FLEX IMPACT 3.1.EN

The best flexible impact system for optimal protection
Boplan designs, develops and manufactures durable and extremely efficient safety barriers for demanding environments. The focus is on the protection of people, vehicles, buildings and infrastructure. We only make use of high-quality and extremely strong plastics whereby the features of traditional raw materials become meaningless.

Boplan modular systems are the most innovative available on the market and already today they secure industrial buildings, warehouses, production halls, airports, drilling platforms and (petro)chemical sites. We offer a solution for any specific application.

Thanks to our passion for quality and sense for innovation we became one of the sector’s leading companies. All products and systems are manufactured in Belgium and are previously tested to the highest standards.
FLEX IMPACT was specially developed to create a safe (working) environment in an economically sound way. To ensure perfect protection of people, machinery, tools, goods, buildings and infrastructure in places where forklift trucks, carriages or other vehicles are used. After all, machine downtime or repairs after collision still result in much too high, unreasonable costs. Moreover, there are also the negative consequences in case of human injuries. Therefore, the FLEX IMPACT system was extensively and largely tested to comply with the strictest safety standards. FLEX IMPACT was developed totally modularly so the separate elements can be easily positioned and, if required, replaced. This is a cost-saving factor that must be highly valued.
TECHNOLOGY
Highly technological, extremely impact-resistant and ecofriendly

Still too often iron and steel are used in industrial safety barriers, all disadvantages included: materials must be treated and coated, the metal deforms with every collision (resulting in expensive repair or replacement), element fasteners are torn loose so the concrete flooring is damaged, the parts are quite heavy which makes installation and transport difficult, etc. FLEX IMPACT is made of thick-walled, reinforced plastic elements. This implies an increased impact resistance, even in case of high collision speeds. The elements are flexible so after a collision they regain their original shape.

Why plastic?
Our high-quality and very strong plastics perfectly cover the disadvantages of steel and offer a whole range of other advantages:

- rust and corrosion resistant
- chemical resistant
- mass-coloured
- active memory
- compressible and flexible
- limited damage to vehicles and rolling stock
- fastenings cannot be torn from the floor
- extremely safe and impact resistant, even in case of high-speed collision
- easy use, assembly and maintenance
- modular and thus easily adjustable
- extremely long life
- limited ecological footprint
- light and thus lower environmental impact when it comes to shipping
- 100% recyclable – green solution
- cost-reducing

FORWARD-LOOKING AND GREEN
Boplan deploys all required people, means and techniques to offer qualitative, competitive and innovative safety solutions. All based on a passion for durable business. We hereby apply a far-driven Cradle-to-Cradle philosophy whereby used installations (also made of metal) are taken back to be recycled into new raw materials for other applications. Our own production waste is re-used in the same way. Moreover, our products are very light so they do not unreasonably stress the environment with polluting shipments.

Also our new industrial buildings in Belgium are an example of durability: on-site generation of electricity through solar panels, sound construction materials, perfect use of natural lighting, far-driven insulation and ventilation with air conditioning controlled by heat pumps.
PRODUCTS
Discover our large product range

HANDRAILS
Multifunctional rail system for both indoor and outdoor application

TRAFFIC BARRIERS
Protection against forklift truck and other vehicle traffic

BOLLARDS & GOAL POSTS
Protection of gates and entrances

RACK PROTECTORS
Perfect protection of racks

COLUMN & CORNER PROTECTORS
The best protection for supporting posts and columns

SAFETY GATES & FLOOR MARKING
Innovative entrance gates and marking systems
DISCOVER THE UNIQUE ADVANTAGES OF OUR HANDRAILS
convenient and modular · easy installation · perfect visibility · complies with all safety standards
A peaceful co-existence of people and vehicles demands strict regulations as well as safe delimitations. FLEX IMPACT Handrails were specially designed to logically and clearly separate people from traffic in gangways or other busy places. Our handrails are available in heavy-duty and light versions and offer maximum safety thanks to their strong, impact-resistant construction made out of plastic. Moreover, the handrails include 2 or 3 rails, depending on the location to be secured.

**HD LIGHT**
Separation for pedestrians and section blocking

- Product: modular, std. L 1,500 x H 1,100 mm (all sizes available, up to 2,000 mm), 2 fasteners
- Accessories: corners, skirting-boards, stainless steel version, etc.

**HD MEZZA**
Separation for pedestrians on mezzanines, floors and heights

- Product: modular, std. L 1,500 x H 1,100 mm (all sizes available, up to 1,500 mm), 2 fasteners, including skirting-board
- Post colour: std. B (option: Y-BL) / Rail colour: std. YB
- Accessories: corners, skirting-boards, stainless steel version, etc.

**HP PLUS**
Reinforced segregation for pedestrians and delimitation of high-risk areas with traffic

- Product: modular, std. L 1,500 x H 1,100 mm (all sizes available, up to 2,000 mm), 4 fasteners
- Accessories: corners, skirting-boards, stainless steel version, gates, marking, etc.

Colours of ergonomic rails (all sizes available):

- Y = yellow
- G = grey
- YB = yellow/black
- BY = black/yellow
- BR = black/red
- BO = black/orange
- BL = black/luminescent
DISCOVER THE UNIQUE ADVANTAGES OF OUR TRAFFIC BARRIERS

extremely impact resistant · modular and easy to install · subjected to the strictest tests · retain shape, look and features after collision
FLEX IMPACT Traffic Barriers were specially designed to protect machinery and buildings against collisions of forklift trucks and other heavy-duty vehicles. They are intended for use in environments where fast shipment occurs or where heavy loads are shipped. Crash tests have demonstrated that the barriers can resist the impact of a 3.5 ton forklift truck collision at high speed. Moreover, fasteners are not torn from the floor and the flexible elements regain their original shape after the impact. Because of their modular construction the Traffic Barriers enable phased finishing or extension. The TB Mini is an adequate protection against light vehicles.

**TB 200 ★★★**

Delimitation of areas for vehicles, dock levelers and wheel stoppers

- Product: modular, std. L 1,600 x H 210 mm (all sizes available, up to 2,000 mm), 4 fasteners
- Post colour: std. BY (option: G-B-O-BO) / Rail colour: std. Y (option: G-B-O)
- Accessories: corners, stainless steel version, etc.

**TB 400 ★★★**

Delimitation of areas for vehicles with impact risk

- Product: modular, std. L 1,600 x H 400 mm (all sizes available, up to 2,000 mm), 4 fasteners
- Post colour: std. BY (option: G-B-O-BO) / Rail colour: std. Y (option: G-B-O)
- Accessories: corners, stainless steel version, skirting-boards, etc.

**TB 550 ★★★**

Delimitation of areas for vehicles with impact risk

- Product: modular, std. L 1,600 x H 550 mm (all sizes available, up to 2,000 mm), 4 fasteners
- Post colour: std. BY (option: G-B-O-BO) / Rail colour: std. Y (option: G-B-O)
- Accessories: corners, stainless steel version, skirting-boards, etc.

**TB PLUS ★★★**

Delimitation of areas for vehicles and pedestrians with impact risk

- Product: modular, std. L 1,600 x H 1,100 mm (all sizes available, up to 2,000 mm), 4 fasteners
- Post colour: std. BY (option: G-B-O-BO) / Rail colour: std. Y (option: G-B-O)
- Accessories: corners, stainless steel version, skirting-boards, etc.
TB DOUBLE ★★★★★
Delimitation of areas for vehicles with a very high impact risk

- Product: modular, std. L 1,600 x H 750 mm (all sizes available, up to 2,000 mm), 4 fasteners
- Post colour: std. BY (option: G-B-O-BO) / Rail colour: std. Y (option: G-B-0)
- Accessories: corners, stainless steel version, skirting-boards, etc.

TB DOUBLE SUPER ★★★★★
Delimitation of areas for vehicles with a very high impact risk

- Product: modular, std. L 1,600 x H 1,100 mm (all sizes available, up to 2,000 mm), 4 fasteners
- Post colour: std. BY (option: G-B-O-BO) / Rail colour: std. Y (option: G-B-0)
- Accessories: corners, stainless steel version, skirting-boards, etc.

TB TRIPLE SUPER ★★★★★
Delimitation of areas for vehicles with a very high impact risk

- Product: modular, std. L 1,600 x H 1,100 mm (all sizes available, up to 2,000 mm), 4 fasteners
- Post colour: std. BY (option: G-B-O-BO) / Rail colour: std. Y (option: G-B-0)
- Accessories: corners, stainless steel version, skirting-boards, etc.

TB MINI ★
Delimitation of areas for light transport vehicles with a low impact risk

- Product: std. L 2,000 x H 180 mm (all sizes available, up to 1,999 mm), 2 fasteners
- Colour: std. Y-B
- Accessories: stainless steel version, skirting-boards, etc.
DISCOVER THE UNIQUE ADVANTAGES OF OUR BOLLARDS & GOAL POSTS
extremely impact resistant · modular and easy installation · reflecting colours and patterns for a better visibility · retain shape, look and features after collision
Usually, when gates and entrances are hit, big and long-term problems arise. After all, the flow of people and products might be disturbed for a long time. FLEX IMPACT Bollards and Goal Posts can easily and efficiently prevent this. Their plastic construction ensures a perfect energy absorbing capacity. This implies that both Bollards and Goal Posts, and the gates and the colliding vehicles are kept free from damage.

**BO LIGHT ★**
Low impact risk for gates, entrances, corners, machinery, delimitation
- Product: std. H 750 mm (all sizes available, from 250 mm up to 1,000 mm), 4 fasteners
- Accessories: corners, stainless steel version, etc.

**BO IMPACT ★★ / BO SUPER ★★★**
Frequent impact risk for gates, entrances, corners, machinery, delimitation
- Product BO Impact: std. H 1,200 mm (all sizes available, from 250 mm up to 2,500 mm), 4 fasteners
- Product BO Super: std. H 1,200 mm (all sizes available, from 250 mm up to 2,500 mm), 4 fasteners
- Accessories: corners, stainless steel version, sensor, light, etc.

**GOAL POST**
High impact risk for gates, entrances, height and porch roof delimitation
- Product: all sizes available, up to H 6,000 mm, B 4,500 mm, 4 fasteners
- Colour: std. Y-B-O-G
- Accessories: stainless steel version, touch barriers, stripes, signs, sensors, etc.
DISCOVER THE UNIQUE ADVANTAGES OF OUR RACK PROTECTORS

extremely impact resistant · available as rack ends, rack protectors and bollards · modular and easy to install · retain shape, look and features after collision
Collisions with warehouse racks can have far-reaching consequences. They almost always result in extremely high material costs when the racks collapse, often even worsened by an uncontrollable domino effect. Moreover, this almost always leads to life-threatening situations for the forklift truck driver or for other people in the building. Such disaster scenario can now easily be precluded by installing our FLEX IMPACT Rack Protectors.

**RP RACK PROTECTOR**

Rack protection for footrests

- Product: small-medium-large, std. H 600 mm (all sizes available), click system, temperature from -40°C to +60°C
- Colour: std. Y (other colour on demand)
- Accessories: Installation kit, etc.

**RE RACK END**

Rack protection

- Product: std. H 550 mm, L all sizes available, up to 3,200 mm, 4 fasteners
- Accessories: stainless steel version, support post, etc.

**PL KICK**

Kick rail, conductor, skirting-boards, wall protection, wheel stopper

- Product: H 112 or 180 mm, L all sizes available
- Colour: Y-B-BY
- Accessories: stainless steel version, etc.
DISCOVER THE UNIQUE ADVANTAGES OF OUR COLUMN & CORNER PROTECTORS
extremely impact resistant · remarkable compressive strength · durable and maintenance-free ·
retain shape, look and features after collision
Supporting posts and columns in industrial buildings should be perfectly protected. After all, in the long term, collisions can endanger the stability of the entire construction. Our Column Protectors are made out of two parts which are simply closely attached around the post. Their compressive strength is huge so any shocks are perfectly dampened and collected, and the post is kept free from structural damage. Smaller, non-supporting columns can be protected with our Corner Protectors.

**COLUMN & CORNER PROTECTORS**

The best protection for supporting posts and columns

Supporting posts and columns in industrial buildings should be perfectly protected. After all, in the long term, collisions can endanger the stability of the entire construction. Our Column Protectors are made out of two parts which are simply closely attached around the post. Their compressive strength is huge so any shocks are perfectly dampened and collected, and the post is kept free from structural damage. Smaller, non-supporting columns can be protected with our Corner Protectors.

**KP PROTECTOR ★★★**

Column protection, wall protection, post protection

- Product: 100 x 100 mm, 150 x 150 mm, 200 x 200 mm, 300 x 300 mm, 400 x 400 mm, 500 x 500 mm
- Colour: std. Y (other colours available on demand)
- Accessories: stainless steel version, lock, etc.

**KP UNIVERSAL ★★**

Column protection, post protection

- Product: one size fits all, H 750 mm, easily adjustable
- Colour: Y
- Accessories: signal strips, etc.

**CP PROTECTOR**

Corner protection, machine protection, wall, garage, etc.

- Product: one size fits all, H 1,000 mm, for installation use glue or screws
- Colour: Y-B
- Accessories: stainless steel fastening, etc.
DISCOVER THE ADVANTAGES OF THE SAFETY GATES & FLOOR MARKING

durable and reliable · modular and easy installation · accompanying parapets · maintenance-free
Gates that are carelessly left open can seriously affect safety. Our Safety Gates range eliminates these risks thanks to self-closing sliding and swinging gates with accompanying parapets. This results in a smooth and safer traffic between the various areas in your company.

**SAFETY GATES & FLOOR MARKING**  
Innovative entrance gates and marking systems

For safety reasons self-adhesive icons and marking systems are very important. Our icons are available in various sizes and version, and our range includes all common international warning and prohibition signs that are used in industrial environments. Moreover, we dispose of an extended range of marking systems made of strips in flashing colours or of loose adhesive elements.

**SG SLIDING**  
Gates, access, aisles, access to machinery, etc.
- Product: std. 1,000-1,500-2,000 mm (all sizes available, up to 2,000 mm)
- Colour: std. BY (option: G-YB-Y-BL)
- Accessories: safety signs, stainless steel version, stainless steel fasteners, etc.

**SG SWING**  
Gates, access, aisles, access to machinery, etc.
- Product: std. 1,000-1,500-2,000 mm (all sizes available, up to 2,000 mm)
- Colour: std. BY (option: G-YB-Y-BL)
- Accessories: safety signs, stainless steel version, stainless steel fasteners, etc.

**LINE PLAN**  
Concrete floors, aisles, gangways, working areas, traffic areas, etc.
- Product: std. B 50-75-100-150 mm, L 3,000 mm per roll
- Colour: colours on demand
- Accessories: installation of traverser, etc.
The certainty we offer you, relies on detailed tests. Specialized staff execute static and dynamic tests. And finally, realistic field tests are executed: our products are subjected to crash tests on a racing circuit whereby a 3.5 ton lift-truck crashes into our barriers with an ever increasing speed. High speed cameras register the speeds, impact corners, deformations and precise impact place. This enables us to manufacture and launch products that comply with the most severe safety standards.

The test collisions were executed with various speeds and in various corners as opposed to the barriers. In all circumstances the collision security survived the collision, and also the forklift truck’s condition was still safe after each impact.

These tests enabled us to develop a special software that, through a collision simulation, predicts behaviour, load, impact, deflection, tension and other parameters of our products.

In order to incorporate the thus acquired knowledge into all of our products, we collaborate with recognized consulting firms and (university) research centres. Thanks to our relevant knowhow we were asked to be adviser in helping determine our sector’s safety standards.
Every day our highly qualified employees commit themselves in finding the solution that fits you best. First, CAD drawings are used to make a detailed plan of the areas, machinery or parts to be protected. This results in an accurate offer. After approval, we manufacture and prepare the required pieces and elements. Our own team of professionals installs the construction at your premises and takes care of maintenance after installation, if it should be required. A profound preparation, follow-up and control of every project always results in the safest and most efficient protection, fully in accordance with your specific needs.

**MAINTENANCE AND SERVICE**

All our products are used in extremely stressful environments. Nevertheless, they must never fail and work at any time. To ensure their perfect operation and extend their life, we recommend regular service and maintenance. Therefore you can contact our maintenance service that will offer you a service contract designed to your specific situation. If fiscally interesting for you, you can hire or lease our products instead of buying them.

**WHAT ARE THE GUARANTEES?**

Our customers have high demands and likewise, we aim high. In order to do so, we execute tests and verifications during the entire production procedure so we are sure that all products leave the factory in a perfect condition. This strict policy allows us to grant a minimal 24 month (from purchase date) guarantee on our products for acknowledged production errors. The guarantee term can be extended if the service contract is also entered into. In the future we will continue to invest so we can keep on giving you the best guarantees. Our guarantee conditions are available on simple demand.
TB Triple Super / steel manufacturer

TB Plus / pharmaceutical firm

TB Plus - SG Swing - BO Impact / company in electronics

BO Impact / hospital emergency ward

TB Plus / food coldstore

TB Mini - KP Universal / pharmaceutical firm

TB 400 / automotive

HP Plus - BO Impact - Gate / warehouse
TB Plus - KP - SG Swing / warehouse

TB Plus - SG Swing / automotive company
If you would like further information on our products or services, please contact our headquarters in Belgium or one of our establishments in France, Germany or the Netherlands. Boplan also works with various local distributors worldwide. To find your local dealer, check out our website: www.boplan.com.