# **BLACK BULL FLEX+ post,** Polymer, yellow, S-Line start/end

## Flexible impact protection that thinks for itself

The BLACK BULL FLEX+ series is a modular impact protection system for warehouses, logistics and production. It protects people, buildings, machines and racking wherever internal traffic takes place - reliably, permanently and economically. Instead of rigid barriers, FLEX+ relies on controlled absorption: The system absorbs energy, redirects forces and then returns to its original form. This means that processes remain safe - even after an impact.

## Absorbing energy instead of causing damage

In the event of an impact - for example from a forklift truck, hand pallet truck or tugger train - the FLEX+ crossbars deform in a targeted manner. The impact energy is not stopped abruptly, but distributed over the entire protective line. The crossbars give way. The connecting elements transfer the force. The post absorbs the forces. The base protects the floor and fastening. The ground anchor transfers the force into the ground. After contact, the entire system straightens up again automatically. Replacement is rarely necessary.

## What happens in detail on impact

Crossbars & posts

The polymer crossbars are the visible protective element. They cushion the impact, absorb the forces and prevent damage to the vehicle. Result: less damage, lower repair costs, high process reliability.

Connections & junctions

The FlexLink connection technology is the heart of the system. It ensures that forces act over a large area rather than at specific points. Anchor points and the floor are relieved. Result: No cracking, no loose posts.

Base

The FLEX+ Base connects the posts to the Base ground anchor and is an impact-resistant outer shell. Internal screw connections protect the tires of forklifts and pallet trucks. The result: tires and ground anchors are reliably protected.

Base ground anchor

The FLEX+ Base ground anchor combines robust anchoring using concrete screws and force-absorbing rubber dampers. It protects the ground and ensures stable ground anchoring. Result: The floor remains intact - even with multiple loads.

## Multiple impacts? No problem.

FLEX+ is made for everyday use. The system remains functional, especially after repeated bumps. No permanent deformation. Durable plastic thanks to high elasticity. This significantly reduces downtimes and follow-up costs.

## The FLEX+ impact protection range - solutions for every application

- Posts - selective protection for gates, machines, corners

- Underrun protection - stops forks and vehicles at ground level

- L-Line impact protection railing - safe separation of traffic and work areas

**Important note:** The information is based on manufacturer data as well as practical experience. For legally compliant use, the applicable regulations, standards, and codes as well as local conditions must always be taken into account. Technical changes, printing errors, and mistakes are reserved.

- S-Line impact protection railing - protection for pedestrians

- High-Line impact protection railing - specially designed for block storage and to protect goods from tipping over

The FLEX+ series follows a clear system logic and can be freely combined. All elements interlock and form continuous lines of protection - from low to high, from point to area.

### Typical application scenarios

- Ideal for high-traffic zones with frequent "bumps" with light industrial trucks and mixed traffic (AMR, people)

- Protects people, processes and sensitive work areas

- Safeguarding of transfer zones and buffer areas

## Properties

| | |
|---|---|
| Application Area | Inside |
| Certificate | PAS 13:2017 |
| Colour | yellow |
| Depth | 152.4 mm |
| Design | S-Line |
| Diameter | 152.4 mm |
| Hazardous Goods | no |
| Height | 1016 mm |
| Main Material | Polypropylene (PP) |
| Material Thickness | 6.5 mm |
| Temperature Resistant | 0 - 54 ° |
| Weight (gross) | 2.88 kg |
| Width | 152.4 mm |

## Accessories & Add-ons

| Category | Text | Quantity |
|---|---|---|

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