

## **BLACK BULL FLEX+ impact protection railing, Polymer, black/yellow, S-Line center extension**

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### **Flexible crash protection railing S-Line**

The BLACK BULL FLEX+ crash protection railing S-Line protects wherever pedestrians, internal traffic and work areas meet. It ensures safe separation of walkways, driveways and work areas and is used in warehouses, production and logistics along traffic routes, picking areas and workstations. The focus is on clearly visible demarcation between traffic routes and work zones.

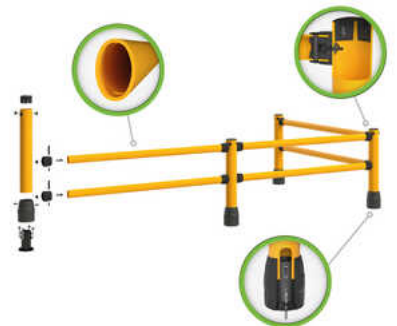
Instead of rigid barriers, the system relies on controlled absorption: In the event of an impact, the railing absorbs energy, distributes forces across the entire protective line and then returns to its original shape automatically. This maintains the protective function and visibility - even after contact.



### **What happens in detail on impact**

#### Crossbars & posts

The polymer crossbars of the S-Line form a clearly visible, continuous protective line at an ergonomic height. They cushion the impact, absorb energy and prevent vehicles from entering pedestrian areas in an uncontrolled manner. The posts absorb the transmitted forces and ensure stability along the entire protective line. Result: Increased personal protection, less risk of injury, safe working areas.



#### Connections & junctions

The FlexLink connection technology ensures that forces are distributed evenly rather than acting at specific points. This relieves the load on individual components as well as the floor and anchor points. Result: Permanently stable protection lines without loose posts or ground damage.

#### Base

The FLEX+ Base connects the posts to the Base ground anchor and forms an impact-resistant outer shell. It protects the internal screw connection and prevents damage to the tires of industrial trucks. The result: high suitability for everyday use and reduced maintenance.

#### Base floor anchor

The FLEX+ Base floor anchor combines robust anchoring in concrete with force-absorbing rubber dampers. This design reduces the load on the screw connection, protects the ground and ensures a permanently stable attachment - even with repeated approaches.

### **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.

### **Typical application scenarios for the FLEX+ S-Line crash barrier**

The S-Line is particularly suitable for areas with high pedestrian traffic: Separation of walkways and traffic areas, protection of workstations along forklift routes, picking, packing, assembly and crossing areas. A typical example is a warehouse or production area with busy walkways along traffic routes. The FLEX+ S-Line impact protection railing creates clear structures and can be flexibly adapted or extended - seamlessly integrated into a holistic FLEX+ protection concept.

Properties

|                         |                    |
|-------------------------|--------------------|
| Application Area        | Inside             |
| Base Plate (Dimensions) | Ø850 × 6,4 mm      |
| Certificate             | PAS 13:2017        |
| Colour                  | yellow / black     |
| Crossbar (length)       | 2260.6 mm          |
| Design                  | S-Line             |
| Drill hole spacing      | 110 × 110 mm       |
| Fixing Holes Diameter   | 18 mm              |
| Fixture                 | For doweling       |
| Hazardous Goods         | no                 |
| Height (Overall)        | 1170 mm            |
| Main Material           | Polypropylene (PP) |
| Material 2              | Metal              |
| Temperature Resistant   | 0 - 54 °           |
| Test load               | 3463 J             |
| Weight (gross)          | 21.72 kg           |



Accessories & Add-ons

|                                                                                    | Category    | Text                                               | Quantity |
|------------------------------------------------------------------------------------|-------------|----------------------------------------------------|----------|
|  | Consists of | BLACK BULL FLEX+ Base                              | 1        |
|  | Consists of | BLACK BULL FLEX+ Base floor anchor                 | 1        |
|  | Consists of | BLACK BULL FLEX+ concrete screw                    | 4        |
|  | Consists of | BLACK BULL FLEX+ connector crossbar S- & High-Line | 4        |
|  | Consists of | BLACK BULL FLEX+ Crossbar S- & High-Line           | 2        |
|  | Consists of | BLACK BULL FLEX+ S-Line center post                | 1        |

|                                                                                   | Category    | Text                       | Quantity |
|-----------------------------------------------------------------------------------|-------------|----------------------------|----------|
|  | Consists of | BLACK BULL FLEX+ cover cap | 1        |