




**READY
FOR
IMPACT**



THE STRONGEST POLYMER BOLLARD IN THE WORLD

**FLEX IMPACT® BOLLARDS PUSH
BOUNDARIES IN TERMS OF SAFETY,
STRENGTH, AND PERFORMANCE**



THE STRONGEST POLYMER BOLLARD IN THE WORLD



THE FLEX IMPACT® BOLLARD RANGE SETS NEW STANDARDS IN SAFETY, STRENGTH AND PERFORMANCE



The range of Boplan® bollards is designed to meet a variety of needs. Each bollard in this series has a specific strength and impact resistance. These range from extremely heavy impacts of 24.1 kJ to lighter impacts of 2.5 kJ. This ensures a perfect safety solution for every situation. With a wide range of options, colours, and heights, the bollards are easy to adapt to specific environments and aesthetic preferences.

The patented modular design offers unparalleled protection against collisions. The bollards are made from Extrilene®, a high-quality polymer capable of withstanding repeated impacts. The bollard flexes with each collision, but resumes its original shape once the vehicle has gone.



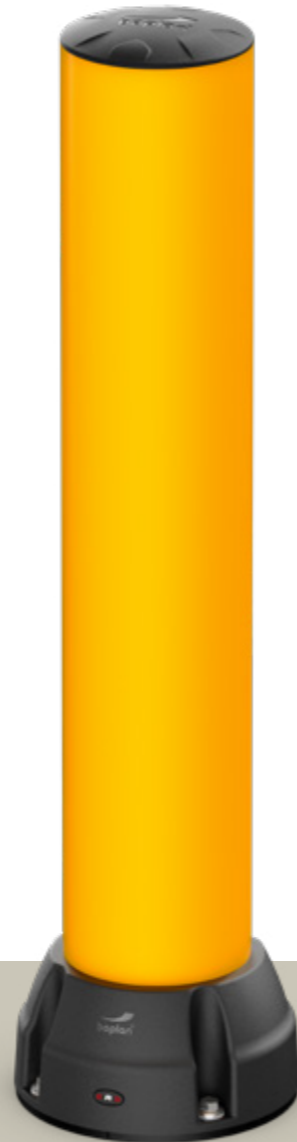
For temperatures down to -30°C



BO125L
>>> 2,5 kJ



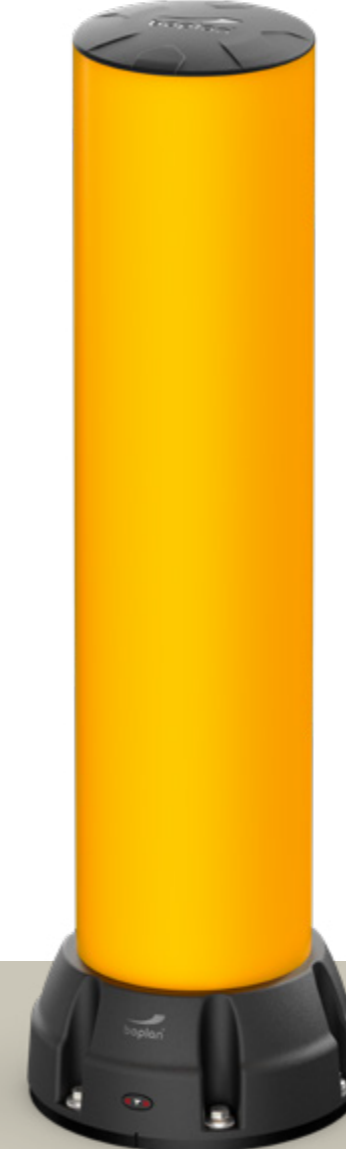
BO170B
>>> 7,5 kJ



BO200R
>>> 10,2 kJ



BO200F
>>> 16 kJ



BO250T
>>> 24,1 kJ



BOPLAN® BOLLARDS

FIVE POWERFUL SAFETY SOLUTIONS

THE REVOLUTIONARY BASE DEFENDER

The Base Defender protects the screws securing the round base plate to the floor. This protective cover made of durable elastomer makes it physically impossible to damage the screws by driving over the base plate. The Base Defender is wider than the bollard. This creates a free space and prevents crushed fingers.

For a more finished look, you can cover the Base Defender with an optional Base Shield. It provides extra protection against ground-level impacts and hygienic protection against dirt and dust.





TÜVNORD
 TÜV NORD Systems
 GmbH & Co. KG

Determination of the Product Type

Voluntary Certification acc. TÜV NORD Standard STH-ZE-KSP-VA-320

Testing Criteria to determine essential Product Properties of Collision Protection Systems:
 PAS 13, Abs. 7
 (Methods of testing the force of impact)

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Determination of the Product Type

Voluntary Certification acc. to TÜV NORD Standard STH-ZE-KSP-VA-320

Testing Criteria to determine essential Product Properties of Collision Protection Systems:
 UNI-TS 11886-1 2022.10
 Impact protection in industry - Part 1: Test methods and criteria for classification

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Why is the Boplan® bollard so strong?

This new series of bollards is the result of years of research and development, extensive testing and practical experience. A unique combination of three characteristics ensures the bollards' exceptional strength:

1. Extrilene®: this polymer was specifically developed for even better impact resistance by Boplan®. A molecularly aligned material structure ensures unparalleled strength while maintaining maximum flexibility.



2. The different tubes provide optimal impact absorption through deformation and friction.

3. The optimised base plate covers a larger surface area and allows for more flexibility.



NEED MORE FLEXIBILITY?

CHOOSE THE REMOVABLE BASE PLATE

In industrial environments, it is sometimes necessary to remove a bollard temporarily. For these situations, Boplan developed a fastening system that allows the BO200R to be easily detached and re-anchored later. This is all without damaging the floor.

As a result, you continue to benefit from tried-and-tested protection with its 10.2 kJ impact value where required while taking advantage of maximum flexibility whenever conditions call for it.



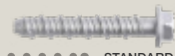

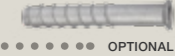
MAXIMUM VISIBILITY

All bollards are available in various distinctive colours and patterns, making them highly visible in any situation.

- Yellow or black (standard)
- Grey or red (available for BO200F & BO200R)
- Choose up to 3 stripes (black, white or yellow)



FASTENERS

- Concrete screws  STANDARD
- Expansion screws  OPTIONAL
- Asphalt screws  OPTIONAL

APPLICATIONS AND TYPICAL ENVIRONMENTS

For the protection of gates, entrances, corners, and machines in:

- Car parks
- Commercial properties
- Distribution centres
- Industrial properties
- Logistics, supply chain, and material handling
- Petrochemical and chemical plants
- Transport & logistics centres
- Warehouses and storage facilities

ADVANTAGES

- Quick and easy installation
- Resistance to chemicals and UV radiation
- Resistance to corrosion
- Barely any maintenance required
- No paint or coating required
- Protected base plate fasteners
- Finger-safe
- Impact resistant up to 24.1 kJ
- Tested according to the latest impact standard UNI/TS 11886-1
- 100% sustainable: easy to recycle
- A tailor-made solution for every scenario
- Choice of options, colours, and heights
- Extrilene®: high-quality polymer
- Patented technology



BO BELT
10.2 kJ

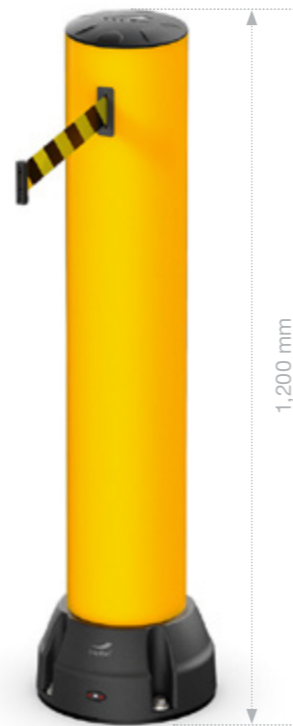


BOLLARD WITH INTEGRATED BELT BARRIER

BO BELT is a FLEX IMPACT® BO200R bollard with an integrated and easy-to-use belt barrier system. BO BELT not only provides effective protection against collisions, but also allows you to quickly and easily close off areas using a 5-metre integrated belt. This prevents pedestrians from walking into the path of moving vehicles, stepping into uncovered openings or entering an area where maintenance works are being carried out.

Key features

- Optimised base plate with crown structure
- Includes a Base Defender to protect the screws and base plate
- Combines with other Boplan safety products

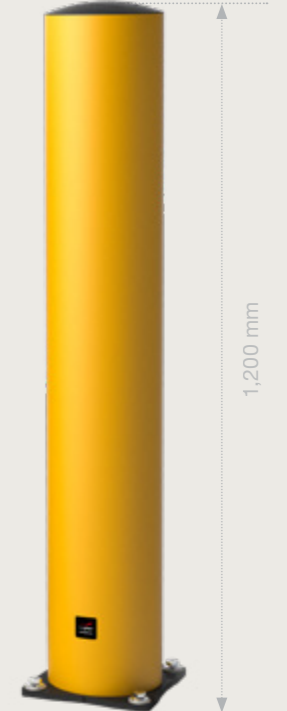


BO SMART
3 kJ



THE SMART BOLLARD THAT MONITORS CRITICAL ZONES 24/7

The FLEX IMPACT® **BO SMART** bollard monitors and protects your most vulnerable infrastructure 24/7. After each collision, the Hub sends you a real-time notification. We can connect up to 50 smart bollards to one Hub using a wireless connection. BO SMART helps you gather valuable knowledge about protected areas, the collision history, frequency and impact. This triggers inspections and helps you to determine whether your protection needs to be replaced or upgraded.

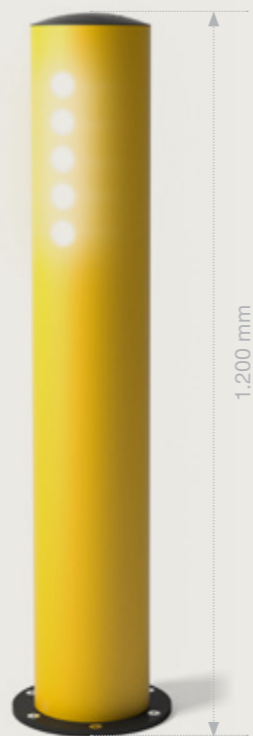
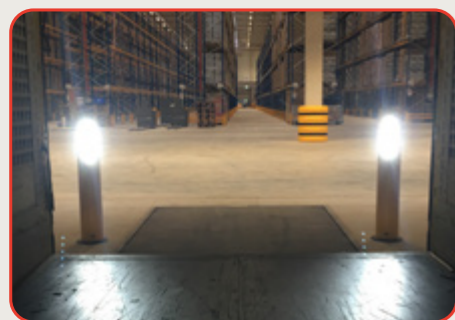


BO LED
3 kJ



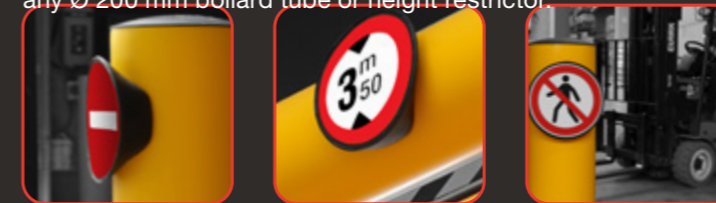
BOLLARD FOR POORLY LIT AREAS AND LOADING DOCKS

The FLEX IMPACT® **BO LED** bollard is equipped with 5 switch-operated LED lights. BO LED is ideal for areas where goods must be loaded or unloaded with poor lighting. You choose the light's direction yourself when installing the bollard. Ideal for illuminating the inside of a trailer during loading and unloading at a loading dock.



SIGNMARK 150 & SIGNMARK 200

With the **SIGNMARK**, you can easily communicate information in the workplace where it is most relevant and visible. **SIGNMARK 150** mounts onto any safety product with a Ø 125 mm up to Ø 170 mm section, while **SIGNMARK 200** fits any Ø 200 mm bollard tube or height restrictor.



ADVANTAGES

- **Flexibility:** fits perfectly and can be replaced with a simple click
- **Attractive:** soft rubber-like material and no visible screws
- **Easy to install:** click, screw or glue the black cover panel onto the holder

THE RIGHT MESSAGE IN THE RIGHT PLACE

SIGNMARK 150



SIGNMARK 200



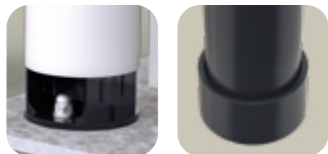
BOLLARD FOR CHARGING STATIONS



BOLLARD TO PROTECT CHARGING STATIONS FROM COLLISIONS

BO125L EV

- Diameter: 125 mm
- Secured to concrete base with 2 screws



- No visible fasteners: concealed by black collar (standard)

Light impact: < 0.5 kJ

BO145L EV

- Diameter: 145 mm
- No visible fasteners: mounted in concrete with a rubber collar



- The hole for the bollard is created when the concrete is poured (precast or on-site) or drilled afterward (162 mm diameter; 260 mm deep). A collar at ground level seals the gap between the base and the bollard.

Impact: < 2 kJ



WHAT ABOUT LIABILITY?

Many countries have specific regulations and safety standards for charging infrastructure. If charging stations are not properly secured, this can lead to legal liability in the event of an accident. Therefore, it is necessary to take preventive measures to secure charging stations and comply with regulations. This reduces legal risks and shows that you value safety.

FORGET STEEL

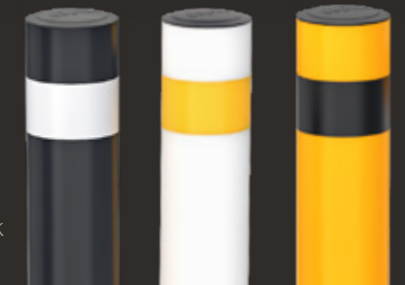
The polymer bollards' flexibility allows them to absorb the impact and protect the charging station. After a collision, they return to their original shape. A steel bollard, on the other hand, will already be damaged and in need of replacement after a single collision. Moreover, a steel bollard causes additional damage. Not just to the ground to which it is secured, but to the vehicle in particular. If you want to avoid problems with vehicle owners, opt for a polymer bollard.



MAXIMUM VISIBILITY

BO125L EV and BO145L EV bollards are available in several distinctive colours, making them highly visible in any situation.

- Available colours: yellow, black and white
- To make the bollards stand out even more, a reflective yellow, white or black strip can be added.



OPTIONAL ACCESSORIES



Cable hook

Users can hang up their charging cable on a hook, preventing the cable from getting dirty or wet.



SignMark 150

BO125L EV and BO145L EV can be equipped with a SignMark warning sign with a 150 mm diameter.

ADVANTAGES

- Prevents damage to the vehicle
- UV resistance
- Long lifespan
- Finished look: concealed fasteners
- Maximum visibility
- Easy installation
- Various options and versions
- Low maintenance
- Returns to original shape after a collision



**READY
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