



# Bike Lane System

MOBILE AND FLEXIBLE CYCLE PATHS



WINNER

AWARD 2023



GERMAN  
DESIGN  
AWARD  
NOMINEE  
2024



## The Bike Lane System

# A MOBILE & FLEXIBLE CYCLE PATH SYSTEM

### APPROVED AND CERTIFIED ACCORDING TO GERMAN STANDARDS

As one of the world's leading companies in traffic management, horizont group gmbh provides an easy-to-implement and proven solution for the installation of cycle lanes. horizont Guide Curb has already been successfully applied in traffic guidance for decades - mostly in combination with our Leitboys.

horizont Guide Curb is extremely robust and can be installed firmly and reliably on the ground without needing any bolting to it. In combination with our Leitboys horizont Guide Curb is a traffic guidance system that has been tested and approved according to the highest German standards.

The Pop Up Bike Lane is considered a real game changer for temporary installations, as the surface remains intact and the system can be removed without any residue. Where required the Bike Lande can also be permanently bolted to the subsoil.

### THE BIKE LANE SYSTEM: AWARDED AND NOMINATED!

After the Eurobike Award 2023 in the category of "Mobility Solutions and Infrastructure," the Bike Lane has now been nominated for the prestigious German Design Award 2024. Out of more than 300 submissions across nine categories, a total of 45 products were honored with the "Eurobike Award" in 2023. The jury praised the concept and implementation of the horizont Bike Lane: "The Bike Lane System definitely contributes to making cycling on the road safer and more stress-free for everyone." At the end of September, it will be decided whether the Bike Lane will also be among the selected winners of the German Design Award 2024. The nomination of the bike lane guidance system is already considered a success, as the German Design Award sets the highest standards for participants, who are chosen through a unique nomination process.



WINNER  
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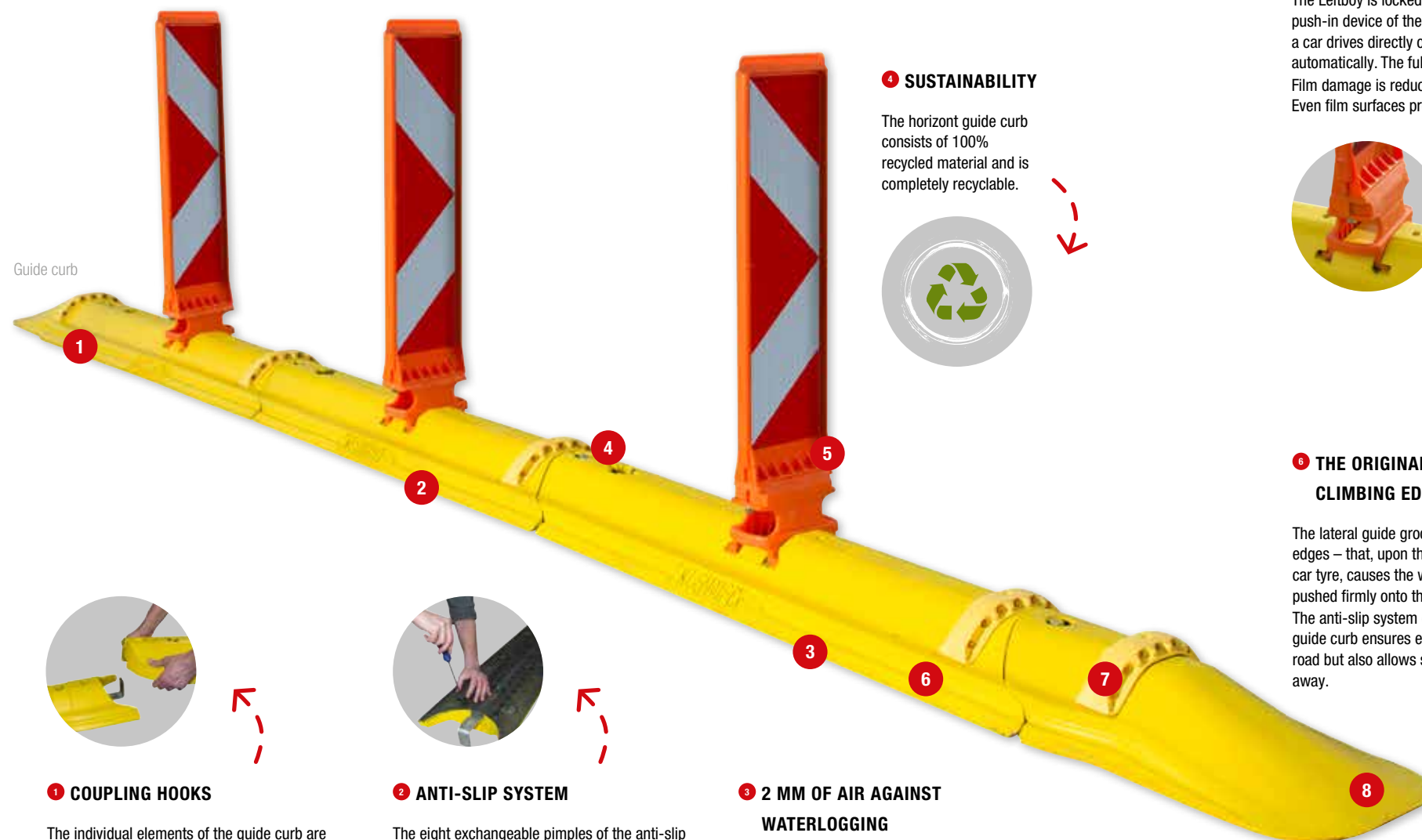


GERMAN  
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2024



## The Bike Lane in detail

# THE SAFETY CONCEPT AND ITS ADVANTAGES AT A GLANCE



### 1 COUPLING HOOKS

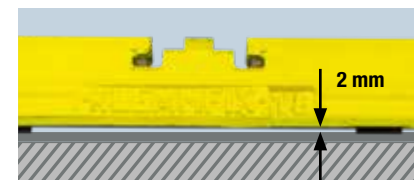
The individual elements of the guide curb are connected together by an extremely stable coupling hook with a safety screw. The end piece of version A is fitted with a coupling hook while type B has a safety screw.

### 2 ANTI-SLIP SYSTEM

The eight exchangeable pimples of the anti-slip system (ARS) on the underside of the guide curb ensure excellent adhesion to the road. They can easily be replaced when worn. horizont guide curbs do not need to be glued to the road. Additional fastening using ground screws is not necessary. Compared to marking nails or films there are no residues left on the road from adhesive, for example. One completely avoids the danger of "ghost markings".

### 3 2 MM OF AIR AGAINST WATERLOGGING

The anti-slip system on the underside of the guide curb ensures excellent adhesion to the road but also allows surface water (rain) to flow away. This virtually avoids any disturbances to the flow of traffic due to a build-up of surface water.



### 4 SUSTAINABILITY

The horizont guide curb consists of 100% recycled material and is completely recyclable.



Guide feet



### 9 REFLECTORS

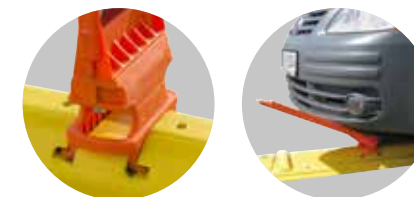
The attached reflectors increase the visibility of the guide feet when it is dark.

### 10 SCREWING ON OR GLUING ON

The guide foot can be either screwed or glued onto the substrate. Both variants ensure a perfect hold – even when the erected Leitboys are driven over in an emergency.

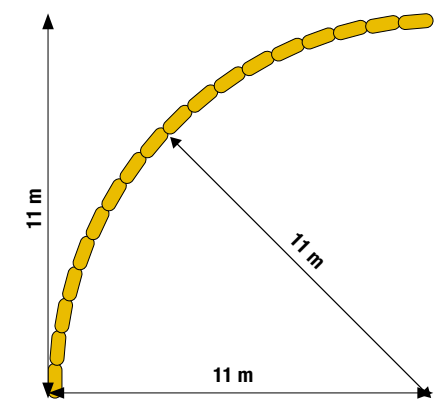
### 5 LEITBOYS WITH A FLEXIBLE FOOT

The Leitboy is locked in place by two guide grooves and the locking cam in the push-in device of the guide curb. It does not come loose even when a car drives directly over it (see test report from BAST), and it re-erects itself automatically. The full warning effect and traffic routing remain intact. Film damage is reduced to a minimum through use of film edge protection. Even film surfaces produce the best retro-reflection values.



### 8 LAYING CURVES AND GUIDING THE TRAFFIC

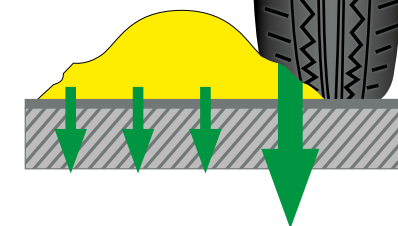
The stable, but still flexible, connection provides for sufficient leeway to lay the guide curb in various curve radii (a 90° angle over about 11 x 11 m). In this way it is easy to guide the flow of traffic.



### 6 THE ORIGINAL HORIZONT CLIMBING EDGE

The lateral guide grooves – climbing edges – that, upon the curb being struck by a car tyre, causes the weight of the vehicle to be pushed firmly onto the road. The anti-slip system on the underside of the guide curb ensures excellent adhesion to the road but also allows surface water (rain) to flow away.

**The original guide curb from horizont:**  
The climbing edge ensures that the force is directed downwards – ensuring a stable condition and good adhesion.

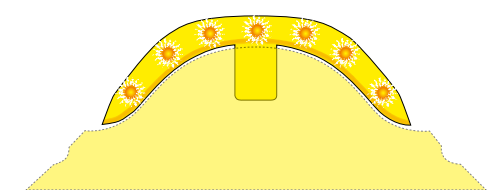


**Operating principle of competitor systems:**  
The force is directed to the side – leading to an unstable condition.



### 7 CONTOUR-FORMING LIGHTING BRACKETS

The horizont lighting brackets with their 14 reflectors are designed in such a way that its extremely long shape from side to side exactly matches the form of the guide curb over its whole radius. The contour of the curb is shown clearly. This is particularly important for motorcyclists at night so that they can detect an elevation on the road surface.



The horizont guide curb is available in many different colours!

## Leitboy III

# LEITBOYS WHICH POINT OUT THE WAY

## LEITBOYS AS PART OF THE CYCLE PATH SYSTEM

The guide curb as used in a bike lane needs so-called Leitboys, which are approved, to provide clear delimitation from a cycle or pedestrian pathway or to traffic lanes, and flexible visual signs. All Leitboys can be driven over in an emergency by rescue vehicles and are therefore ideal for use on roads experiencing high traffic volumes.



### LEITBOY III

Leitboy III – with or without a grip at the top – is fitted with arrow foil which is reflective and leads the way. Firmly installed on its Leitboy base, it is optimally suitable for use on a permanent bike lane. Through choosing to use foil which leads the way, this system can be used without hesitation in a road traffic system. Leitboys III can be driven over in an emergency by rescue vehicles without causing an accident, erect themselves automatically and therefore do not influence or irritate subsequent traffic.

### FEATURE: GRIP

The practical grip on the Leitboy it not a continuous structure but instead has – at the highest point – a small gap in the middle. This small gap is necessary to prevent the towing hook of a automobile getting caught up by the grip is it drives over the Leitboy. For example, this safety aspect minimises damage to the automobile and the guide curb itself during rapid passing of a vehicle over the Leitboy.

### TESTED!

The horizont guide curb incl. the Leitboys is tested. At an impact speed of 80 km/h, the test vehicle used did not cross the guide curb. Despite tyre contact with the barrier at the side it was never driven over during the test.



## Selected references

# TRIED AND TESTED, SUSTAINABLE, SAFE!



### FRANKFURT A. M. (GERMANY) THE FINANCE AND BANKING METROPOLIS

Some kilometres of road in Frankfurt am Main were installed with the horizont Protected Bike Lane. The cycle path system was constructed within just a few days and was immediately accepted and welcomed by all road users. Irrespective whether it involves bankers, school children, delivery people using cargo bikes or pensioners, every journey through the main metropolis is now safer and more comfortable.



### BERLIN (GERMANY) THE CAPITAL CITY AND THE LARGEST COMMUNITY IN GERMANY

With its approximately 3.7 million residents, Berlin is predestined for use of the horizont Bike Lane System. Whoever is able to use his bicycle instead of his car knows, despite the high traffic volumes in Berlin, that he can reach his destination safely. Cyclists immediately feel even safer.



### AMSTERDAM (THE NETHERLANDS) THE CAPITAL CITY AND A FAVOURITE DESTINATION FOR HOLIDAYMAKERS ON A BICYCLE

Amsterdam is considered to be one of the most cyclist friendly cities in the world. It is obvious that the horizont Bike Lane System very much belongs there. For many Dutch people the bicycle is considered to be an indispensable part of their daily life. This is a goal which Germany will also reach by 2030.



### NEW YORK (USA) THE GLOBALLY MOST IMPORTANT FINANCE AND CULTURAL CENTRE

Some kilometres of the horizont Bike Lane System have even been installed in New York. Since then New Yorkers are happy to travel safely on a bicycle in the densely populated heart of the city, Manhattan. Apart from the skyscrapers, the neon signs on Times Square or on Broadway, cycling is also very much a pleasurable experience.

## A STUDY!

"Berliners want to have physically separate cycle paths" so stated the title of the survey which concerned the future use of streets – undertaken by the ADFC (Allgemeiner Deutscher Fahrrad Club). It became clear that there is overwhelming agreement that there should be separate directing of all kinds of traffic – because it was considered that this is the safest system. Just making a separation using markings is simply not sufficient – there must physically separate cycle paths available.





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## CONSULTATION

Do you have questions about mobile traffic control technology?

We would be pleased to advise you! Your competent and friendly contacts at horizon are looking forward to speaking to you.

Our specialists are there for you by phone and in person.

 [trafficsafety.horizont.com/contact](https://trafficsafety.horizont.com/contact)



## CATALOGS

In addition to our main "Traffic Safety" catalog, we also offer brochures for the target groups of police, fire services, trade and municipalities.

Simply request the catalogues from us online or browse through our flip page catalogues.

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## REPAIR SERVICE

Our repair service is reliable, competent and fast. A defective device, your advanced warning or mobile warning trailer can be easily repaired by our service technicians operating throughout Germany or by our team in Korbach.

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## CERTIFICATION


horizon has been certified according to DIN EN ISO 9001 since 1996. The certification is based on comprehensive product quality measures as well as permanent training of our employees with the aim of constantly improving our customer relationships. We are committed to providing you with the best possible service!


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