



ALAPONT
GLOBAL

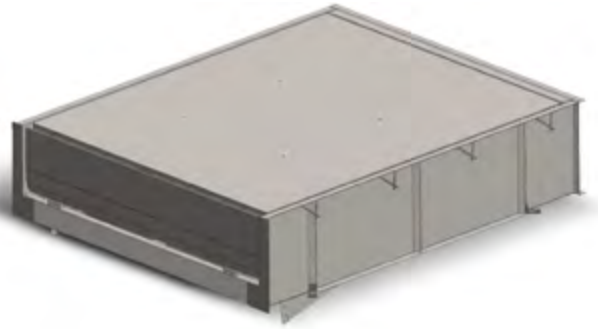
Loading docks

SMART DOCK

The Smart-Dock platform simplifies the creation of new loading and unloading areas in your industrial warehouse.

It consists of a pre-assembled formwork box that comes equipped with the chosen loading dock ramp, pre-installed in its own pit and with wiring ready for operation.

This reduces the potential for human error during the floor construction phase, minimizes assembly time, and lowers costs by eliminating the need to construct a pit. Smart-Dock platforms are ready for immediate use after installation.

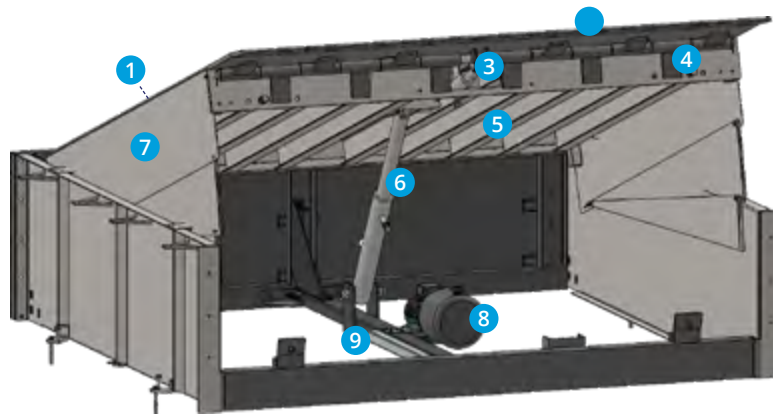


- **Resistant to temperatures** between -20°C a 50°C

CAPACITY	Capacity 1 (standard model)	Capacity 2	Capacity 3
Dynamic charge capacity*	6.000 kg	15.000 kg	20.000 kg
Static charge capacity*	9.000 kg	18.000 kg	25.000 kg

* All standard models can be manufactured with all load capacities. Please inquire about other configuration options.

COMPONENTS



1. PLATFORM

Constructed from 5/7 checkered steel plate. The platform itself uses 100 IPN beams.

2. ROBUST FOLDING LIP

Made from 13/15 checkered steel plate and a 24mm axle.

3. FOLDING LIP CYLINDER

The cylinder that controls the movement of the hinged lip.

4. REINFORCED HINGES

Hinges with reinforcement plates for added durability.

5. BEAM

Refers to the supporting beams of the platform. Specifically mentioned are the 100 IPN beams.

6. RAMP CYLINDER

The main hydraulic cylinder that raises and lowers the ramp.

7. SIDE GUARDS

Side guards for safety, with high visibility according to regulations.

8. HYDRAULIC UNIT

9. SAFETY MAST

A mast for safety during maintenance tasks.

CONTROL PANEL



The electrical control panel is equipped with an emergency stop button, complying with regulations. This button stops the ramp in its current position during an emergency.

The ramp maintains a constant level with the truck, facilitating loading and preventing sudden shocks during transit.

Easy maneuverability.

DIMENSIONS (mm)	300 x 250 x 100
CONTROL VOLTAGE	24v
CONTROL BOX	✓
START-UP LIGHT	✓
ACTUATION CONTROL	✓
SAFETY STOP	✓
THERMAL FUSE	1.6 / 2.5 A
CONTACTOR	4 Kw
TRANSFORMER	3ph/24v
OPERATING TEMPERATURE	-20 °C a +55 °C
PROTECTION RATING	IP 55

* Customizable configuration according to the required operating sequence (ramp + door + shelter + traffic light + retainer).

HINGED LIP



The lip features a front chamfer and a 5° bend for a smooth transition with the vehicle.

The standard model has a 400mm folding lip projection to bridge the gap and height difference between loading docks and vehicle beds, ensuring a firm seating on the vehicle floor.

OPTIONS*

400mm (Standard model)

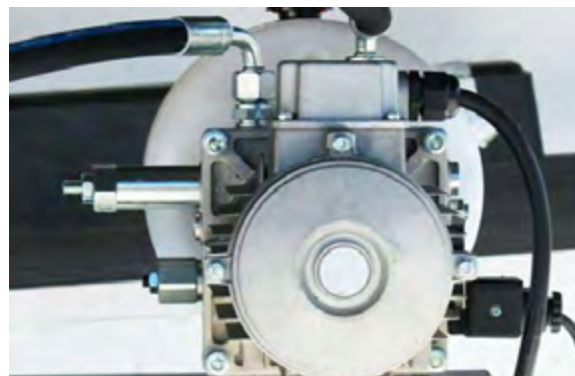
500mm

* Available Lip Types:

Chamfered: The lip tapers towards the tip (e.g., from 2000mm to 1800mm) for greater versatility with different vehicles.

Segmented Lip/Claws: The lip is segmented into several parts to adapt to the width of various vehicles.

HYDRAULIC UNIT



Hydraulic unit with self-leveling system.

- Lifting cylinder with a parachute valve to prevent a sudden drop of the ramp in case of a hose rupture or hydraulic solenoid failure.
- Standard placement is underneath the platform for better protection and accessibility for qualified personnel.
- The hydraulic system is completely sealed to prevent the entry of dirt, dust, or sand.

HYDRAULIC UNIT POWER	1,1 kw (1,5CV)
OPERATING PRESSURE	170 bar
FLOW RATE	2,2 cm³/s

* Options available for all ramps regardless of size.

POWER SUPPLY

POWER SUPPLY	CONSUMPTION
230V / 1ph	-
230V / 3ph	6.5A
400V / 3ph	4.6A
460V / 3ph	4.6A

* The amperage for the 230V single-phase power supply is missing from the provided data.

REGULATIONS AND CERTIFICATIONS

CE MARKING

UNE-EN1398:2010
UNE-EN-IEC61000-6-2:2019
UNE-EN-IEC61000-6-4:2019
UNE-EN 60204-1:2019

LOW VOLTAGE DIRECTIVE 2014/35/UE

COMPATIBILITY DIRECTIVE 2014/30/UE

OPERATION

Steps to use the Smart dock:



1 Press the "Start" button on the control panel to raise the ramp. Once it reaches its maximum height, the lip will extend automatically.

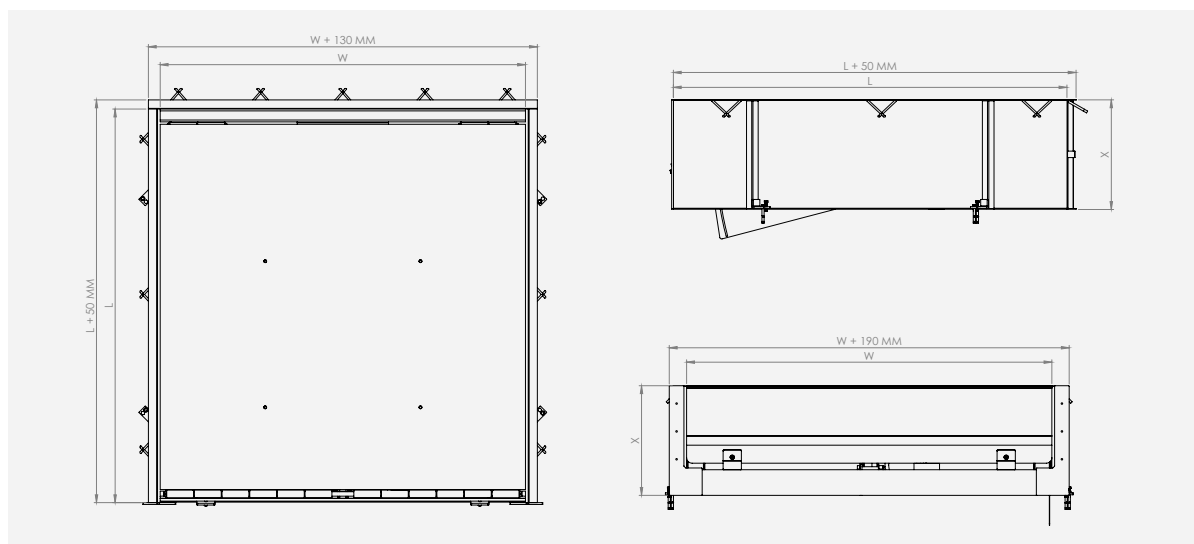


2 Once the lip is extended, release the "Start" button to begin lowering the platform. The platform will descend smoothly until the lip rests on the truck trailer.



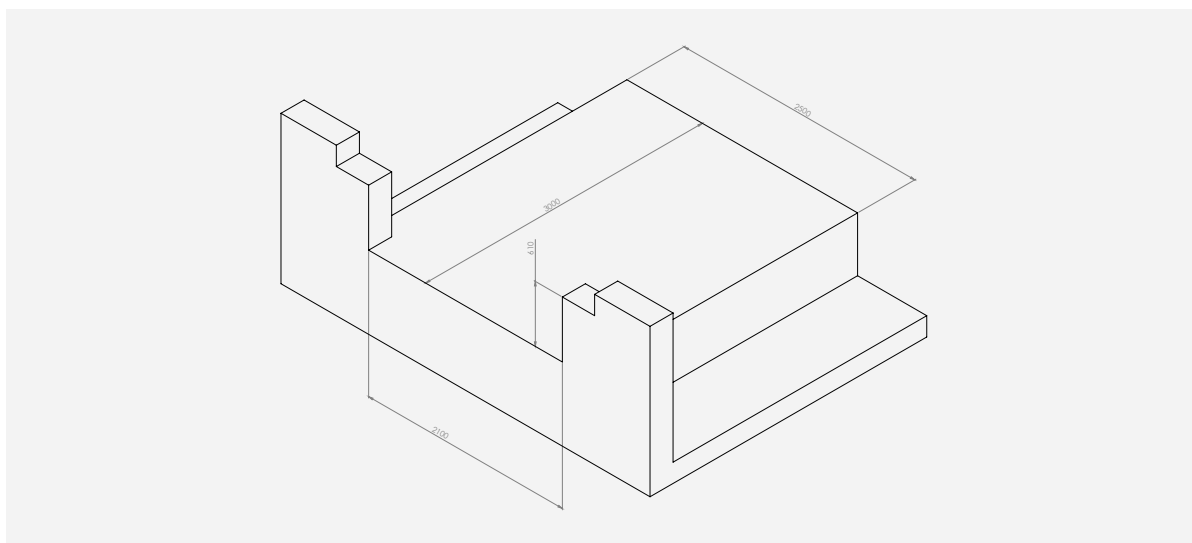
3 After loading/unloading is complete, press the "Start" button again to raise the leveling platform. This time, the lip will automatically fold. Release the button, and the ramp will return to its initial position.

DIMENSIONS



REF.	W	L	X
0101A0304000	2000 mm	2000 mm	600 mm
0101A0307000	2000 mm	2300 mm	600 mm
0101A0305000	2000 mm	2500 mm	600 mm
0101A0308000	2000 mm	2800 mm	600 mm
0101A0309000	2000 mm	3000 mm	600 mm

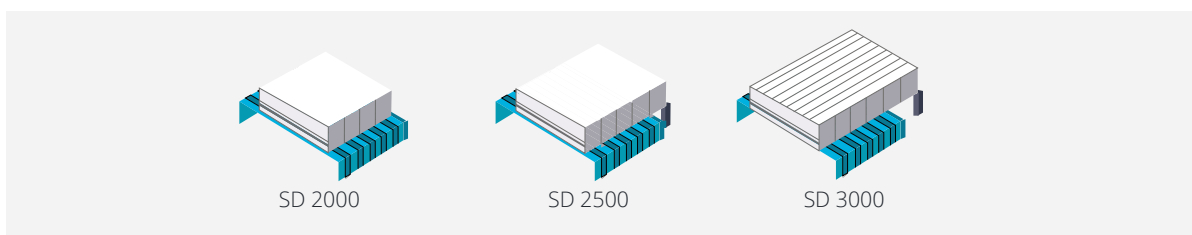
PIT DIMENSIONS



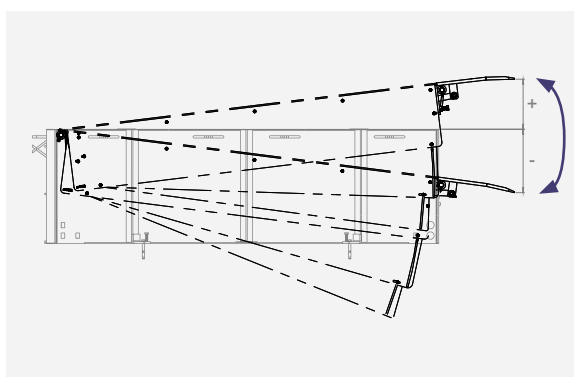
REF.	Smart-Dock	W (Width)	L (Length)	H1 (External height)	H1 (Interior height)
0101A0304000	2.000 x 2.000 x 600 mm	2100 mm	2300 mm	600 mm	600 mm
0101A0307000	2.000 x 2.300 x 600 mm	2100 mm	2600 mm	600 mm	600 mm
0101A0305000	2.000 x 2.500 x 600 mm	2100 mm	2800 mm	600 mm	600 mm
0101A0308000	2.000 x 2.800 x 600 mm	2100 mm	3100 mm	600 mm	600 mm
0101A0309000	2.000 x 3.000 x 600 mm	2100 mm	3300 mm	600 mm	600 mm

FORMWORK BOX

Formwork box for hatch.

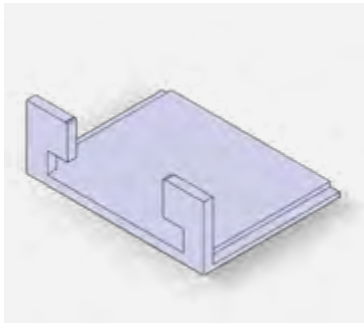


RANGE

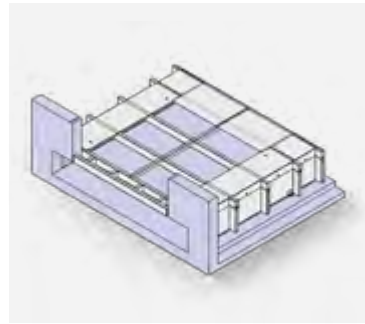


REF.	DIMENSIONS	+	-
0101A0304000	2000 mm	250	340
0101A0307000	2300 mm	280	340
0101A0305000	2500 mm	300	340
0101A0308000	2800 mm	340	340
0101A0309000	3000 mm	370	340

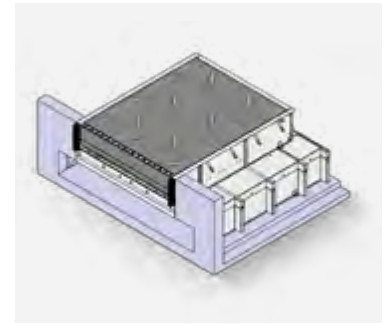
CONSTRUCTION PLAN - FORMWORK BOX



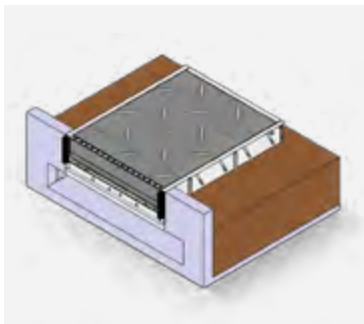
1 Erection of retaining wall according to specifications.



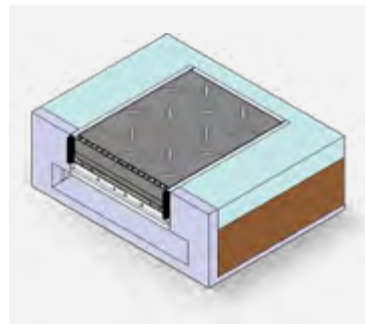
2 Installation of self-supporting structure with extension.



3 Installation of SmartDock at facade level.

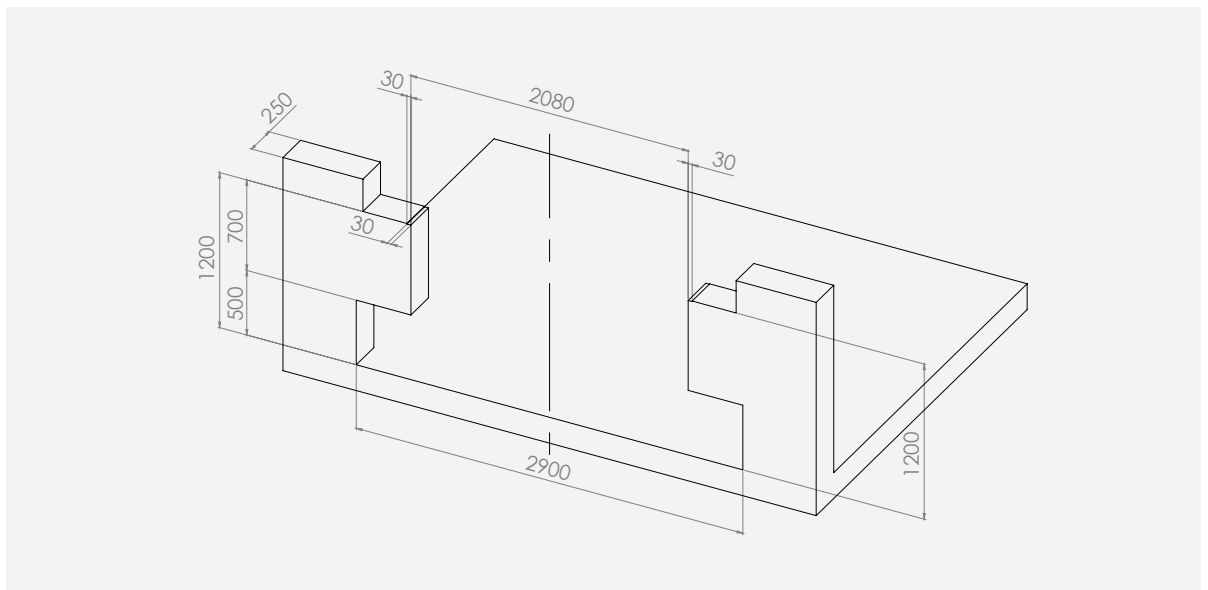


4 Backfilling with gravel.



5 Finishing with warehouse floor slab.

PIT DIMENSIONS FORMWORK BOX



FINISHES

STANDARD OPTION

- Zinc primer and lacquer coating:



Black RAL 9005 micro-textured



ADDITIONAL FINISH OPTIONS

- Stainless steel
- Hot-dip galvanized
- Customized RAL*:



Grey RAL 7011



Blue RAL 5010

* Other RAL colours on request

✓ **Enhanced Corrosion Protection:** A complete treatment and powder coating with oven-baked polymer paint at 200°C provides superior corrosion and weather resistance, exceeding the requirements of major European architectural finish standards for outdoor applications.

✓ **Lead-Free:** The lead-free micro-textured finish is a safe and environmentally friendly alternative, making our ramps eco-conscious.

✓ **Increased Durability:** Zinc priming provides excellent outdoor durability and color retention. It has passed numerous mechanical, chemical resistance, and robustness tests including flexibility, adhesion, indentation, impact, Buchholz hardness, and acetic salt spray, humidity chamber, sulfur dioxide, permeability, and mortar resistance tests.

✓ **Improved Operator Safety:** The micro-textured finish creates a non-slip surface, significantly enhancing loading ramp safety. It improves traction and helps prevent slips and falls, reducing the risk of injury and accidents.

ACCESSORIES

All our dock levelers can have this option.



OPTIONAL SELF-SUPPORTING STRUCTURE



DOCK WHEEL GUIDES



VEHICLE RESTRAINT



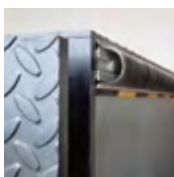
DOCK SHELTERS



TRAFFIC LIGHTS



DOCK BUMPERS



BOARD OF TIGHTNESS



FORMWORK BOX