



Innovations
by Nytrex

Nytrex buffer systems

Safe, controlled and indestructible





Nytrex – The maximum level of ergonomics

As a material especially developed for application purposes, Nytrex is known for being almost indestructible.

Particularly for buffers, the material presents unique advantages. Besides the very good visibility for lorry drivers, the high stability with simultaneous glide results in very long durability. Under the same conditions, Nytrex lasts 7 to 10 times longer than rubber! Thus, a frequent replacement as well as repair costs for buildings and lorries become superfluous.

It goes without saying that the material is 100 % recyclable.

The comprehensive model programme includes various models for every application purpose.

Making the right decision.

Planning costs in the long term

Costs play a major role when purchasing buffers. More often than not, mere product costs are used as a decision-making basis. The costs for the assembly and travel of an assembly unit are not taken into account.

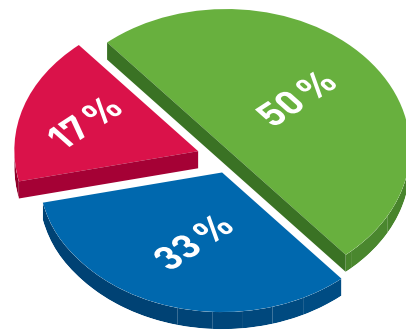
Our example shows that this can lead to fatally wrong decisions. When exchanging a rubber buffer, only approx. 1/3 of the total costs are attributable to mere production costs.

For a lower loading frequency, rubber buffer can be the right choice, however, for a higher frequency, other systems are much more cost-effective in the long term.

Thus, in many cases, e.g. a Nytrex buffer is already more cost-effective than a rubber buffer in the second period of use. This does not take into account any costs for damage to buildings which may occur as a result of a damaged rubber buffer. In any case, it makes sense to consider the Life Cycle Cost.

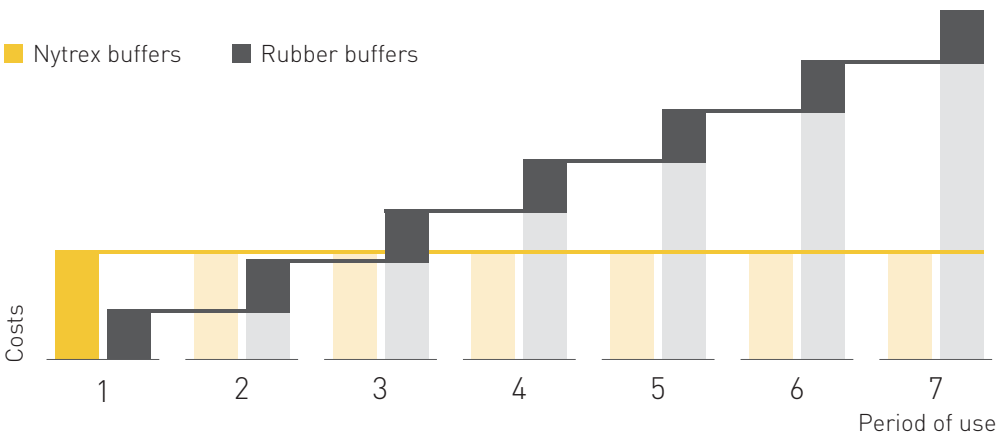
Total costs per period of use

- Travel
- Rubber buffers
- Installation



Life Cycle Cost Comparison

- Nytrex buffers
- Rubber buffers



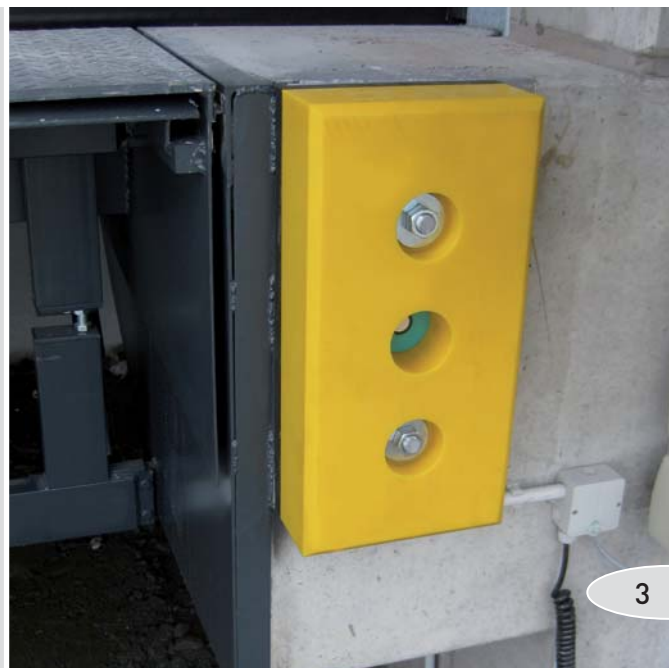
Nytrex part is rotatable and thus doubly usable.



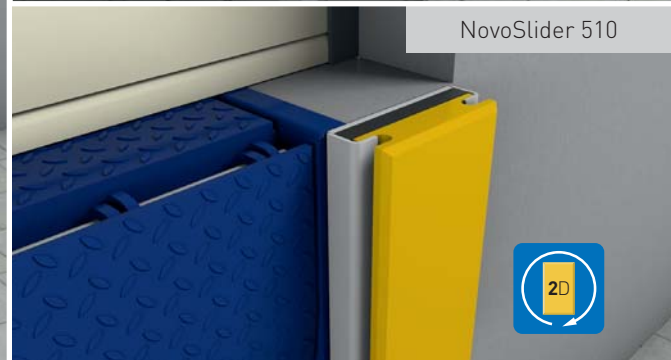
Nytrex part is rotatable and reversible and thus quadruple usable.



We select materials and resources carefully and supplement them with our own recyclable developments.



NovoSlider

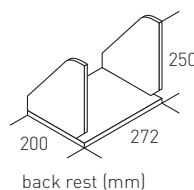


The unique design combines all important properties

Combining the excellent properties of the Nytrex material with a long suspension travel, the NovoSlider is very close to being the ideal buffer. The steel body is galvanised and is thus permanently protected against corrosion. Due to the lightweight rubber mat, the floating Nytrex material can safely absorb a maximum of 25 mm and follow the height movements of the lorry.

Product benefits

- 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
- 100 % recyclable material

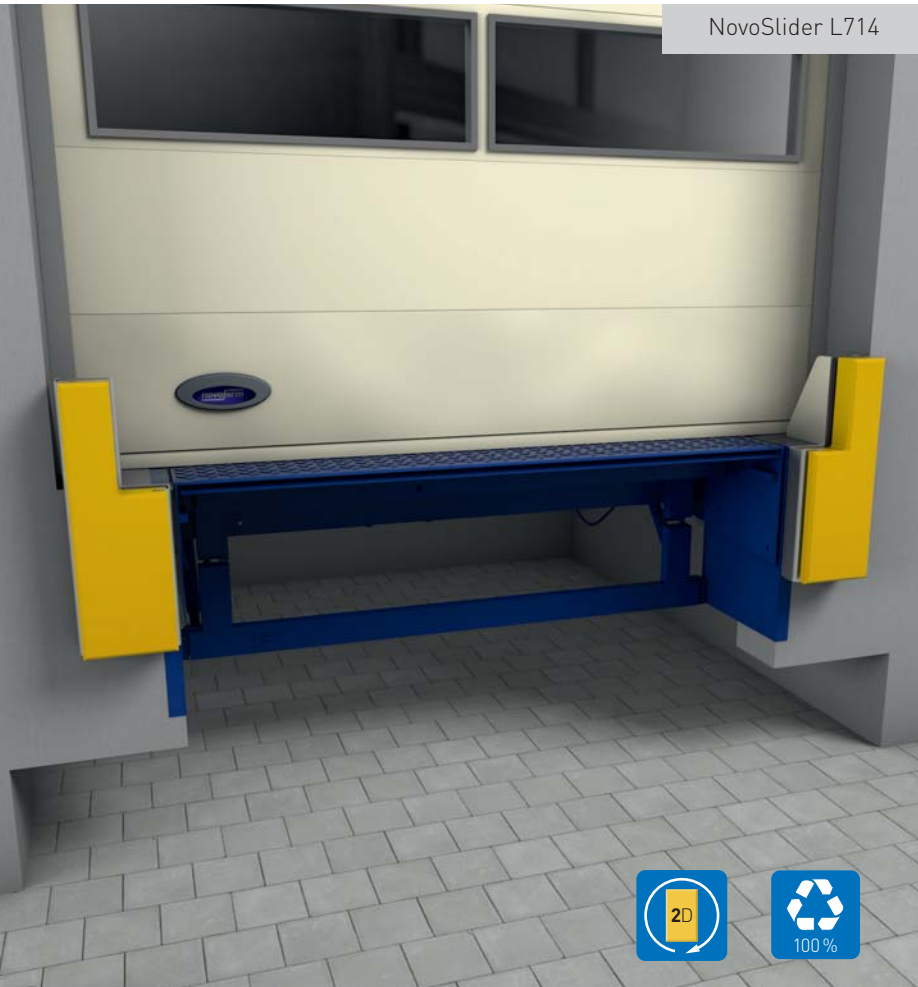


Designs (mm)	2D	4D
NovoSlider 510 500 x 280 x 100	✓	
NovoSlider 514 500 x 280 x 140		✓
NovoSlider 710 750 x 280 x 100	✓	
NovoSlider 714 750 x 280 x 140		✓
NovoSlider TwinSet 7510 750 x 280 x 100 + 500 x 280 x 100	✓	
NovoSlider TwinSet 7514 750 x 280 x 140 + 500 x 280 x 140		✓

Evaluation

Building protection	★★★★★	Overall rating: 24
Durability	★★★★★	
Spring deflection	★★★★☆	
Life Cycle Cost	★★★★★	
Visibility	★★★★★	

NovoSlider L



The perfect solution when using lorry swap bodies

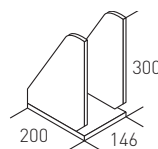
During the docking process, lorry swap bodies have the disadvantage that they stand above ramp level due to the high support legs, quickly causing damage to buffers, dock levellers, and especially to the gates. For this reason, buffers that protrude above ramp level (e.g. Nyltrex F708 or 713) are often mounted on these loading bays. Depending on the transported goods, this may cause difficulties during loading and unloading because the full width of the lorry and/or the swap body cannot be used.

This is where NovoSlider L comes into play. Its lateral notches make it possible to use the full width of the lorry. The drive-over protection is maintained.

All further advantages of the NovoSlider also apply to this model.

Product benefits

- Nyltrex 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
- No limitations when loading swap bodies
- 100 % recyclable material



back restv (mm)

For further information on NovoSlider L please refer to page 11.

Designs (mm)

NovoSlider L710
750 x 280 x 100

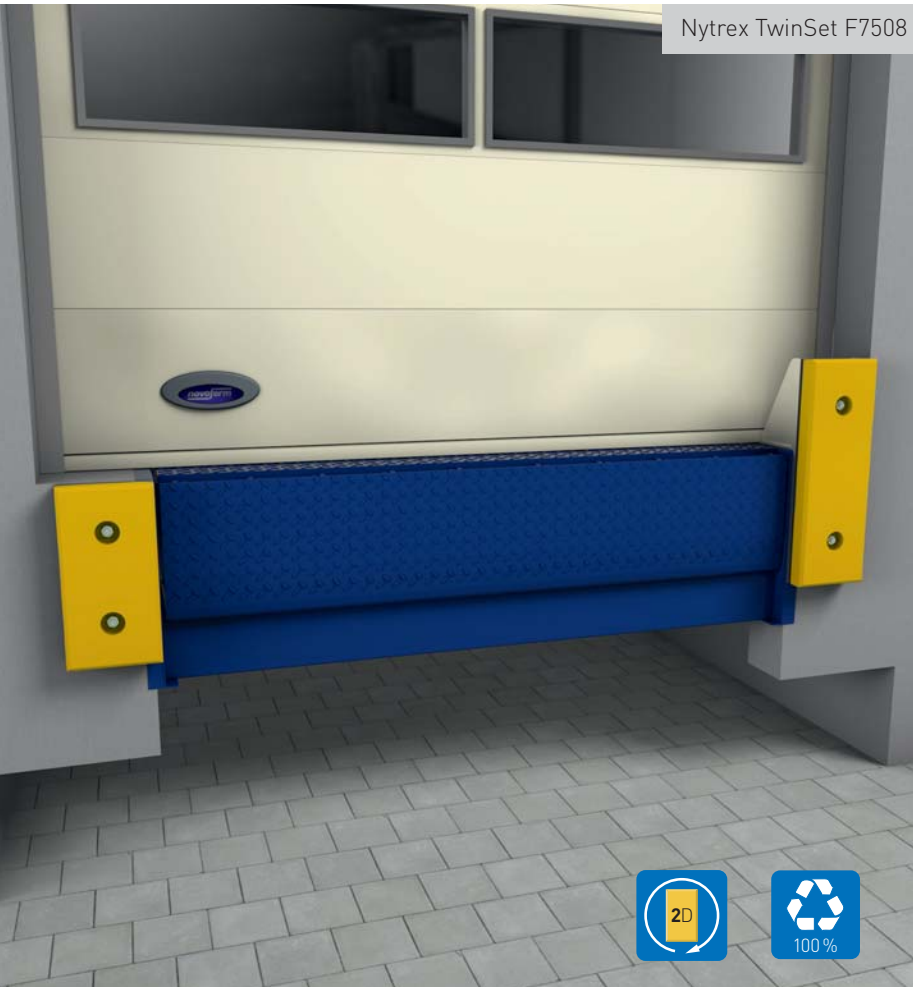
NovoSlider L714
750 x 280 x 140

Evaluation

Building protection	★★★★★
Durability	★★★★★
Spring deflection	★★★★☆
Life Cycle Cost	★★★★★
Visibility	★★★★★

Overall rating:
24

Nytrex F



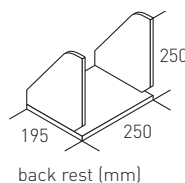
The new standard compatible with rubber buffer mounting plates

Nytrex F is made of a solid Nytrex block and a matching rubber mat mounted on a galvanised steel plate for fastening to the ramp edge. Front part and rubber mat are compatible with available buffers of size 500 x 250 mm. Due to the much higher stability, the Nytrex F versions get by with a 20 mm lesser depth than rubber buffers, which increases clearance when docking.

The version for dock levellers with hinged lip is rotatable (2D). The version for dock levellers with telescopic lip is reversible and rotatable (4D).

Product benefits

- Nytrex high-performance plastic in signal yellow
- Lasts 7-10x longer than rubber
- Suitable for high loading frequency
- Multiple use 2D and 4D
- compatible with existing mounting plates for rubber buffers 500 x 250 mm
- 100 % recyclable material



Designs (mm)	2D	4D
Nytrex F508 500 x 250 x 80	✓	
Nytrex F513 500 x 250 x 130		✓
Nytrex F508 R 500 x 250 x 80	✓	
Nytrex F513 R 500 x 250 x 130		✓
Nytrex F708 750 x 250 x 80	✓	
Nytrex F713 750 x 250 x 130		✓
Nytrex TwinSet F7508 750 x 250 x 80 + 500 x 250 x 80	✓	
Nytrex TwinSet F7513 750 x 250 x 130 + 500 x 250 x 130		✓

Evaluation

Building protection	★★★★☆
Durability	★★★★★
Spring deflection	★☆☆☆☆
Life Cycle Cost	★★★★★
Visibility	★★★★★

Overall rating:
20

NovoLift



Height-adjustable buffers with the advantages of the Nytrex material

NovoLift offers another possibility to prevent driving over the buffer above ramp level. A height-adjustable steel carriage is guided above ramp level with a pneumatic spring. After docking the lorry, the operator can easily press the buffer downwards with his feet. In the lowest position, the entire carriage automatically locks into place. There is nothing more standing in the way of the loading process. After loading, the carriage can easily be unlocked and automatically gets into the highest position.

Product benefits

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

Designs (mm)



NovoLift 614
600 x 250 x 140



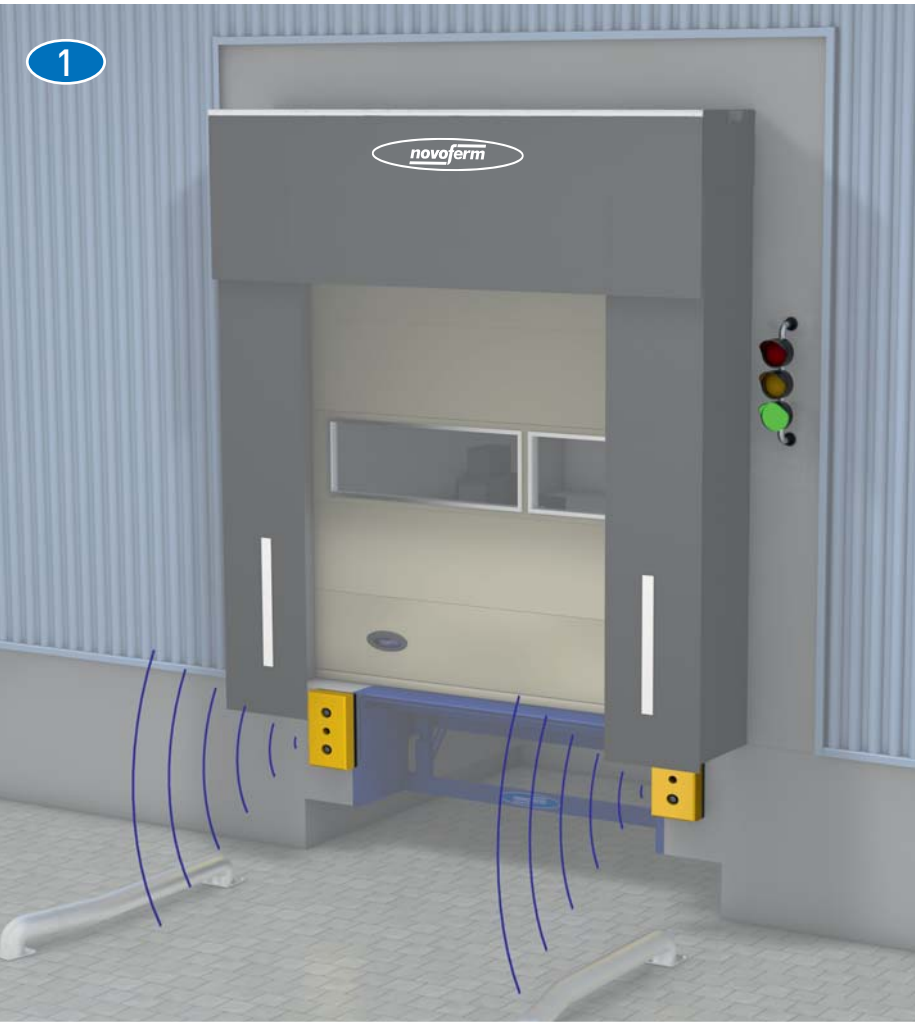
Evaluation

Building protection	★★★★★
Durability	★★★★★
Spring deflection	★☆☆☆☆
Life Cycle Cost	★★★★★
Visibility	★★★★★

Overall rating::

20

NovoEASY – Electronic Docking System



Electronic Docking 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 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 informs the driver via a display element (e.g. traffic lights).

Product benefits

- Nytrex high-performance plastic in signal yellow
- Distance measurement (Lorry – Building) with display via outside traffic lights

Facilitates loading in three steps

Step 1: The lorry is still a distance away from the loading bay: The traffic light is green.

Step 2: The lorry stands approx. 100 cm away from – right before - the loading bay: The traffic light switches to yellow. The driver shows an increased level 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.

Designs (mm)

500 x 250 x 130

1 sensor, traffic lights red/green with LED lamp

1 sensor, LED traffic lights red/green

1 sensor, LED traffic lights red/yellow/green

2 sensors, traffic lights red/green with LED lamp

2 sensors, LED traffic lights red/green

2 sensors, LED traffic lights red/yellow/green

Evaluation

Building protection ★★★★★

Durability ★★★★★

Spring deflection ★★★★★

Life Cycle Cost ★★★★★

Visibility ★★★★★

Overall rating:

25

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



Designs (mm)
Standard sizes:
2000 x 1000 x 16
1000 x 1000 x 16
1000 x 500 x 16
Non standard sizes readily available.

Product evaluation

Different loading situations require different bumpers. A determining factor is the right solution for the customer. For this purpose, Novoferm provides a broad range of different systems. Five 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.

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 bumper 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 bumpers 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.

Individual solutions

Besides the standard solutions presented already, special solutions may be necessary in individual cases. Speak to our adviser. We are happy to provide you with the right solution tailored to your needs.

Article	Designs (mm)			Building protection	Durability	Spring deflection	Life Cycle Cost	Visibility	OR
NovoSlider	500 x 280 x 100 or 750 x 280 x 100	✓		★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	24
	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
NovoSlider L	750 x 280 x 100			★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	24
	750 x 280 x 140	✓		★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	24
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
NovoLift	600 x 250 x 140	✓		★★★★★	★★★★★	★★★★★	★★★★★	20	

Other Novoferm bumper systems



Rubber buffers



Plastic buffers



Steel buffers

Article	Designs (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 oder 250 x 250 x 140	low	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	8
	500 x 250 x 90 oder 500 x 250 x 140	low to medium	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	10
Plastic buffers	500 x 250 x 60 oder 500 x 250 x 90	low to medium	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	13
Steel buffers	AZPK 500 x 250 x 140 oder 800 x 250 x 140	high	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	20
		high	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	20
	AZJ 500 x 250 x 210 oder 800 x 250 x 210	high	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	21
		high	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	21

OR = Overall rating

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.

Your Novoferm distributor

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