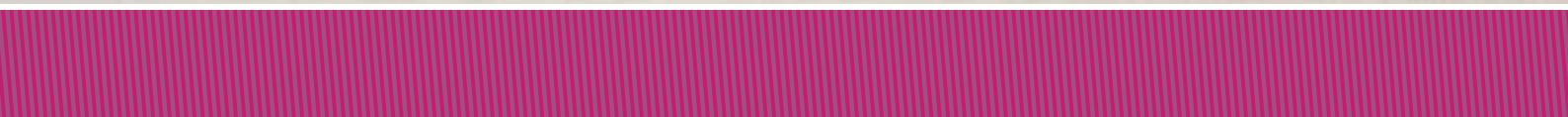




Loading Equipment

Efficiency. Reliability. Safety.





Contents

5 ARGUMENTS FOR THE USE OF ALUTECH LOADING EQUIPMENT	4
INTEGRATED SOLUTION FOR YOUR WAREHOUSE	5
HYDRAULIC DOCK LEVELLERS	6
CURTAIN DOCK SHELTERS	15
DOCK HOUSES	19
ADDITIONAL EQUIPMENT	22

5 ARGUMENTS

for the use of ALUTECH loading equipment



Tested quality

100% pre-shipment testing of each product ensures reliable on-site operation.



10-year warranty

ALUTECH's dock levellers and loading platforms are provided with an **extended warranty** against rust-through corrosion.



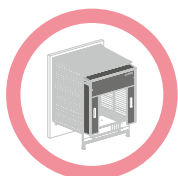
Standards compliance

ALUTECH's loading equipment meets the requirements of **European standards**, which is confirmed by relevant certificates.



Prompt maintenance service

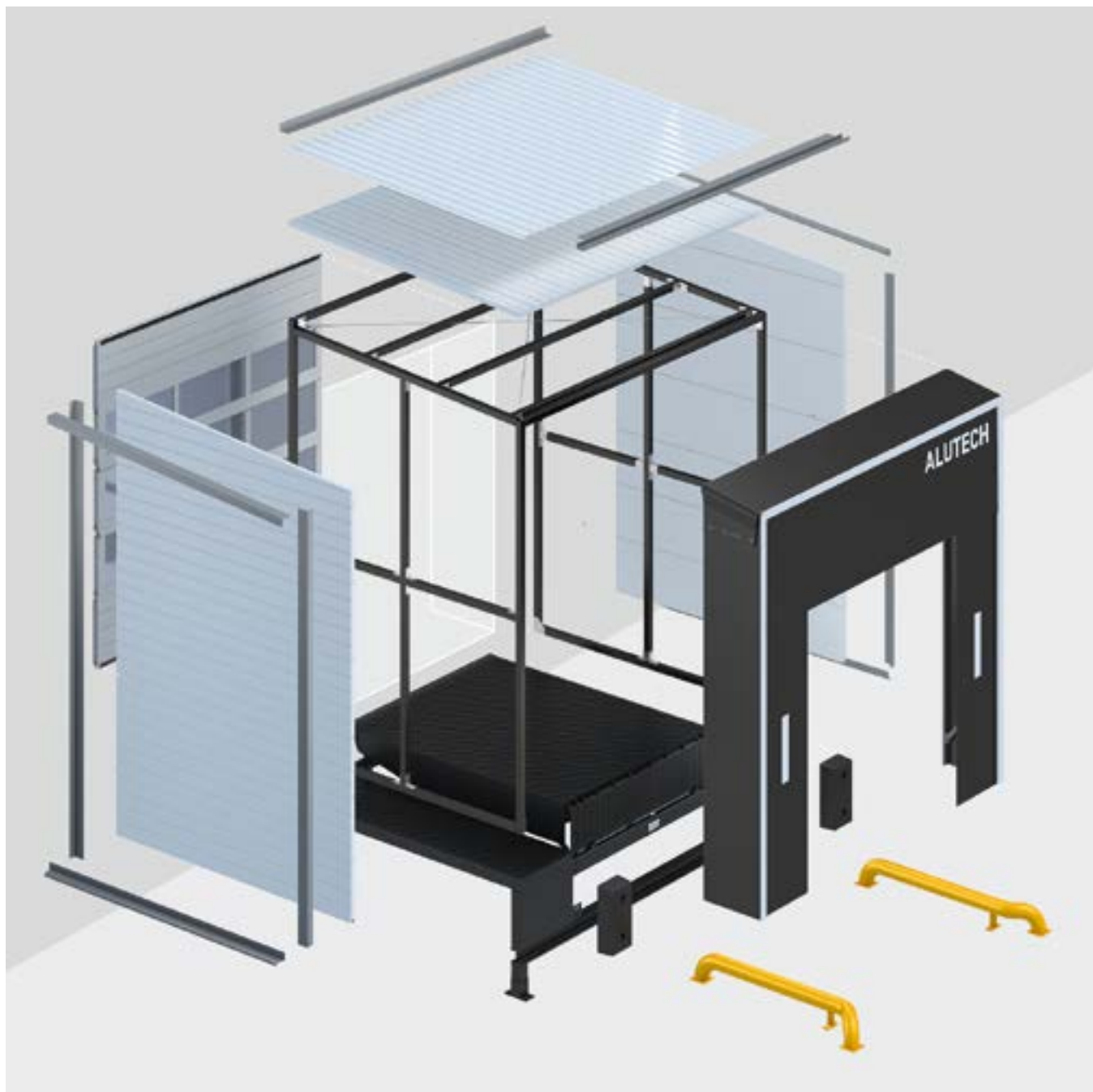
Own production of loading equipment ensures **prompt delivery** of repair components and timely **maintenance of equipment** both in warranty and post-warranty period.



Comprehensive offer

The wide range of ALUTECH's loading equipment and a customer-tailored approach allow us to choose the **best solutions** for your loading terminal.

Integrated solution for your warehouse



The ALUTECH Group of companies offers a wide range of equipment made in its own production facility, which enables them to organise a fully-fledged loading bay:

- Dock levellers
- Dock shelters
- Dock houses
- Industrial sectional doors
- Automation systems
- Additional equipment

ALUTECH hydraulic dock levellers



ALUTECH hydraulic dock levellers are indispensable in warehouse logistics: they **accelerate the process of loading and unloading by several times**, ensuring high performance and efficiency.

A wide range of sizes and the availability of various models allow you to select the appropriate combination of filling of the loading bay with due regard to the features of the object.

Smoothing the distance and height difference between the floor of the cargo transport vehicle and the level of the warehouse ramp, the **levellers help to ensure unhindered arrival** of loading equipment and **personnel access** during the loading and unloading process.

Sturdy construction of ALUTECH dock levellers allows you to withstand a load capacity **up to 60 kN (6 tons)**.

Dock levellers are designed for installation both inside the warehouse premises and as part of a loading platform in front of the building.

Two lifting cylinders of the leveller guarantee reliable and safe operation.



ALUTECH SL dock leveller with swing lip

ALUTECH SL dock levellers with swing lip represent the classic and most typical solution for the organization of a loading bay and automation of loading and unloading.

When the button **1** is pressed and held, the electrohydraulic system raises the leveller to its highest position and automatically flips the lip.

After that, the leveller smoothly descends on the body of the vehicle, forming a special bridge for the access of machinery.



Standard colours of dock levellers

RAL
5010

RAL
7016

RAL
9005

Technical information

Specifications	ALUTECH SL
Load capacity	60 kN (6 tons)
Swing lip length	400 mm
Number of main cylinders	2
Leveller plate thickness	6 / 8 mm
Lip plate thickness	12 / 14 mm
Control unit power supply	400V
Hydraulic oil operating temperature range	from -15 °C to +50 °C

Nominal sizes

Length, mm	Height, mm	Working range, mm	
		Up (A)	Down (B)
2000	600	265	295
2500	600	325	295
3000	700	390	290
3500	800	450	390
4000	900	510	390
4500	900	570	380
Nominal leveller width 1750, 2000, 2250 mm			

ALUTECH SL dock levellers are designed with respect to the maximum allowable level of slope - 12.5% (7°) in accordance with the standard EN 1398.

Control system



The standard delivery kit includes a 400V CUL01 control unit.

Hydraulic oil

The operating temperature range of hydraulic oil is **from -15 °C to +50 °C**, while the equipment can be optionally provided with oil of **up to -40 °C**.

Security Systems

- Emergency blocking of hydraulic cylinders during unauthorised departure of the vehicle
- Locking of the hydraulic system when the power is turned off
- Precautionary marking with black-and-yellow stripes
- Leg for servicing
- Safety stickers on the leveller

ALUTECH TL hydraulic dock leveller with telescopic lip

ALUTECH TL hydraulic dock leveller with a telescopic lip is used for servicing vehicles with the maximum body loading.

The telescopic mechanism of the leveller allows you to adjust the extension of the lip based on the degree of loading of the vehicle and ensures its exact location on the truck body.

The enlarged telescopic leg of up to 1000 mm in length compensates for the necessary distance to the vehicle bed when the leveller is installed in front of the door. Thereby ensuring the maximum thermal insulation of the warehouse. The one-metre long lip is also used for the maintenance of railway trains or vehicles with side loading bodies.

Technical information

Specifications	ALUTECH TL
Load capacity	60 kN (6 tons)
Telescopic leg length	500 / 1000 mm (standard / option)
Number of main cylinders	2
Leveller plate thickness	8 / 10 mm
Lip plate thickness	12 / 14 mm
Control unit power supply	400V
Hydraulic oil operating temperature range	from -15 °C to +50 °C

Nominal sizes

Length, mm	Height, mm	Lip 500 mm		Lip 1000 mm	
		Up (A)	Down (B)	Up (A)	Down (B)
2000	600	270	280	340	330
2500	600	330	270	400	295
3000	700	380	330	460	370
3500	800	455	375	530	420
4000	900	515	435	580	470
4500	900	575	370	650	390
Nominal leveller width 1750, 2000, 2250 mm					

ALUTECH TL dock levellers are designed with respect to the maximum allowable level of slope - 12.5% (7°) in accordance with the standard EN 1398.



Standard colours of dock levellers

RAL 5010	RAL 7016	RAL 9005
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Control system



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Hydraulic oil

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Security Systems

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- Locking of the hydraulic system when the power is turned off
- Precautionary marking with black-and-yellow stripes
- Leg for servicing
- Safety stickers on the leveller

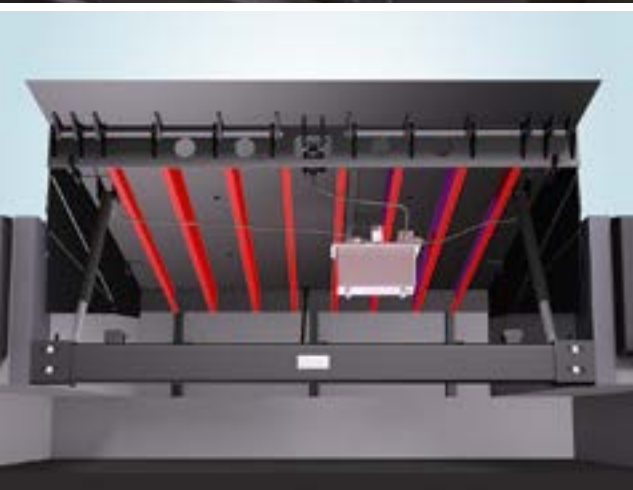
Advantages of ALUTECH levellers



Rigid and reliable construction

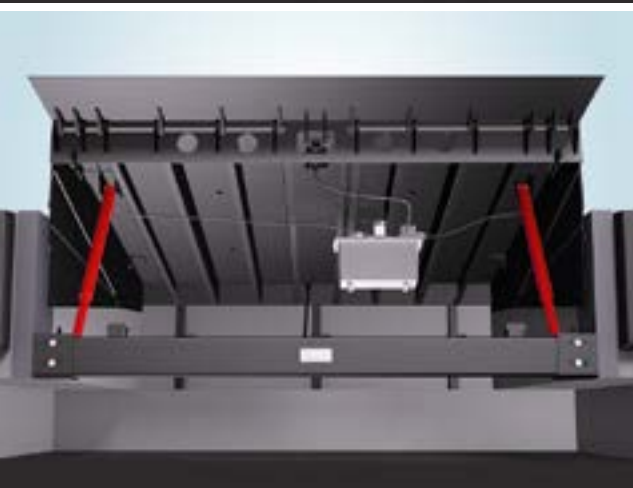
The surface of the dock levellers is made of **high-strength steel sheet** with lenticular corrugation, the load capacity of which enables to withstand **up to 60 kN (6 tons)**. The steel thickness makes up **6/8 mm** and **8/10 mm** for **SL** and **TL** levellers respectively.

Steel grade: S235 according to EN 10025.



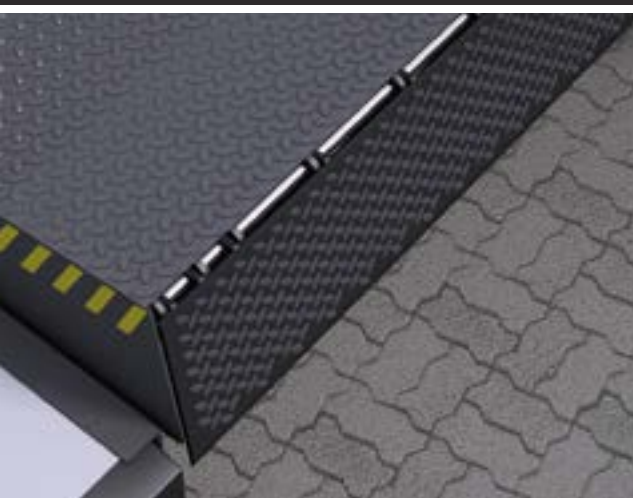
Protection against the formation of wheel ruts

The longitudinal reinforcement of the top sheet of the leveller with **steel reinforcing plates** provides protection from deformation, in particular the formation of wheel ruts.



Safety of operation

The two main lift cylinders of a standard leveller ensure protection against bias (tipping of the leveller to one side) in case of an unexpected vehicle departure during loading and unloading.



Solid swing lip

12 pairs of counter-flap hinges connect the swing lip and the top sheet of the SL leveller, ensuring the strength of the structure.

- Lip thickness – 12/14mm (with/without corrugation).
- Hinge thickness – 12 mm.
- 2 separate galvanised rods.



Additional security features

The special **reinforcing rod** in the SL leveller design distributes the load between the support beam and the rear of the leveller in case of the premature departure of the vehicle, thereby **ensuring reliability and safety of equipment**.



Durable coating

The **two-component paint coating** and preliminary **shot-blasting** of the metal parts of the leveller ensure corrosion resistance of the product.

The ALUTECH leveller is provided with an extended **10-year warranty against rust-through (perforation) corrosion**.



Tested quality

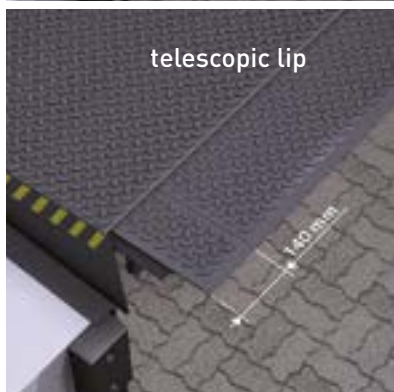
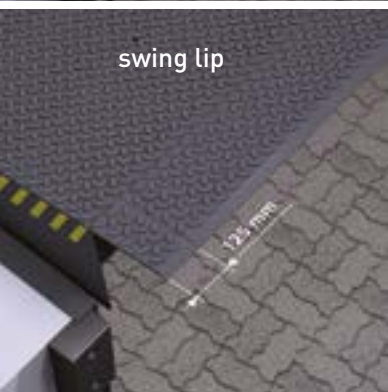
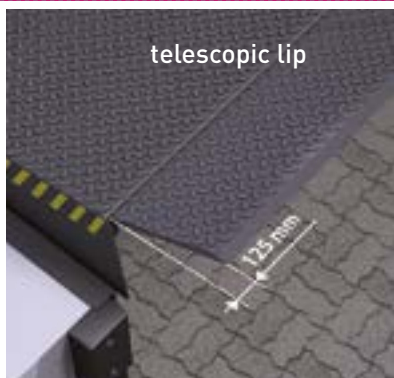
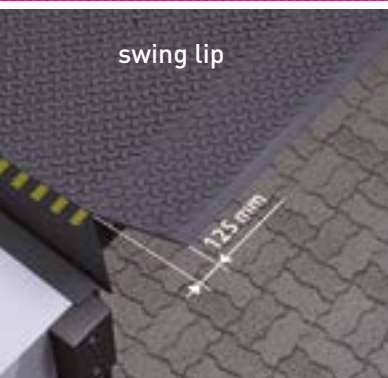
100% pre-shipment testing of each product **on a special stand** ensures reliable on-site operation. At the output stage we test the functioning of all systems of the leveller through **10 operating cycles**.



On-the-spot repair

The **bolt mounting of the leveller support beam** simplifies on-site replacement of this element in case of damage.

Special options for ALUTECH levellers



Bevelled lips (2x125mm) are for vehicles with a narrower cargo bed.

Side segments of swing lips (2x125 mm) and telescopic lips (2x140 mm) enable them to service vehicles having a different body width.

The telescopic lip of the TL leveller **of up to 1000 mm** ensures the maximum thermal insulation of the loading bay when the leveller is located in front of the door.



For regions with low temperatures in winter, it is recommended to use **hydraulic oil with an operating temperature of up to -40 ° C**. This will ensure trouble-free operation of equipment in harsh climatic conditions.



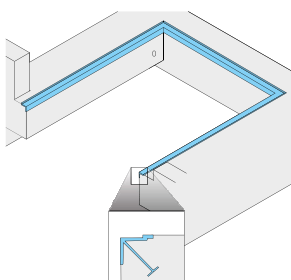
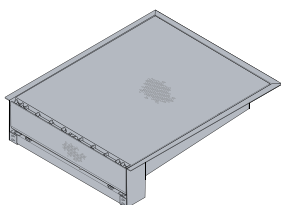
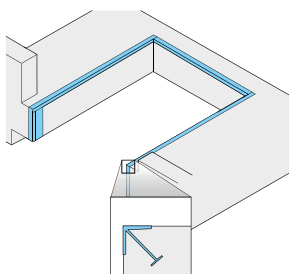
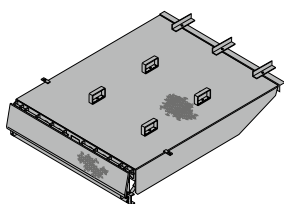
At the request of the customer, ALUTECH levellers can be painted **in any colour according to the RAL catalogue**, which will enable them to comply with their corporate style.

ALUTECH leveller models

The assortment of ALUTECH dock levellers is represented by the **4 models** as follows: basic (S), welding (W), concreting (C) and box (B) models.

The optimal model of equipment depends on the stage of construction work and features of the facility.

Model	Construction stage	Required operations			Tail lift bay
		Pit preparation	Concreting	Welding	
S	Upon completion	+	–	+	+
W	Upon completion	+	–	+	+
C	Prior to final floor pouring	+	+	+	+
B	Start	–	+	+	+



Model S

The S-model leveller is the most popular, which is due to the simplicity and convenience of its installation after the completion of construction work.

The basic S-model leveller can be used when replacing the old equipment with a new one due to the design without self-bearing frame.

Advantages of the model:

- installation after the completion of construction work;
- tail lift bay;
- highly competitive price.

Model W

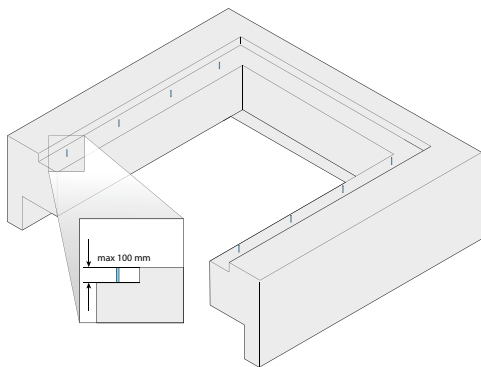
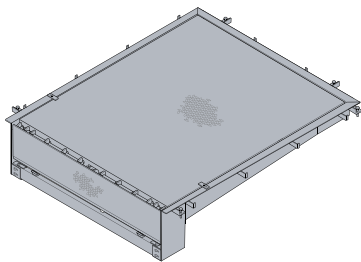
In contrast to the model S, the **W-model leveller** has a frame structure, which ensures additional rigidity. The leveller frame is welded to the corner of the pit along the outline and is on a level with the final floor.

Advantages of the model:

- simplicity and convenience of installation;
- installation after the completion of construction work;
- tail lift bay.

ALUTECH

leveller models



Model C

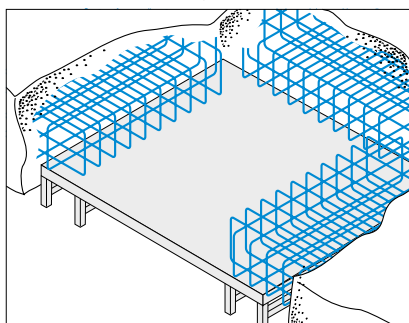
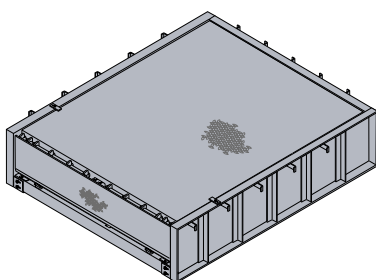
The **C-model leveller** is installed prior to the pouring of the final floor level in the warehouse.

The frame of the leveller has special anchors, which enable adjustment of the leveller.

The adjustment height is up to 100 mm. The self-supporting frame is easily fixed in the pit, ensuring fast and convenient installation.

Advantages of the model:

- option to adjust the leveller;
- option of installation prior to the pouring of the final floor level;
- tail lift bay.



Model B

The **B-model leveller frame** forms a closed box, which makes it possible to install the leveller at the initial stage of construction.

The box model reduces the costs and time for installing the leveller, as it does not require preliminary preparation of the pit.

The closed frame prevents concrete from falling under the leveller, where the main mechanisms are located.

Advantages of the model:

- no preliminary preparation of the pit;
- used at the initial stage of construction;
- tail lift bay.

ALUTECH dock shelters



ALUTECH curtain dock shelters with a folding frame enable maintaining the **optimum temperature** both in the warehouse and vehicle body, preventing a sharp temperature drop and creating comfortable conditions for the personnel to work in during loading and unloading.

The dock shelter makes it possible to **minimise heat leakage**, thereby reducing heating costs.

ALUTECH dock shelters are installed at the facade of the building or at the frame of the dock house.

A **wide size range (from 2000 mm to 4500 mm in width and height)** enables them to service vehicles of various dimensions.



ALUTECH DSF curtain dock shelter

ALUTECH DSF curtain dock shelters are produced from high-strength and durable materials.

Reinforced front PVC curtains are 3 mm thick and have a high level of wear-resistance and tensile strength. They tightly cover the vehicle body when parking, providing the necessary tightness and protecting the cargo from changes in temperature and precipitation.

The anodized aluminum profile of the dock shelter frame is not exposed to corrosion, which enables maintaining attractive appearance of the structure for a long period of operation.

Technical information

Specifications	ALUTECH DSF
Thickness of front side curtain	3 mm
Thickness of front top curtain	3 mm
Density of front curtains	3500 g/m ²
Thickness of covering elements	0,5 mm
Density of covering elements	630 g/m ²
Tensile strength of front curtains	180 N/mm
PVC operating temperature range	from -40°C to +90°C

Standard sizes

Width (NB)	3400 mm
Height (NH)	3400 mm
Depth (NT)	600 mm
Width of side curtains (SP)	600 mm
Height of top curtain (OP)	1000 mm
Parking lines	white

The standard size of shelters is ideal for servicing trucks with semitrailer.



Installation of shelters

Front PVC curtains are supplied preassembled with aluminium profiles providing fast and convenient installation of shelters and accuracy.

Special design

- Special non-standard sizes **from 2000 to 4500 mm** enable servicing vehicles of various dimensions.
- Enlarged **side curtains (up to 700 mm)** are used in the case of small-sized vehicles.
- **Top curtains with edge notches** ensures better abutment of curtains to the vehicle body.
- **Marking of top curtains with figures** helps to designate loading bays.

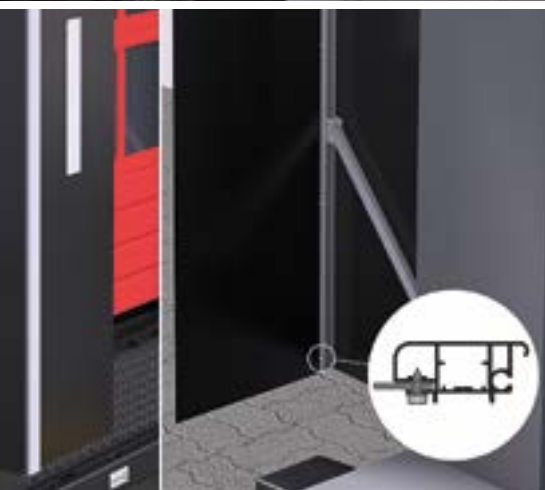
Advantages of ALUTECH dock shelters



Protection against breakage

The **folding** lever-type **frame** protects the dock shelter from breakage in case of a driver's error when parking.

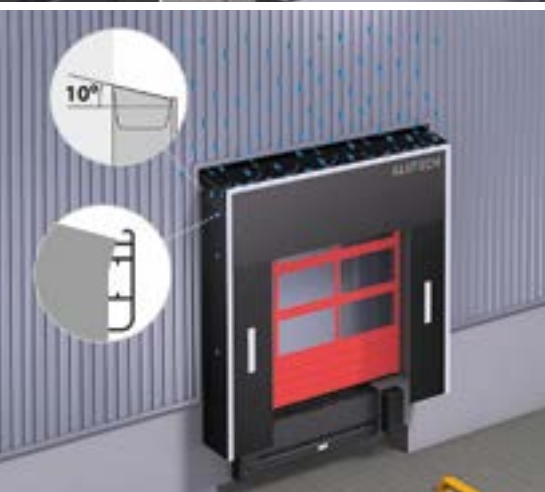
Movable levers between the front and rear profile of the frame allow folding the structure and returning it to its original position.



Protection against damage

The **hidden fastening of PVC curtains** protects the vehicle body from damage when parking is improper.

The absence of screws on the front side of front profiles eliminates the possibility of corrosion and gives the product an attractive appearance.



Safety of cargo

The flexible **roof at an angle of 10°** and the special design of front profiles ensure an even flow of water along the edges of the dock shelter during rain. This solution guarantees safety of the cargo and protection against any leaks.



Ease of installation and saving on repairs

The PVC- covering between the front and rear parts of the frame consists of three separate elements, which simplifies the installation of dock shelters and reduces repair costs when one of the elements is damaged.

ALUTECH loading dock houses



ALUTECH loading dock houses are widely used when an old installation **is re-equipped** or if there is a need for **parking** the vehicle **at an angle**.

ALUTECH loading dock houses are installed in front of the warehouse or workshop, forming a stand-alone loading bay.

The **convenient location** of the dock house outside the building allows you to clear some space inside the building and use the entire effective area.

The **lining** of the dock house with **profile sheeting** or **sandwich panels** protects the loading bay from atmospheric precipitation and provides comfortable conditions for personnel working inside.

For better thermal insulation, it is recommended to install DSF dock shelters on loading dock houses.

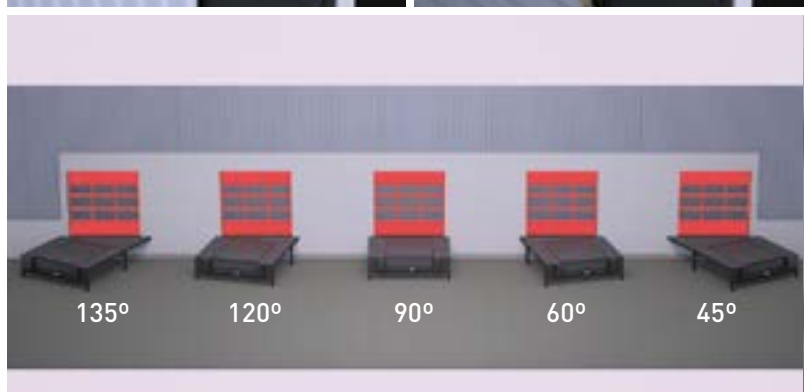
ALUTECH dock house



with profile
sheeting



with
sandwich panel



The ALUTECH loading bay includes:

- a dock house;
- a loading platform with a dock leveller;
- a dock shelter;
- additional equipment.

The installation of the dock house at various angles to the building's facade (45°, 60°, 90°, 120°, 135°) allows unhindered parking in conditions of confined space.

At the request of the customer, it is possible to manufacture a dock house with a base height from 900 mm to 1400 mm.

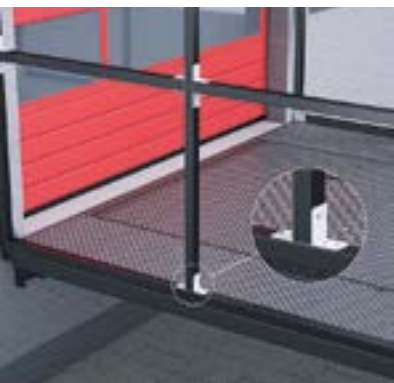
Technical information

Specifications	ALUTECH DH
Width of dock house frame	3400 mm
Height of dock house frame	3400 mm
Length of loading platform, mm	2000, 2500, 3000, 3500, 4000, 4500
Height of loading platform	900-1400 mm (at choice)
Angle of slope of dock house roof	5° forward
Mounting angle to building	45°, 60°, 90°, 120°, 135°
Colour of dock house frame	RAL 9005 (black)

Design styles

- **Profile sheeting** protects the loading bay from atmospheric precipitation and wind, reduces the noise level and provides favourable working conditions during loading and unloading.
- **Sandwich panels.** 45 mm panel thickness ensures the optimum thermal insulation. We offer panels of the following types: S-ribbed or Microwave.

Advantages of ALUTECH dock house



Fast and easy installation

The built-up structure of the dock house eliminates the need for welding and ensures fast and convenient on-site installation.

- A set of mounting brackets is included in the kit.
- Shaping of wall covering in line with the size of the dock house.
- Holes for mounting are predrilled at the factory.



Smart design

Two **steel wire ropes** in the upper part give the structure additional rigidity and stability.

The roof placed at an angle of 5 ° forward ensures even drainage during the rain.



A variety of colours

We offer a palette of standard colours for the dock house covering, which allows you to choose the right colour and to comply with the style of the building facade.

Standard colours of profile sheeting according to RAL catalogue:

8017 5005 9006 1015 3005 6005

Standard colours of sandwich panels according to RAL catalogue:

9016 8014 8017 9006 7016 6005 5010 3004 1015



Extended standard delivery package

An extended standard delivery package includes coloured cladding and **gutter** in the front of the dock house.

Side drop aprons divert the flow of water from the platform during rain and protect the overload zone from precipitation.



Stable base

Additional rear supports used in loading platforms of 3000 mm length and longer ensure stability of the structure.

Additional ALUTECH equipment



Various ALUTECH accessories ensure safety of loading equipment, making loading and unloading as convenient and safe as possible.

Loading bay equipment includes:

- wheel guides
- rubber buffers
- mounting and protective plates
- ramp lighting equipment

Such accessories for loading equipment increase the efficiency of loading and unloading, while optimising and accelerating the process of warehouse logistics.

Accessories for ALUTECH loading equipment



The **system of WG wheel guides** is represented by galvanised or safety-yellow steel pipes mounted on the roadway so that the truck is in the correct position when being parked.

Wheel guides ensure parking accuracy and help to position the vehicle properly towards the loading bay.

Specifications

Length	1500 mm
Angle of retraction	45°
Wall thickness, diameter	4 mm, Ø 159 mm
Standard colour of painting	RAL1021 (rape yellow)



Rubber buffers absorb the impact load during the docking of the vehicle to the loading terminal, protecting the facade of the building, the leveller and the vehicle body from damage.

Specifications

Dimensions	500x250x100 mm
Material	rubber
Mounting and protective plates are available as an option	



ALUTECH LED-DL corner floodlights are easy to install with a swing bracket inside the premises and illuminate the rear of the vehicle, which significantly increases the speed and safety of loading.

Specifications

Working capacity of LED light	30 W
Luminous power	2700 lm
Protection class	IP65
Power supply	230V / 50Hz
Length of feed cable	1,5 m
Bracket length	1170 mm
Number of bracket axles	2
Colour of bracket	bright-yellow



Alutech Door Systems LLC



Alutech Incorporated LLC



AluminTechno JLLC

The **ALUTECH** Group of Companies is one of the leaders on the market of roller shutter systems and sectional doors in Eastern Europe and is the leading manufacturer of aluminum profile systems in the CIS countries. The **ALUTECH** Group of Companies consists of five manufacturing enterprises and more than 20 sales companies in CIS countries and Europe.

In 2016 the **ALUTECH** Group of Companies launched production of docking systems. Solutions for effective operation of warehouses and logistics centers were included in product portfolio: dock levelers, dock shelters, loading bays.

In 2017 the **ALUTECH** product range was extended by automation systems for garage and industrial sectional doors, entrance gates.

All the enterprises of the Group of companies are equipped with high-tech equipment such as:

- complex for coating and cutting of aluminum and steel strip;
- roll-forming lines;
- automated complexes for high pressure casting of aluminum alloys;
- lines for sandwich panels and door leaf production;
- automated warehouses for products storing and sorting;
- die casting complex for aluminum bars;
- aluminum profiles extrusion lines;
- horizontal and vertical powder coating lines;
- the CIS largest complex for anodizing of aluminum profiles.

Due to own production complexes within the Company the specialists of **ALUTECH** Group are able to control the quality of the products at all the stages of the industrial process: from project development, purchase of raw materials to creating of finished products and their packing. The quality management system of all the enterprises has been certified in compliance with the requirements of the international standard **ISO 9001**.

ALUTECH products have been installed at millions of sites and are supplied in more than 65 countries of CIS, Europe, Asia, Africa and North America.

