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Technical facts

Features

Sizes - pit length	1765mm -	3050mm	
Sizes - nominal length	1750mm -	3000mm	
Sizes - pit width	1730mm -	2310mm	
Sizes - nominal width	1700mm -	2250mm	
Vertical working range	Above dock:	0 - 430 mm	
	Below dock:	0 - 360 mm	
Platform tear plate	Standard:	Thickness: 6 mm (6/8)	
	Option:	Thickness: 8 mm (8/10)	
Surface treatment:	Standard:	Hot dip galvanised	
Control Unit	Leveler control		
	Door control		
	Shelter control		
	Fault & service i	ndicator	

*Other sizes are available on request.

Performance

Load capacity:	60kN (6 tonnes)
Max. point load:	8 mm (8/10)(6,5 N/mm²)
Motor hydraulic unit:	0,75 kW
Mains supply:	400V 3-phase, 230V 3-phase
Control unit protection class:	950-series IP54
Allowable oil types:	ASSA ABLOY standard hydraulic oil (-20°C - +60°C) ASSA ABLOY low temperature hydraulic oil (-30°C - +60°C) ASSA ABLOY bio hydraulic oil (-20°C - + 60°C)
Magnetic valves:	24V/DC 18W S1
Surface treatment paint class 1:	80 μm C2 M acc. DIN EN ISO 12944-2
Surface treatment paint class 3:	160 μm C3 M acc. DIN EN ISO 12944-2
Surface treatment galvanised:	Hot dip 80 μ m C4 & C5-I M acc. DIN EN ISO 12944-2



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1. Description

1.1 General

The ASSA ABLOY DL6010SR swingdock replacement is an efficient upgrade solution to replace obsolete dock levelers. Based on the existing pit there is a choice of various replacement options that suits the situation best.

The replacement system requires that the existing concrete pit and steel profiles are strong enough to cover the loads of a new leveler.

The replacement F-frame system is designed to weld the leveler directly to the old existing leveler's frame. This system is especially developed for the replacement of existing levelers with a frame on all three sides in an open pit – not only in a closed pit.

The replacement Pit-frame system is designed to take out the old leveler completely and install the new leveler according to the basic principles of a Pit model. This system is especially developed for the replacement of existing Pit model levelers. Only the rear frame is welded to the existing steel profile in the concrete; the front part of the leveler is supported directly by the floor of the closed pit or by strong steel brackets of the open pit.

An ASSA ABLOY expert will carry out the inspection of the pit condition and check the dimensions. This ensures the best possible replacement solution for the obsolete dock leveler.

The ASSA ABLOY DL6010SR swingdock replacement system meets the standard demands of most loading operations and fully complies with rules and regulations of the European Standard EN 1398. This replacement system is available as a 60kN swingdock leveler.

1.2 Replacement System

- 1.2.1 Replacement F-Frame System
- 1.2.1.1 Check the condition of the existing pit



The frame is the leveler's connection point to the building and a rigid support for the leveler. The replacement F-frame system requires that the concrete pit and the old existing frame are strong enough to cover the loads of a new leveler. The F-frame is designed to weld the leveler directly to the existing leveler's frame.

If these requirements are not fulfilled, then the solution is a complete renovation of the concrete pit and the delivery of a new leveler with the T-frame system.

Your expert from ASSA ABLOY will do the visual inspection.



1.2.1.1 Remove existing leveler



Remove the old leveler. Leave the old leveler's steel frame in the pit.

1.2.1.1 Check the dimensions of the existing pit



Your expert from ASSA ABLOY will check the exact dimensions.

1.2.1.1 Place new leveler



Weld the replacement leveler directly to the old existing leveler's frame on all three sides.

When installed, the front end of the new leveler will not always fit exactly to the existing frame in the pit.



The side frame can be up to 15 mm shorter than the existing frame in the pit.

X = max. 15 mm to ensure that the lip comes far enough into the truck bed.





The side frame can be up to 35 mm longer than the existing frame in the pit.

X = max. 35 mm to allow buffers of about 100 mm depth to provide proper protection.

- 1.2.2 Replacement Pit-frame system
- 1.2.2.1 Check the condition of the existing pit

1.2.2.1 Remove existing leveler



Remove the complete steel structure.

1.2.2.1 Check the dimensions of the existing pit



The frame is the leveler's connection point to the building.

The replacement Pit-frame system requires that the concrete pit and the old existing steel profile in the concrete are strong enough to cover the loads of a new leveler. The Pit-frame is designed to take out the old leveler completely.

If these requirements are not fulfilled, then the solution is a complete renovation of the concrete pit and the delivery of a new leveler with the T-frame system.

Your expert from ASSA ABLOY will do the visual inspection.

Your expert from ASSA ABLOY will check the exact dimensions.



1.2.2.1 Place new leveler



Install the new leveler according to the the basic principles of a Pit model; weld the rear frame to the existing steel profile in the concrete, the front part of the leveler is supported directly by the floor of the closed pit or by strong steel brackets of the open pit.

1.3 Leveler

1.3.1 Application

The ASSA ABLOY DL6010SR swingdock replacement is the standard solution in general industry applications and easy to operate. The swing lip safely bridges the gap between the ramp and the lorry bed. The ASSA ABLOY DL6010SR swingdock replacement system meets the standard demands of most loading operations and fully complies with rules and regulations of the European Standard EN 1398.

1.3.2 Mode of operation

The operation of the ASSA ABLOY DL6010SR swingdock replacement is based on an electro-hydraulic swing lip, controlled by a semi-automatic control unit.

When the dock leveler is raised, the lip swings out and the leveler lowers gently onto the lorry bed. After loading or unloading, the leveler is raised again, the lip swings down and the platform returns to its parking position, i.e. to ramp level.

1.3.3 Overview



Shown is a leveler with F-frame

- 1 Leveler platform
- 2 Swing lip
- 3 Leveler frame
- 4 Toe guards
- 5 Warning stripes
- 6 Hydraulic unit
- 7 Lift cylinders
- 8 Swing lip cylinder
- 9 Buffers (option)
- 10 Tail lift recess
- 11 Control unit



1.4 Swing Lip

- 1.4.1 Lip shapes
- 1.4.1.1 Standard swing lip



The standard swing lip is a single rectangular lip for use with a fleet of vehicles that is a standard size.

1.4.2 Lip angles

1.4.2.1 Bent lip



The standard bent steel swing lip ensures smooth transition to a lorry bed both above and below dock level. Avoids tripping hazards according EN 1398.

1.4.2.1 Straight lip

100 mm

1.4.2.1



Bevelled lip

A straight steel swing lip ensures smooth transition when the lorry bed is below or equal to dock level. Avoids tripping hazards according EN 1398.

The standard steel lip is

signed to provide maxi-

mum comfort and smooth transition from the lip.

100 mm bevelled, de-

1.4.1.1 Tapered swing lip



A tapered swing lip ensures that the lip reaches the lorry bed, even when the lorry is not parked in the exact centre position. Avoids damage to the truck and interruptions of the dockin procedure. s = 125 mm

1.4.1.1 Fold down segments



Ensures that the swing lip reaches the lorry bed by folding down one or both outer segments when the lorry is smaller than usual, or not parked in the exact centre position. Avoids damage to the truck and interruption of the dock-in procedure. Only available for 60 kN. Z = 125 mm



1.5 Platform

1.5.1 Platform tear-plate thickness

The 6 mm (6/8) tear-plate is designed for loading and unloading with typical 4 wheel pneumatic-tired fork-lift trucks. Alternatively an 8 mm 8/10 tear-plate is available for handling equipment with high point loads, such as electric pallet trucks. However, potential platform deformations do not reduce the functionality of the leveler.

1.5.2 Toe guards

The leveler is as standard equipped with toe guards; steel plates between the platform and the frame. The toe guard prevents the pinching of feet when the leveler is lowered.



1.5.3 EPDM seal (only with frame F)

To seal the gap between leveler and pit, an EPDM seal can be factory-installed between the flexible platform and frame. By reducing draughts into the building, working conditions improve and energy savings increase.



1.5.4 Slip protection / noise reduction

Applying a polyurethane slip protection coating on the lip and platform ensures a durable non-slip and noise reduction surface. The effect is a smooth and comfortable surface for handling equipment that is less receptive to wear and tear.

The PU coating material is resistant to impact, to thermal impact and most types of chemicals and it has a high loading capacity.



1.5.5 Platform insulation

When the dock leveler is positioned in a bay directly outside the door opening, it can be beneficial to insulate the dock leveler The insulation counteracts the penetration of incoming heat/cold from outside. To achieve the best results, the dock leveler should also be fitted with an EPDM seal.

The insulation consists of factory-installed insulated panels with a thickness of 40 mm.



ASSA ABLOY Entrance Systems

1.6 Surface

1.6.1 Painting

1.6.1.1 Colors

The dock leveler standard finish is painted. The standard colors are:

	RAL 5010
	RAL 9005
Colors available as o	option are:
	RAL 3002
	RAL 6005

1.6.1.1 Standard paint class

If the dock leveler is to be used in a rural area, the standard finish is:

- Paint class 1; 80 μm factory painted for corrosive category C2 M

1.6.1.1 Paint classes

If the dock leveler is to be used in an urban or industrial atmosphere, or in a coastal area, it may be appropriate to select an alternative paint class with increased resistance to corrosion C3 M.

• Paint class 3; 160 μm factory painted for corrosive category C3 M

1.6.2 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 ($80 \mu m$) steel parts.



1.7 Docking control systems

1.7.1 950 Docking L SD



- Hold-to-run button to position the lip on the truck bed.
- Hold-to-run button to put the leveler back in parking position.
- Mains isolator or emergency stop button.
- Interface to incorporate ASSA ABLOY wheel chock.

1.7.4 950 Docking DLA SD



Designed to operate an overhead sectional door and an inflatable shelter in the docking station.

- Hold-to-run button to position the lip on the truck bed.
- Impulse auto button to put the leveler back in parking position.
- Mains isolator or emergency stop button.
- Interface to incorporate ASSA ABLOY wheel chock.

1.7.5 950 Docking LS SD





- Hold-to-run button to position the lip on the truck bed.
- Impulse auto button to put the leveler back in parking position.
- Mains isolator or emergency stop button.
- Interface to incorporate ASSA ABLOY wheel chock.



Designed to operate an inflatable shelter in the docking station.

- Hold-to-run button to position the lip on the truck bed.
- Hold-to-run button to put the leveler back in parking position.
- Mains isolator.
- Interface to incorporate ASSA ABLOY wheel chock.
- Designed to operate an inflatable shelter in the docking station.

1.7.3 950 Docking DL SD



Designed to operate an overhead sectional door in the docking station.

- Hold-to-run button to position the lip on the truck bed.
- Hold-to-run button to put the leveler back in parking position.
- Mains isolator.
- Interface to incorporate ASSA ABLOY wheel chock.



1.7.6 950 Docking LSA SD



Designed to operate an overhead sectional door and an inflatable shelter in the docking station.

- Hold-to-run button to position the lip on the truck bed.
- Impulse auto button to put the leveler back in parking position.
- Mains isolator or emergency stop button.
- Interface to incorporate
 ASSA ABLOY wheel chock.
- Designed to operate an inflatable shelter in the docking station.

1.7.7 950 Docking DLS SD



Designed to operate an overhead sectional door and an inflatable shelter in the docking station.

- Hold-to-run button to position the lip on the truck bed.
- Hold-to-run button to put the leveler back in parking position.
- Mains isolator.
- Interface to incorporate ASSA ABLOY wheel chock.
- Designed to operate an overhead sectional door and an inflatable shelter in the docking station.

1.7.8 950 Docking DLSA SD



Designed to operate an overhead sectional door and an inflatable shelter in the docking station.

- Hold-to-run button to position the lip on the truck bed.
- Impulse auto button to put the leveler back in parking position.
- Mains isolator or emergency stop button.
- Interface to incorporate ASSA ABLOY wheel chock.
- Designed to operate an overhead sectional door and an inflatable shelter in the docking station.

1.7.9 950 Docking power cable



- Standard: 1,1 m power cable to connect to mains switch on the wall.
- Option: 1,5 m power cable with CEE-plug, premounted.



1.8 Equipment

1.8.1 Buffers

Buffers placed in front of the dock leveler absorb the energy of a vehicle that accidentally or intentionally hits the building. Buffers are available in various sizes, in fixed or moving models, and with rubber finishing or steel plate and spring function.

1.8.1.1 RS



Application

The RS buffer is the economical solution for docking stations where vehicles of equal sizes load and unload.

1.8.1.1 RB with steel front and top plate



Application

The RB buffer with steel protection front and top plate is designed for vehicles with high lorry beds like interchangeable open bodies and containers. Available depths:

- 90 mm
- 140 mm

1.8.1.1 Roller buffer



EBF

Application

The Roller buffer is a robust solution for docking stations where vehicles make notable vertical movements when loading or unloading.

The Roller buffer is designed for vehicles without protruding elements below the rear door.

1.8.1.1 RB



Application

The RB buffer is a large fixed rubber. It is the universal building and vehicle protection solution. Available depths:

- 90 mm
- 140 mm

1.8.1.1 RB with steel front plate



Application

The RB buffer with steel protection front plate increases the building protection and the buffer service life.

- Available depths:
 - 90 mm
 - 140 mm



Application

The EBF buffer is the ideal solution for docking stations where vehicles are expected to make notable vertical suspension changes when loading or unloading. This buffer follows vertical movements of the vehicle. Available depths:

90 mm

140 mm

1.8.1.1 EBH

1.8.1.1



Application

The EBH buffer is the ideal solution for docking stations where vehicles of notable height differences load and unload. This buffer can be vertically adjusted by a 'release device'. Available depths:

- 90 mm
- 140 mm



1.8.1.1 Steel spring buffer 600



Application

The steel spring buffer is the ideal protector of the ramp as well as the vehicle itself.

1.8.1.1 Steel spring buffer 800



Application

The 800 mm steel spring buffer is designed for applications where vehicles generally are higher than ramp level.

1.8.2 ASSA ABLOY DE6190WC Wheel chock



The wheel chock has a sensor to detect the presence and position of the vehicle and is connected to the dock leveler control panel. If no vehicle is detected, the docking station is blocked for safety reasons. Furthermore, the wheel chock prevents the vehicle from moving during loading/unloading.

1.8.3 ASSA ABLOY DE6090TLS Traffic light system



The traffic light system either has a sensor above the dock leveler that measures the presence of the vehicle or it is a wheel chock that detects the vehicle.

If there is no vehicle (dock leveler is free), the traffic light inside is red, outside is green. The traffic light can also be combined with a wheel chock or door/ leveler interlocking.

1.8.4 ASSA ABLOY DE6090DL Dock light Heavy Duty LED



Where dock lights are often a vulnerable object in the docking area, the virtually indestructible Dock Light Heavy Duty LED is the perfect solution to bring light in the truck and docking area. It is designed for the most demanding environments and can withstand possible hard hits from a moving forklift without being damaged.

1.8.5 ASSA ABLOY DE6090FL Fan light



The compact fan light is a combined solution of a fan and a dock light in one system. The fan creates a continuous stream of fresh air that refreshes and cleans the air inside the trailer or container and the integrated dock light provides extensive light. It has a flexible solid arm that fits general industry and logistics applications, for an easy and fast docking process.

1.8.6 Parking guides



This visual aid makes it easier to park the vehicle and reduces the risk of collision. Especially advantageous for docking stations with wide leveler lips and cushion shelters. Parking guides can be bolted or cast in concrete on the floor before the leveler.

1.8.7 ASSA ABLOY DE6190DI Dock-IN



ASSA ABLOY Dock-IN offers a complete line of guide- and traffic lights that align the truck with the docking bay to make the Dock-IN procedure easy and safe. ASSA ABLOY Dock-IN is based on modern LED technology and stands for high reliability and low energy consumption.

1.8.7.1 Dock-IN White



ASSA ABLOY Dock-IN White consists of two white LED light bars. It is designed to help guide a truck to the dock. ASSA ABLOY Dock-IN White offers much more visual aid than white stripes on the shelter or asphalt. Mounted on the wall they are always clearly visible, less exposed to wear and tear and not hidden by dirt and snow!

1.8.7.1 Dock-IN Red



ASSA ABLOY Dock-IN Red is a traffic light system consisting of one red LED light bar, a sensor for truck detection and a traffic light control box. The sensor detects the truck when it is in the right position, very close to the dock. The red LED turns ON to give the signal to the truck driver to break and let the truck roll against the buffer at the lowest speed, without the risk of damage. The system includes interlocking of the loading bay control box functions which are only released when the truck is in place and the red LED is ON.

1.8.7.1 Dock-IN White & Red



ASSA ABLOY Dock-IN White & Red is the optimum combination of both systems for easy and safe docking. The white LEDs provide the visual target and the red LED positions the truck at the right distance to the dock. The white guiding LEDs turn off when the truck is detected and at the same time the red LED turns ON. Before the truck is leaving, the operator push the RESET button on the control box inside the building. Then the white LEDs turn ON and the red LED turns off as a signal to the truck driver that the loading is finished.



1.8.7.1 Standard



1. Indication light inside and RESET button

Indication Light Inside.

A Green LED light on the 950 control box to indicate that the control box functions are released. The operator of the loading bay equipment knows exactly when he can start loading or unloading. The green LED light will help to save energy and to control the complete loading process.

RESET button

The RESET function is activated from a push button on the control box inside the building before the truck is leaving. The white LEDs turn ON and the red LED turns OFF as a signal to the truck driver that loading is finished. For this function, the leveler must be in parking position, the sectional door closed and the inflatable shelter retracted.

For the activation of the RESET function, you push the button for 1 second. If you push the button for 3 seconds before the truck drives off, then the red LED turns ON again the white LEDs turn OFF. When the truck is leaving, the white LEDs turn ON and the Dock-IN system is ready for the next truck.

1.8.7.1 Available Options

• Dock-IN Green and Red.

Green LEDs instead of White. This version has the same function as Dock-IN White and Red.

• Indication Light Inside, built into the 950 control box A Green LED light on the control box to indicate that the control box functions are released. The operator of the loading bay equipment knows exactly when he can start loading or unloading. The green LED light will help to save energy and to control the complete loading process.

• Second Red LED

A second Red LED bar can be added to have the red LED traffic light on both sides of the docking bay. This is an option for terminals with left and right hand drive international trucks.

• Wheel chock connection

To increase the safety it is possible to connect the ASSA ABLOY wheel chock to the traffic light function ASSA ABLOY Dock-IN Red or ASSA ABLOY Dock-IN White and Red. The control box will be interlocked until the truck is detected and the wheel chock is in place.

Note:

Make sure the LED bars will not be covered by the Dock shelter.

Lowest possible truck is max. 2000 mm below the sensor position.



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 $[mm^2]$ is derived from the wheel load [N] divided by 2 $[N/mm^2]$. 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 level- er	6000 kg/60kN



2.3 Select the appropriate platform tear plate thickness

The 60kN (6 tonnes) DL6010SR is as a standard equipped with a tear plate of 6 mm (6/8). Optionally an 8 mm 8/10 tearplate is available.

2.3.1 Handling equipment traffic situation

Each handling-equipment traffic situation creates a certain point load impact on the dock leveler platform depending on the contact area of the wheels. The typical 4 wheel pneumatic-tired forklift trucks have a lower point load impact than electric pallet trucks with small hard wheels.

2.3.2 Example

Vehicle	Rated load	Point Ioad	Tear plate	Load ca- pacity
Roll cage	750 kg	Medium	6 mm	60 kN
Hand pallet truck	3200 kg	High	8 mm	60 kN
Electric pallet truck	3200 kg	High	8 mm	60 kN
Forklift truck	5200 kg	Medium	6 mm	60 kN

2.4 Free space under lip

2.4.1 Steel lip 400 mm



2.4.2 Steel lip 500 mm





3. Specifications

3.1 Dimensions



NL Nominal length OL Overall length GL Gradient length NW Nominal width LL Lip length LH Leveler height А Working range above dock level В Working range below dock level

Vertical working range (selected dimensions)

Dimensions		Vertical working range					
		LL	400	LL	500		
NL	LH	Α	В	Α	В		
2000	600	260	280	-	-		
	700	290	330	180	360		
2500	600	310	270	-	-		
	700	390	340	270	360		
3000	600	340	265	-	-		
_	700	400	335	280	290		

Leveler dimensions depending on pit dimensions and frame type!

3.2 Platform thickness

Thickness	Max. point load
6 mm (6/8)	1,3 N/mm²
8 mm 8/10	6,5 N / mm ²



3.3 Control units

3.3.1 Dimensions



950 Series

3.3.2 Functions

	L SD	LA SD	DL SD	DLA SD	LS SD	LSA SD	DLS SD	DLSA SD
					CIICO See			
Hold-to-run button								
Impulse auto button								
Mains isolator								
Emergency stop button								
400 V								
230 V								
Maintenance indicator								
3 Digit display								
Memory function								
BUS network interface								
Wheel chock								
Door control								
Shelter control								
Standard								

Option / Available



4. CEN Performance

4.1 Safety according to the European Standard EN 1398

• Emergency Stop Function.

- Safety valves block lowering movement after max. 6% of the nominal length of the leveler.
- Two lift cylinders make sure the leveler stops in a horizontal position.
- Free floating position.
- Platform torsion. Lateral deflection of at least 3% of nominal width.
- Toe guards cover gap between platform and pit in leveler's highest position.
- Working range gradient max. 12,5% (~7°).
- Warning stripes on side plates and on frame (black/yellow).



Building and space requirements 5.

Electrical preparations 5.1



*Non standard



6. 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	24/7 priority service hotline	Safety, compliance and	Documentation reports
visits per year	and fast response	quality control checks	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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