



Novoferm Docking Solutions

Intelligent solutions for safer material movement





Efficient and safe solutions

Novoform 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.

Novoform Docking Solutions – Superior quality in product and service



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Your requirements – Our solutions

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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.


Novoferm protects the environment

In 2009, Novoferm endorsed the "Green Solutions" Group Charter, thus committing itself to reduce CO₂ emissions during the course of production, delivery, installation and maintenance.



www.novoferm.de

Efficient Solutions



All NovoDocks are supplied with certificates of energy performance.

Added value thanks to intelligent solutions

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.

Maximum occupational safety factors and ergonomics

The flush joint between the main deck and the telescopic lip of the NovoDock L 500i and P 1500i reduces jolts and back strain during repetitive tasks, thus actively contributing to improvements in health and safety at work as standard.

Protection of the vehicle fleet

Reduced wear and tear on the forklift and pallet trucks used in loading operations, means lower maintenance costs and helps residual values.

Smoother passage of goods during loading and un-loading operations.

Whether it is food produce or electrical goods, both need to be handled with care. With the flush joint between the main deck and the telescopic lip, the risk of damaging goods is reduced to a minimum. Goods are optimally protected.

Novoferm Efficient Solutions – The decisive difference



Green Solutions



Novoform Green Solutions – Saving with a clear conscience

Energy saving using the latest technology

Thanks to the active energy-saving mode in the 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 Novoform top in this development.

Optimal corrosion protection

All surfaces are blasted after welding to create the best possible foundation for the coating process. The coatings used is in compliance with the Decopaint Directive (VOC).

Novoform 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.

- Use of bio oil and environmentally friendly paint
- Energy saving mode – up to 70 % less power consumption
- RoHS-compliant control and components
- Standard on NovoDock L 300i, L 350i, L 500i, L 550i, P 1300i and P 1500i



Ergo^{Plus}

In addition to protecting the health of your employees and the goods to be transported, this pack also reduces costs for forklift trucks through lower tyre wear.

- The flush joint between the main deck and the telescopic lip reduces jolts and back strain during repetitive tasks, thus actively contributing to improvements in health and safety at work as standard.
- Indicator LED displays on control panel
- Noise and cost reduction
- Standard on NovoDock L 500i and P 1500i



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
- Twin gap sealing
- 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 chock – reduce the risk of accidents.

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



Warranty^{Plus}

High-quality components and a superior painting process make it possible to extend the warranty period and save you unforeseen repair costs.

- 2-year full warranty
- 5-year warranty on construction
- Short reaction times

i-Vision control



i-Vision TAD (Option)



i-Vision TA



i-Vision HA/HAD (Option)

Basic conditions for efficient loading

The 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.

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 i-Vision TAD (Option)

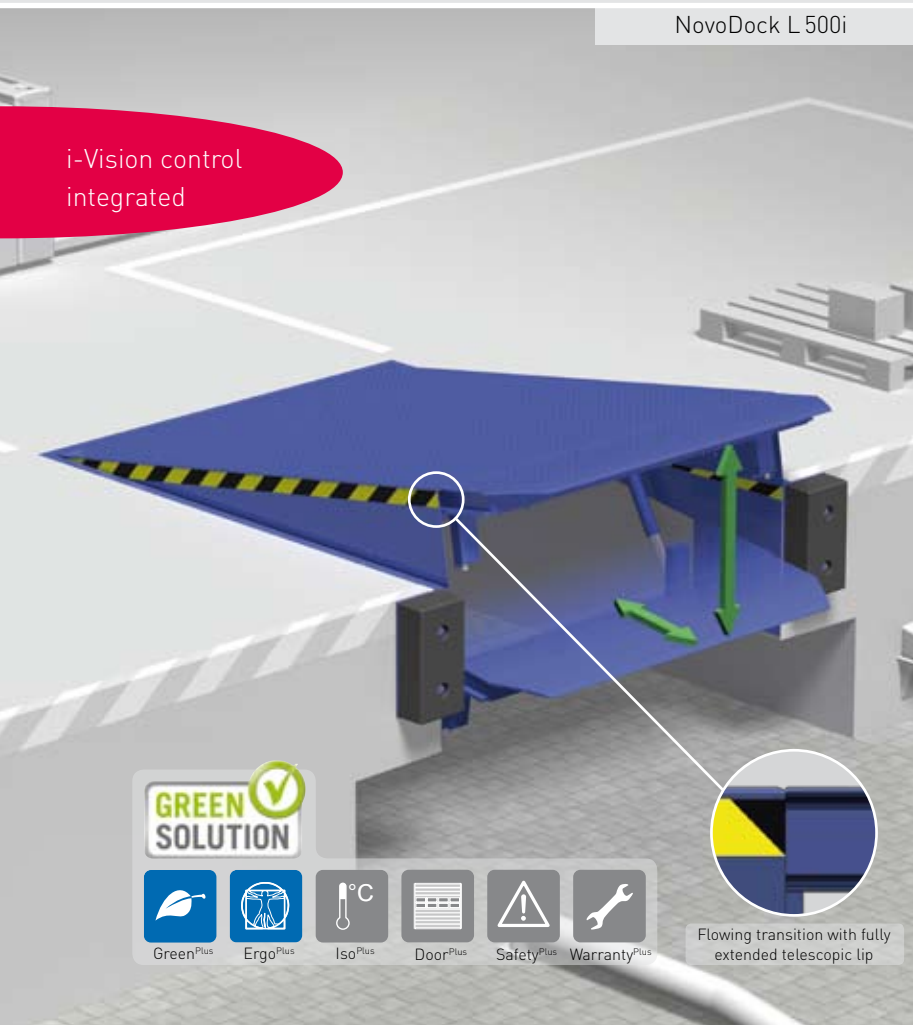
Our contribution to CO₂ reduction

The active energy-saving mode still reduces consumption resulting in your saving up to 70 % energy as compared to competitor products.

Basic equipment

- Maintenance interval display
- Internal electronic protection
- Infrared interface
- Protection rating IP 65
- Two-digit display
- Lockable main isolator switch
- Return switch for dock levellers
- RoHS-compliant
- CEE plug

NovoDock L 500i and L 550i



Standard colours of telescopic lips

RAL 5010	RAL 7016	RAL 9005
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Hydraulic dock levellers with telescopic lip

The infinitely variable telescopic lip of the NovoDock L 500i enables precise and accurate positioning of the lip during loading. With the integrated i-Vision TA control, dock levellers are user friendly and safe to operate. Like all Green Solution products, NovoDock L 500i and L 550i contribute to cost savings thanks to CO₂ reduction technology.

Product benefits

- Standard Green^{Plus} pack, up to 70% on energy savings; upon request without bio oil surcharge
- RoHS-compliant components
- VOC-compliant paint

NovoDock L 500i

- Standard Ergo^{Plus} pack
- Optimal health protection for employees and smoother passage of goods during loading and un-loading operations thanks to the infinitely variable telescopic lip with height adjustment
- Lower costs for transport equipment

NovoDock L 550i

- Due to its higher dynamic load-carrying capacity of 100 kN, especially suitable for transported goods Standard colours of telescopic lips

Control and operation

The dock levellers NovoDock L 500i and L 550i are steered via the supplied control i-Vision TA.



i-Vision TA



i-Vision TAD (Option)

Technical data

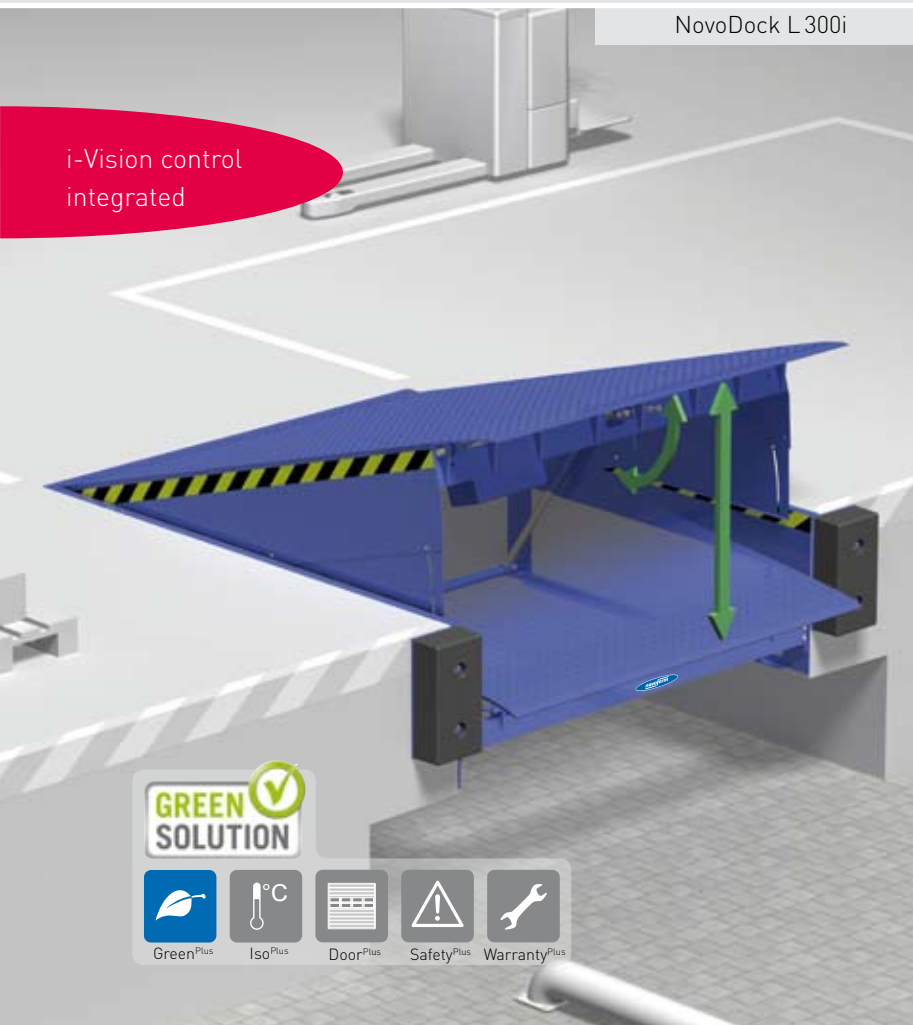
Characteristics	L 500i	L 550i
Nominal load according to EN 1398	60 kN	100 kN
Telescopic lip lengths (mm)	500/1000	500
Nominal lengths (mm)	2000, 2500, 3000, 3500, 4000, 4500	
Nominal widths (mm)	2000, 2250, 2400	
Pit Depths (mm)		
600	up to 3000 (NL)	-
700	up to 2500 (NL)	up to 2500 (NL)
800	at 3000 (NL)	at 3000 (NL)
900	from 3500 (NL)	from 3500 (NL)

The maximum incline permissible according to EN 1398 is 12.5%.

For further technical data, please refer to pages 18-19 or to the Novoferm product data sheets.

For further information on i-Vision control and option packs, please refer to pages 6-7.

NovoDock L 300i and L 350i



Standard colours of telescopic lips

RAL 5010	RAL 7016	RAL 9005
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Hydraulic dock levellers with swing lip

NovoDock L 300i and L 350i with swing lip have established themselves as the basic version in loading technology. With the integrated i-Vision HA control, dock levellers are user friendly and safe to operate. Like all Green Solution products, NovoDock L 300i and L 350i also cater for CO₂ reduction and operating cost savings through optimised energy requirements.

Product benefits

- Standard Green^{Plus} pack, up to 70% energy savings; upon request without bio oil surcharge
- RoHS-compliant components
- VOC-compliant paint

NovoDock L 300i

- Classic loading equipment product in connection with state-of-the-art control technology

NovoDock L 350i

- Due to its superior dynamic load-carrying capacity of 100 kN, especially suitable for transported goods

Control and operation

The dock levellers NovoDock L 300i and L 350i are operated via the control panel i-Vision HA.



i-Vision HA



i-Vision HAD (Option)

Technical data

Characteristics	L 300i	L 350i
Nominal load according to EN 1398	60 kN	100 kN
Swing lip lengths (mm)	400	400
Nominal lengths (mm)	2000, 2500, 3000, 3500, 4000, 4500	
Nominal widths (mm)	1750, 2000, 2250	
Pit Depths (mm)		
600	up to 3000 (NL)	up to 3000 (NL)
700	up to 3000 (NL)	up to 3000 (NL)
800	at 3500 (NL)	at 3500 (NL)
900	from 4000 (NL)	from 4000 (NL)

The maximum incline permissible according to EN 1398 is 12.5 %.

For further information on i-Vision control and option packs, please refer to pages 6-7.

For further technical data, please refer to pages 18-19 or to the Novoferm product data sheets.

NovoDock P 1500i and P 1300i



Hydraulic dock levellers in steel frame

Thanks to the steel frame, the NovoDock P 1500i and P 1300i can be installed in front of the building and also serve as a basis for a loading sluice. With the integrated i-Vision control, dock levellers are convenient and safe to operate. Like all Green Solution products, NovoDock P 1500i and P 1300i save costs thanks to CO₂ reduction.

Product benefits

- Standard Green^{Plus} pack, up to 70% energy savings; upon request without bio oil surcharge
- RoHS-compliant components
- VOC-compliant paint

NovoDock P 1500i

- Standard Ergo^{Plus} pack
- Optimal health protection for employees and smoother passage of goods during loading and un-loading thanks to the infinitely variable telescopic lip with height adjustment
- Lower costs for transport equipment

NovoDock P 1300i

- Low-cost solution, combined with state-of-the-art control technology

Control and operation

The dock leveller is operated via:



Technical data

Characteristics	P 1500i	P 1300i
Nominal load according to EN 1398	60 kN	60 kN
Telescopic lip lengths (mm)	500/1000	400
Nominal lengths (mm)	2000, 2500 (2440), 3000, 3500, 4000, 4500	
Nominal widths (mm)	2000, 2250	1750, 2000, 2250
Platform widths (mm)	3300, 3500	3300, 3500
Pit Depths (mm)		
700	up to 2500 (NL)	up to 3000 (NL)
800	at 3000 (NL)	at 3500 (NL)
900	from 3500 (NL)	from 4000 (NL)

The maximum admissible inclination according to EN 1398 is 12.5 %.

For further technical data, please refer to pages 18-19 or to the Novoferm product data sheets.

NovoDock H 1500 and H 1300



Our flexible loading solution for your logistics requirements

NovoDock H 1500 and H 1300 present you with a variable concept for the use of telescopic lip and swing 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

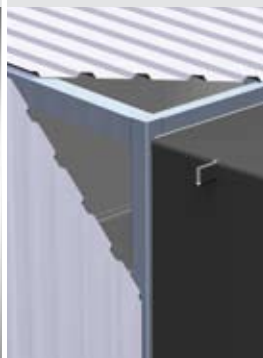
NovoDock H 1500

- See NovoDock P 1500i (page 10)

NovoDock H 1300

- See NovoDock P 1300i (page 10)

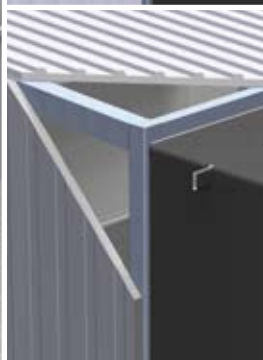
Construction types of loading sluice



- Type Standard:

Cladding with trapezoidal sheet up to upper edge of steel platform, prime-coated in RAL colours:

inside	outside	
RAL 9002	RAL 9002	RAL 9006



- Type ISO:

Cladding with 40 mm ISO panel up to upper edge of steel platform, prime-coated in RAL colours:

inside	outside	
RAL 9002	RAL 9002	RAL 9006



- Type basic frame:

Design with steel frame construction for sheeting by customer

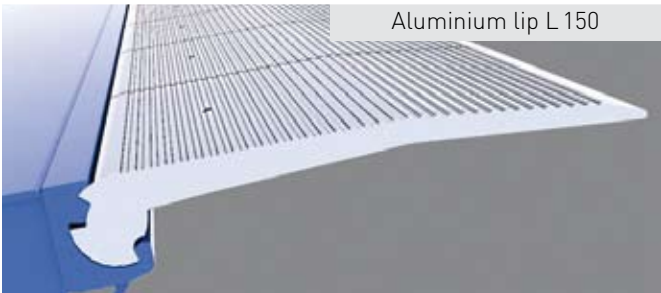
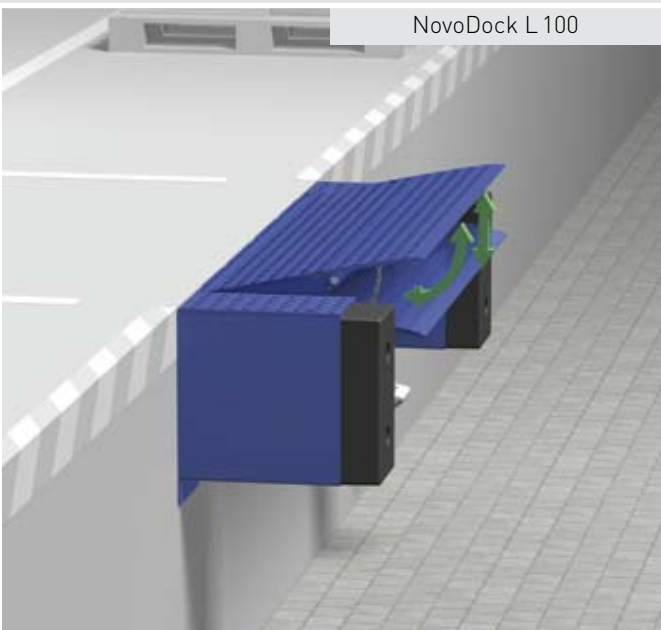
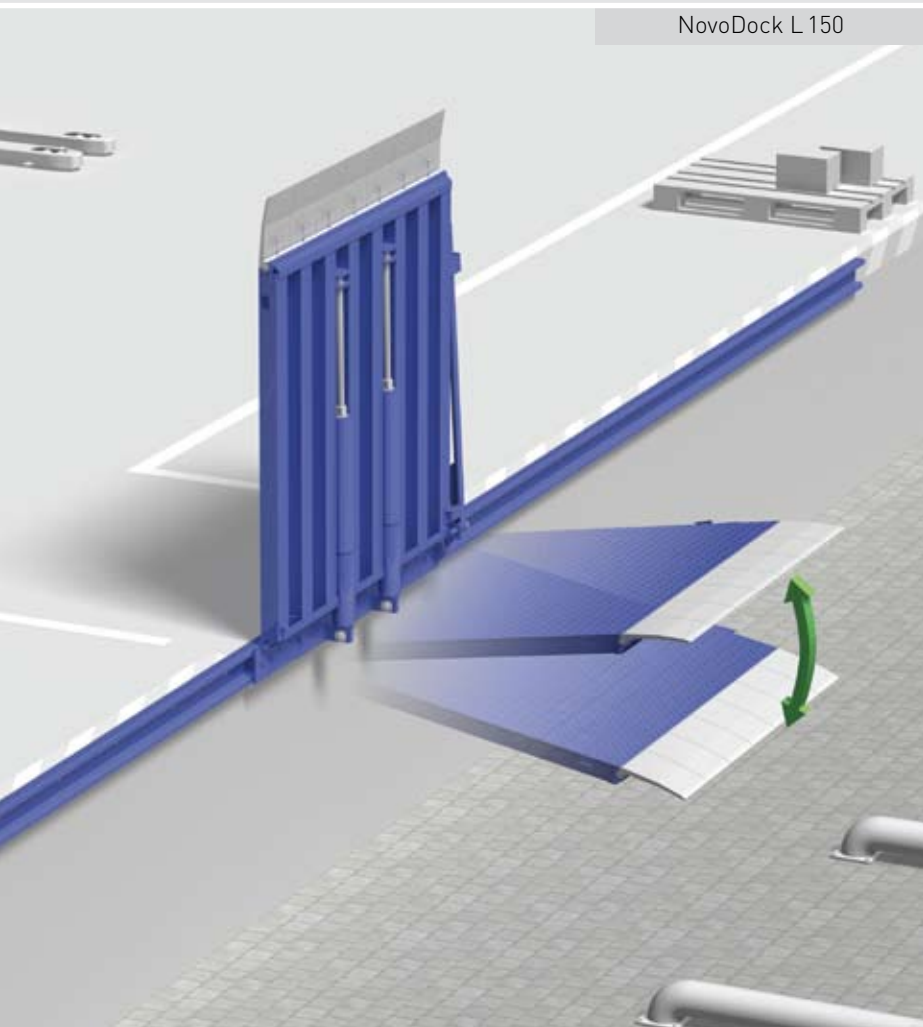
Angled design (90°, 75°, 60°, 45°, 105°, 120°, 135°)



Technical data

Characteristics	H 1500 und H 1300
Nominal lengths (mm)	2000, 2500, 3000, 3500, 4000, 4500
Nominal widths (mm)	3300, 3500
Ramp heights (mm)	950 to 1500

NovoDock L 150 and L 100



Standard colours of dock levellers		
RAL 5010	RAL 7016	RAL 9005

Mechanical dock levellers

NovoDock L 150 and L 100 can be operated very easily via a lifting rod. Both dock levellers are mounted against the loading bay.

NovoDock L 150

- Fixed or laterally sliding
- Provides a bridge between height differences of the vehicle and loading bay
- Use for internal and external loading bays

NovoDock L 100

- Enables loading operations even in the most confined spaces
- Low-noise

Technical data

Characteristics	L 150	L 100
Nominal load according to EN 1398	60 kN	60 kN
Swing lip lengths (mm)	-	300
Nominal lengths (mm)	1500, 1750, 2000	400
Nominal widths (mm)	1500, 1750, 2000	1750, 2000, 2200

The maximum incline permissible according to EN 1398 is 12.5%.

Bumper systems



Rubber bumpers

Spring steel bumpers

Steel bumpers

Rubber bumpers

Rubber impact bumper

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



Spring steel bumpers

15 mm-spring steel bumpers, movably mounted

- Spring deflection up to 40 mm
- wear-free



Steel bumpers

with inside rubber core

- Spring deflection up to 80 mm
- wear-free



Design (mm)	Suitable for	Product characteristics	
400 x 80 x 70	Low loading frequency	Building protection Durability Life Cycle Cost	★ ★ ★★
250 x 250 x 90	low loading frequency, swing lip levellers	Building protection Durability Life Cycle Cost	★★ ★ ★★
250 x 250 x 140	low loading frequency, telescopic lip levellers	Building protection Durability Life Cycle Cost	★★ ★ ★★
500 x 250 x 90	low to average loading frequency, swing lip levellers	Building protection Durability Life Cycle Cost	★★ ★★ ★★★
500 x 250 x 140	low to average loading frequency, swing lip levellers	Building protection Durability Life Cycle Cost	★★ ★★ ★★★
600 x 160 x 160	low to average loading frequency, swing lip levellers	Building protection Durability Life Cycle Cost	★★★★ ★★★★★ ★★★★★★
800 x 160 x 160	high loading frequency, telescopic lip levellers	Building protection Durability Life Cycle Cost	★★★★ ★★★★★ ★★★★★★
TwinSet 600/800 elevated on one side	high loading frequency, telescopic lip levellers	Building protection Durability Life Cycle Cost	★★★★ ★★★★★ ★★★★★★
AZPK 500 or 800 500 x 250 x 140 or 800 x 250 x 140	high loading frequency, swing lip levellers	Building protection Durability Life Cycle Cost	★★★★ ★★★★★ ★★★★★★
TwinSet AZPK 500/800 elevated on one side	high loading frequency, swing lip levellers	Building protection Durability Life Cycle Cost	★★★★ ★★★★★ ★★★★★★
AZJ 500 or 800 500 x 250 x 210 or 800 x 250 x 210	high loading frequency, telescopic lip levellers	Building protection Durability Life Cycle Cost	★★★★★ ★★★★★ ★★★★★★
TwinSet AZJ 500/800 elevated on one side	high loading frequency, telescopic lip levellers	Building protection Durability Life Cycle Cost	★★★★★ ★★★★★ ★★★★★★

NovoSeal S 420



Dock shelters

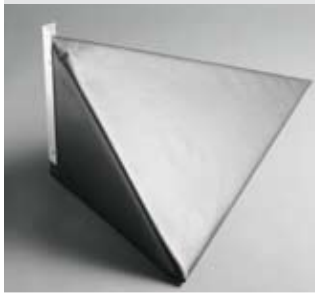


Head curtain with stripped flaps (optional)



Pads (optional)

Bumpers (optional)



Collapsible aluminium dock shelters

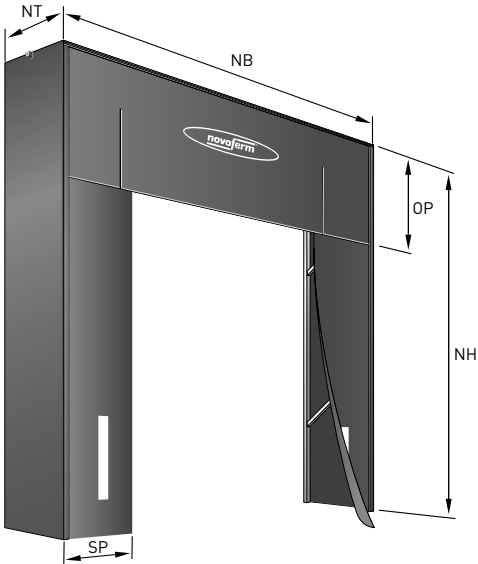
Dock shelters with collapsible design protect against draughts, rain, and wind. They ensure perfect sealing between lorry and building and protect against energy loss and possible damage to the goods. The built in rain water channel deflects water from the roof to the outside of the shelter.

Product benefits

- Flexible roof construction
- Aluminium profile frame construction
- No visible screws on front side.
- Built in rain water channel

Technical data (mm)

NovoSeal	S 420		S 420e
Width (NB)	3250, 3450		3450
Height (NH)	3200, 3400, 3600		3400
Depth (NT)	600		600
Width side curtain (SP)	600	700	600
with nominal width (NB)	3250	3450	-
Height top curtain (OP)	1000		900



For further information on our bumper systems NovoSeal S 420, please refer to Novoferm product data sheets.

More dock shelters



NovoSeal S 220

NovoSeal S 220 Sealing pad

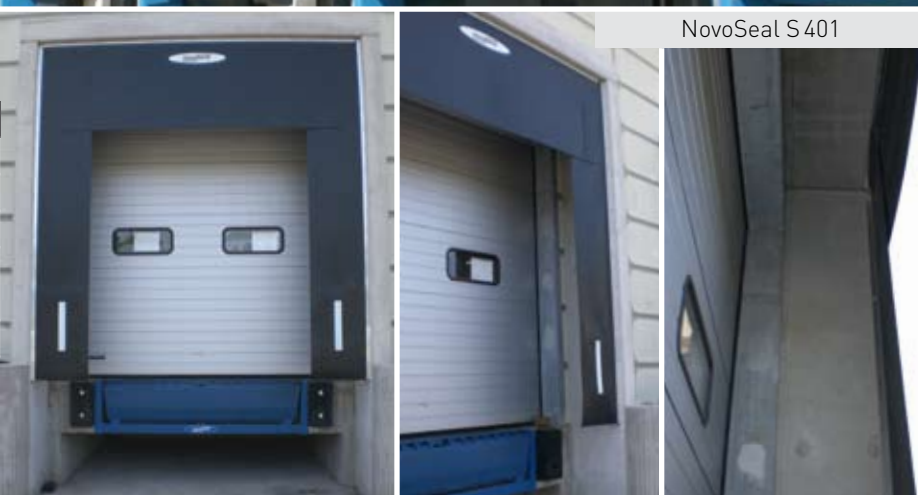
- Excellent sealing system for narrow doors and standardised vehicle fleet
- Watertight welded covers
- Vertical pad guide stripes



NovoSeal S 260

NovoSeal S 260 Foam core seal

- Automated elevated roof system and lateral parts with foam core elements without linkage
- Perfect sealing
- Wear-free



NovoSeal S 401

NovoSeal S 401 Niche seal

- 3 mm thick PVC curtains with high restoring force for perfect sealing
- Reel fixed within the opening



NovoSeal S 620

NovoSeal S 620 Inflatable seal

- Flexible air bags
- Excellent sealing
- Collision protection guard bracket

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 standard light bulbs or LED lamps that 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.



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.



Loading 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. The light is equipped with two low voltage (24v) 70 watt halogen bulbs. The transformer is encapsulated and fully sealed and protected against dust and splash water ingress. The bulbs are encased in a plastic housing with integral hand grip for easy positioning. The backing diffusion plate is designed for large scale illumination.



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.

Additional Novoferm industrial products



Industrial 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.



Rolling doors and roller grilles

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.



High-speed doors

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.



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.



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.



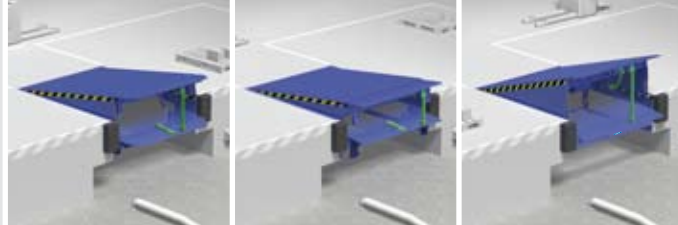
Fire and smoke protection door systems

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.

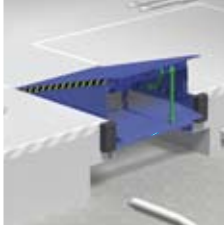




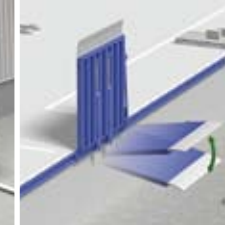
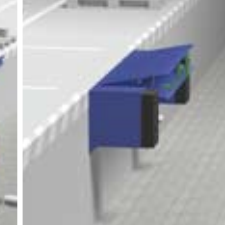


Technical data

● Standard
○ Option



Product characteristics		L 500i	L 550i	L 300i
Option Packs	with telescopic lip	●	●	
	with swing lip			●
	Green ^{Plus}	●	●	●
	Ergo ^{Plus}	●		
	Iso ^{Plus}	○	○	○
	Door ^{Plus}	○	○	○
	Safety ^{Plus}	○	○	○
	Warranty ^{Plus}	○	○	○
Nominal load according to EN 1398 in kN		60	100	60
Nominal lengths (NL) in mm		2000, 2500, 3000, 3500, 4000, 4500	2000, 2500, 3000, 3500, 4000, 4500	2000, 2500, 3000, 3500, 4000, 4500
Nominal widths in mm		2000, 2250, 2400	2000, 2250, 2400	1750, 2000, 2250
Pit depths	600 mm	up to 3000 mm (NL)		up to 3000 mm (NL)
	700 mm	up to 2500 mm (NL)	up to 2500 mm (NL)	up to 3000 mm (NL)
	800 mm	at 3000 mm (NL)	at 3000 mm (NL)	at 3500 mm (NL)
	900 mm	from 3500 mm (NL)	from 3500 mm (NL)	from 4000 mm (NL)
Telescopic lip / swing lip length in mm		● 500/○ 1000	500	400
Power supply		3 N~ 400 V/50 Hz/16 A	3 N~ 400 V/50 Hz/16 A	3 N~ 400 V/50 Hz/16 A
Protection class		IP 65	IP 65	IP 65
Construction characteristic	Motor rating in kW	max. 1,5	max. 1,5	max. 0,75
	Platform tear plate in mm	8/10	10/12	6/8
	Telescopic lip tear plate in mm	12/14	15/17	12/14
Bridging values upwards/downwards (telescopic lip 1000 mm)	Nominal length 2000, Pit depths 600	310 (380)/290 (330)		250/290
	Nominal length 2000, Pit depths 700	340 (430)/380 (440)	300/400	290/340
	Nominal length 2500, Pit depths 600	420 (490)/250 (270)		310/270
	Nominal length 2500, Pit depths 700	430 (500)/350 (390)	300/400	360/330
	Nominal length 3000, Pit depths 600	360 (420)/220 (240)		360/270
	Nominal length 3000, Pit depths 700			430/330
	Nominal length 3000, Pit depths 800	460 (550)/400 (440)	370/400	
	Nominal length 3500, Pit depths 800			520/350
	Nominal length 3500, Pit depths 900	480 (540)/400 (420)	450/400	
	Nominal length 4000, Pit depths 900	520 (570)/420 (460)	450/400	570/350
	Nominal length 4500, Pit depths 900	550 (600)/370 (380)	450/400	620/350
maximum admissible inclination according to EN 1398		12,5 %	12,5 %	12,5 %
Control		i-Vision	i-Vision	i-Vision
i-Vision model		● TA ○ TAD	● TA ○ TAD	● HA ○ HAD
Colours	RAL 5010 (gentian blue)	●	●	●
	RAL 7016 (charcoal grey)	●	●	●
	RAL 9005 (black)	●	●	●
	more RAL colour shades	○	○	○

						
L 350i	P 1500i	P 1300i	H 1500	H 1300	L 150	L 100
	●		●			
●		●		●	●	●
●	●	●	●	●		
	●		●			
○	○	○	○	○		
○	○	○	○	○		
○	○	○	○	○		
○	○	○	○	○		
100	60	60	60	60	60	60
2000, 2500, 3000, 3500, 4000, 4500	2000, 2500 (2440), 3000, 3500, 4000, 4500	2000, 2500 (2440), 3000, 3500, 4000, 4500	2000, 2500, 3000, 3500, 4000, 4500	2000, 2500, 3000, 3500, 4000, 4500	1500, 1750, 2000	400
1750, 2000, 2250	2000, 2250	1750, 2000, 2250	3300, 3500	3300, 3500	1500, 1750, 2000	1750, 2000, 2200
up to 3000 mm (NL)						
up to 3000 mm (NL)	up to 2500 mm (NL)	up to 3000 mm (NL)				
at 3500 mm (NL)	at 3000 mm (NL)	at 3500 mm (NL)				
from 4000 mm (NL)	from 3500 mm (NL)	from 4000 mm (NL)				
400	● 500/○ 1000	400	● 500/○ 1000	400		300
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		
max. 1,5	max. 1,5	max. 0,75	max. 1,5	max. 0,75		
8/10	8/10	6/8	8/10	6/8	6/8	4/6
15/17	12/14	12/14	12/14	12/14	12/14	12/14
250/270						
290/340	340 (430)/380 (440)	290/340	340 (430)/380 (440)	290/340		
310/240						
360/330	430 (500)/350 (390)	360/330	430 (500)/350 (390)	360/330		
360/230						
430/320		430/330		430/330		
	460 (550)/400 (440)		460 (550)/400 (440)			
500/320		520/350		520/350		
	480 (540)/400 (420)		480 (540)/400 (420)			
550/330	520 (570)/420 (460)	570/350	520 (570)/420 (460)	570/350		
600/340	550 (600)/370 (380)	620/350	550 (600)/370 (380)	620/350		
12,5%	12,5 %	12,5 %	12,5 %	12,5 %	12,5 %	12,5 %
i-Vision	i-Vision	i-Vision	i-Vision	i-Vision	Operating rod	Operating rod
● HA ○ HAD	● TA ○ TAD	● HA ○ HAD	● TA ○ TAD	● HA ○ HAD		
●	●	●			●	●
●	●	●			●	●
●	●	●			●	●
○	○	○	○	○	○	○

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