



Novoferm Docking Solutions

Intelligent solutions for forward-looking logistics



Intelligent Door Solutions



Highest quality and safety for your logistics needs

New ideas and proven technology to
save you money

Novoferm Docking Solutions are tried and tested, technically perfected, from a single source ensuring that your material movement results in added value. All our docking solutions are tailored to your individual requirements in the design process.

Novoferm Docking Solutions – Superior quality in product and service



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Safer docking systems

All docking systems are in compliance with the European directive DIN 1398. Novoferm develops and produces new products that are in strict compliance with this standard and fully safe in their operation, not only for everyday use but also with regard to installation and maintenance.

Led by innovations

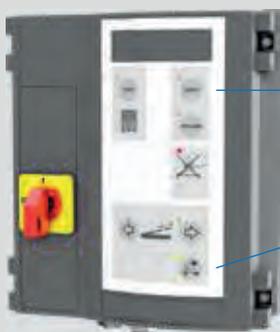
Setting standards



NovoDock EVO X



iQ-Slide and Silence Plus



QuickDock function

iQ-Slide function with alarm LED

Novo i-Vision X control

Novoferm Docking Solutions – always one step ahead

Close contact with customers leads to ongoing improvements and new products.

2009 NovoDock L500

2011 NovoDock L500i

2013 NovoDock L530i

Novoferm Communication Interface

NovoDock L730i

2017 NovoDock L320 and L530 with Z frame concept

SLOD-Function

Calematic DC

LION 4.0

2019 NovoDock EVO X

with iQ-Slide function

The telescopic lip of the dock leveller follows the lorry automatically.

with QuickDock function

Easiest and fastest operation of the dock leveller.

with Silence Plus

Reduces noise by up to 85% and improves slip resistance and durability.

Efficient Solutions



All NovoDocks are supplied with certificates of energy performance.

Added value thanks to sole sourcing

Today, many loading equipment suppliers do not sell their products from "one single source", which unfortunately means nothing other than a supplier offering products from different manufacturers which are not always ideally suited to each other.

For you, Efficient Solutions means that Novoferm not only develop products, but also manufactures them ensuring each different product works in harmony with another, thus making it possible for you to design your loading bay process as efficiently as possible.

Truck restraining system **Calematic DC**

The new Calematic DC is a further development of the Calematic SC systems proven and tested for decades. In addition to the well-known benefits, an even higher safety when loading could be achieved at low total costs.

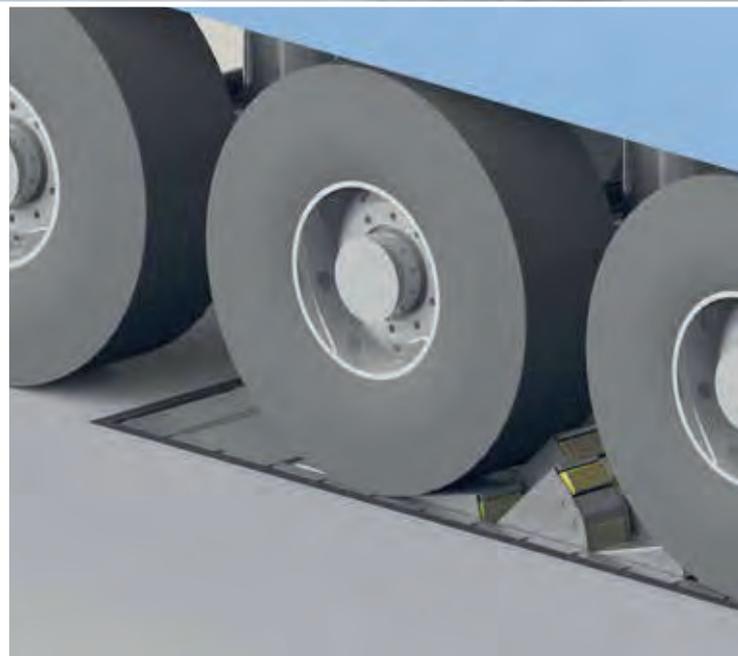
Combined control **i-Vision**

- LED user guide
- Auto button function, move everything to the rest position by pressing only one button.
- One control unit for door and dock leveller, NCI on board.

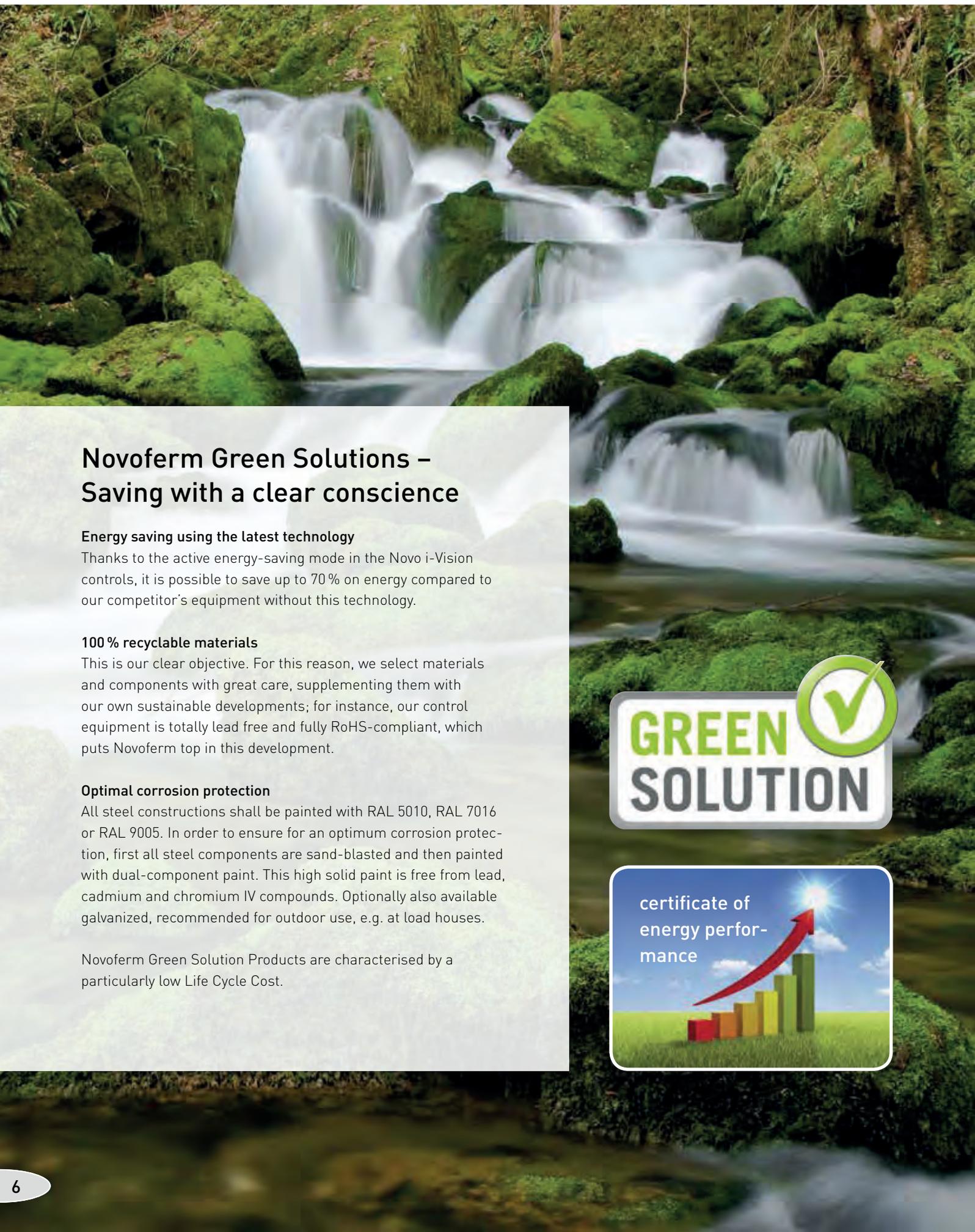
LION 4.0 Monitoring Software

The new software for monitoring, representation and optimization of the entire loading situation. Intelligent assistants allow access to the data of the warehouse connected at any time and from anywhere (via Internet). The modern layout navigates the operator to the destination intuitively.

Novoferm Efficient Solutions – The decisive difference



Green Solutions



Novoferm Green Solutions – Saving with a clear conscience

Energy saving using the latest technology

Thanks to the active energy-saving mode in the Novo i-Vision controls, it is possible to save up to 70 % on energy compared to our competitor's equipment without this technology.

100% recyclable materials

This is our clear objective. For this reason, we select materials and components with great care, supplementing them with our own sustainable developments; for instance, our control equipment is totally lead free and fully RoHS-compliant, which puts Novoferm top in this development.

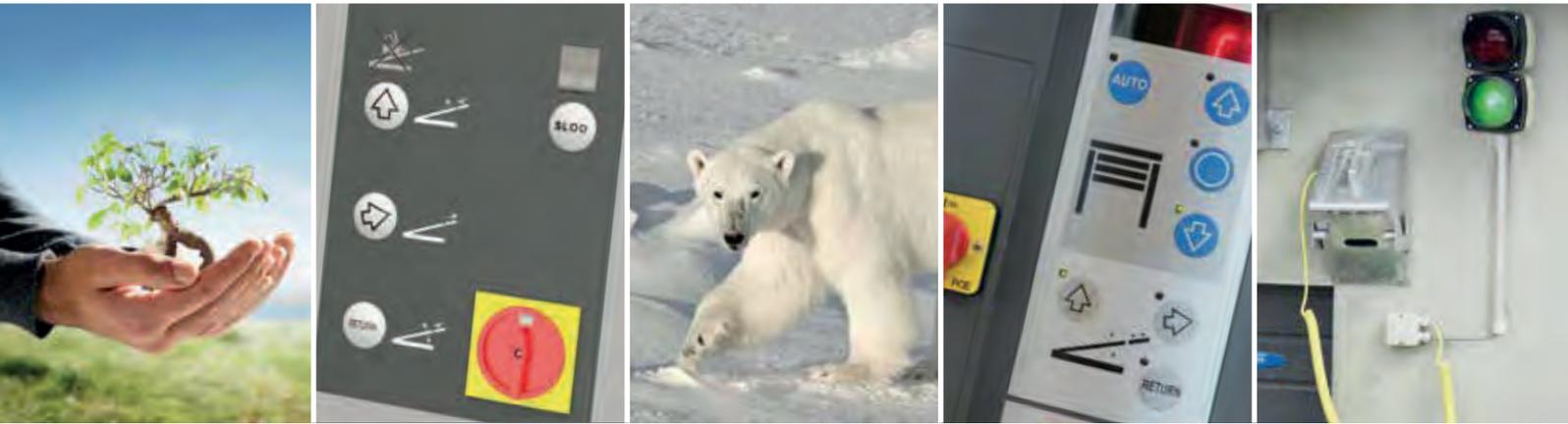
Optimal corrosion protection

All steel constructions shall be painted with RAL 5010, RAL 7016 or RAL 9005. In order to ensure for an optimum corrosion protection, first all steel components are sand-blasted and then painted with dual-component paint. This high solid paint is free from lead, cadmium and chromium IV compounds. Optionally also available galvanized, recommended for outdoor use, e.g. at load houses.

Novoferm Green Solution Products are characterised by a particularly low Life Cycle Cost.



Option Packs



Alter your logistics efficiently to your specific requirements with our option packs. Six packs that are unparalleled in the realm of loading technology offer you many possibilities to design your loading

operations dynamically and flexibly. Our option packs characterised by optimised components, functions or configuration levels make Novoferm stand out from its competitors.



Green^{Plus}

Sustainable materials, ecologically friendly components and a power saving function significantly reduce CO₂ emissions while saving costs at the same time.

- Energy saving mode – up to 70 % less power consumption
- RoHS-compliant control and components



Green^{SLOD}

A simple and efficient safety benefit to protect the health of your employees when opening the rear doors of lorries.

- prevents falling from the dock leveller when opening the rear doors of the lorry
- execution of all movements of the dock leveller with only one button with the SLOD function



Iso^{Plus}

The gap seals ensure that joints are tight in almost every working position, thus saving heating energy and costs.

- Special insulation of dock leveller
- Gap seal on the side
- Strong back gap sealing
- Energy and cost reduction



Door^{Plus}

All control functions are located in one control panel, which ensures that door and dock leveller are operated easily and efficiently and also prevents incorrect sequence operation.

- One control system for door and dock leveller
- Prompt per LED displays on control
- One control panel with "AutoDock" function
- Integrated interlocking of door and dock leveller



Safety^{Plus}

Various configuration levels – from a simple set of traffic lights to more expensive solutions with an electronic safety check – reduce the risk of accidents.

- External traffic lights
- Internal traffic lights
- Electronic safety check
- Electronic safety system



The future of your logistic processes

Transparent overview

LION 4.0 is a software program for monitoring, illustrating and optimizing the entire loading scenario. Intelligent personal assistants facilitate access to the data of the connected warehouse at any time, from anywhere (via Internet). The modern interface of the software intuitively guides the user to the goal.

Start in the future now. Get the decisive competitive advantage into your company. LION 4.0 provides you with the complete transparency and gives you unprecedented options to optimize your loading operations and make them more reliable on the basis of facts.

Product characteristics

- Logistics 4.0 solution
- for the optimization of any loading bay
- provides the latest status updates
- reduces downtimes to the minimum
- active notifications help reduce costs
- intelligent personal assistants
- facilitates preventive maintenance



Transparency, efficiency, control and security

With the LION 4.0 Docking Portal, you have an overview of your different locations and all corresponding loading bays. We are giving you a magnitude of information for evaluation and optimization.

Service/maintenance

Recognize when the door or dock leveller of the loading bay has to be maintained at an early stage.

Everything at a glance

In Dashboard, you are given extensive information for your loading bay clearly arranged and at a glance. Then you can evaluate the desired data, also in the detailed view.

Messages

You are informed about all messages and can reduce interruptions to a minimum.

Top Performance

Transparent representations of data unknown to you until now permit a significant increase in your performance and ensure that you have a decisive competitive advantage. The targeted and preventive maintenance possible for the first time reduces your downtimes to a minimum. In case of an error occurring, LION 4.0 informs you about the problem immediately.

Everything in control when travelling

LION 4.0 is a web-based portal that gives you an overview of all data at a glance at all times and from any location. The map view gives you a clear overview of all locations, and at a click of your mouse button you are directly in the running operation of your warehouse.

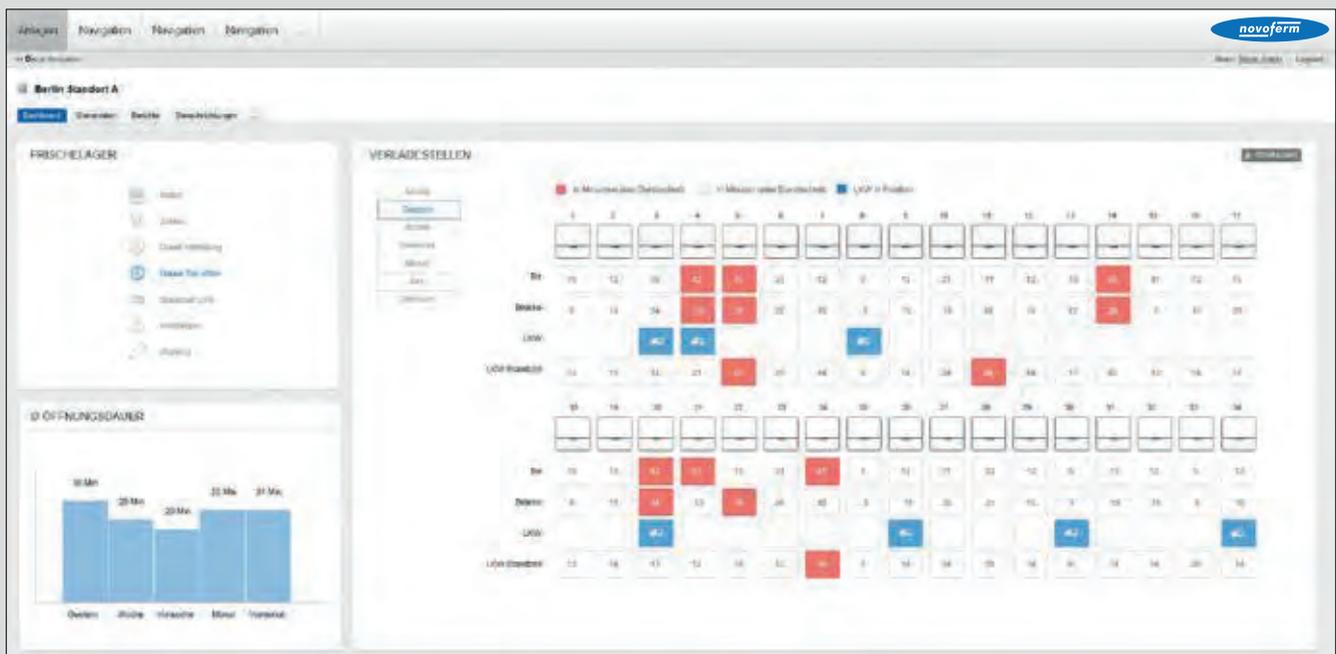
The analyzer

Prepare different evaluations and have these printed automatically or sent to a different addresses at regular intervals. LION 4.0 takes over this for you without anyone having to react regularly. Put your focus on the most important matters

The messenger

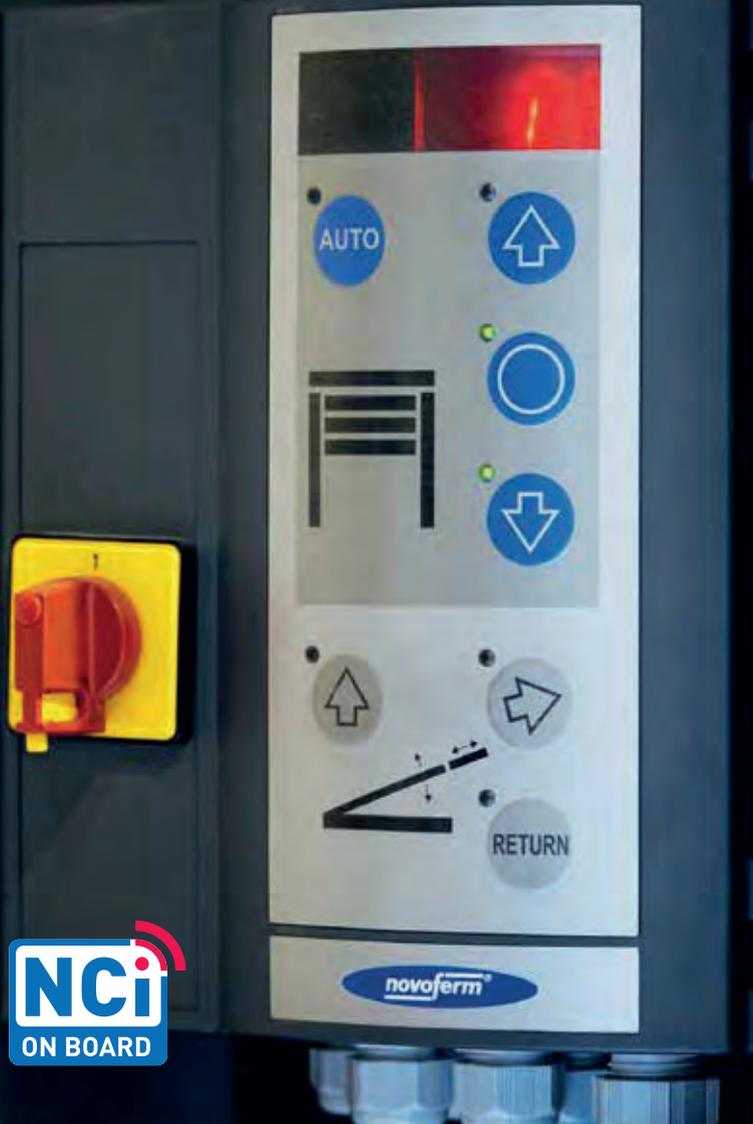
Doors are opened after the normal operating hours? Are they opened in the operation longer than planned? LION 4.0 immediately sends a message to a destination of your choice per e-mail or SMS. React immediately and targeted. More security and less cost thanks to LION 4.0.

LION4.0
DOCKING PORTAL



Overview controls

Novo i-Vision TAD (Option)



Novo SuperVision 5



Novo SuperVision 5 SLOD (Option)



Novo i-Vision TA



Novo i-Vision TAD (Option)



Novo i-Vision HA



Novo i-Vision HAD (Option)



Novo Classic Plus



Basic conditions for efficient loading

The Novo i-Vision control includes the latest environmentally friendly technology. It has a unique power saving function and offers an exceptional range of functions with an ergonomic design.

Novo i-Vision TAD/HAD

- Integrated door control
- Integrated dock leveller control
- "Auto Return" function
- "Auto Dock" function
- Prompt through LEDs
- Integrated interlocking of dock leveller and door
- NCI on board

Novo SuperVision 5 with SLOD function

Thanks to the unique SLOD function, the operator can open the rear doors of the lorry without running a risk and, in the process, of falling down from the dock leveller. A decisive plus for safety. All movements of the dock levellers are carried out with only one push button for this function. Simple and efficient.

Overview docking solutions



NovoDock EVO X

The next generation of the dock leveller



NovoDock L730i

The ideal ISO loading bay



Dock levellers with telescopic lip



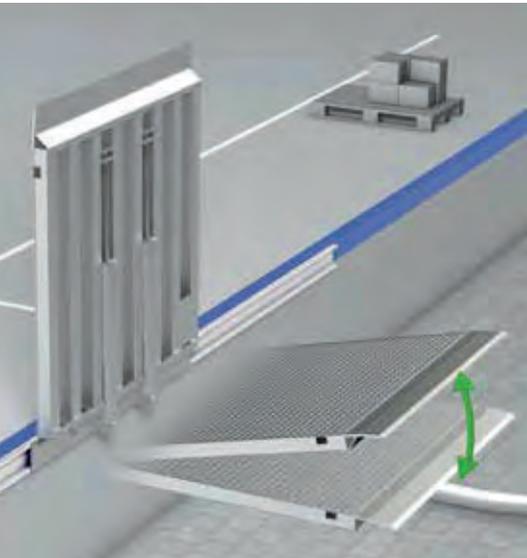
Dock levellers with hinged lip



Platform systems



Load houses



Mechanical dock levellers

NovoDock EVO X

Novo i-Vision X
control integrated



The next generation of the dock leveller

X-TRA safety

iQ-Slide – intelligent telescopic lip follows the freight lorry

iQ-Slide is a patented solution that automatically activates a forward movement of the dock leveller, thereby following the freight lorry. The telescopic lip is prevented from slipping off the freight lorry. If the telescopic lip has extended to a maximum, and if further following of the freight lorry is no longer possible, then an alarm is sounded and a LED on the control unit indicates that this functionality is no longer active.

SLOD function – opening freight lorry doors safely

Thanks to the SLOD function, the operator can open the rear lorry doors, without running the risk of falling from the dock leveller. This is a decisive safety plus. With this function, all movements of the dock leveller are carried out with a single operating button. Simple and efficient.

Optional ISO^{Plus} package

The completely isolated, enclosed construction form does not permit draughts under the dock leveller, with which a thermal bridge is avoided.



ISO^{Plus} – A package with a completely isolated and enclosed construction form

X-TRA silence

Alu-Slide – a smooth transition from the freight lorry to the dock leveller

The telescopic lip segments, which are made of high-strength aluminium, make a smoother and less steep transfer to the freight lorry possible. This protects the transported goods and the forklift truck. In addition, this system is more ergonomic for the forklift truck operator and spares the back. The development of noise is also substantially lower. The longer positioning surface of the aluminium segments increases safety, while at the same time reducing the risk of slipping from the freight lorry.

Silence Plus – as silent as a cat

The new, optional coating on the EVO X dock leveller reduces the development of noise by 85%! Independent tests (amongst others by TÜV Nord) confirm the enormous reduction of transit noise. Compared to similar products, the values of both slip-prevention and stability are also exceeded.

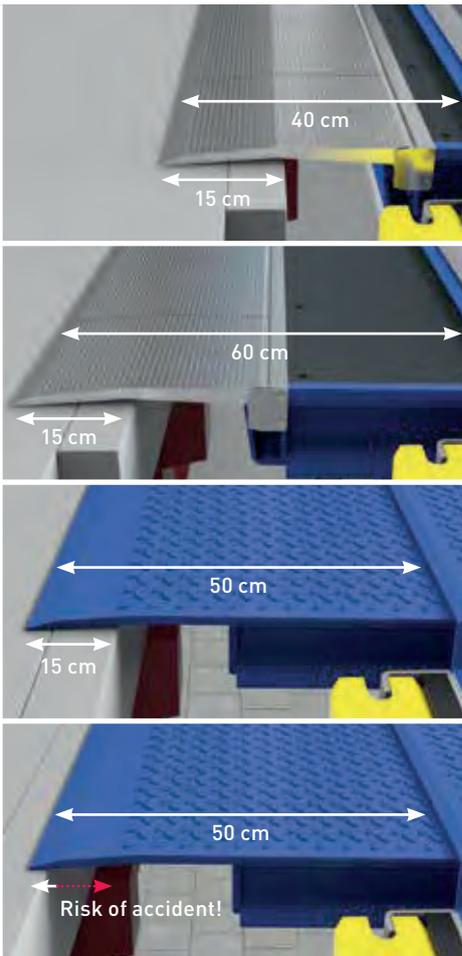
5010

7016

9005

RAL standard colours of dock levellers

The standard in terms of safety, efficiency and connectivity.



EVO X dock leveller with iQ-Slide function
The intelligent telescopic lip follows the freight lorry. The loading situation is safe.

Standard dock leveller without iQ-Slide function
Standard telescopic lip without warning. The loading situation is critical.

X-TRA efficiency

QuickDock function – keep it simple

The simplest and quickest way of operating a dock leveller: The positioning of the telescopic lip is carried out with a single button. It can't get faster or simpler than that. You only need the QuickDock button, to operate the EVO X precisely and safely. Lifting and extending the telescopic lip is done in dead-man mode.

Control and operations – Novo i-Vision X

The dock leveller is operated by means of the Novo i-Vision X control unit, which is part of the delivery. Besides the newest environment-friendly technology, this control unit disposes over such unique features as:

- A power saving function, which leads to 70 % lower energy requirements
- User guidance per LED
- QuickDock functionality
- SLOD function
- iQ-Slide function with an acoustic signal
- Service interval display
- IP65 and RoHS conformity

X-TRA connectivity

Logistics 4.0 on board

At all times, at any site, and system-independent. Regardless of whether it concerns the current status, the time required for the last loading operation, the average frequency, the maintenance status and much more – the EVO X keeps your customers and users informed at all times.

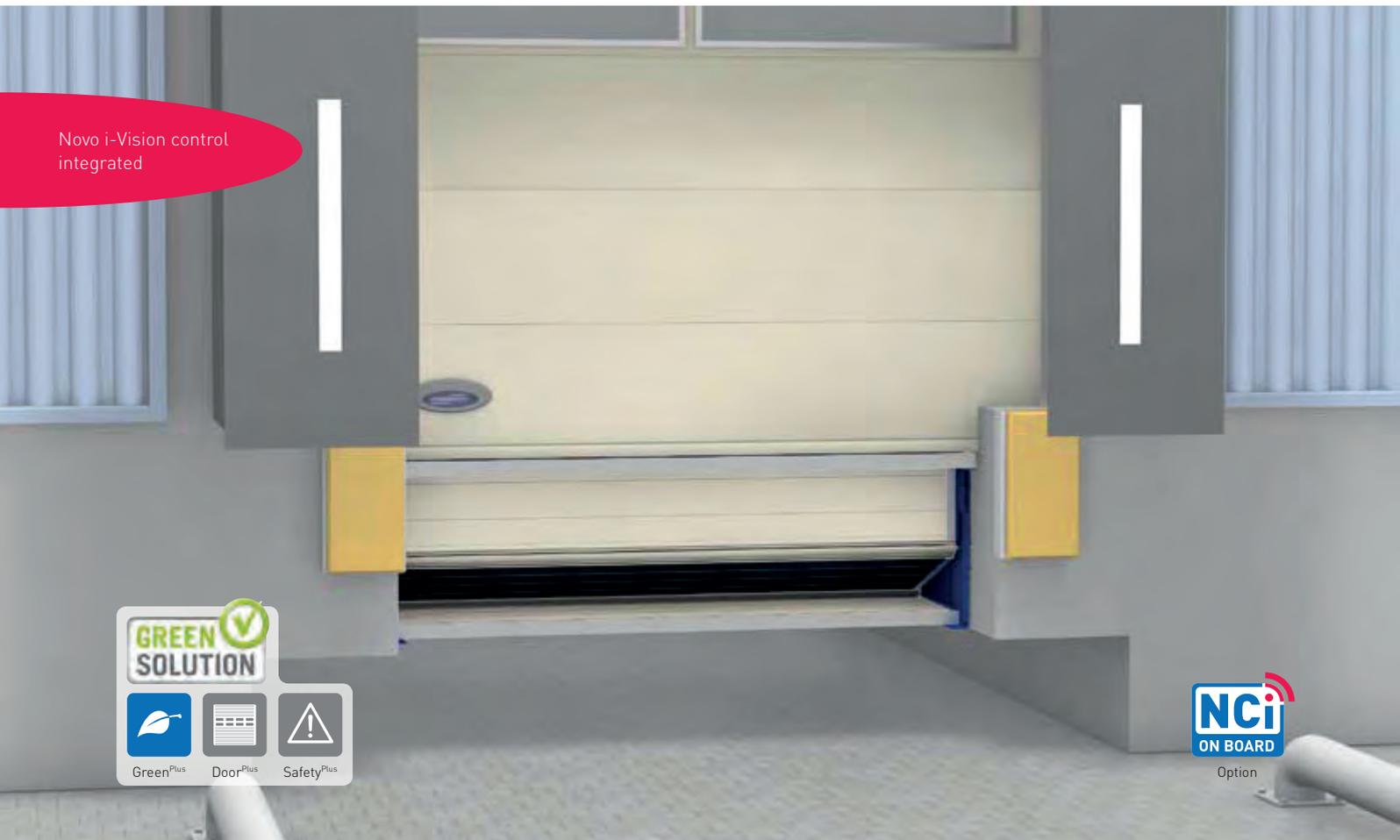
Top performance

EVO X is becoming more efficient every day, thanks to LION 4.0, the integrated docking portal with comprehensive new possibilities.



Additional information on the option packs and the LION 4.0 Docking Portal can be found by you on pages 7–10.

NovoDock L730i



Study confirms enormous energy savings

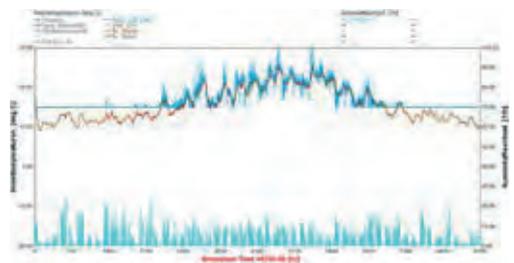
The energy efficiency of the NovoDock L730i in comparison to a conventional dock leveller has been investigated by Klaus Sommer, professor of engineering at the Technical College of Cologne.

The heating energy consumption was reduced by 40 %.

When the proven TRNSYS and TRNFLOW programs are also used, thermal building and airflow models are generated under realistic conditions. The study proved the heat-related behavior of logistics buildings and the energy efficiency of dock leveller encapsulation.

The following assumptions were made for the calculation:

- Logistics hall, current standard, room temperature of 15 °C
- 4 loading events per loading bay each day, 5 days a week
- In 75 % of the cases, loading takes place on both sides at the same time
- Average duration of loading: 30 min



Annual heating requirement in kWh/a

Hall without docking stations	10.392	
Hall with NovoDock L730i	40.222	approx. 40 % savings
Halle mit Standard-Verladestellen	70.222	

For temperature controlled storage



The ideal ISO loading bay

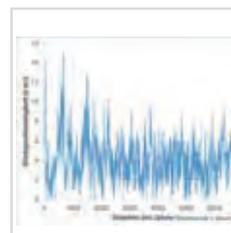
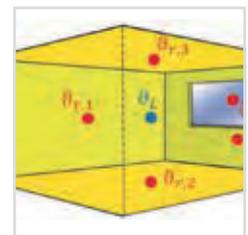
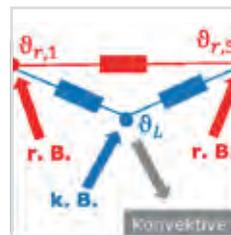
The unique design of the NovoDock L730i ensures the best possible insulation of the loading bay at any time. Also, during the loading process, no draughts can get under the dock leveller, thus preventing a cold bridge.

Product benefits

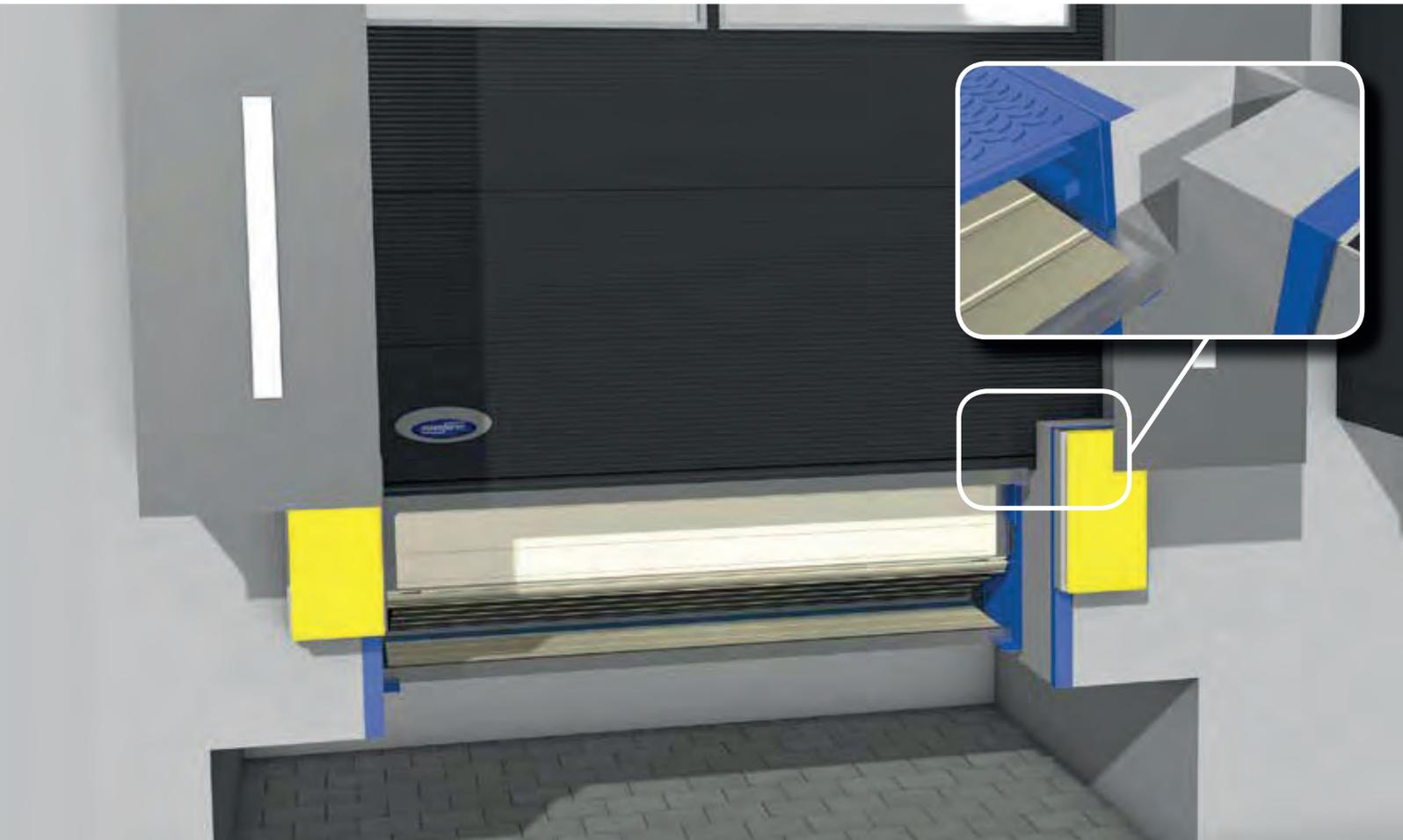
- Standard Green^{Plus} pack, up to 70 % energy savings
- Fully insulated, encapsulated design
- Acceleration forces are fed into the base plate
- Also fully insulated during the loading process
- Tail lift recess
- 500/700/1.000 mm telescopic lip
- 45 mm insulation
- Optional Door^{Plus} pack
- NCI on board

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RAL standard colours of dock levellers



NovoDock L730i for ISO pits



Because the acceleration forces can be directly fed into the base plate of the building, the construction form of the installation pit as compared to traditional ISO loading bays is much easier to design.

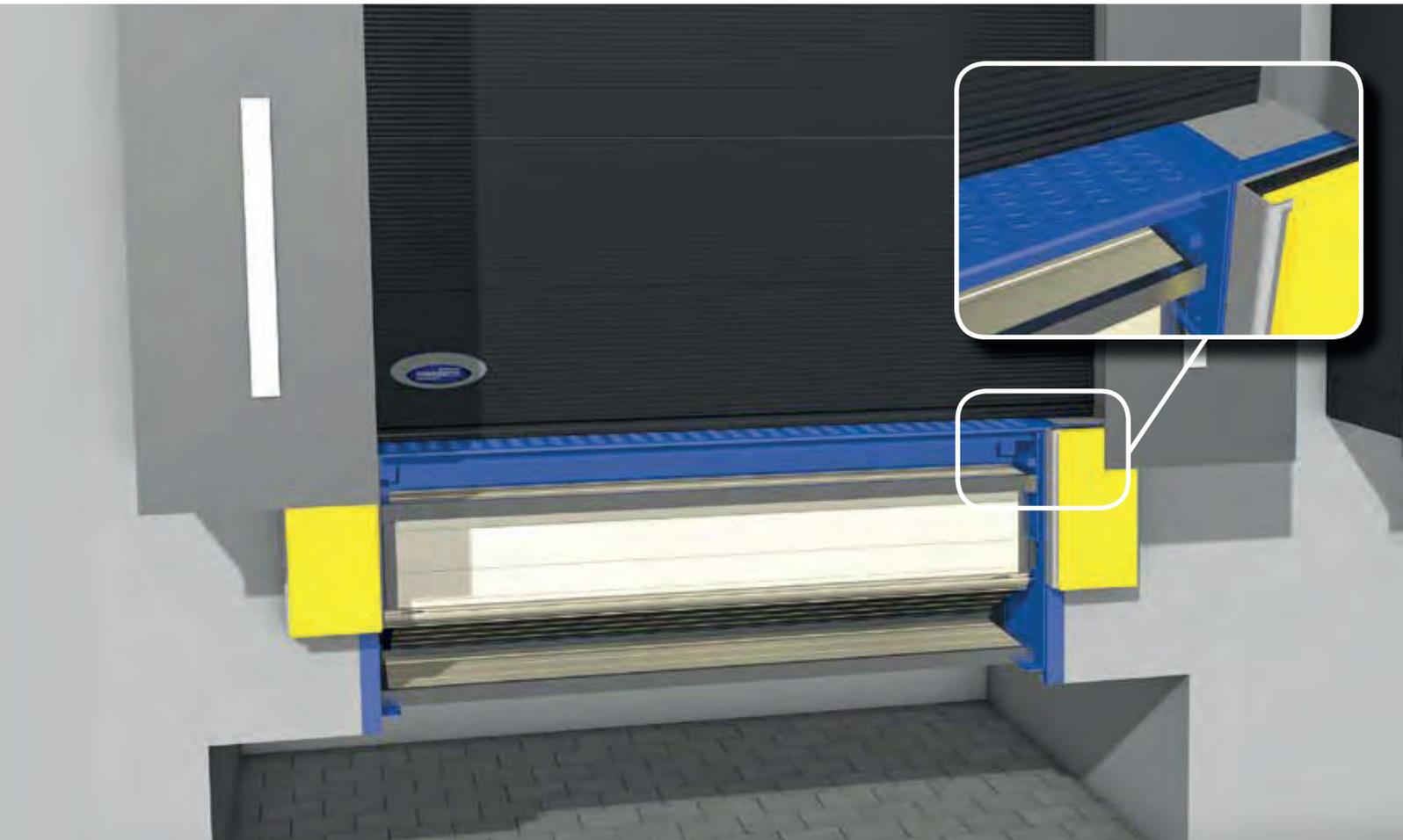
Advantages as compared to a traditional ISO loading bay

Features	NovoDock L730i	traditional ISO loading bay
Pit preparation	easy	labour-intensive
Tail lift recess	possible at any time	only possible when the door is opened
Insulation during loading	ensured at any time	not ensured
Green ^{Plus} pack	up to 70 % lower energy requirements	not available
Door ^{Plus} pack	Door, dock leveller, TAD and equipment are actuated via only one control	not available, diverse controls necessary
Acceleration forces	Are fed directly into the base plate	expensive massive frost protection necessary

ISO pit

Standard pit

NovoDock L730i for standard pits



The variant for standard installation pits does not require any particular construction measures with similar good results.

Not just for cold storage

No other loading solution offers all these advantages in a single package. The rising cost of energy in combination with the attractive price make this intelligent solution interesting for all hot or cold warehouses.

Sustainability and energy savings

The standard Green^{Plus} package ensures the use of recyclable materials. Using a unique, patent-pending, power-saving function, the NovoDock L730i saves up to 70 % of energy costs compared to conventional solutions and provides an important contribution to reducing CO₂ emissions.

Increased efficiency through automation

The Door^{Plus} package controls the dock leveller, the electrically driven sectional door, an inflatable

shelter, and any other equipment – such as traffic lights and loading area lighting – in a single housing. In conjunction with the LED user guide, improper operation is impossible and damage is prevented. The AutoDock function moves all connected products safely back into the rest position and thus increases efficiency.

The future is already on board

The integrated Novoferm Communication Interface (NCI) provides over 50 key parameters. The LION 4.0 Software lets you evaluate the data for efficient loading.

NovoDock L530

Novo SuperVision 5 control integrated



Hydraulic dock leveller with telescopic lip for the most demanding requirements

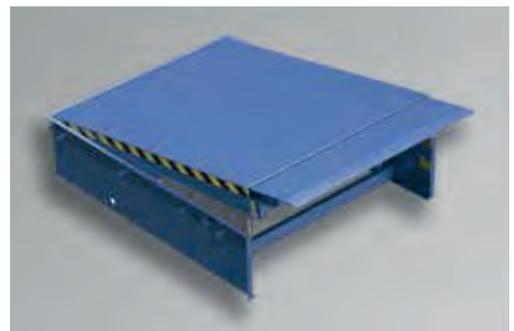
The NovoDock L530 is optimised for the enhanced market requirements and combines the benefits of various systems. The hydraulic dock leveller with telescopic lip is particularly robust and enables efficient loading thanks to modern controller technology. The new NovoSmart Drive system provides the easiest and most efficient operation with the least energy requirement.

Product benefits

- NovoSmart Drive system
- SLOD function (optional) prevents accidents
- Green solution product
- Up to 70 % less energy consumption
- Robust steel construction
- Quick installation thanks to the Z-frame
- High bridging values at lower heights due to rearrangement of the lifting cylinder
- Options packages for customised configuration
- NCI on-board (optional)

5010 7016 9005

RAL standard colours of dock levellers



For further information on the option packs, the LION 4.0 Docking Portal and the Novo i-Vision controller, please refer to pages 7–10.

For further technical data, please refer to pages 54–56 or to the Novoferm product data sheets.

NovoDock L530R

Novo SuperVision 5
control integrated



Hydraulic dock leveller with telescopic lip as replacement solution

The NovoDock L530R is designed as a specific replacement solution and combines the benefits of various systems. The hydraulic dock leveller with telescopic lip is particularly robust and enables efficient loading thanks to modern controller technology. The new NovoSmart Drive system provides the easiest and most efficient operation with the least energy requirement.

Product benefits

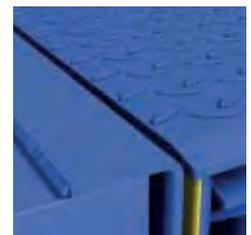
- NovoSmart Drive system
- SLOD function (optional) prevents accidents
- Green solution product
- Up to 70 % less energy consumption
- Robust steel construction
- Quick replacement thanks to the specific Z-frame
- High bridging values at lower heights due to rearrangement of the lifting cylinder
- Options packages for customised configuration
- NCI on-board (optional)

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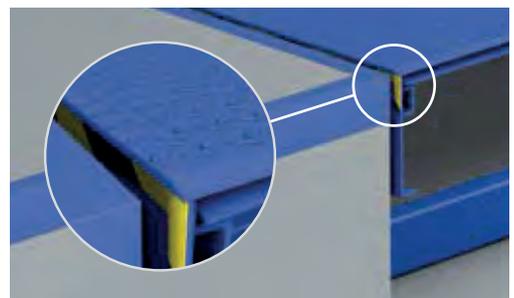
RAL standard colours of dock levellers



Z-frame AZ detail



Z-frame GZ detail



Z-frame FZ detail

NovoDock P1530

Novo i-Vision control
integrated



Hydraulic dock leveller with telescopic lip in the steel frame

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RAL standard colours of dock levellers

The steel frame allows the NovoDock P1530 to be installed in front of the building and also serve as a basis for a loading bay. The hydraulic dock leveller with telescopic lip is particularly robust and enables efficient loading thanks to modern controller technology. The new NovoSmart Drive system provides the easiest and most efficient operation with the least energy requirement.

Product benefits

- Up to 70 % less energy consumption
- NovoSmart Drive system
- SLOD function (optional) prevents accidents
- Options packages for customised configuration
- Robust steel construction
- Height adjustable support feet
- High bridging values at lower heights due to rearrangement of the lifting cylinder



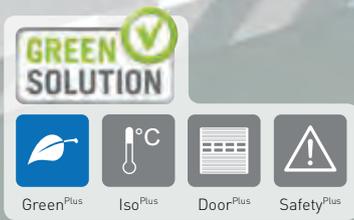
Angled design [90°, 75°, 60°, 45°, 105°, 120°, 135°]

For further information on the option packs, the LION 4.0 Docking Portal and the Novo i-Vision controller, please refer to pages 7–10.

For further technical data, please refer to pages 54–56 or to the Novoferm product data sheets.

NovoDock L550i

Novo i-Vision control
integrated



Hydraulic dock leveller with telescopic lip

The NovoDock L550i is specially designed for heavier loads. The hydraulic dock leveller with telescopic lip is particularly robust and enables efficient loading thanks to modern controller technology. Like all Green Solution products, the NovoDock L550i contributes to cost savings thanks to CO₂ reduction technology.

Produktvorteile

- Standard Green^{Plus} pack, up to 70 % energy savings
- Novo i-Vision control
- NCI on board
- Robust steel construction
- Due to its higher dynamic load-carrying capacity of 100 kN, especially suitable for transported goods
- Green solution product
- Options packages for customised configuration

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RAL standard colours of dock levellers



ebmpapst



StepDock

Novo SuperVision 5 control integrated



Hydraulic dock leveller with telescopic lip and stepped design

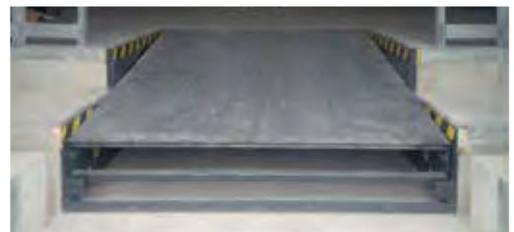
The StepDock was constructed based on the NovoDock L530 or P1530. This dock leveller is at rest sloping down and, next to the dock leveller, has side niches for the lorry doors. In the NovoDock P1530 version, as a pedestal system, this is then equipped with a step in the platform.

The StepDock was developed for a lorry to dock with closed rear doors. The rear doors are thus only opened when the lorry is already in the correct loading position, not already open a few meters in front of the loading bay. This ensures that the cold chain is not interrupted or additional manoeuvring operations can also be omitted. In addition, this system is perfect for preventing theft and for customs purposes.

Combined with the NovoSeal S620 inflatable dock shelter, especially as part of the integrated docking solution with the Novo i-Vision combi-control, this system is a great way to lower your energy bill and increase your loading efficiency.

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RAL standard colours of dock levellers



StepDock based on NovoDock L530



StepDock with NC Silence Plus anti-noise solution

NovoDock L320

Novo Classic Plus
control integrated



Hydraulic dock leveller with hinged lip

Hydraulic dock levellers with hinged lip have been established as basic version in the loading technology. The NovoDock L320 redefines this standard. It combines many years of experience and a robust steel construction with new design and the most modern control technology. Naturally, only materials are used that comply with current environmental standards.

Product benefits

- Hydraulic dock leveller with hinged lip
- Complete new design
- New Z-frame construction
- Option packages for individual configuration
- Robust steel construction
- High bridging values at lower heights due to rearrangement of the lifting cylinder
- Quick assembly

5010

7016

9005

RAL standard colours of dock levellers

NovoDock L320R

Novo Classic Plus
control integrated



Hydraulic dock leveller with hinged lip as replacement solution

Hydraulic dock levellers with hinged lip have been established as basic version in the loading technology. The NovoDock L320R is designed as a specific replacement solution. It combines many years of experience and a robust steel construction with new design and the most modern control technology. Naturally, only materials are used that comply with current environmental standards.

Product benefits

- Complete new design
- Option packages for individual configuration
- Robust steel construction
- High bridging values at lower heights due to rearrangement of the lifting cylinder
- Quick replacement thanks to the specific Z-frame

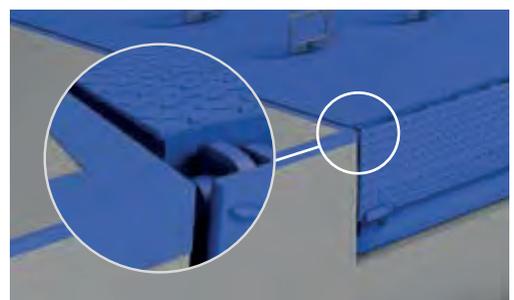
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RAL standard colours of dock levellers		



Z-frame AZ detail



Z-frame GZ detail



Z-frame FZ detail

NovoDock L320e

Novo Classic Plus
control integrated



Transport optimized dock leveller with hinged lip

The hydraulic dock levellers with hinged lip have established themselves among loading systems as the basic version. The NovoDock L320e redefines a new standard. It is designed for perfect transportation and available in two versions.

The **NovoDock L320e ECO** is prepared with a rear frame and the **NovoDock L320e ECO^{Plus}** has a transport optimized Pit-frame. Both versions need a special pit preparation. Up to 30 NovoDock L320e can be stored in a truck or container.

Product benefits

- Transport optimized dock leveller with hinged lip
- Complete new design
- Option packages for individual configuration
- Robust steel construction
- Quick assembly

5010	7016	9005
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RAL standard colours of dock levellers



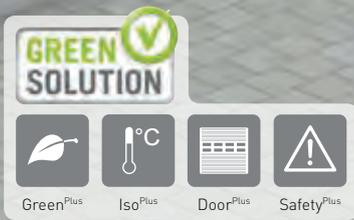
NovoDock L320e ECO



NovoDock L320e ECO^{Plus}

NovoDock P1320

Novo Classic Plus
control integrated



Hydraulic dock leveller with hinged lip in the steel frame

5010 7016 9005

RAL standard colours of dock levellers

The steel frame allows the NovoDock P1320 to be installed in front of the building and also serve as a basis for a loading bay. With the integrated Novo Classic Plus controller, the dock leveller can be operated conveniently and safely. The NCI is available as an option on the NovoDock P1320.

Product benefits

- Optional Green^{Plus} pack, up to 70 % energy savings
- Complete new design
- Option packages for individual configuration
- Easy installation
- Height adjustable support feet
- High bridging values at lower heights due to rearrangement of the lifting cylinder



Angled design [90°, 75°, 60°, 45°, 105°, 120°, 135°]

For further information on the option packs, the LION 4.0 Docking Portal and the Novo i-Vision controller, please refer to pages 7–10.

For further technical data, please refer to pages 54–56 or to the Novoferm product data sheets.

NovoDock L350i

Novo i-Vision
control integrated



Hydraulic dock leveller with hinged lip and higher dynamic load capacity

With the integrated i-Vision-HAR1-control, the NovoDock L350i is user friendly and safe to operate. Like all Green Solution products, the NovoDock L350i also caters for CO₂ reduction and operating cost savings through optimised energy requirements. The stable steel construction remains unchanged. NCI provides a decisive competitive edge over all other dock levellers with hinged lip that are available on the market.

Product benefits

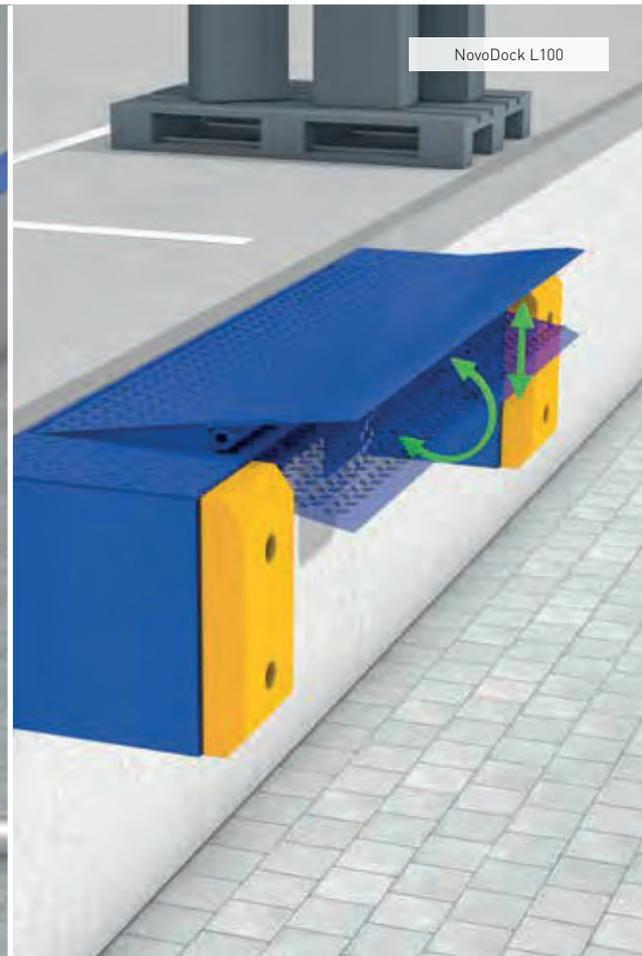
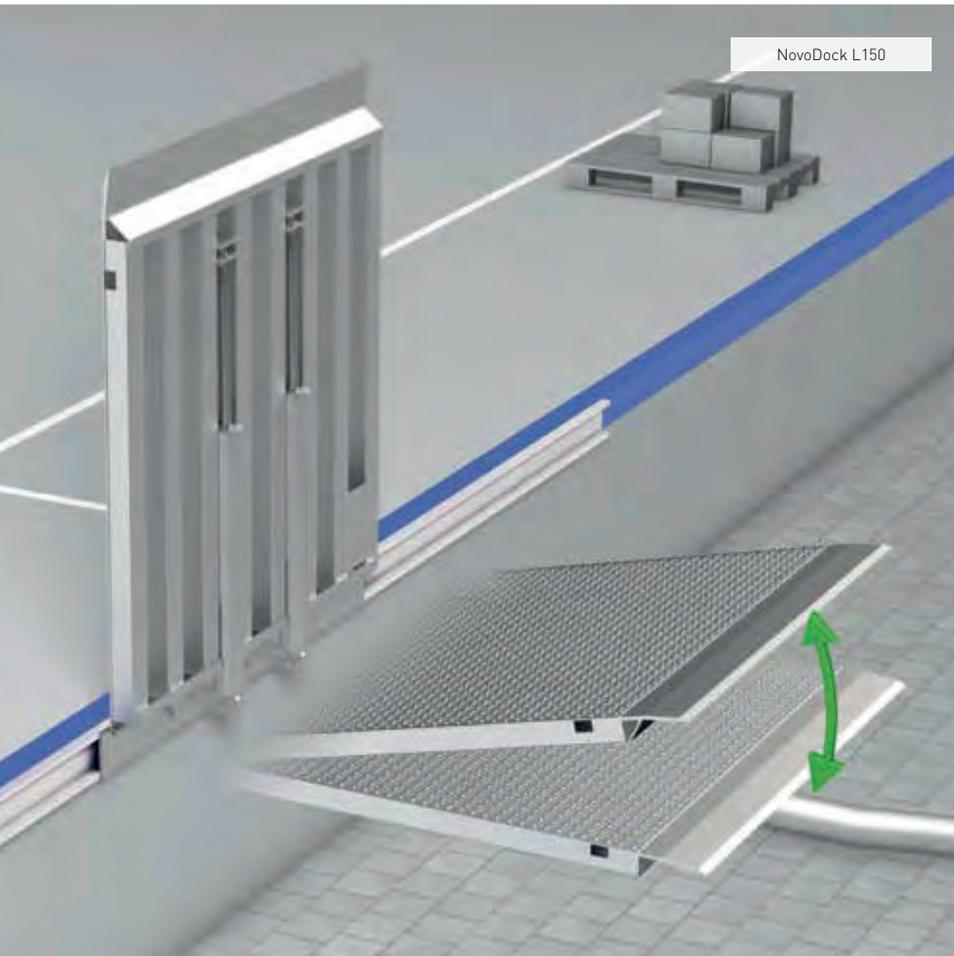
- Standard Green^{Plus} pack, up to 70 % energy savings
- Green solution product
- Due to its higher dynamic load-carrying capacity of 100 kN, especially suitable for transported goods
- Options packages for customised configuration
- Robust steel construction
- Novo i-Vision control
- Auto button

5010 7016 9005

RAL standard colours of dock levellers



NovoDock L150 and L100



Mechanical dock leveller

The NovoDock L150 and L100 can be operated very easily via a lifting rod. Both dock levellers are mounted against the loading bay.

NovoDock L150

- Fixed or laterally sliding
- Provides a bridge between height differences of the vehicle and loading bay
- Use for internal and external loading bays
- Hot-dip galvanized
- Simple user friendly operation
- 60 kN dynamic load capacity

NovoDock L100

- Enables loading operations even in the most confined spaces
- Low-noise
- Simple user friendly operation
- Different installation methods
- 60 kN dynamic load capacity
- Robust impact protection

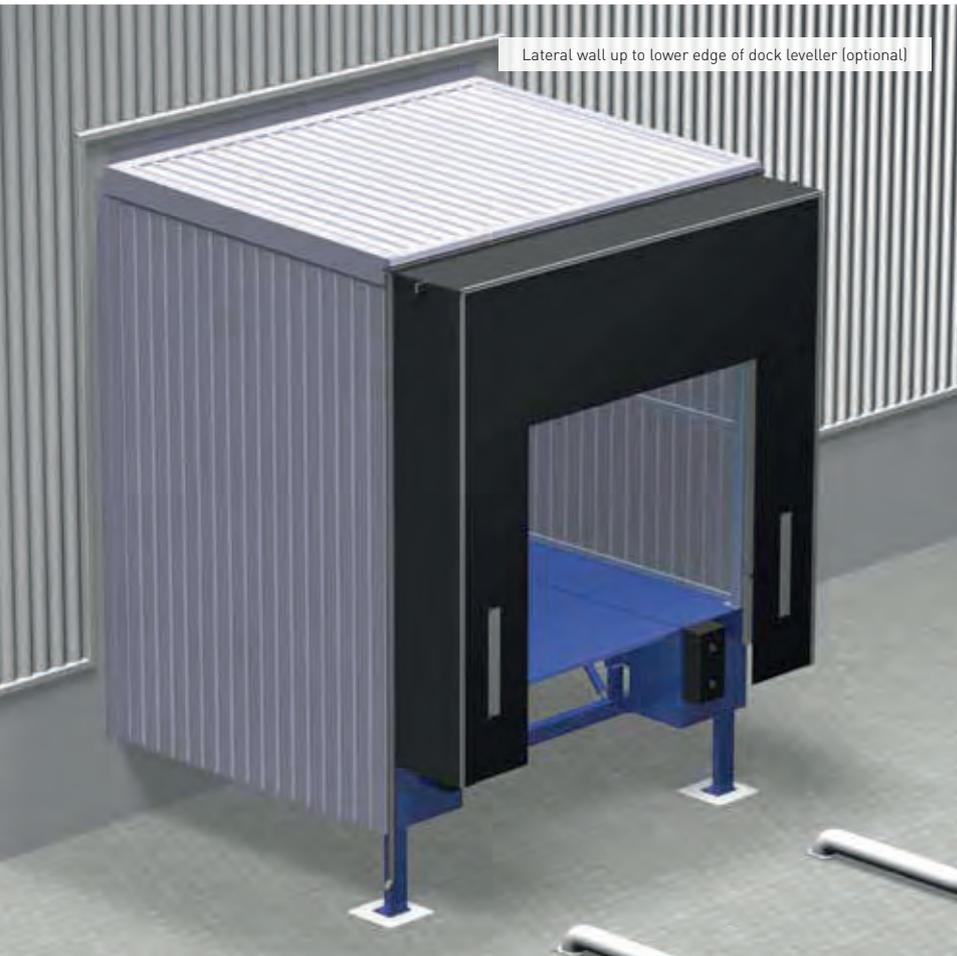
5010	7016	9005
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RAL standard colours of dock levellers



Aluminium lip L150

NovoDock H100



Load houses for platform systems

The NovoDock H100 presents you with a variable concept for the use of telescopic lip and hinged lip dock levellers. The loading module can be given an in-line or angled structure where space is limited and offers additional storage space within the building.

Product benefits

- Retrospective installation to existing loading bay
- Reduction of energy consumption for heated warehouses
- Simple site assembly and minimal disruption during installation
- Flexible forms of enclosure
- Robust steel construction
- Green solution product
- Different angles of attack
- Design as a series system possible
- Adaptation to structural conditions possible

The NovoDocks P1530 or P1320 serve as a basis for the NovoDock H100.



Angled design



Construction types of loadhouse

Type Standard: Cladding with trapezoidal metal sheet up to upper edge of steel platform, precoated

Type ISO: Cladding with 40 mm ISO panel up to upper edge of steel platform, precoated

RAL standard colours of the cladding (inside)

9002

RAL standard colours of the cladding (outside)

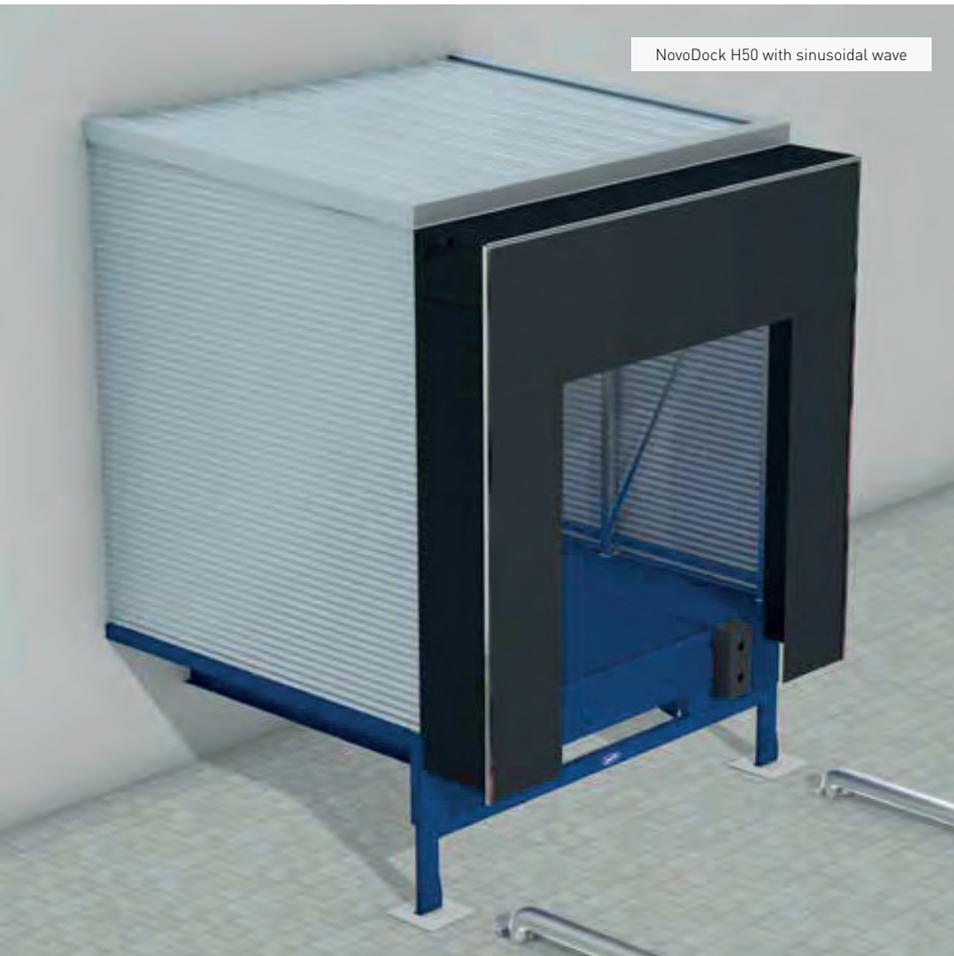
9002

9006

For further information on the built-in dock levellers please refer to pages 20 (NovoDock P1530) and 27 (NovoDock P1320).

For further technical data on dock levellers in a steel frame, please refer to pages 54–56.

NovoDock H50



Load houses for platform systems

The H50 presents you with a variable concept for the use of telescopic lip and hinged lip dock levellers. The load house offers additional storage space within the building.

Produktvorteile

- Retrospective installation to existing loading bay
- Reduction of energy consumption for heated warehouses
- Simple site assembly and minimal disruption during installation
- Flexible forms of enclosure
- Robust steel construction
- Transport optimized solution

The NovoDocks P1530 or P1320 serve as a basis for the NovoDock H50.

The NovoDock H50 is only available as 90 degree version. The cladding made from ISO panel are attached horizontally. Due to the modular design, the NovoDock H50 also offers transport cost benefits.



Construction types of loadhouse

Type Standard: Cladding with corrugated metal sheet as sinusoidal wave up to upper edge of steel platform, precoated

Type ISO: Cladding with 40 mm micro profiled ISO panel (M16 micro lined) up to upper edge of steel platform, precoated

RAL standard colours of the cladding (inside)

9002

RAL standard colours of the cladding (outside)

9002

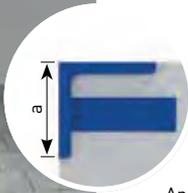
9006

9002

9006

7016

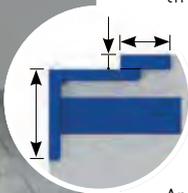
Installation methods



AX/AZ – Replacement solution for welding

In this method, the dock leveller is supplied with a flat-bar steel frame which is then welded to the steel profile available in the hall floor. This option is optimally suited for replacement dock levellers whereby the frame of the old dock leveller can remain in the floor. In most cases, replacement can be effected within one day.

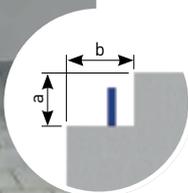
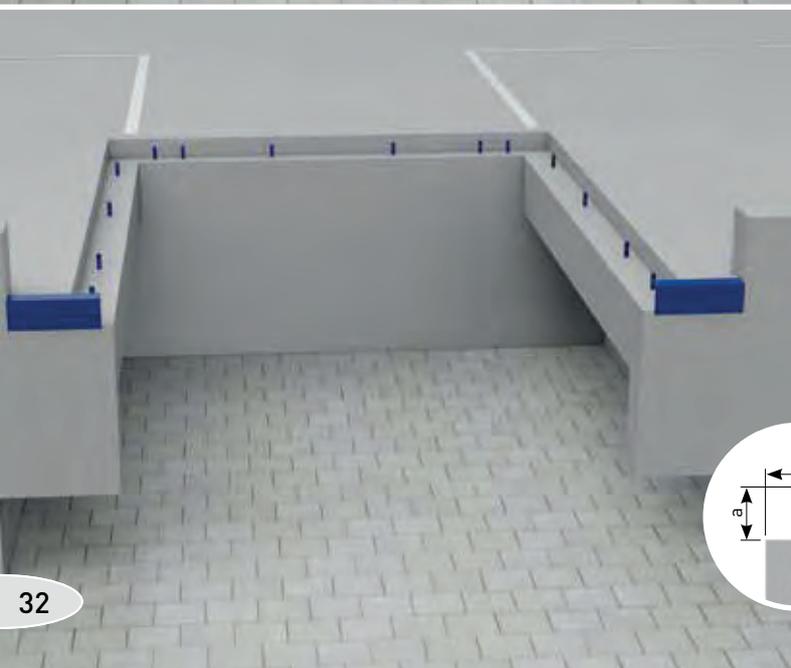
Angular steel $a = \text{min. } 100 \text{ mm}$



BX/BZ – Precast frame for welding

The dock leveller is supplied with an angle frame whose leg is then inserted into the so-called preframe where it is then welded. This preframe consists of an angle with superimposed flat-bar steel which is inserted in the base plate before casting. The preframe can optionally be supplied by Novoform for on-site installation. This option is preferred to be able to complete the hall floor independently from the dock leveller. The dock leveller can then be supplied and installed at another point in time.

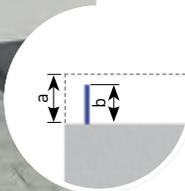
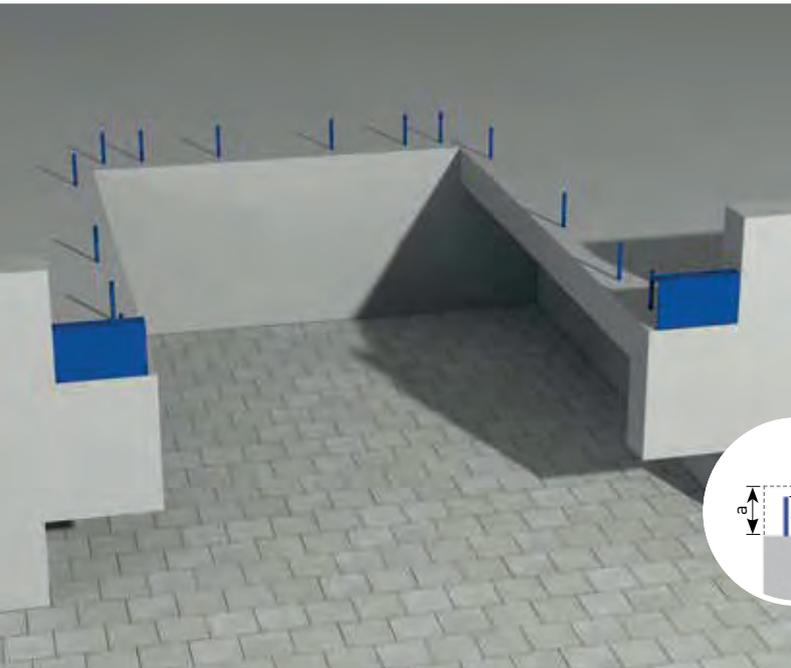
Angular steel according to the pit drawing



CX/CZ – Dock leveller frame for concrete-casting

In this variant, there are wall anchors attached to the dock leveller frame which are welded to the on-site concrete steel dowels before being concrete-cast. In this option, the pour height is max. 110 mm. The advantage of this option is the easily realised pit. In addition, the hall floor can be fully completed with the exception of the circular groove.

$a = 100 \text{ mm}, b = 150 \text{ mm}$



DX/DZ – Dock leveller frame for higher concrete-casting

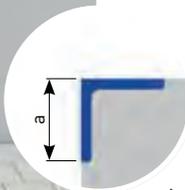
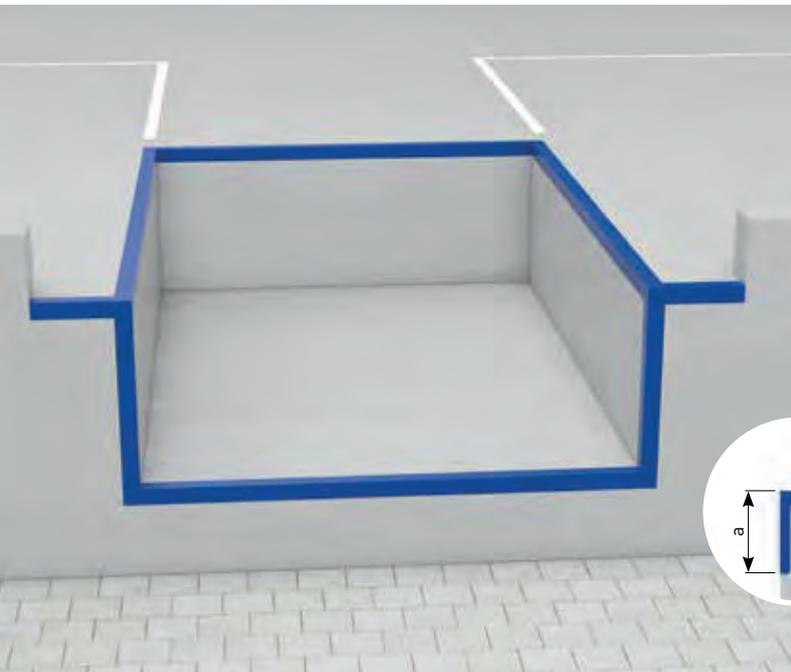
This model is very similar to the previously described method CX/CZ; the only difference is the pour height. The increased frame is supplied with lateral and back jack screws. In this variant, floor constructions of 100 - 250 mm can be covered. This method is frequently used for large quantities and for the use of concrete finished parts.

a = 100 up to 250 mm (pour height)



EX/EZ – Box Model for concrete-casting

In this option, the dock leveller is designed as a box closed on three sides. This box is fixed to the floor, connected with reinforcement and then serves as form-work. In this very simple method, the dock leveller is already supplied and installed in the early construction phase, making the labour-intensive preparation of a pit superfluous. Due to its simplicity, this method is now frequently used in the case of upgrades of dock levellers in existing buildings and finished floors.



FX/FZ – Pit model as standing model

In this model, the dock leveller is welded to the steel profiles available in the pit floor in the front area. The dock leveller leans on the pit floor and/or in the case of a tail lift recess of the dock leveller on a wall pedestal in the back area. Three sided circular edge protection angles in the floor are recommended as pit lining. This variant is frequently used for replacement without tail lift recess.

Angular steel a = 50 mm, s = 5 mm

GZ – Replacement solution for welding

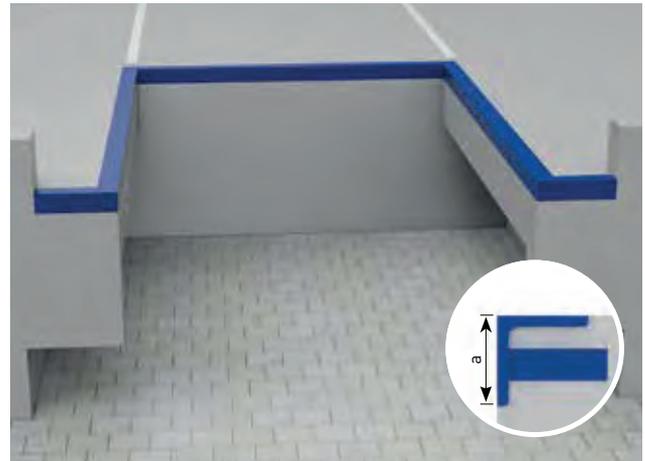
Simple and quick replacement

Thanks to the new GZ framework variant, the exchange of an existing dock leveller can be carried out in the shortest time.

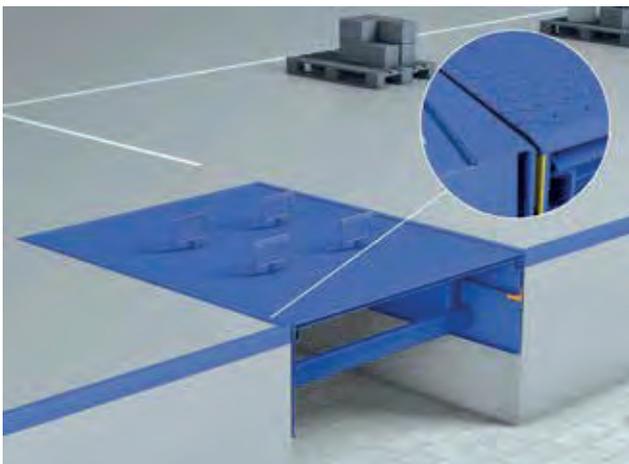
The angular frame at the sides is first positioned on the existing steel framework, where they are fixed in place by welding after adjustment. The flat steel frame at the back provides a smooth transition, from the floor of the warehouse to the new dock leveller.

Product advantages

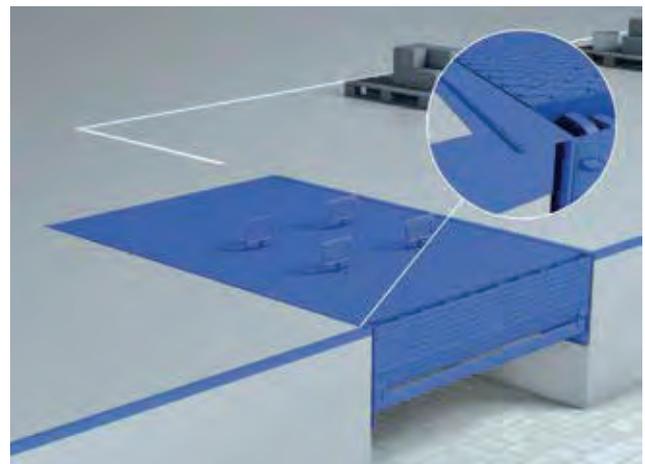
- Simple adjustment
- Bridges dimensional tolerances
- No "underpinning" with sheet metal plates required
- No air gaps in the framework at the sides



GZ – a welded replacement solution as a basis.



The NovoDock L530R with telescopic lip and GZ frame.



The NovoDock L320R with hinged lip and GZ frame.



Rear detail NovoDock L530R

Exchange solutions

Replacement in the shortest time possible

If the repair of a dock leveller should no longer make sense, and if an exchange for a new dock leveller should be required, then a replacement only takes a few hours. Daily loading operations will not be disturbed that way.

Replacement of a dock leveller

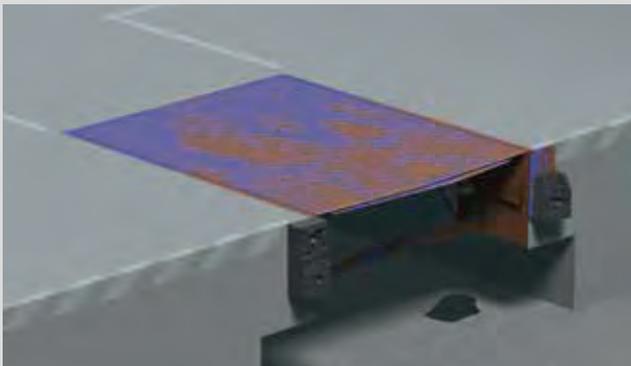
- Short delivery times
- Short reconstruction time
- No concrete works required
- Available from stock in standard sizes

Advantages of a new dock leveller

- Higher automation
- 70 % lower energy consumption (option)
- Newest state-of-the-art technology

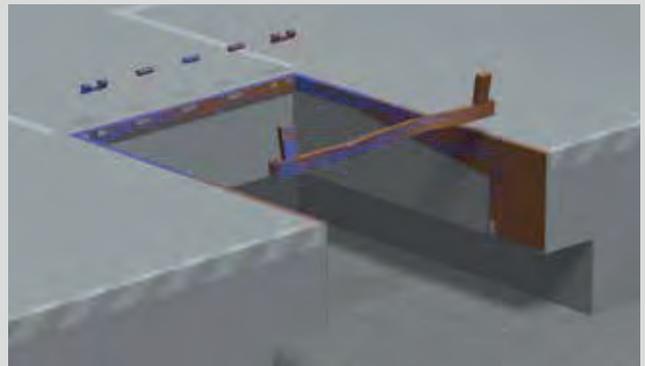
Flexible and many-sided solutions, for all types of specifications, make Novoferm a reliable partner – always just that one idea ahead!

Exchange in 4 steps



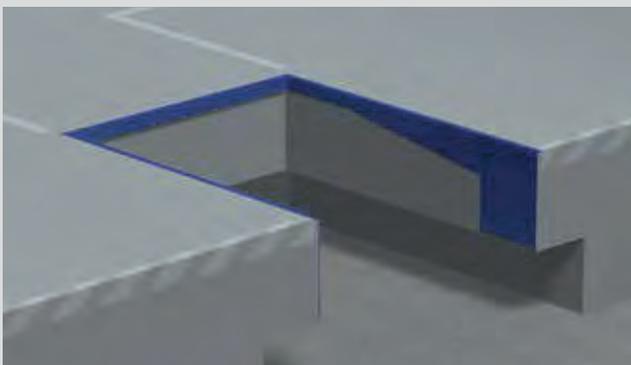
Step 1

Removal of a defective dock leveller, ensuring that corresponding safety measures are observed.



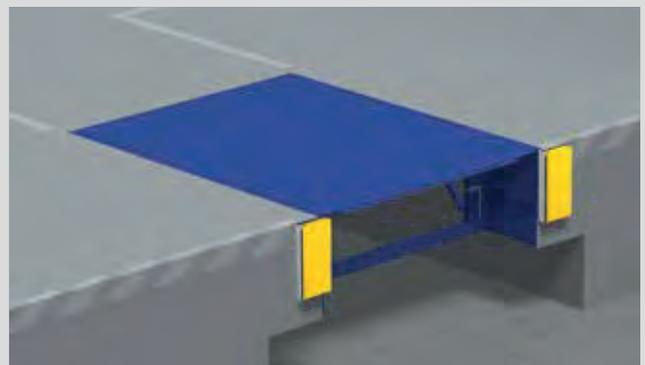
Step 2

The back hinge and possibly installed steel components must be removed.



Step 3

If required, the existing frame has to be reworked, including possible rust removal and paint works.



Step 4

Positioning of the replacement dock leveller, proper alignment and subsequent attachment to the existing frame by welding.

Loading bay design



NovoDock L730i: The ideal ISO loading bay



Standard design

Overview dock shelters



NovoSeal S620



NovoSeal S620 in non-inflated condition



Inflatable dock shelter with modular structure

As part of the integrated loading solution, NovoSeal S620 is automatically actuated.

After actuating the door OPEN switch, the air bags of the NovoSeal S620 are first inflated, and then the door opens automatically. At the end of the loading process, the dock leveller is first driven into resting position with the AutoDock function, then the door is closed, a possibly connected dock light is switched off, the NovoSeal S620 is vented, and an exterior traffic light switches to green.

This automatic sequence increases efficiency, saves energy costs, and prevents possible damage caused by removing the lorry too early while the air bags are still inflated.

Product benefits

- Air bags made from PVC or especially supple Cordura®
- Perfect sealing
- Energy-saving
- Twin motors for fast and safe inflating
- Integrated elements of the loading solution



NovoSeal S420



Collapsible aluminium dock shelters

Novoform dock shelters with collapsible design protect against draughts, rain, and wind. They ensure perfect sealing between lorry and building and protect against energy loss and possible damage to the goods. The built in rain water channel deflects water from the roof to the outside of the shelter.

Product benefits

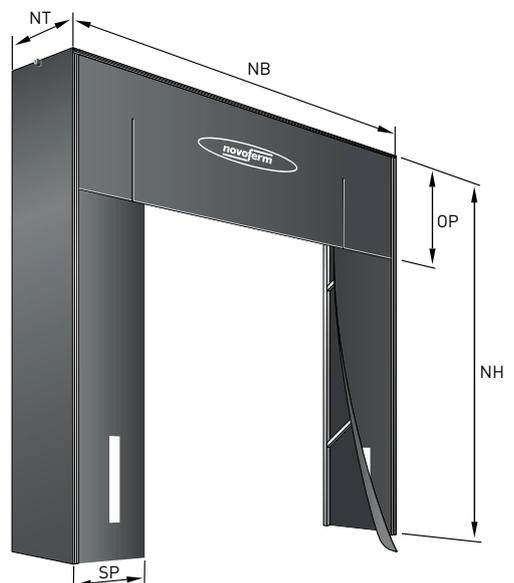
- Rain water channel on the side inside
- Flexible roof construction
- Aluminium frame construction
- No visible screws on front side
- Designed for universal use
- Spring-back frame
- Bracing arms made of galvanized steel



Pads (optional)



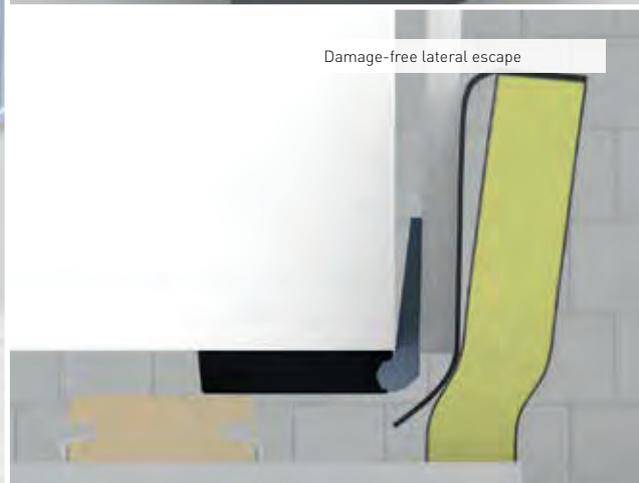
Bumpers (optional)



For further information on our dock shelter NovoSeal S420, please refer to Novoform product data sheets.

For further technical data on dock shelters, please refer to pages 52–53.

NovoSeal S260



Dock shelter with ISO foam core

Novoferm dock shelters with push-in projection protect against draughts, rain, and wind. They provide perfect sealing between lorry and building and protect against energy loss and possible damage to the cargo. The side parts have neither arms, handlebars, hinges or leverage in the side parts – the dock shelters are practically “indestructible”. The ISO foam core side parts also move to the side without causing any damage in the case of staggered or oblique starting-up vehicles absolutely regardless of the roof part.

Product benefits

- Long service life thanks to ISO foam core
- Push-in frame
- Universally usable
- Superior sealing/insulation through ISO core side parts
- Independent adjustable roof section
- No visible screws on front side
- Flexible side parts reduce damage

NovoSeal S220 and S401



NovoSeal S220 Sealing pad

Sealing pads offer protection from draughts, rain and wind. They provide perfect sealing between lorry and building and protect against energy loss and possible damage to the cargo.

- Excellent sealing system for narrow doors and standardised vehicle fleet
- Watertight welded covers
- Vertical pad guide stripes
- Different pad shapes possible



NovoSeal S401 Niche seal

The NovoSeal S401 enables a continuous building front due to being directly inserted into the recess of the building. As a result, the appearance of your system is definitely improved.

- 3 mm thick PVC curtains with high restoring force for perfect sealing
- Installation in on-site front building on Halfen® cast-in channels or with angle sections

NovoSeal VS250 – For Cross Docking

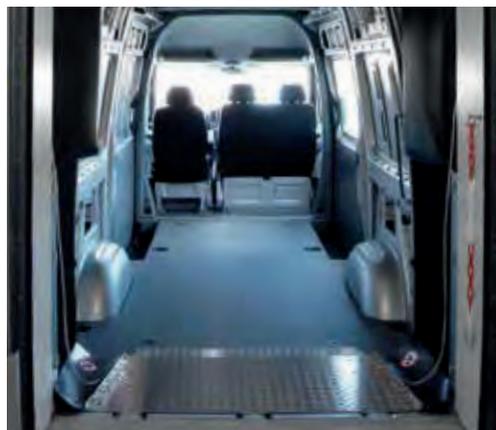


Custom dock shelter with adjustable horizontal pad

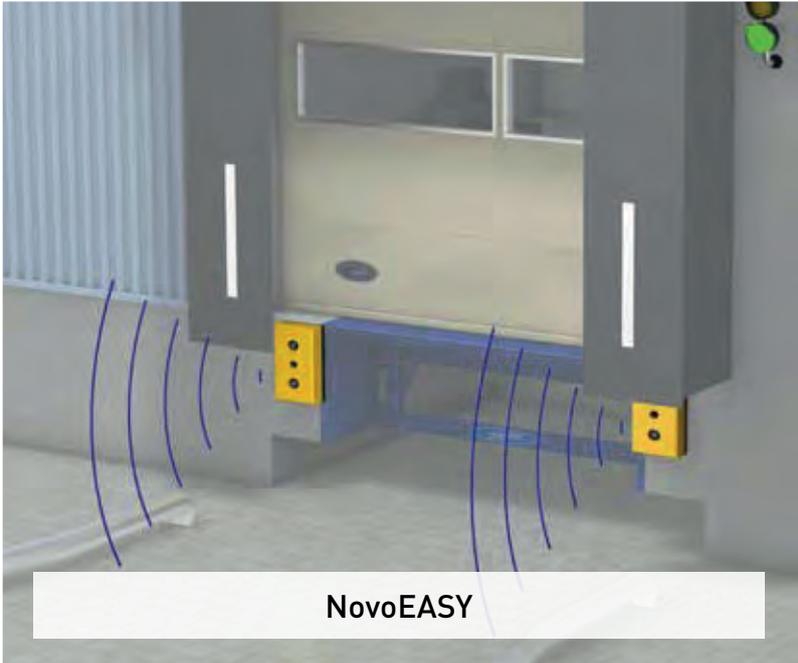
Due to the strong increase in Internet trading, the need for vans in city centres is rising fast. In most cases, these parcels must be handled with great care. At the same time, the multitude of different vans with varied contours and different door hinges pose a special sealing problem. The NovoSeal VS250 can optimally fulfil such requirements.

Product benefits

- Especially developed for vans
- Manually adjustable horizontal pads
- Lamella pads for perfect side sealing
- Ideal for CrossDocking



Overview accessories



Buffer systems

Calematic SC und DC

System extension
Calematic DC



Product characteristics

- Easy operation and handling
- Facilitates safe and easy docking of the truck
- No obstructive fittings that can interfere or become damaged
- No functional problems, even with modern trucks
- Extremely low maintenance costs
- Component of the overall loading solution, including door and dock leveller



Calematic DC

HGV restraint systems sustainably reduce the risk of accidents at the loading bay. The new Calematic DC is an advancement of the Calematic system that has been proven over the course of decades. On top of the already established advantages, the new system offers increased security in the loading process, at a lower overall cost.

The following risks of accidents are prevented by the use of the Calematic System:

Risk of an **early departure** as there is no communication between the loader and HGV driver.

Risk from the **HGV moving**, caused by the forklift constantly driving into the vehicle. The HGV is constantly moved forwards until the support surface of the dock leveller is no longer sufficient, and it slips from the vehicle.

Structure

The Calematic System is designed in such a manner that it can be used everywhere: in new constructions as well as at existing loading bays. Thanks to the flat installation recessed in the courtyard ground, damage to the vehicle is avoided when manoeuvring. The system is easy to clean and contamination will not lead to failure. Calematic can be used under all weather conditions.

Calematic SC (single chock)

Standard equipment

- 1 row with 8 wheel chocks
- 6 cover plates in 1/2 sizes
- Active operation
- Concrete frame
- Compressed air operated wheel chocks

Options

- 2 rows with 5 wheel chocks
- 2 rows with 6 wheel chocks
- Automatic operation
- Additional traffic light display

Calematic DC (double chock)

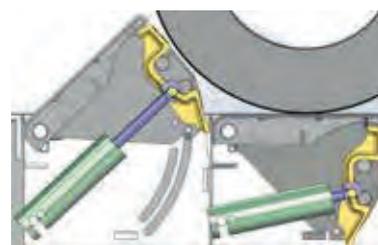
Standard equipment

- 1 Row with 5 double wheel chocks
- 9 cover plates in 1/2 sizes
- 2 cover plates in 3/4 sizes
- Active operation
- Concrete frame
- Compressed air operated wheel chocks

Options

- Version with 6 wheel chocks
- Automatic operation
- Additional traffic light display
- The use of wheel guides is recommended

Function sequence



The Calematic System is environmentally friendly and maintenance-free thanks to the wheel chocks operated using compressed air.



Calematic SC



Loading system with Calematic SC

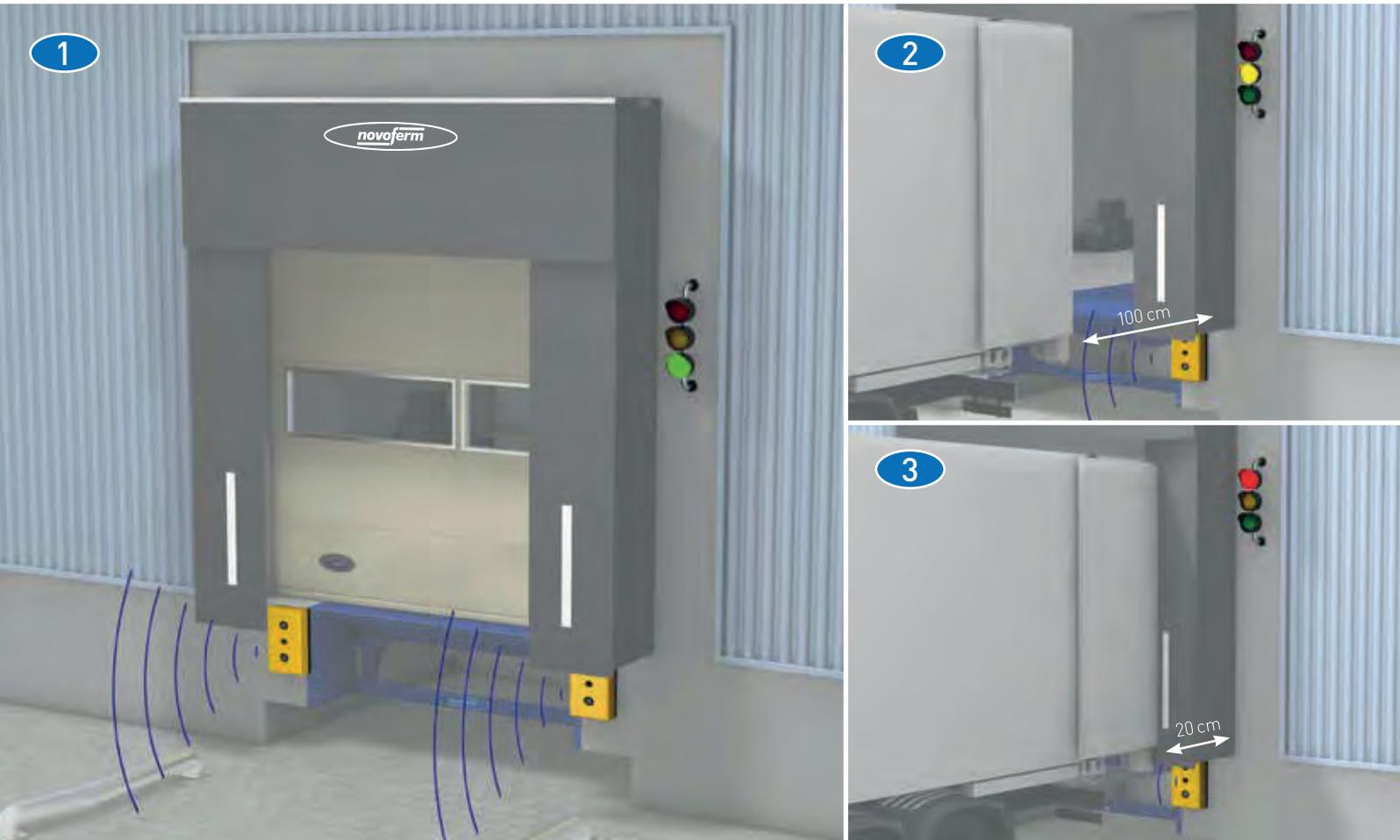


Calematic DC



Calematic DC in use

NovoEASY – Electronic Drive System



Electronic Drive System with sensor and traffic lights

The ideal drive protection ensures that the lorry already stops before the buffer. Thus damage to the building, the lorry, and even the drive buffer are prevented. The NovoEASY supports the lorry driver in the easiest possible way. The sensors, which are protected in a yellow drive buffer made of high-performance plastic, measure the interval between the lorry and the loading ramp and inform the driver via a display element (e. g. traffic lights).

Product benefits

- High-performance plastic buffers in signal yellow
- Distance measurement (Lorry – Building) with display via exterior traffic lights
- Trouble-free function for almost all truck versions. Adoptions may be necessary for swap bodies.
- Reset button by default

Designs (mm)
500 x 250 x 130 Nytrex F513 buffer
1 sensor, LED traffic lights red/yellow/green
2 sensors, LED traffic lights red/yellow/green

NovoEASY facilitates loading in three steps

Step 1

The lorry is still at a distance from the loading bay: The traffic light is green.

Step 2

The lorry is approx. 100 cm before the loading bay: The traffic light switches to yellow. The driver shows increased levels of attentiveness.

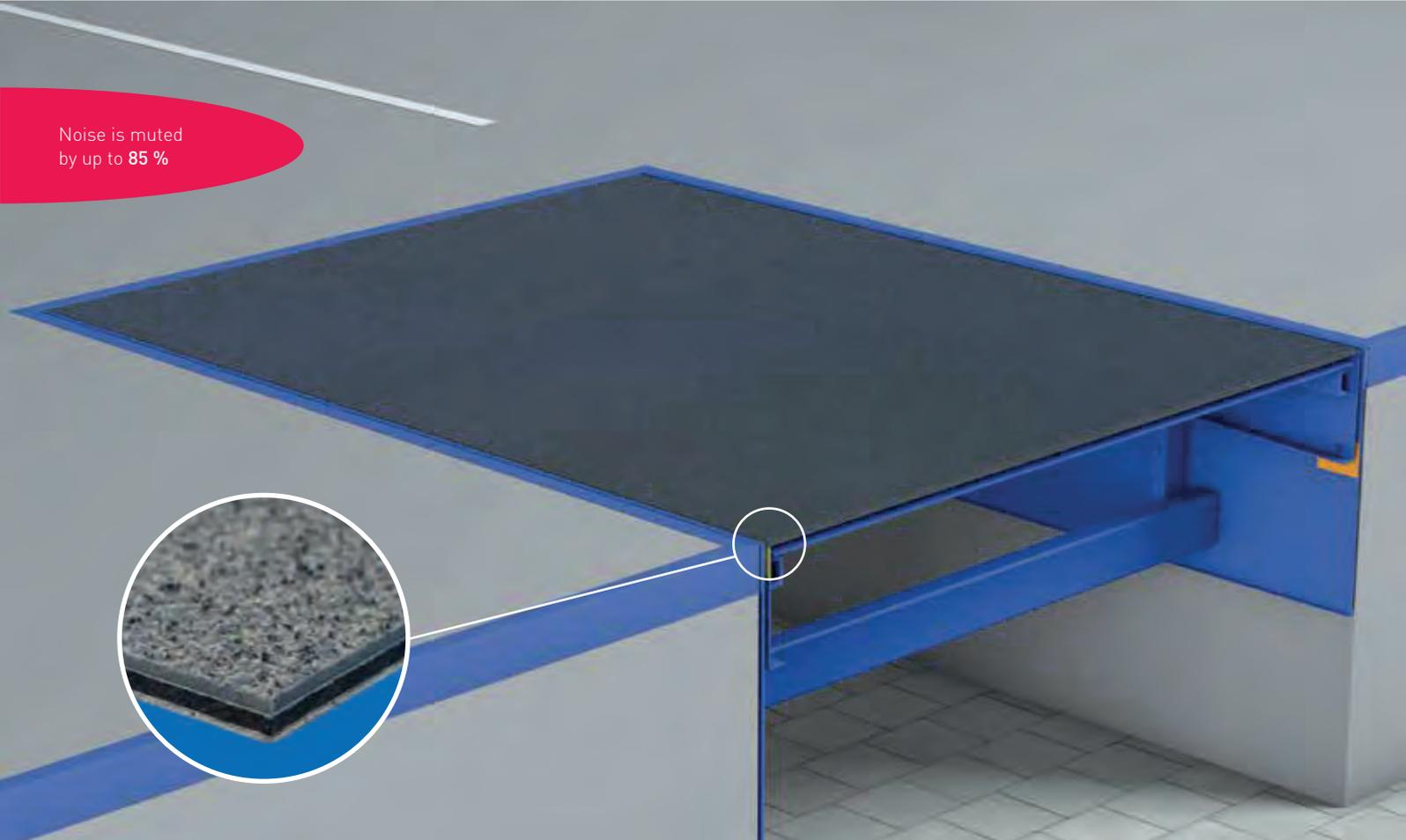
Step 3

The lorry is 20 cm away from the loading bay, just before the buffer: The traffic light switches to red. The driver stops the vehicle.

Evaluation		
Building protection	★★★★★	Overall rating: 25
Durability	★★★★★	
Spring deflection	★★★★★	
Life Cycle Cost	★★★★★	
Visibility	★★★★★	

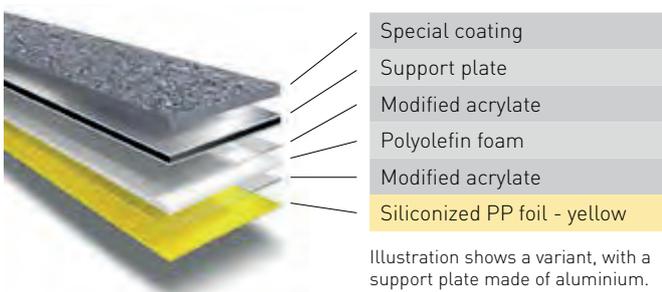
NC Silence Plus

Noise is muted
by up to **85 %**



The new generation of anti-noise solutions on dock levellers

- Massive noise reduction of up to 85 % (25 dB), for improving working safety, tested by TÜV Rheinland
- Excellent anti-slip safety (R12), tested by the professional association according to DIN 51130
- Amortisation in just a few months, while making permanent cost reductions in loading operations possible
- Simple relocation in less than 1 hour, thereby preventing any relevant downtimes during operations
- Can be attached to all loading surfaces
- High cost-effectiveness due to
 - Reduction of noise under threshold values, possibly leading to a reduction of noise protection requirements, wage supplements etc.
 - Protects dock levellers and industrial trucks
 - High load-bearing capacity, temperature and chemical resistance, as well as low wear-and-tear
- Tested by DEKRA, TÜV, BG and 3G



- Special coating
- Support plate
- Modified acrylate
- Polyolefin foam
- Modified acrylate
- Siliconized PP foil - yellow

Illustration shows a variant, with a support plate made of aluminium.

Feature	Property
Noise reduction	Up to 25 dB (-85 % noise pollution)
Friction coefficient	> 0,6 µD (even under wet conditions)
Slip resistance (R class)	R12
Thickness	Approx. 7 mm
Dimensions (length x width)	2.000 mm x 1.000 mm 2.500 mm x 1.000 mm (special assembly on request)
Surface weight per m ²	21 kg
Shore hardness (A)	> 83 A
Colour	Black
Taber abrasion test (CS17 Rad)	19,4 mg/1000 U
Taber abrasion test (H18 Rad)	257,6 mg/1000 U
Low-temperature elasticity (< -40 °C)	No superficial cracks
Resistant to chemicals	Resistance against de-icing salts, diesel fuel and automotive oils
REACH Ordinance	The current requirements on the REACH Ordinance are observed.

Nytrex Trailer Plates and Novo Safety Jack



Nytrex Trailer Plates – Permanent surface protection in the loading zone

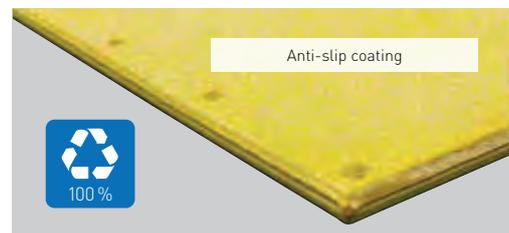
The Nytrex trailer plates guard against damage to concrete, bitumen or pavement surfaces, thus preventing expensive repairs in the loading bays.

Available with fastenings to or into the floor, suitable for concrete, bitumen or pavement surfaces.

Product benefits

- Nytrex high-performance plastic in signal yellow
- Suitable for high loading frequency
- Optional with anti-slip coating

Nytrex Trailer Plates designs (mm)
Standard sizes:
2000 x 1000 x 16
1000 x 1000 x 16
1000 x 500 x 16
Non standard sizes readily available.



Novo Safety Jack – Telescopic loading support

The Novo Safety Jack helps increasing safety during the loading and unloading of trailers/semi-trailers with up to 40 t total weight. This can effectively prevent tilting of the semi-trailer. According to BGI 582 and BGI 603, additional securing during loading and unloading is strongly recommended by trade associations.

Product benefits

- More safety during loading and unloading processes
- Extra wide massive steel construction with large base plate
- Extra large cross beam
- Height-adjustable
- Adjusting by gas pressure spring
- Ergonomically-shaped grips for easy handling
- TÜV-certified

Technical data	Safety Jack
Length	550 mm
Width	760 mm
Height	1020 – 1340 mm
Weight	70 kg
Cross member	760 x 120 mm
Base plate	470 x 425 mm
Air-filled wheels	Ø 380 mm

Further accessories



Set of traffic lights

Traffic lights provide a visual warning to the driver and the loading bay operatives to indicate whether the bay is ready for docking or not.

The most common system used is traffic lights with individual (Red and Green) signal lights.

The two types of lights that are available are illuminated by LED light bulbs. LED lamps are much cheaper to maintain and far superior in quality and long life expectancy. In addition, LED lights provide significantly greater illumination even during periods of bright sunshine. The functions of the traffic light systems are agreed individually with the building users.



Safety wheel chocks

Safety wheel chocks ensure that Lorries remain static on the loading bay. However, a standard mechanical lorry safety chock only offers very limited safety assistance.

For this reason, electronic safety wheel chocks that are connected and interlocked electrically to the door and dock leveller is used. The dock leveller can only be operated once the safety wheel chock rests against the wheel.

A position sensor in the safety wheel chock ensures the dock leveller is safe to use. It is essential where applicable to also interlock the safety wheel chock to the traffic light system that visually indicate to both the lorry driver and loading bay operatives of the actual loading status.



Dock lights

When a lorry is docked against the loading bay ready to be loaded or unloaded, the rear of the trailer is always poorly lit making it difficult for the operative to see inside the trailer which can make the loading very difficult. The Novoferm articulated angle poised Dock Light is the ideal solution. It is very easy to install adjacent to the inside of the docking doorway and illuminates the inside of the trailer fully by simply positioning of the articulated swivelling mounting arm.

- Design with 30-watt LED floodlights



Trailer wheel guides

Another aid to prevent damage when docking are trailer wheel guides. In most cases, they consist of zinc-coated steel tubes that are mounted on the floor in pairs on each the loading dock approach. The lorry is thus steered and guided into the right position. If the lorry collides with the wheel guides, this is a clear sign to alert the driver that he is not positioned correctly.

Thus trailer wheel guides help prevent frequent damage to the dock shelters. Unloading is made easier thanks to a correctly positioned lorry.

Buffer systems

Different loading situations necessitate different buffers. A determining factor is the right solution for the customer. For this purpose, Novoferm provides a broad range of different systems. Four different criteria are used as a decision aid. As a matter of principle, the more stars a model achieves in one of the criteria, the higher the quality of the product is going to be.



Rubber buffers

New rubber buffer

- High-quality new rubber compound
- Especially abrasive-resistant and hard wearing
- Spring deflection up to 20 mm



Steel buffers

with inside rubber core

- Spring deflection up to 80 mm
- Wear-free
- Galvanized



NovoLift

Height-adjustable buffers

- No limitations when loading swap bodies
- Multiple use 2D
- Length of stroke 250 mm
- Lasts 7-10x longer than rubber
- Suitable for high loading frequency



Nytrex F

High-performance Nytrex buffer in signal yellow

- Lasts 7-10x longer than rubber
- Suitable for high loading frequency



NovoSlider

The unique design

- Nytrex high-performance plastic in signal yellow
- Height-adjustable front part
- Spring deflection up to 25 mm
- Lasts 7-10x longer than rubber
- Suitable for high loading frequency



NovoSlider L

No limitations when loading swap bodies

- Nytrex high-performance plastic in signal yellow
- Height-adjustable front part
- Spring deflection up to 25 mm
- Lasts 7-10x longer than rubber
- Suitable for high loading frequency

Product evaluation

Building protection: Indicates to what extent the respective solution protects the building from impact damage.

Durability: Information on relative durability in the case of correct use.

Spring deflection: The longer the spring deflection of the buffer is, the more likely damage to the vehicle and building is going to be prevented.

Life Cycle Cost: In addition to material expenses, the cost for the replacement of worn buffers and their durability is also included in the cost evaluation.

Visibility: The latest evaluation criterion is the visibility of the buffer for the lorry driver. Because the current products were almost always black, both rubbers and steel buffers, there was no differentiation criteria. This has changed with the development of the Nytrex buffer. The yellow signal colour presents considerable advantages over the other systems; hence this criterion has now been included in the evaluation.



Nytrex part is rotatable and thus doubly usable.



Nytrex part is rotatable and reversible and thus quadruple usable.

Item	Design (mm)	Recommended loading frequency	Building protection	Durability	Spring deflection	Life Cycle Cost	Visibility	OR	
Rubber buffers	400 x 80 x 70	low	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	7	
	250 x 250 x 90 or 250 x 250 x 140	low	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	8	
	500 x 250 x 90 or 500 x 250 x 140	low to medium	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	10	
Steel buffers	AZPK	500 x 250 x 140 or 800 x 250 x 140	high	★★★★★	★★★★★	★★★★★	★★★★★	20	
		TwinSet 800/500 500 x 250 x 140 and 800 x 250 x 140	high	★★★★★	★★★★★	★★★★★	★★★★★	20	
	AZJ	500 x 250 x 210 or 800 x 250 x 210	high	★★★★★	★★★★★	★★★★★	★★★★★	21	
		TwinSet 800/500 500 x 250 x 210 and 800 x 250 x 210	high	★★★★★	★★★★★	★★★★★	★★★★★	21	
Item	Design (mm)			Building protection	Durability	Spring deflection	Life Cycle Cost	Visibility	OR
NovoLift	600 x 250 x 140	✓		★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	20
Nytrex F	500 x 250 x 80 or 750 x 250 x 80	✓		★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	20
	500 x 250 x 130 or 750 x 250 x 130		✓	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	20
	TwinSet F7508 750 x 250 x 80 and 500 x 250 x 80	✓		★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	20
	TwinSet F7513 750 x 250 x 130 and 500 x 250 x 130		✓	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	20
	500 x 280 x 100 or 750 x 280 x 100	✓		★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	24
NovoSlider	500 x 280 x 140 or 750 x 280 x 140		✓	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	24
	TwinSet 7510 750 x 280 x 100 and 500 x 280 x 100	✓		★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	24
	TwinSet 7514 750 x 280 x 140 and 500 x 280 x 140		✓	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	24
	750 x 280 x 100			★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	24
NovoSlider L	750 x 280 x 140	✓		★★★★★	★★★★★	★★★★★	★★★★★	24	

Dock shelters



		Product characteristics	S620	S420 S420e
Standard dimensions (in mm)	Width (NB)		3400	3250, 3450 3450
	Height (NH)		3500 / 4700 (Road model)	3200, 3400, 3600 3400
	Depth (NT)		800	● 600 / ○ 900 [S420]
	Side curtain width (SP)		600 (Side bag)	600 (NB 3250), 700 (NB 3450) 600
	Top curtain height (OP)		1200 (Top bag)	1000 900
Technical data	Side curtain (PVC)		3 mm	3 mm
	Top curtain (PVC)		3 mm	3 mm
	Surface weight in g/m ²			3700
	Tear resistance according to DIN 53354 in (N/5 cm)			7000 / 5000
	Temperature resistance in °C		+80 / -30	+80 / -30
	Fire resistance		B1 - flame retardant	B1 - flame retardant
Options	Lettering or numbering on the top curtain		○	○
	Top curtain height (OP)			○ 1200
	Non-standard dimensions		○	○
	Sealing cushions or bumper		● / -	○ / ○



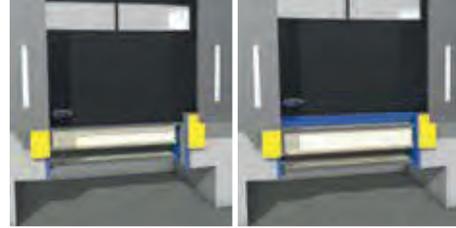


S260	S220	S401	VS250
3400	2800	3450	2170
3500	2800	3400	3000
550	300		810
600	300 (Cushions)	700	228 (Cushions)
1000	300 (Cushions)	1000	moveable
3 mm	1 mm (3 mm in front)	3 mm	0,5 mm
3 mm	1 mm (3 mm in front)	3 mm	0,7 mm
3700		3700	580
7800 / 5600		7000 / 5000	3300 / 2500
+80 / -30		+80 / -30	+70 / -30
B1 - flame retardant		B1 - flame retardant	B1 - flame retardant
○	-	○	-
○ 1200		○ 1200	
○	○	○	○
○ / ○	- / -	○ / ○	- / -

Product characteristics
Width (NB)
Height (NH)
Depth (NT)
Side curtain width (SP)
Top curtain height (OP)
Side curtain (PVC)
Top curtain (PVC)
Surface weight in g/m ²
Tear resistance according to DIN 53354 in (N/5 cm)
Temperature resistance in °C
Fire resistance
Lettering or numbering on the top curtain
Top curtain height (OP)
Non-standard dimensions
Sealing cushions or bumper



Dock levellers



Product characteristics		L730i ISO	L730i Standard
	with telescopic lip	●	●
	with hinged lip		
	ISO-Dock	●	●
Option packs	Green ^{Plus}	●	●
	Green ^{SLOD}		
	Iso ^{Plus}		
	Door ^{Plus}	○	○
	Safety ^{Plus}	○	○
	Nominal load according to EN 1398 in kN	60	60
	Nominal lengths (NL) in mm	2000, 2500, 3000	2000, 2500, 3000
	Nominal widths in mm	2000, 2250	2000, 2250
Pit depths	600 mm		
	700 mm/725 mm ¹⁾		
	800 mm/830 mm ²⁾	up to 3000 mm (NL)	up to 3000 mm (NL)
	900 mm	at 3000 mm (NL)	at 3000 mm (NL)
	Telescopic lip / hinged lip length in mm	● 700/○ 1000	● 500/○ 700/○ 1000
	Power supply	3 N~ 400 V/50 Hz/16 A	3 N~ 400 V/50 Hz/16 A
	Protection class	IP 65	IP 65
	Motor rating in kW	max. 1,5	max. 1,5
Construction characteristic	Platform tear plate in mm	8/10	8/10
	Telescopic lip / hinged lip tear plate in mm	12/14	12/14
Bridging values upwards / downwards (telescopic lip 1000 mm)	Nominal length 2000, Pit depth 600		
	Nominal length 2000, Pit depth 700 / 725 ¹⁾ /830 ²⁾	350 (400)/370 (400)	320/340 ³⁾
	Nominal length 2250, Pit depth 600		
	Nominal length 2500, Pit depth 600		
	Nominal length 2500, Pit depth 700 / 725 ¹⁾ /830 ²⁾	400 (430)/370 (370)	370/310 ³⁾
	Nominal length 2750, Pit depth 600		
	Nominal length 2750, Pit depth 700		
	Nominal length 3000, Pit depth 600		
	Nominal length 3000, Pit depth 700 / 725 ¹⁾ /830 ²⁾	340 (370)/330 (350)	310/310 ³⁾
	Nominal length 3000, Pit depth 800 / 900 ²⁾	400 (430)/370 (400)	370/350 ³⁾
	Nominal length 3500, Pit depth 800		
	Nominal length 3500, Pit depth 900		
	Nominal length 4000, Pit depth 900		
	Nominal length 4500, Pit depth 900		
	maximum admissible inclination according to EN 1398	12,5 %	12,5 %
	Control	Novo i-Vision	Novo i-Vision
	Novo i-Vision model	● TA ○ TAD	● TA ○ TAD
	Novoferm Communication Interface (NCI)	●	●
Colours	RAL 5010 (gentian blue)	●	●
	RAL 7016 (charcoal grey)	●	●
	RAL 9005 (black)	●	●
	more RAL colour shades	○	○
	galvanized	○	○

						
L530	L530R	P1530	L550i	L320	L320R	L320e
●	●	●	●			
				●	●	●
○	○	○	●	○	○	○
○	○	○				
○	○	○	○	○	○	
○	○	○	○	○	○	○
○	○	○	○	○	○	○
60	60	60	100	60	60	60
2000, 2500, 3000	2000, 2500, 2750, 3000	2000, 2440 (2500), 3000	2000, 2500, 3000, 3500, 4000, 4500	2000, 2500, 2750, 3000	2000, 2500, 2750, 3000	2000, 2250, 2500, 3000
1750, 2000, 2250, 2400	1710, 1750, 1960, 2000, 2060, 2100, 2160, 2200, 2250	2000, 2200, 2250	2000, 2250, 2400	2000, 2100, 2250	1710, 1750, 1960, 2000, 2060, 2100, 2160, 2200, 2250	2000
up to 3000 mm (NL)	up to 3000 mm (NL)			up to 3000 mm (NL)	up to 3000 mm (NL)	up to 3000 mm (NL)
up to 3000 mm (NL)	up to 3000 mm (NL)	up to 3000 mm (NL)	up to 2500 mm (NL) at 3000 mm (NL) from 3500 mm (NL)			
● 500/○ 1000	● 500/○ 1000	● 500/○ 1000	500	● 400/○ 500	● 400/○ 500	400
3 N~ 400 V/50 Hz/16 A	3 N~ 400 V/50 Hz/16 A	3 N~ 400 V/50 Hz/16 A	3 N~ 400 V/50 Hz/16 A	3 N~ 400 V/50 Hz/16 A	3 N~ 400 V/50 Hz/16 A	3 N~ 400 V/50 Hz/16 A
IP 65	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
max. 1,5	max. 1,5	max. 1,5	max. 1,5	max. 0,75	max. 0,75	max. 0,75
8/10	8/10	8/10	10/12	6/8	6/8	6/8
12/14	12/14	12/14	15/17	12/14	12/14	12/14
330 (405)/300 (315)	330 (405)/300 (315)			360/300	360/300	360/270
360 (440)/400 (435)	360 (440)/400 (435)	360 (460)/380 (430)	300/400			
						360/270
430 (500)/290 (280)	430 (500)/290 (280)			380/270	380/270	330/270
470 (540)/370 (390)	470 (540)/370 (390)	470 (590)/350 (390)	300/400			
	400 (500)/270 (270)			390/270	390/270	
	430 (530)/350 (370)					
420 (475)/270 (260)	420 (475)/270 (260)			400/260	400/260	270/270
480 (565)/400 (390)	480 (565)/400 (390)	480 (590)/400 (380)				
			370/400			
			450/400			
			450/400			
			450/400			
12,5 %	12,5 %	12,5 %	12,5 %	12,5 %	12,5 %	12,5 %
Novo SuperVision 5	Novo SuperVision 5	Novo SuperVision 5	Novo i-Vision	Novo Classic Plus	Novo Classic Plus	Novo Classic Plus
○ TA ○ TAD	○ TA ○ TAD	○ TA ○ TAD	● TA ○ TAD	○ HA ○ HAD	○ HA ○ HAD	○ HA ○ HAD
○	○	○	●	○	○	○
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
○	○	○	○	○	○	○
○	○	○	○	○	○	○



P1320	L350i	L150	L100	
				Product characteristics
●	●	●	●	with telescopic lip
				with hinged lip
○	●			ISO-Dock
				Green ^{Plus}
				Green ^{SLOD}
○	○			Iso ^{Plus}
○				Door ^{Plus}
○	○			Safety ^{Plus}
60	100	60	60	Nominal load according to EN 1398 in kN
2000, 2440 (2500), 3000	2000, 2500, 3000, 3500, 4000, 4500	1500, 1750, 2000	400	Nominal lengths (NL) in mm
2000, 2200, 2250	1750, 2000, 2250	1500, 1750, 2000	1750, 2000, 2200	Nominal widths in mm
	up to 3000 mm (NL)			600 mm
up to 3000 mm (NL)	up to 3000 mm (NL)			700 mm/725 mm ¹⁾
	at 3500 mm (NL)			800 mm/830 mm ²⁾
	from 4000 mm (NL)			900 mm
● 400/○ 500	400		300	Telescopic lip / hinged lip length in mm
3 N~ 400 V/50 Hz/16 A	3 N~ 400 V/50 Hz/16 A			Power supply
IP 65	IP 65			Protection class
max. 0,75	max. 1,5			Motor rating in kW
6/8	8/10	4/6	4/6	Platform tear plate in mm
12/14	15/17		12/14	Telescopic lip / hinged lip tear plate in mm
	250/290			Nominal length 2000, Pit depth 600
360/320	290/340			Nominal length 2000, Pit depth 700 / 725 ¹⁾ / 830 ²⁾
				Nominal length 2250, Pit depth 600
	310/270			Nominal length 2500, Pit depth 600
380/290	360/330			Nominal length 2500, Pit depth 700 / 725 ¹⁾ / 830 ²⁾
				Nominal length 2750, Pit depth 600
				Nominal length 2750, Pit depth 700
	360/270			Nominal length 3000, Pit depth 600
400/290	430/330			Nominal length 3000, Pit depth 700 / 725 ¹⁾ / 830 ²⁾
				Nominal length 3000, Pit depth 800 / 900 ²⁾
	520/350			Nominal length 3500, Pit depth 800
				Nominal length 3500, Pit depth 900
	570/350			Nominal length 4000, Pit depth 900
	620/350			Nominal length 4500, Pit depth 900
12,5 %	12,5%	12,5 %	12,5 %	maximum admissible inclination according to EN 1398
Novo Classic Plus	Novo i-Vision	Operating rod	Operating rod	Control
○ HA ○ HAD	● HAR1			Novo i-Vision model
○	●			Novoferm Communication Interface (NCI)
●	●		●	RAL 5010 (gentian blue)
●	●		●	RAL 7016 (charcoal grey)
●	●		●	RAL 9005 (black)
○	○		○	more RAL colour shades
○	○	●	○	galvanized

Further Novoferm industrial products



NovoDoor Solutions
Tore nach Maß - optimal in Design und Funktion



Sectional doors

Our large selection of different models, surface types, operating types, installation options make it possible for us to offer our customers tailored solutions. It goes without saying that we keep a close eye on all aspects, in particular relevant standards and regulations.



Rolltore aus Alu oder Stahl
Synthese aus Funktionalität und Flexibilität



Rolling doors

Our rolling doors are individual and universal door systems. They comply with all valid guidelines and standards and installation is also performed according to existing DIN regulations. Thanks to the profile design and superior transparent coating of aluminium doors, your rolling door is good promotion for your company.



NovoSpeed Solutions
Schwimmbahn für effiziente und wirtschaftliche Arbeit



NovoSpeed Solutions

High-speed doors open and close extremely fast and, in addition to optimised processes, ensure constant temperatures in production halls and workshops. These door systems enable you to use existing potentials and reduce your overheads! High-speed doors are available in many different designs and custom sizes.



NovoPorta Premio
Die Türegeneration für alle Anforderungen.



Steel doors

We offer a wide range of modern fire protection and multi-purpose doors. Our strength lies in the provision of complete bespoke solutions, which are tried and tested while being innovative at the same time. We make our products in accordance with the latest technical developments, and in this respect, we do not only meet high quality requirements, but we also combine an extensive functionality with an attractive design.



Feuer- und Rauchschutz-Schiebetore und Feuerschutz Hub- und Schiebeklappen
Geprüfte Sicherheit für Brandschutzabschlüsse im Industrie- und Gewerbebau



Fire protection sliding doors

Novoferm fire protection sliding doors close automatically and prevent fire penetration through openings in the walls. They persuade through their operating characteristics and attractive look. Thanks to the shipping and installation friendly modular construction, large-size doors can also be realised.



Feuer- und Rauchschutzabschlüsse in Profilrahmenkonstruktionen
Tür- und Wandelemente für transparente Strukturen



Tubular frame doors

The glass frame constructions persuade through their elegant look and numerous design and combination possibilities. Door and wall elements are available in steel and aluminium. Fire protection elements are also available in stainless steel. Thermally insulated elements can be supplied in steel.



Novoferm. Your local supplier. Across Europe.

The Novoferm Group is one of the leading European system providers of doors, gates, frames, drives and loading equipment. We provide a broad range of product and services for private, commercial and industrial use. All our products are made according to the highest quality standards and comply with the latest technological developments. In so doing, we combine maximum functionality with an innovative design. We have production facilities in various locations, and no matter where you are, we are always there for you thanks to our Europe-wide distribution network.

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Intelligent Door Solutions