

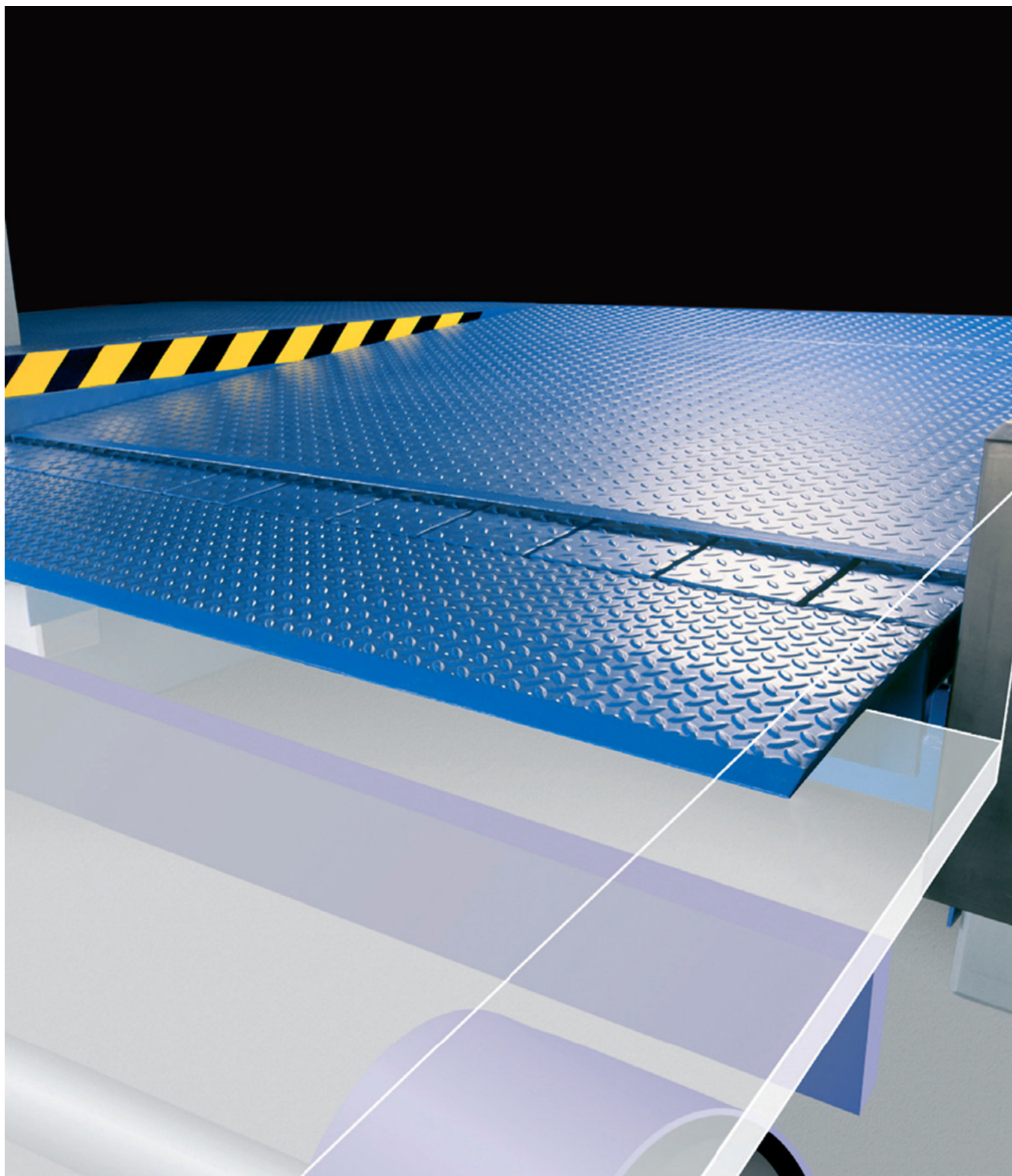
Product datasheet

Dock leveler

ASSA ABLOY DL6120ST

ASSA ABLOY
Entrance Systems

Experience a safer
and more open world



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Technical facts

Features

Sizes - leveler height	700, 750 mm	
Sizes - nominal length*	2500, 3000 mm	
Sizes - nominal width	2000, 2200 mm	
Size of the step	900 x 200 mm	
Vertical working range	Above dock:	0 - 420 mm
	Below dock:	0 - 450 mm
Platform tear plate	8 mm (8/10)	
Surface treatment	Standard:	RAL 5010
	Option:	RAL 9005
		RAL 3002
		RAL 6005
		Hot dip galvanised
Control unit	Leveler control Door control Shelter control Fault & service indicator	

* Other sizes are available on request

Performance

Load capacity	6 tonnes (60kN)
Max. point load	6,5 N / mm ² (8 mm tear plate)
Motor hydraulic unit	1,5kW
Mains supply	400V 3-phase, 230V 3-phase
Control unit protection class	IP54
External control unit with spiral cable, dock leveler push buttons	IP65, spiral cable length 3,3 m
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 Corrosive Category C2 M acc. DIN EN ISO 12944-2
Surface treatment paint class 3	160 µm Corrosive Category C3 M acc. DIN EN ISO 12944-2
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 DL6120ST stepdock is a dock leveler that provides increased efficiency and safety for the docking process. Unlike conventional docking systems, the dock leveler is placed behind a well-insulated sectional door. In closed position, it is very well sealed off from below, preventing cold or hot air access.

The design was specifically developed to let a truck dock to the loading bay with closed rear doors. First the truck is put in the right position and then preferably an inflatable dock shelter seals off the loading bay before the sectional door is opened. The last step of the complete dock-in procedure is that the rear doors of the truck are opened. This sequence "dock first – open the rear doors later" provides a number of benefits: saving of energy, improving working conditions in particular for the truck driver, increasing safety of people / goods, and improving the efficiency of the docking process.

The Stepdock system is the ideal solution for various applications:

- Hygienic transport with high focus on safety.
- Food logistic demanding the unbroken cold chain.
- Container transport with customs purposes.
- High attention on theft prevention.

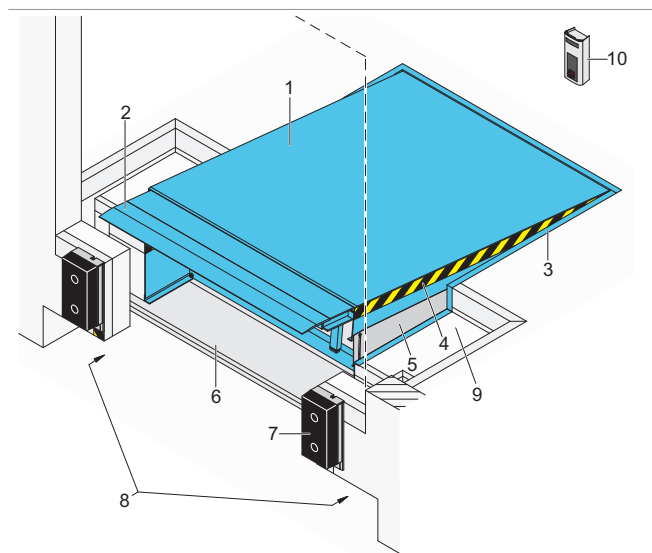
The ASSA ABLOY DL6120ST stepdock system meets the standard demands of most loading operations and fully complies with rules and regulations of the European Standard EN 1398.

1.1.2 Mode of operation

The operation of the ASSA ABLOY DL6120ST stepdock is based on the proven telescopic lip technology which is the universal and most flexible docking system.

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

1.1.3 Overview



- 1) Leveler platform
- 2) Telescopic lip
- 3) Leveler frame
- 4) Warning stripes
- 5) Toe guards
- 6) ISO panel
- 7) Buffers
- 8) Tail lift recess
- 9) Step
- 10) Control unit

1.1.4 Standard

Frames - connection to building	T-frame step 900 x 200 mm
Surface	Painting RAL 5010 or RAL 9005
Hydraulic Equipment	Low noise hydraulic unit Two hydraulic lift cylinders One hydraulic lip cylinder
Lip	Steel lip Bevelled 100 mm Lip length 1000 mm
Resting position	Horizontal

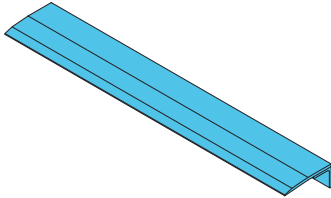
1.1.5 Options

Surface	Painting RAL 3002 or RAL 6005 Hot dip galvanised
Hydraulic equipment	Low temperature oil Bio oil
Lip options	Aluminium lip Tapered lip 2 retracting tongues
Energy & ergonomics	EPDM seal (only available with resting position in slope) Front cover curtain (only available with resting position horizontal) Slip protection/noise reduction
Resting position	In slope
Control unit	External control unit with spiral cable, dock leveler push buttons Control box pillar, painted in yellow RAL 1026
Equipment	Height adjustable buffers type EBH Dock-IN White and Red Dock light XL Truck door blocker, painted in yellow RAL 1026 or galvanized (option) Panels for ISO loading system in thickness 42 mm Panels for ISO loading system in thickness 82 mm Color of the panels RAL 9010 outside and RAL 9002 inside

1.2 Telescopic Lip

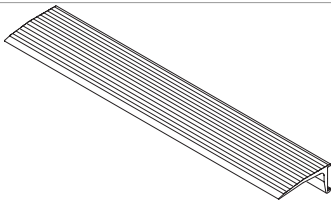
1.2.1 Lip material

1.2.1.1 Steel telescopic lip



The steel telescopic lip is designed for use by heavy loading equipment. It has a high durability, while it provides medium comfort.

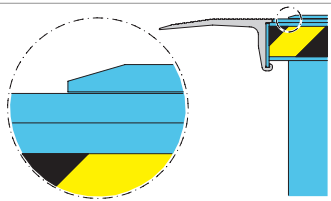
1.2.1.1 Aluminium telescopic lip



The aluminium telescopic lip is designed to provide maximum comfort to low load-weight loading equipment.

1.2.2 Lip type

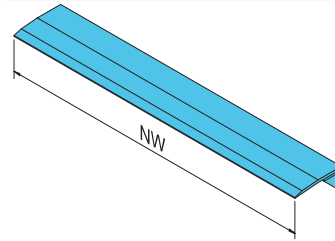
1.2.2.1 Standard lip



When the standard lip is extended there is always a bump from the lip to the platform of the leveler. The length of the lip is 1000 mm.

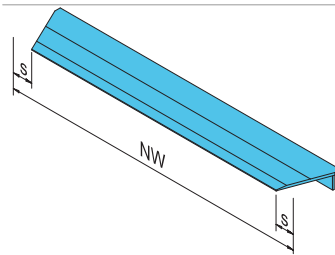
1.2.3 Lip shapes

1.2.3.1 Standard telescopic lip



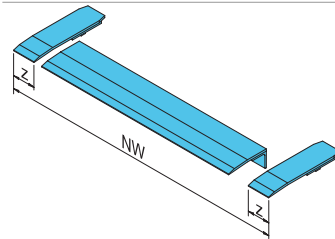
The standard telescopic lip is a single rectangular lip for use with a fleet of vehicles that is a standard size.

1.2.3.1 Tapered telescopic lip



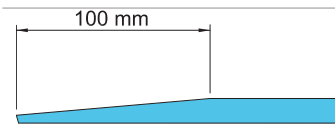
A tapered telescopic lip ensures that the lip reaches the lorry bed, even when the lorry is not parked in the exact centre position. Avoids damage to the truck and interruptions of the dock-in procedure. $s = 100 \text{ mm}$

1.2.3.1 2 retracting tongues



For applications with vehicles of different widths, the telescopic lip can be provided with 2 retracting tongues. On each side a 140 mm wide segment is pushed inside when a smaller vehicle docks.

1.2.4 Bevelled lip



The standard steel lip is 100 mm bevelled, designed to provide maximum comfort and smooth transition from the lip.

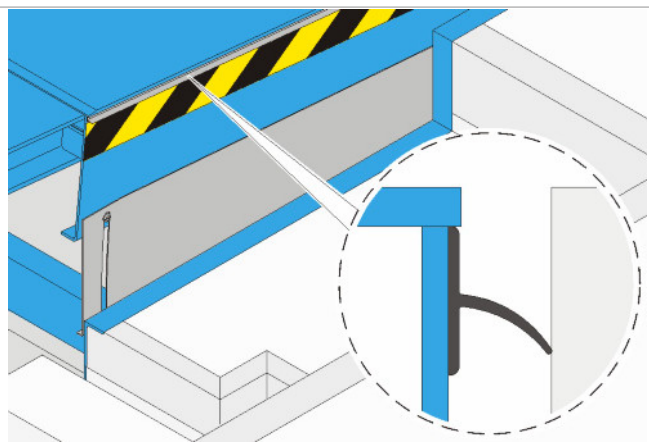
1.3 Platform

1.3.1 Platform tear-plate thickness

The 8 mm (8/10) tear-plate is designed for loading and unloading with typical 4 wheel pneumatic-tired fork-lift trucks, and is also suitable for handling equipment with high point loads, such as electric pallet trucks.

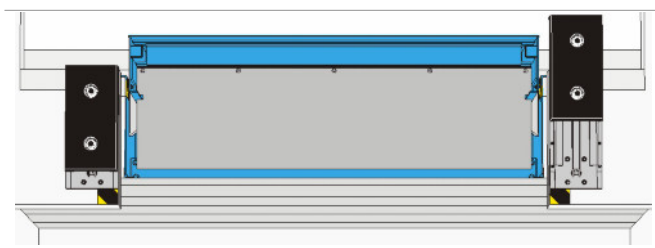
1.3.2 EPDM seal (only available with resting position in slope)

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.



1.3.3 Front cover curtain (only available with resting position horizontal)

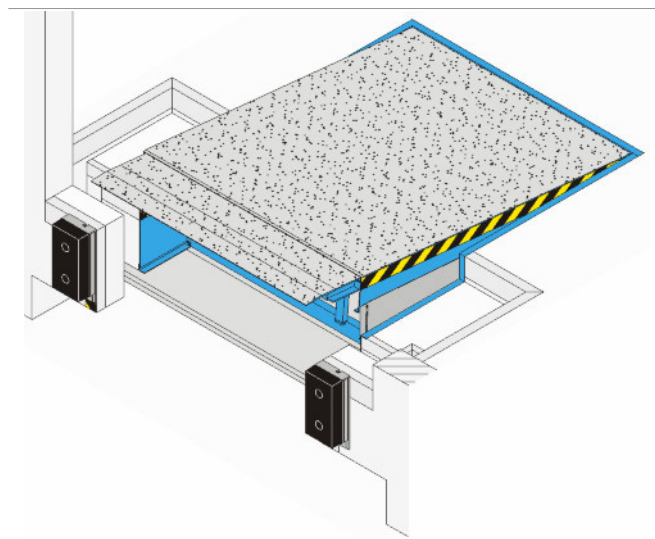
A PVC front cover curtain on the platform prevents draught and dirt under the leveler.



1.3.4 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.



1.4 Surface

1.4.1 Painting

1.4.1.1 Colors

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



RAL 5010



RAL 9005

Colors available as option are:



RAL 3002



RAL 6005

1.4.1.1 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

1.4.1.1 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

1.4.2 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 µm) steel parts.

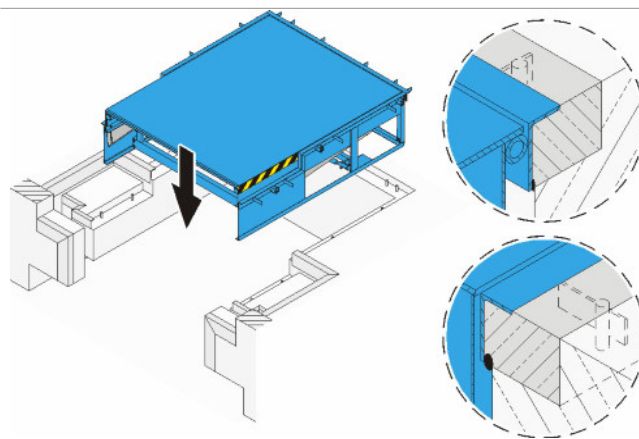
1.5 Frames - connection to building

The frame is the leveler's connection point to the building and a rigid support for the leveler.

The ASSA ABLOY DL6120ST stepdock is available with different frame types. The frame can be embedded in concrete or installed via screws or welding. All frames are illustrated with the tail lift recess. The levelers are also available without tail lift recess.

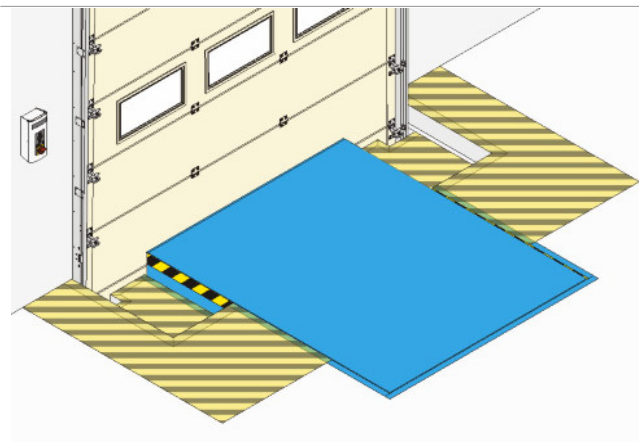
1.5.1 T - step leveler frame for embedding in concrete

The T-frame is installed in one step. The leveler is directly embedded in concrete. The size of the step is 900 x 200 mm.



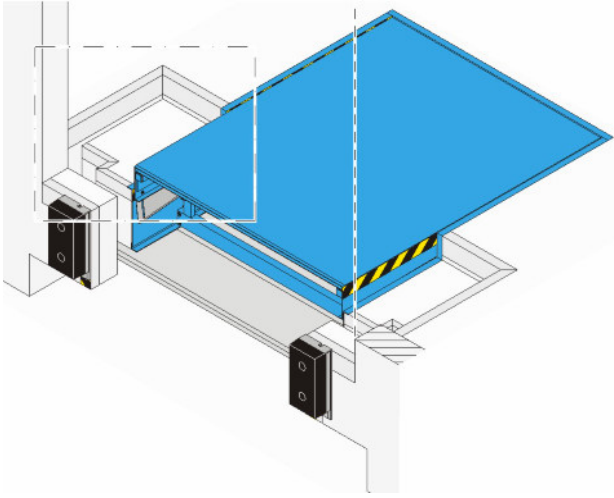
1.6 Resting position

The ASSA ABLOY DL6120ST stepdock is placed inside the building behind the door. Unlike conventional docking systems, the utilization of the space is limited due to the steps in the floor and the specific way of installation has an impact on the safety around the loading area. The operator of the facility is responsible for implementing relevant safety precautions during the loading operation and during the time when there is no loading operation.



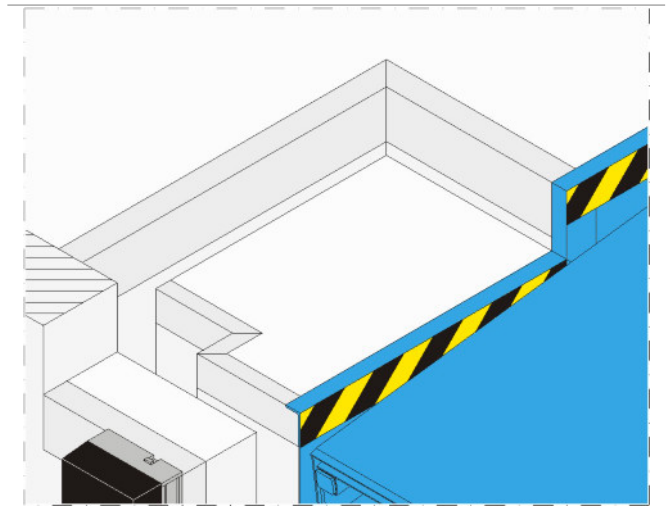
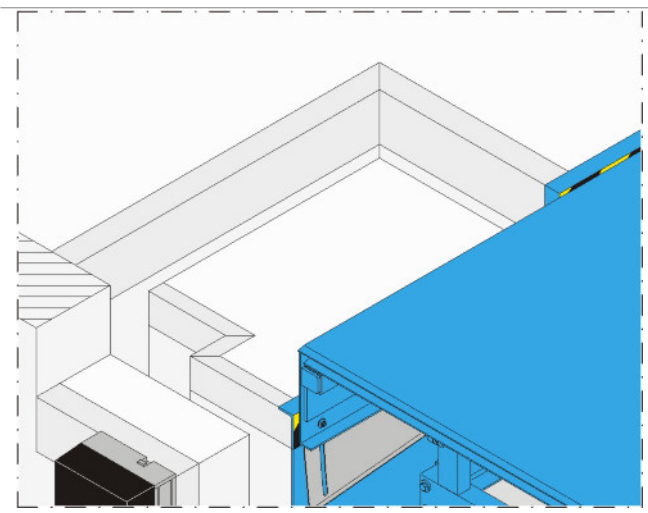
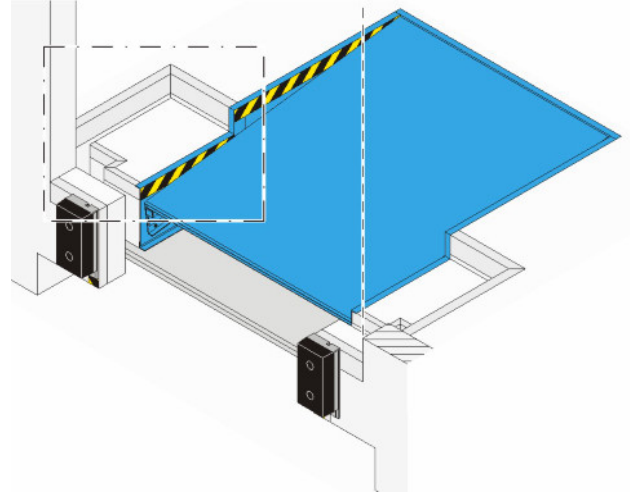
1.6.1 Resting position horizontal

Safety notice: Mind the steps at the front end of the leveler.



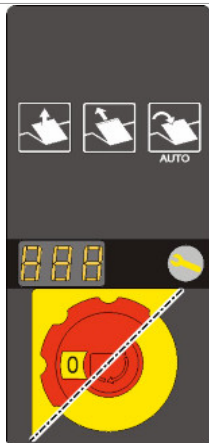
1.6.2 Resting position in slope

Safety notice: Mind the steps at the front end of the leveler and the tripping hazard at the sides.



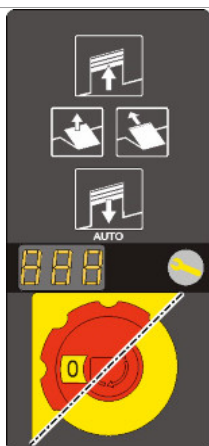
1.7 Docking control systems

1.7.1 950 Docking LA TD



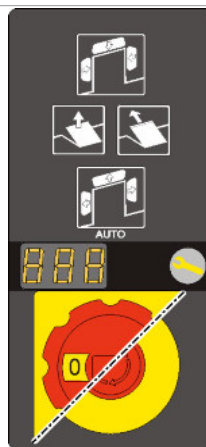
- Hold-to-run button to lift platform.
- Hold-to-run button to position the lip on the truck bed.
- Impulse auto button to put the leveler back in parking position.
- Mains isolator or emergency stop button.
- Interface to incorporate ASSA ABLOY wheel chock.

1.7.2 950 Docking DLA TD



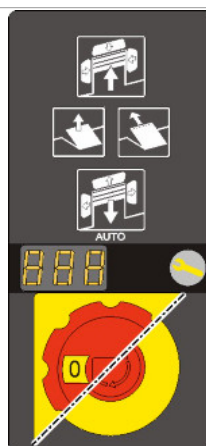
- Hold-to-run button to lift platform.
- Hold-to-run button to position the lip on the truck bed.
- Impulse auto button to put the leveler back in parking position.
- Mains isolator or emergency stop button.
- Interface to incorporate ASSA ABLOY wheel chock.
- Designed to operate an overhead sectional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

1.7.3 950 Docking LSA TD



- Hold-to-run button to lift platform.
- 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.

1.7.4 950 Docking DLSA TD



- Hold-to-run button to lift platform.
- 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.

1.7.5 950 Docking power cable

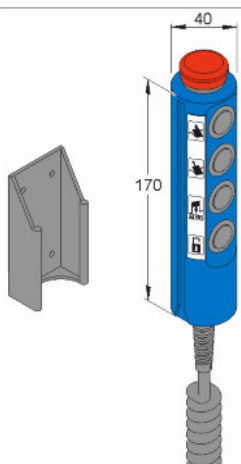
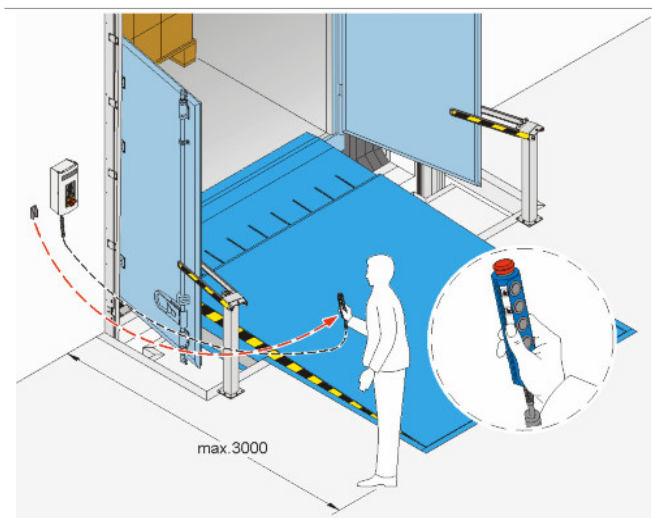


- Standard: 1,1 m power cable to connect to mains switch on the wall.
- Option: 1,5 m power cable with CEE-plug, pre-mounted.

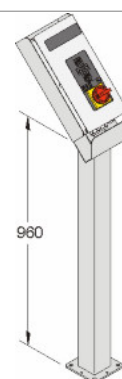
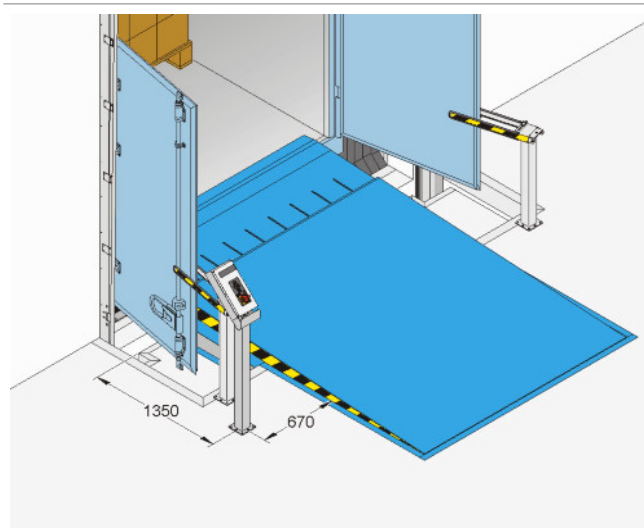
1.8 Location of the control box

To fulfill the safety regulations it is mandatory to secure that the operator can easily observe all movements and is clear of all risks from the dock leveler and the vehicle. As the rear truck doors block the view during the operation of the dock leveler, we offer two solutions.

1.8.1 External control unit with spiral cable, dock leveler push buttons

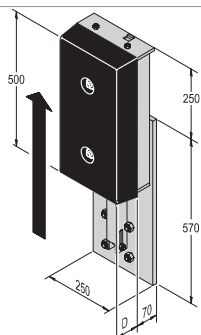


1.8.2 Control box pillar



1.9 Equipment

1.9.1 Buffers EBH

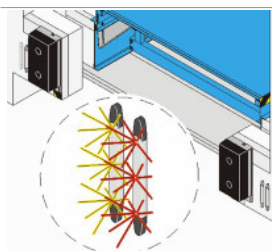


Application

The EBH buffer is the ideal solution for the stepdock system. This buffer can be vertically adjusted by a 'release device'. Available depths:

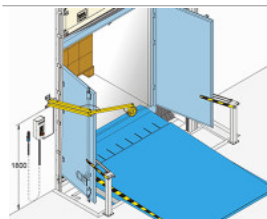
- 90 mm
- 140 mm

1.9.2 Dock-IN White & Red



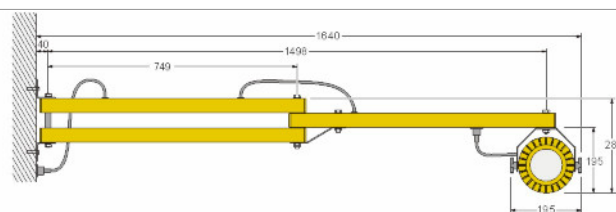
ASSA ABLOY Dock-IN White & Red is the optimum solution for the stepdock system. The white LEDs provide the visual target and the red LED positions the truck at the right distance to the dock. The white guiding LEDs turn off when the truck is detected and at the same time the red LED turns ON. Before 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.

1.9.3 Dock Light Heavy Duty LED XL

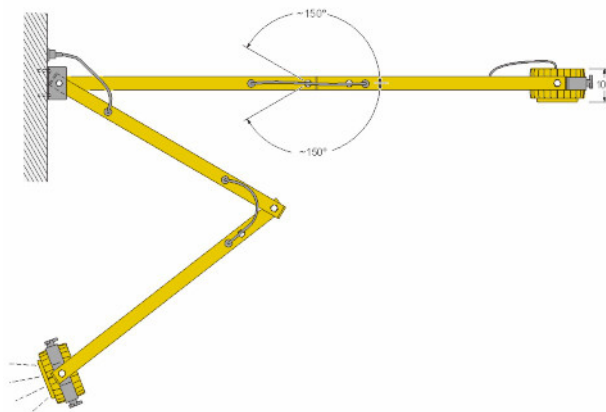


Where dock lights are often a vulnerable object in the docking area, the virtually indestructible Dock Light Heavy Duty LED is the perfect solution to bring light in the truck and docking area. It is designed for the most demanding environments and can withstand possible hard hits from a moving forklift without being damaged. The XL version of the Dock Light Heavy Duty LED was specifically designed for the stepdock solution. When the rear truck doors are opened, the prolonged arm ensures a good lightening into the truck.

1.9.4 Side view



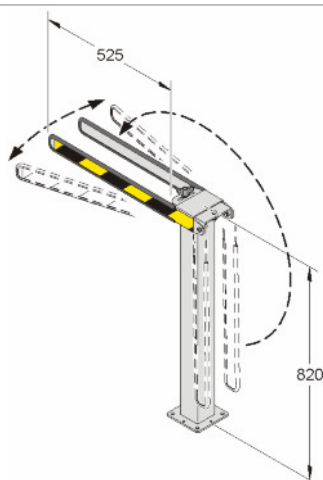
1.9.5 Top view



1.9.6 Truck door blocker

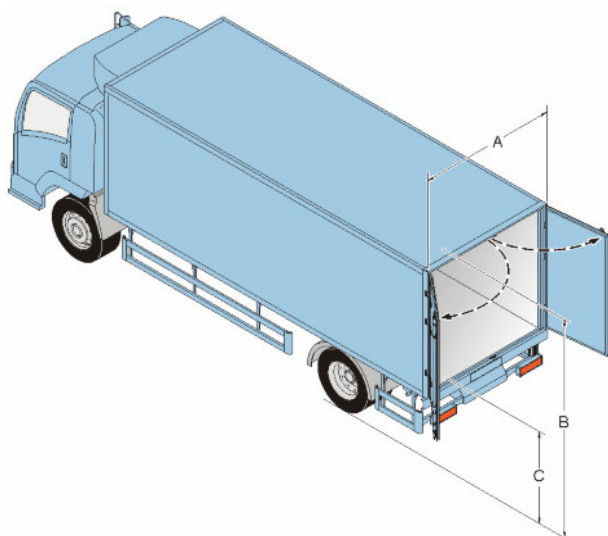
2 truck door blockers are mounted on the left and the right side of the dock leveler behind the step and operated manually to block the movement of the rear truck wing doors during the loading operation.

You can move the arms of the truck door block up/down from the working to the resting position as well as left/right, and then fix the arms with a wing nut when they are in the right position.



The truck door blockers are suitable for conventional vehicles about 2,5 m wide that have rear truck wing doors. For the determination of the loading bay configuration the key truck dimensions are:

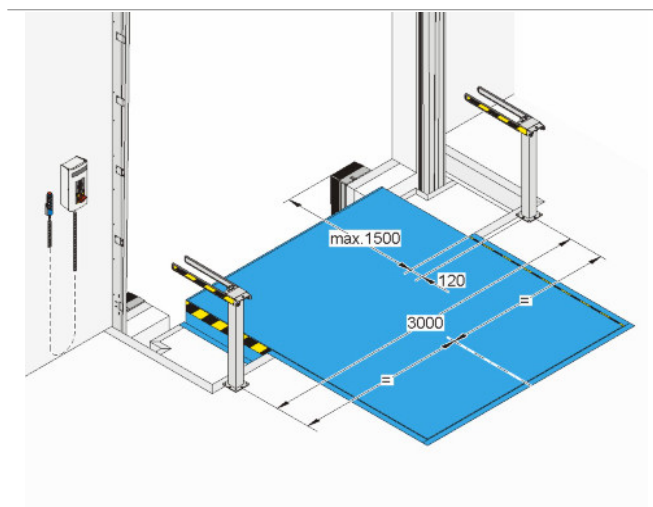
- a. Truck width
- b. Truck height
- c. Truck bed height



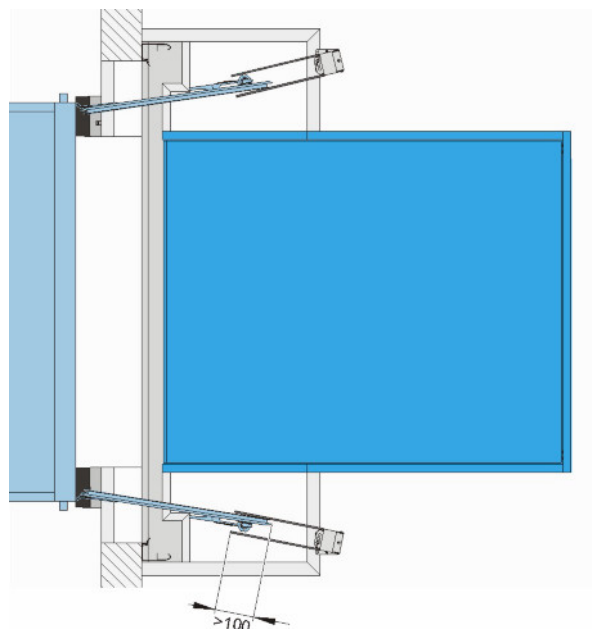
The key dimensions for the right position of the truck door blockers are as indicated in the below illustrations.

To have the right function, observe the two key details:

- 1) The distance from the front of the buffer to the step must be max. 1500 mm.



- 2) The arms of the truck door blocker must overlap the rear truck wing doors by min. 100 mm

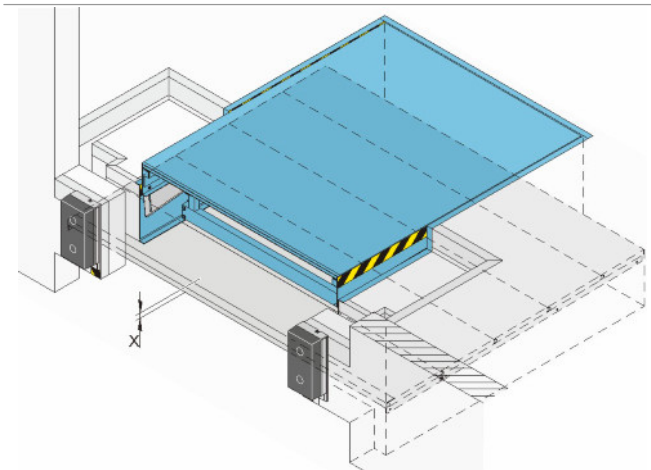


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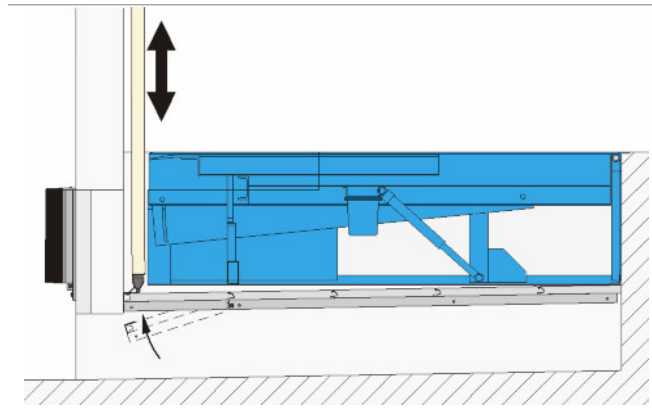
Please be aware that for some thicker insulated rear truck wing doors, there can be an obstruction when positioned in the truck door blocker as the doors don't fully clear the truck opening.

1.9.7 Panels for ISO loading system

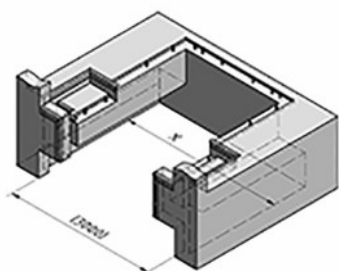
Insulated panels are mounted into the pit underneath the dock leveler as part of the ISO loading system. The thickness of the panels (x) is available in 42 or 82 mm.



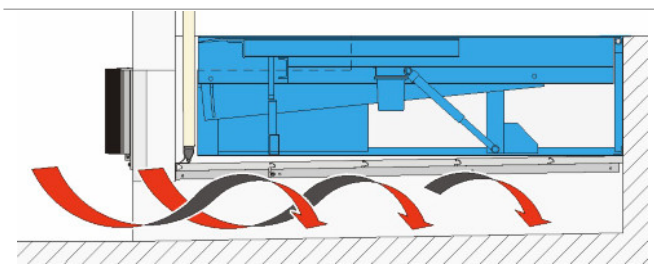
The front part of the panel construction can be folded down to allow access under the dock leveler for service and maintenance work.



The pit width of the ISO loading system is the dimension (x) underneath the dock leveler.



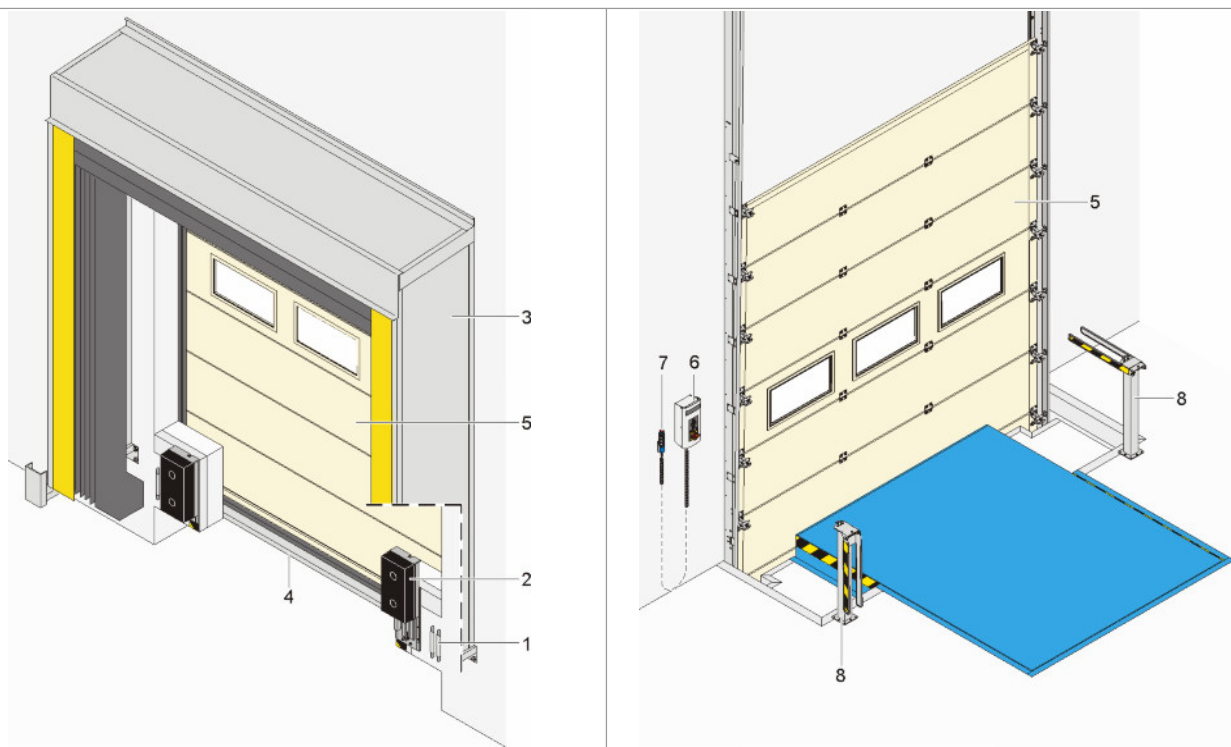
In closed position the ISO loading system secures that the dock leveler is very well sealed off from below, preventing cold or hot air access.



2. Selection guide

2.1 Configuration

The illustrations show the recommended configuration of the ASSA ABLOY DL6120ST stepdock system.



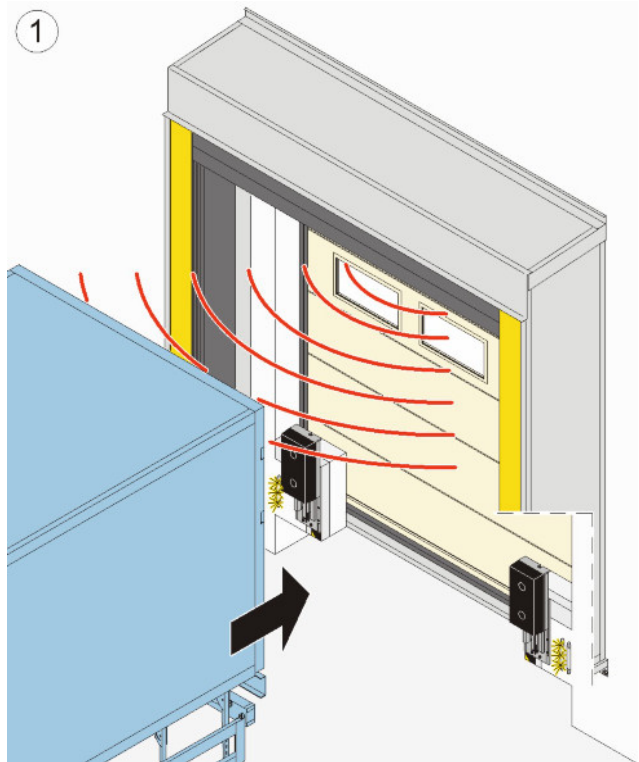
- 1) Dock-IN White & Red
- 2) Height adjustable buffers EHB
- 3) Inflatable dock shelter DS6067B (or DS6070R)
- 4) ISO loading panels
- 5) Sectional door OH1082P
- 6) Control box 950 Docking DLSA TD
- 7) External control unit with spiral cable, dock leveler push buttons
- 8) Truck door blockers

The main advantages of this configuration are:

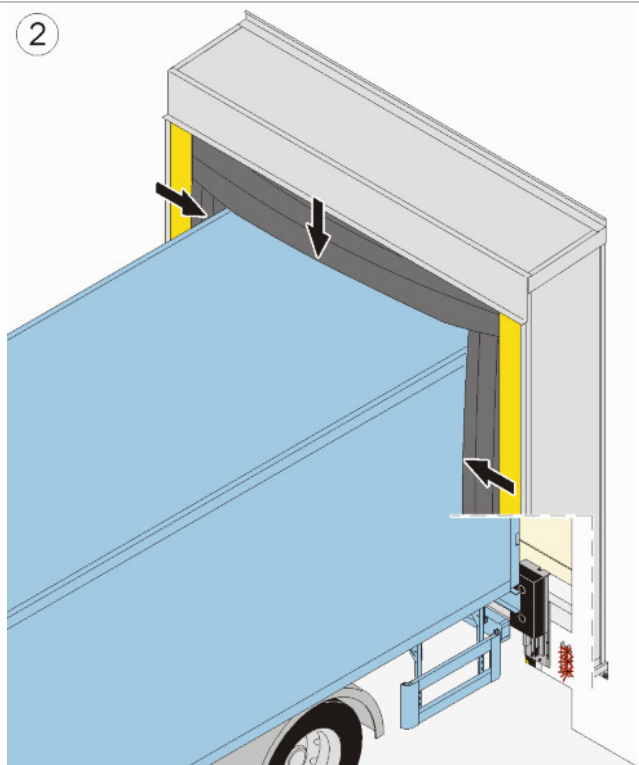
- The Dock-IN White and Red guides the truck driver to slow down when reversing towards the loading bay to avoid hard hits against the buffers. Additional parking guides are recommended for improved safety.
- The height adjustable buffers is the ideal solution for the stepdock system as it has two key functions. In the highest position, it is the normal buffer for the reversing truck. Moved down to the lowest position, it allows the rear truck doors to be opened over the step.
- The inflatable dock shelter seals of the truck in such a way that the top bag or top roller will not interfere with opening the rear truck doors unlike the top curtain of a mechanical dock shelter.
- The ISO loading panels seals off the loading bay from below.
- The sectional door OH1082P is built with 82 mm of insulation and is designed to give excellent thermal separation and great energy savings.
- The control box 950 Docking DLSA TD gives you direct control of the dock leveler, dock shelter and door all in one control unit. With only a few self explaining buttons it is easy to operate, to meet the demands in the modern logistics.
- The external control unit with spiral cable for the operation of the dock leveler secures a safe, comfortable and efficient operation of the dock leveler from the right position when the rear truck doors are opened over the step.
- The truck door blockers prevent the rear truck doors from moving during the loading operation to avoid damages or interruptions.

2.2 Loading operation

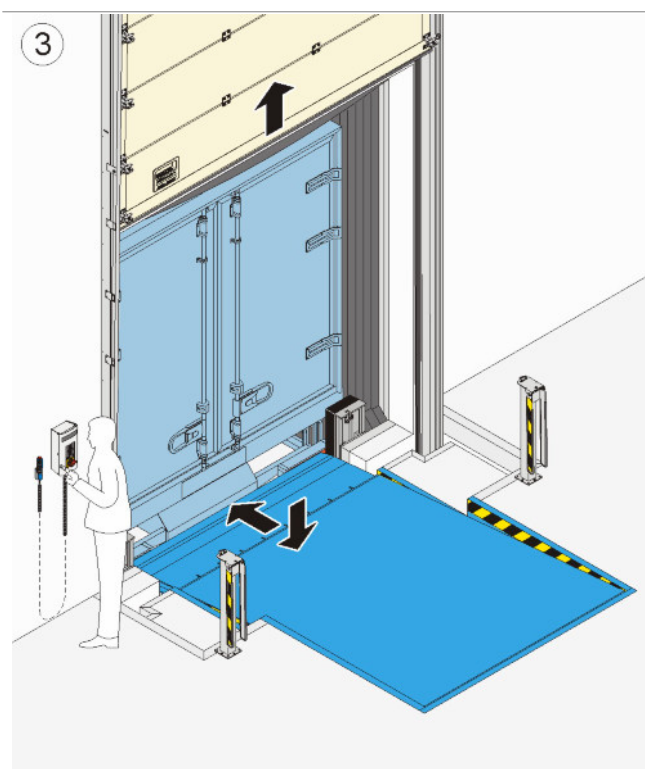
The truck reverses backward to the dock.



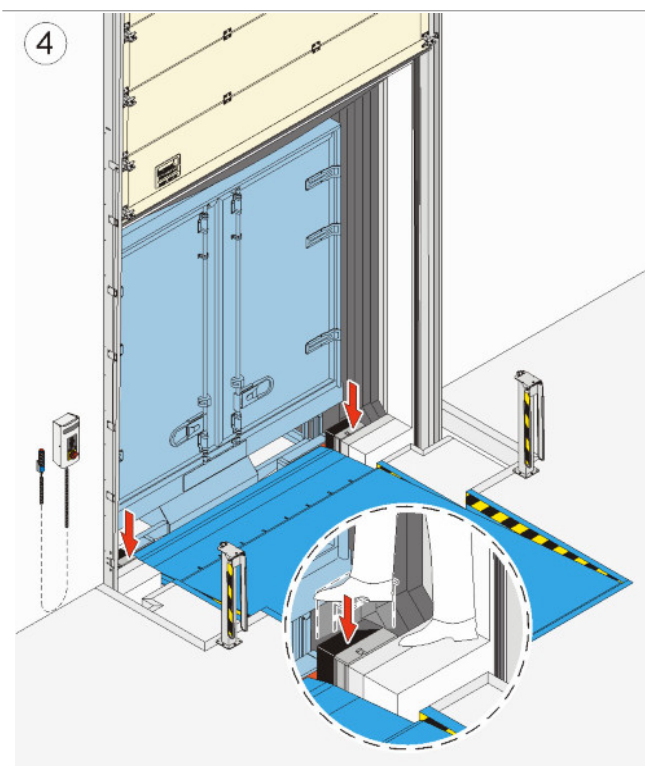
The dock shelter is inflated around the docked vehicle, providing best possible sealing.



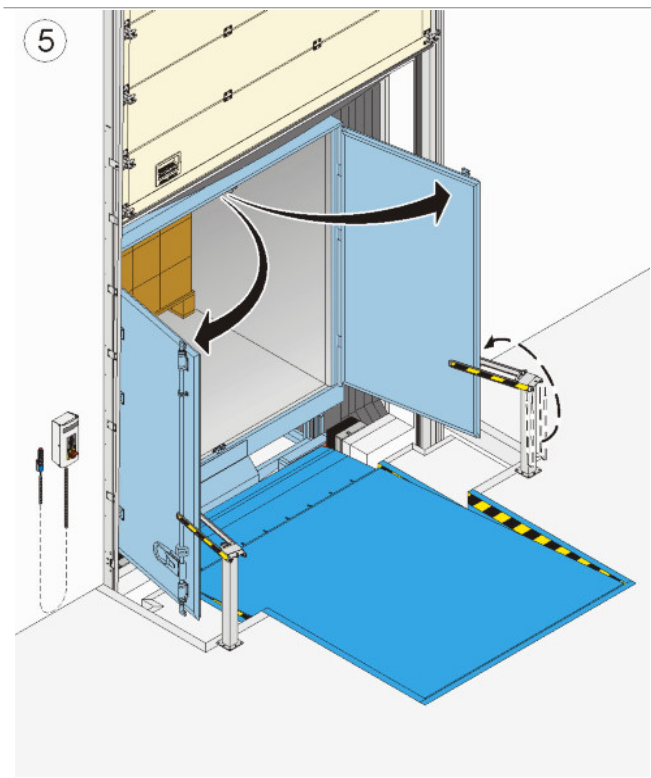
The sectional door is opened and the telescopic lip of the dock leveler is positioned to close the gap between the vehicle and the building



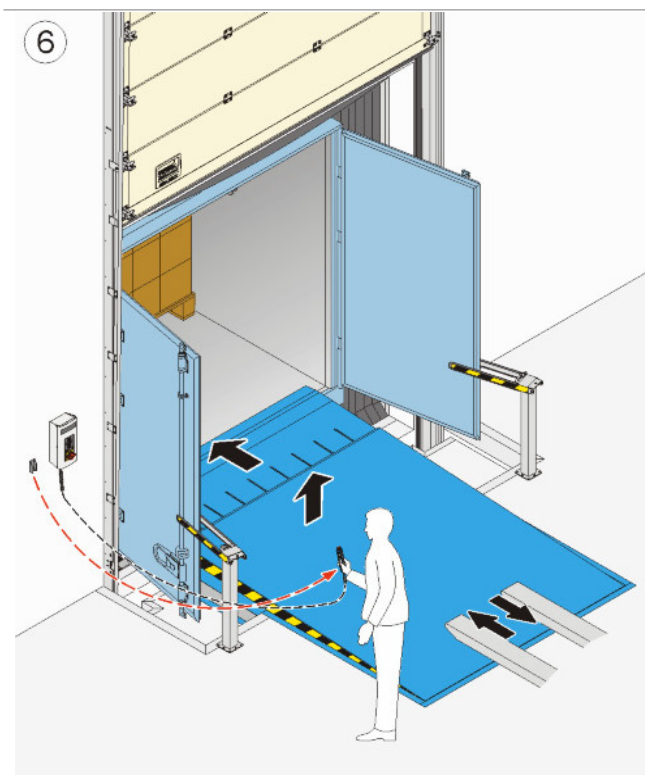
The height adjustable buffers are moved down and locked in the lowest position.



The rear truck doors are opened over the step and secured by the truck door blockers.



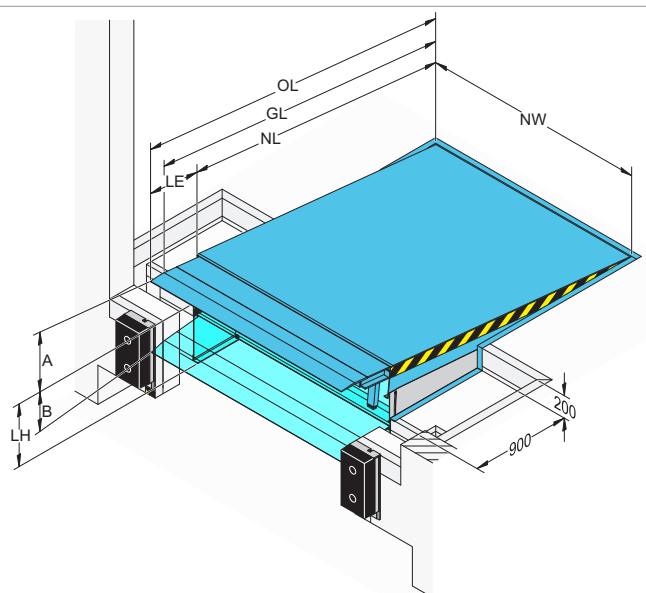
The dock leveler is connected with the vehicle to allow the loading operation to begin.



Note: Please ensure the height adjustable buffers are returned to the top position before the door is closed after loading. Then the loading bay is ready for the next truck (see image 1).

3. Specifications

3.1 Dimensions



NL	Nominal length
OL	Overall length
GL	Gradient length
NW	Nominal width
LE	Leveler extension
LH	Leveler height
A	Working range above dock level
B	Working range below dock level

Dimensions		Vertical working range		
NL	LH	A	B	PD min
2500	700	300	450	710
3000	750	420	410	760

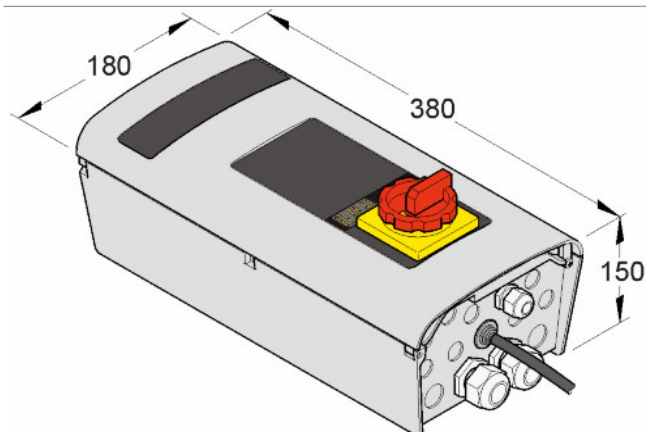
Nominal width (NW) 2000, 2200 mm for all sizes.

3.2 Platform thickness

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

3.3 Control units

3.3.1 Dimensions



950 Series

3.3.2 Functions

Functions included	LA-TD	DLA-TD	LSA-TD	DLSA-TD
Hold to run button	■	■	■	■
Close (hold to run)	■	■	■	■
Impulse auto button	■	■	■	■
Extend lip (hold to run)	■	■	■	■
Mains isolator	■	■	■	■
Emergency stop button	□	□	□	□
400V	■	■	■	■
230V	□	□	□	□
Maintenance indicator	■	■	■	■
3 Digit display	■	■	■	■
Memory function	■	■	■	■
BUS network interface	□	□	□	□
Wheel chock	□	□	□	□
Door control		■		■
Shelter control			■	■

■ Standard
 □ Option / Available

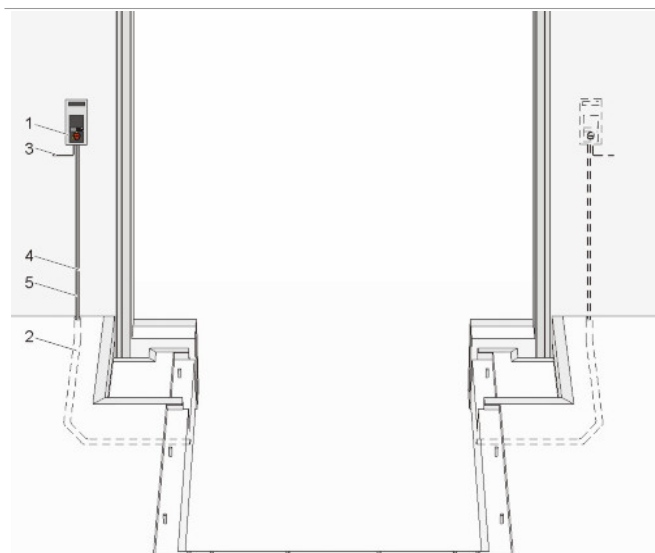
4. CEN Performance

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).

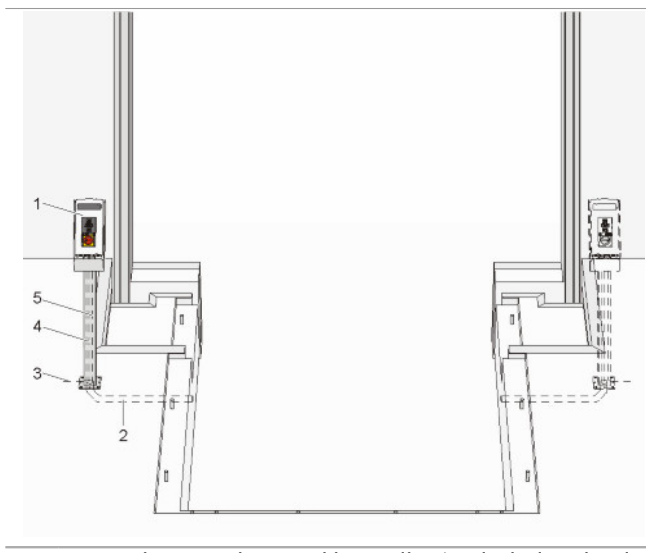
5. Building and space requirements

5.1 Electrical preparations standard



1	Control unit (included in the delivery)
2	Conduit for wiring internal diameter 70, angles <math><45^\circ</math> (by others)
3	Mains supply: 3/N/PE AC 50 Hz Mains fuse: 400V 3-phase, 230V 3-phase Motor power: D0 10 A gL 1,5 kW
4	Cable: 7 x 0,75 mm ²
5	Motor cable: 4 x 1,5 mm ²

5.2 Electrical preparations control box pillar

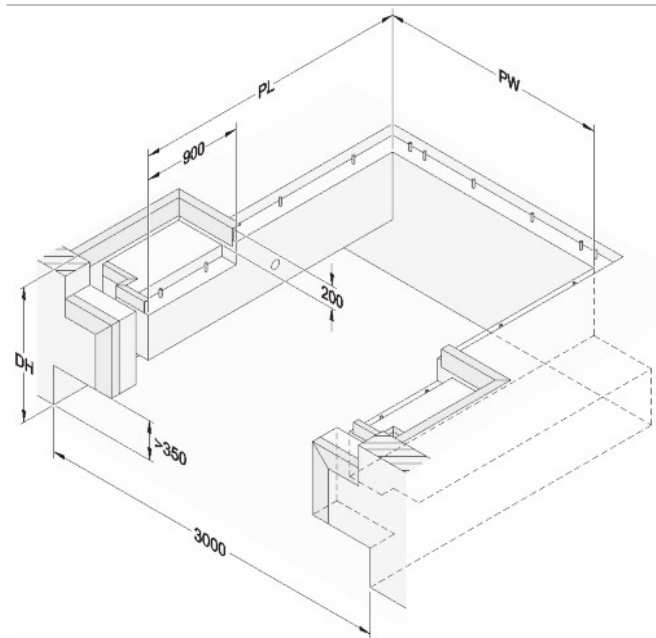


1	Control unit and control box pillar (included in the delivery)
2	Conduit for wiring internal diameter 70, angles <math><45^\circ</math> (by others)
3	Mains supply: 3/N/PE AC 50 Hz Mains fuse: 400V 3-phase, 230V 3-phase Motor power: D0 10 A gL 1,5 kW
4	Cable: 7 x 0,75 mm ²
5	Motor cable: 4 x 1,5 mm ²

5.3 Pit preparations

This section illustrates the required pit preparations for the ASSA ABLOY DL6120ST stepdock.

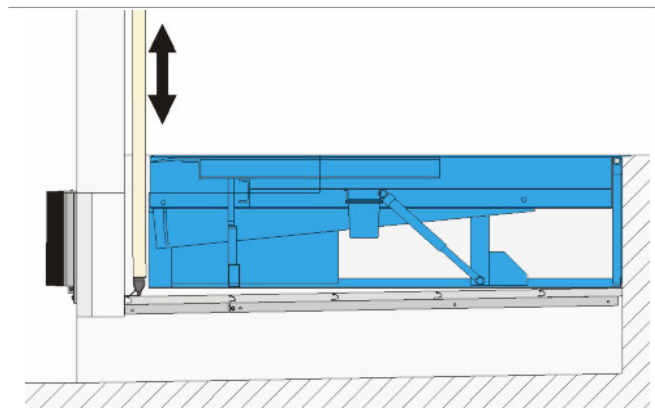
5.3.1 T - frame step 900 x 200 mm



Pit drawing 5145.0195 & 5145.0196

5.4 General overview

This illustration shows the leveler in parking position. In this position, the insulated overhead sectional door is driven directly onto the horizontal part of the insulation which is installed underneath the dock leveler. The result is perfect sealing. The ASSA ABLOY DL6120ST stepdock always has a lip length of 1000 mm. The lip needs to be that long in order to reach the loading vehicle, as the complete dock leveler is installed behind the overhead sectional door of the loading bay.



General drawing 5145.0197

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 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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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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