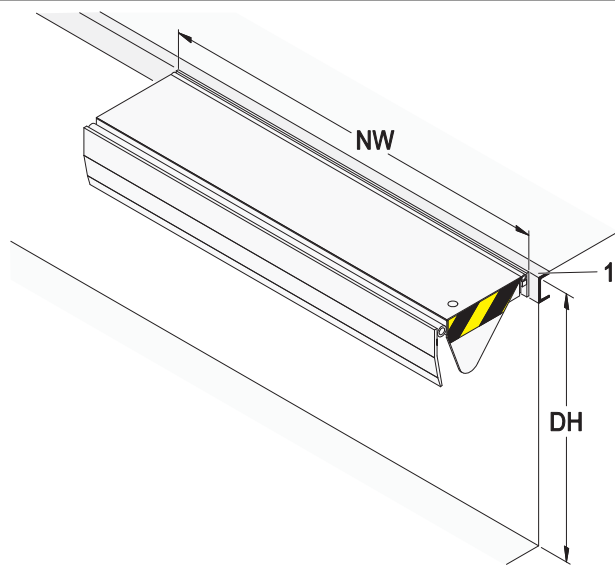
Nominal width	1250 mm (40 kN) 2000 mm (40 kN, 60 kN) 2200 mm (40 kN, 60 kN)
Nominal length	700 mm
Length of swing lip	300 mm
Vertical working range	100 mm

4. Installation

This section illustrates the two installation modes for the ASSA ABLOY DL6010SM swingdock minidock.

- Ramp installation
- Pit installation

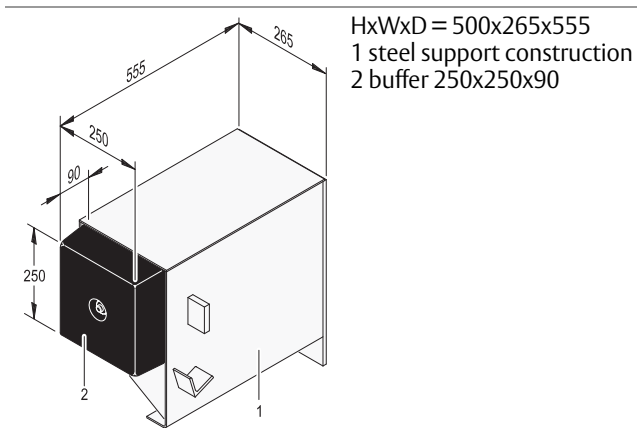
4.1 Ramp installation



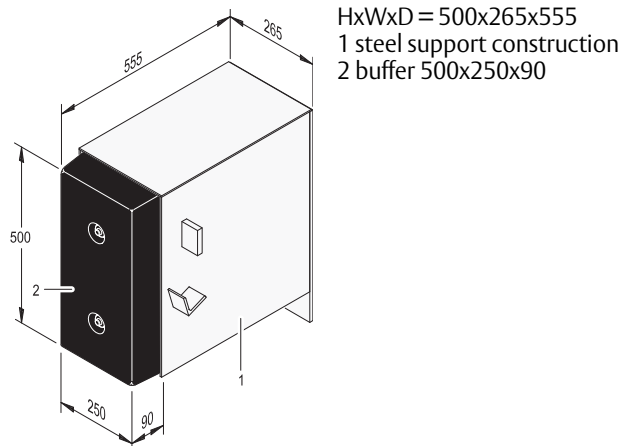
pit drawing 5143.0206	without tail lift recess
pit drawing 5143.0243	with tail lift recess
NW	Nominal width
DH	Dock height
1	Angle (by others)

4.1.1 Buffer options

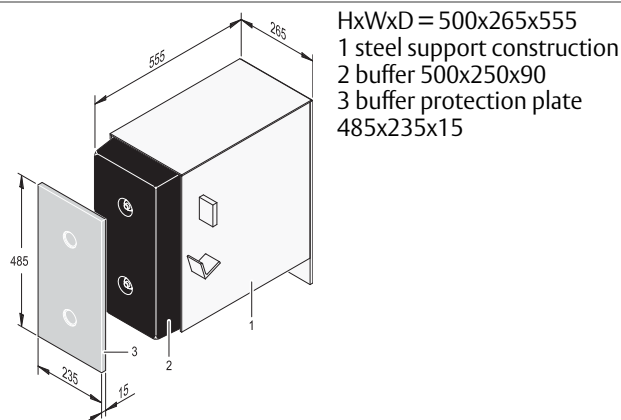
4.1.1.1 RB/2: Buffer



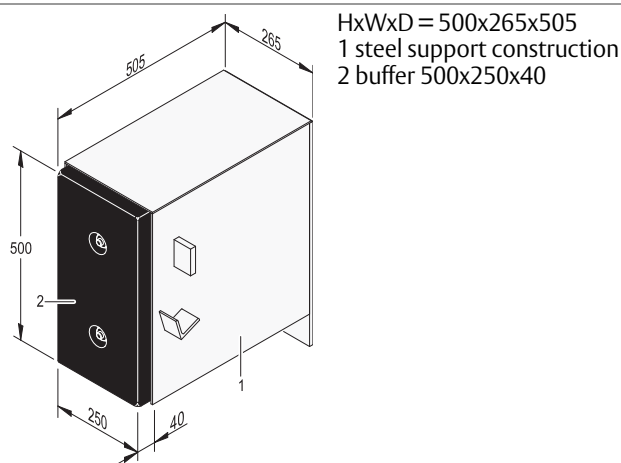
4.1.1.2 RB: Buffer



4.1.1.3 RB: Buffer with steel protection plate

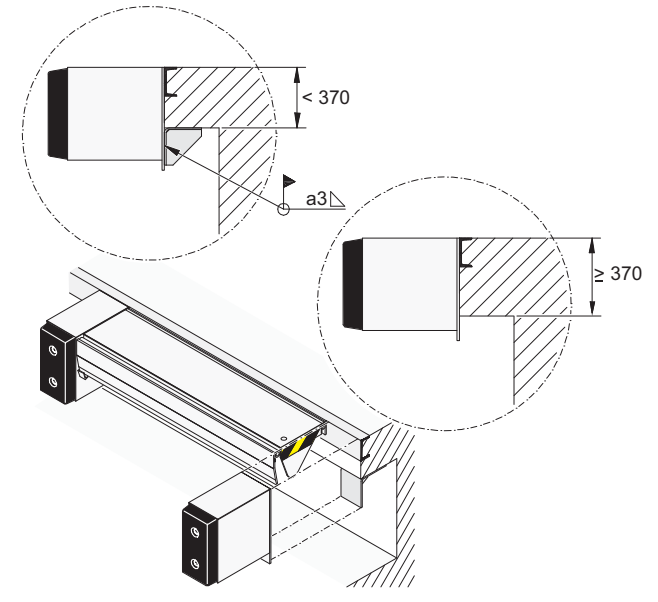


4.1.1.4 PE: Buffer

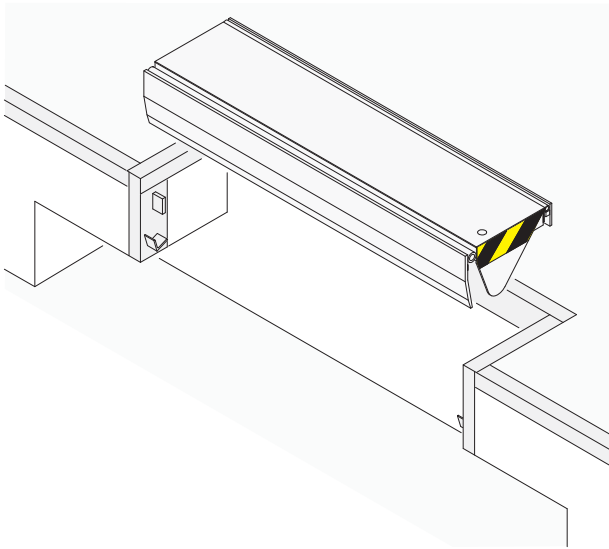


4.1.1.5 Bracket for steel support construction

Bracket for ramp installation with buffer construction RB
500x250x90 when the concrete cantilever plate is <370mm.

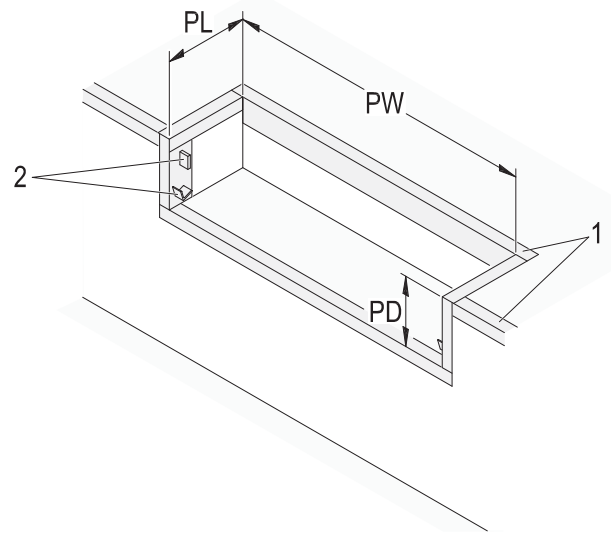


4.2 Pit installation



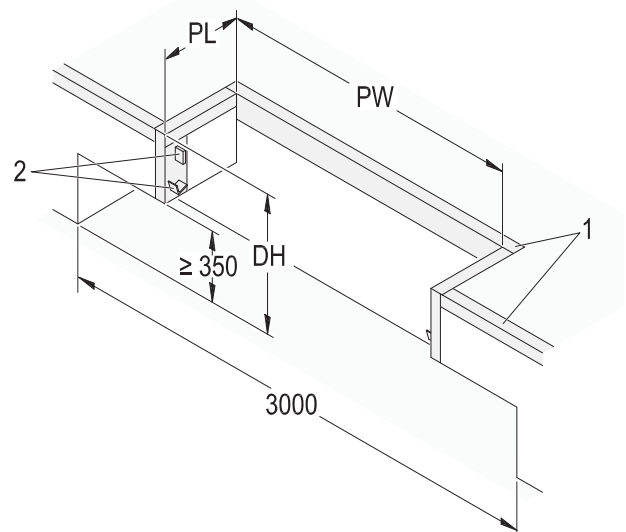
PL	pit length
PW	pit width
PD	pit depth
DH	dock height
1	angle (by others)
2	resting angles (by others)

4.2.1 Without tail lift recess



pit drawing 5143.0199

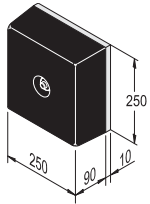
4.2.2 With tail lift recess



pit drawing 5143.0244

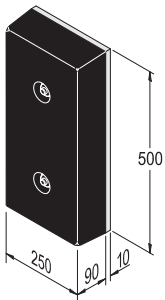
4.2.3 Buffer options

4.2.3.1 RB/2: Buffer



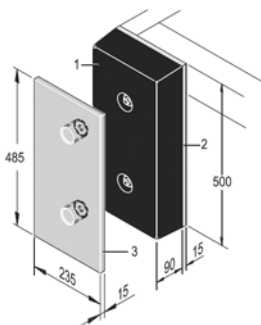
HxWxD = 250x250x90
1 buffer 250x250x90

4.2.3.2 RB: Buffer



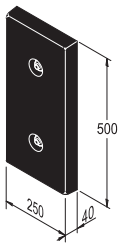
HxWxD = 500x250x90
1 buffer 500x250x90

4.2.3.3 RB: Buffer with steel protection plate



HxWxD = 500x250x105
1 buffer 500x250x90
2 buffer protection plate 485x235x15

4.2.3.4 PE: Buffer



HxWxD = 500x250x40
1 buffer 500x250x40

5. Service you can rely on



Gold

The ultimate protection

With full coverage, Gold Service enables you to plan and budget your expenses annually.

- Spare parts for emergency calls
- Labor and travel costs for emergency calls
- Replacement of components according to preventive maintenance schedule and to fulfill legislative and safety requirements

Silver

Added advantages

With cover for all service calls during business hours, Silver Service offers you peace of mind.

- Labor and travel costs for emergency calls
- Preventive maintenance

Bronze

Scheduled Service

With scheduled on site visits, Bronze Service means you know that your doors and docking systems will be regularly serviced and inspected.

- Preventive maintenance

Included in all packages

1-4 scheduled maintenance visits per year

24/7 priority service hotline and fast response

Safety, compliance and quality control checks

Documentation reports provided on site

Expert service you can rely on

A healthy business enjoys a steady flow of goods, services and people through its entrances every day. But heavy traffic puts entrances under pressure as every component works to keep them running.

ASSA ABLOY Entrance Systems offer the industry's most complete, flexible service solutions. Because even something as robust and well-engineered as an ASSA ABLOY door or docking system needs to be serviced to stay in great working order.

Pro-active care packages

An ASSA ABLOY service agreement gives you service you can rely on. We have specialized local service technicians on call to take care of your service needs. Equipped with a wide range of spare parts and expertise, to keep your industrial doors and docking systems running.

With an ASSA ABLOY service agreement you can ensure reliable, safe and sustainable operations at every entrance under your agreement, including doors and docking systems, independent of brand.

ASSA ABLOY e-maintenance™ (optional add-on)

For an online overview of your entrance systems and history, add ASSA ABLOY e-maintenance™ to your service package for:

- Easy access to real-time data on all your doors
- Planning, order and service information
- Overview that helps you control lifecycle costs

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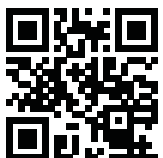
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ASSA ABLOY Entrance Systems provides solutions for efficient and safe flow of goods and people. Our offering includes a wide range of automated pedestrian, industrial and residential doors, loading dock equipment, perimeter fencing and service.

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