



D-FLEXX FLEXIBLE SAFETY BARRIER SYSTEM

PRODUCT OVERVIEW

PROTECTING PEOPLE, PROPERTY, AND PROCESSES.

WELCOME



- **D-FLEX I FLEXIBLE IMPACT PROTECTION**
- The flexible material is **DEFORMING** and **RETURNS** after a collision to **IT'S ORIGINAL SHAPE**
- For **OUTDOOR** and **INDOOR** use
- **100% RECYCLABLE**
- **EASY INSTALLATION** - fixing material included
- **MINIMIZES MAINTENANCE COSTS** considerably
- Product variation for individual needs
- Individual cutted products for **CUSTOM FITTING**

WHO WE ARE



COST EFFICIENT
After a collision, environment and vehicles are undamaged, strongly reducing maintenance cost durable.



STAINLESS Unlike steel, polyethylene does not rust and is therefore much more durable.



SAFETY is a key-topic in every industry. Provided the correct way, it ensures a protected work environment for people and machines. This innovative impact protection technology made of polyethylene has many distinct advantages over steel crash protection products:



FLEXIBILITY The polyethylene material reliably absorbs the impact energy of forklifts and industrial trucks and releases it once the vehicle leaves the impact site.



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Troax is a global developer and manufacturer of steel mesh panels for Machine Guarding, Warehouse Partitioning and Property Protection. This brochure presents our solutions for the market segment Machine Guarding. Our business concept is to develop innovative steel mesh panel solutions to protect people, property and processes. Our lightweight but strong mesh panels can be combined into unique solutions and are built to withstand the toughest tests and environments. Read more about our systems at www.troax.com

D-FLEXX

FOR MORE THAN 60 YEARS WE HAVE BEEN DEVELOPING INNOVATIVE SOLUTIONS FOR MACHINE GUARDING, WAREHOUSE PARTITIONING, AND PROPERTY PROTECTION. TODAY WE ARE THE MARKET LEADER, AND OUR PRODUCTS CAN BE FOUND ALL OVER THE WORLD – PROTECTING PEOPLE, PROPERTY AND PROCESSES.

INTERNATIONALLY APPROVED

SIMPLE AND EFFICIENT THE ADVANTAGES OF D-FLEXX CRASH PROTECTION PRODUCTS

- TÜV-TESTED*
- Suitable for **OUTDOOR** and **INDOOR USE**
- **EASY INSTALLATION** - mounting equipment included
- **REDUCE** repair and maintenance **COSTS** to a minimum
- **VERSATILE USAGE AREA** - whether in production, warehouse or logistical areas
- **CUSTOMIZED** lengths available to perfectly **SUIT YOUR NEEDS**

D-FLEXX - TÜV TESTED SAFETY

SAFETY is a top priority for Troax. For this reason the products of the d-flexx series have been tested by the German TÜV.



RACK GUARD ALFA

The TÜV-tested and flexible d-flexx rack protection Alfa is an innovative protection for shelves.

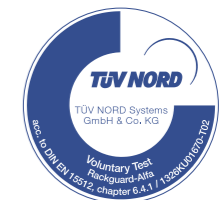
The simple assembly without additional tools allows a quick application and easy handling.

The rack guard is clicked directly onto the shelf to be protected. Due to the not necessary ground fastening, the ground is protected in case of a collision. The d-flexx rack protection Alfa is available in three different heights:

400 mm | 600 mm | 1000 mm for rack legs 75 - 100 mm and 100 - 125 mm.



ALFA



MODERATE IMPACT ABSORPTION



FLEXIBLE BOLLARD BRAVO

The flexible and TÜV tested d-flex bollards Bravo absorb the impact energy. The processed special material does not damage the bollard and the vehicle.

Due to its robustness and high visibility the bollard is ideal to be installed on parkings, entrances and for separation of pedestrian areas.

The d-flex bollards Bravo are available in a diameter of 200 mm and height of 500 mm | 760 mm | 1200 mm.

The fixing material is always included in the delivery.

Bollard Bravo is made of polyethylene with a base plate of 225 x 225 mm



ACCESSORY
*not TÜV-approved

HIGH IMPACT ABSORPTION
● ● ● ● ●

RACK END PROTECTION GOLF

The TÜV-tested and flexible d-flex rack end barriers Golf protect the rack ends in outdoor and indoor use. Once installed, the rack end is not in direct contact with the rack to be protected. This allows the rack end protection to absorb the impact energy.

Cost and time consuming maintenance work will be reduced to the minimum. The moveable cuffs additionally absorb the impact energy. The double rack end is for driveways with heavy pallet trucks.

The fixing material is always included in the delivery.

Rack end protection Golf is made of polyethylene, base plate 225 x 225 mm, pipe Ø 160 mm.



GOLF
HIGH IMPACT ABSORPTION
● ● ● ● ●

GOLF
EXTREME IMPACT ABSORPTION
● ● ● ● ●



FLEXIBLE SAFETY BARRIER DELTA

The TÜV-tested and flexible d-flexx safety barrier Delta is an innovative and economic separation of pedestrian areas and trails. Due to the modular system a customized solution can always be supplied by means of individual cuttings.

The fixing material is always included in the delivery.

Flexible safety barrier Delta is made of polyethylene, post height 1200 mm, post Ø 110 mm, base plate 225 x 225 mm.

Compatible with our swing door Juliet.



DELTA
HIGH IMPACT
ABSORPTION



SLIDER PLATE
*NOT TÜV-APPROVED



Additionally to the Delta safety barrier there are two variants of the Delta barrier with four beams in height 1200 mm and 1600 mm.

The Delta barrier in 1200 mm height with four beams offers a protection with a difference of only 329 mm to the ground for more protection.

The fixing material is always included in the delivery.

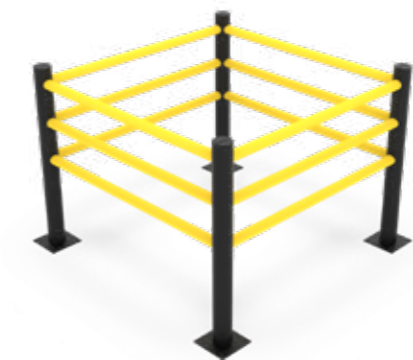
Flexible safety barrier Delta is made of polyethylene, post Ø 110 mm, base plate 225 x 225 mm.

COLUMN PROTECTOR HEIGHT 1200 mm DELTA.

Column protector made of flexible safety barrier Delta is made of polyethylene, post height 1200 mm, post Ø 110 mm, base plate 225 x 225 mm.



DELTA
HIGH IMPACT
ABSORPTION



DELTA



SWING DOOR JULIET

The swing door Juliet can be integrated in our Delta or Echo system. It can be installed also alone with a Delta or Echo post.

The fixing material is always included in the delivery.

Our swing door Juliet is also available with a wheel.

d-flexx swing door element Juliet is made of polyethylene, opens up to 180°, with hydraulic hinges.



JULIET DOOR + DELTA MIDDLE POST

POSTS FOR SWING DOOR JULIET

D-flexx Delta post for Juliet swing door is made of polyethylene, post Ø 110 x 1200 mm height, fixing material included.



JULIET DOOR + DELTA MIDDLE POST



GATE-STOP



USE OF HYDRAULIC HINGES

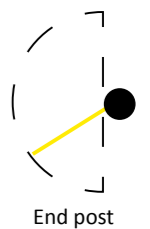
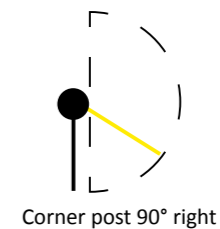
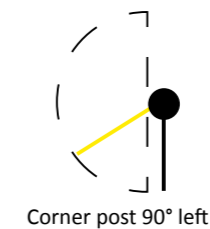
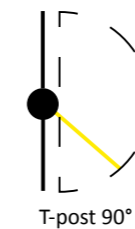
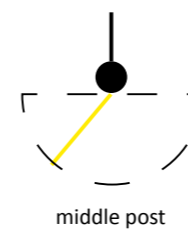


JULIET DOOR + ECHO END POST



BOLLARD

D-FLEXX ECHO POST FOR JULIET SWING DOOR IS MADE OF POLYETHYLENE, POST Ø 200 X 1200 MM HEIGHT, FIXING MATERIAL INCLUDED



TRAFFIC BARRIER ECHO

TRAFFIC BARRIER ECHO

The TÜV-tested and flexible d-flex traffic barrier Echo is a combination of the d-flex modules Charlie and Delta.

Due to the additional heavy pipe in the lower part of the traffic barrier plus, pedestrian areas can be protected additionally.

The fixing material is always included in the delivery.

Traffic barrier Echo is made of polyethylene, post height 1200 mm, base plate 225 x 225 mm.

Compatible with our swing door Juliet.



ECHO

EXTREME IMPACT ABSORPTION



SLIDER PLATE

*NOT TÜV-APPROVED

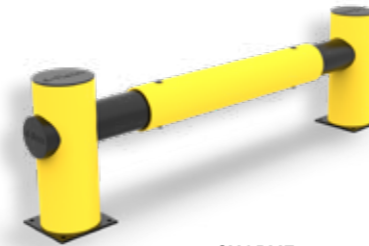
TRAFFIC BARRIER SINGLE RAIL CHARLIE

The TÜV-tested and flexible d-flex traffic barrier Charlie provides an optimal protection for machines, inventory and employees.

Thanks to the easy and fast assembly in combination with individually cutted lengths, traffic routes can be separated quickly and easily from work areas or pedestrian paths. Bollards are a useful addition at the end of the traffic barriers.

The fixing material is always included in the delivery.

Traffic barrier single rail Charlie, modular, height 500 mm is made of polyethylene, post Ø 200 mm and base plate 225 x 225 mm.

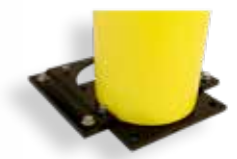


CHARLIE

EXTREME IMPACT ABSORPTION



END POST CHARLIE



SLIDER PLATE

*NOT TÜV-APPROVED



KERB BARRIER MIKE

The flexible d-flexx kerb barrier Mike is the ideal product to protect walls and assembly lines from collisions in low ground areas.

The round shape allows the colliding forklift to bounce off the barrier, therefore absorbing the force. It functions as a guide throughout the installed area. The kerb barrier Mike can be combined with most of our d-flexx collection for a full safety solution.

As our other products, it is made from polyethylene to absorb the impact force and return into its original shape.

It is easy to install with just two screws and a cost-effective way to prevent low ground collisions.

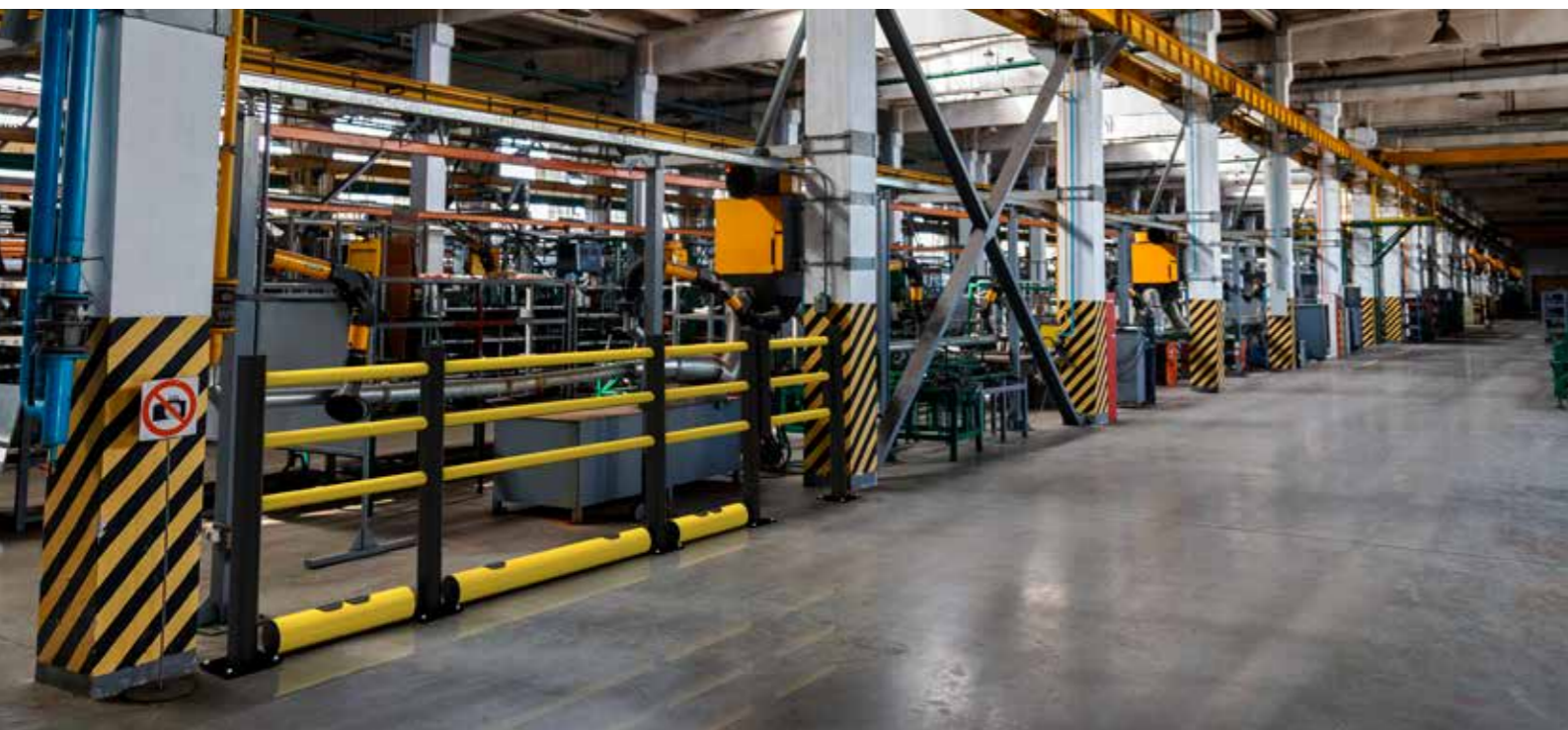
The fixing material is always included in the delivery.

The height of the kerb barrier is 140 mm.

**HIGH IMPACT
ABSORPTION**

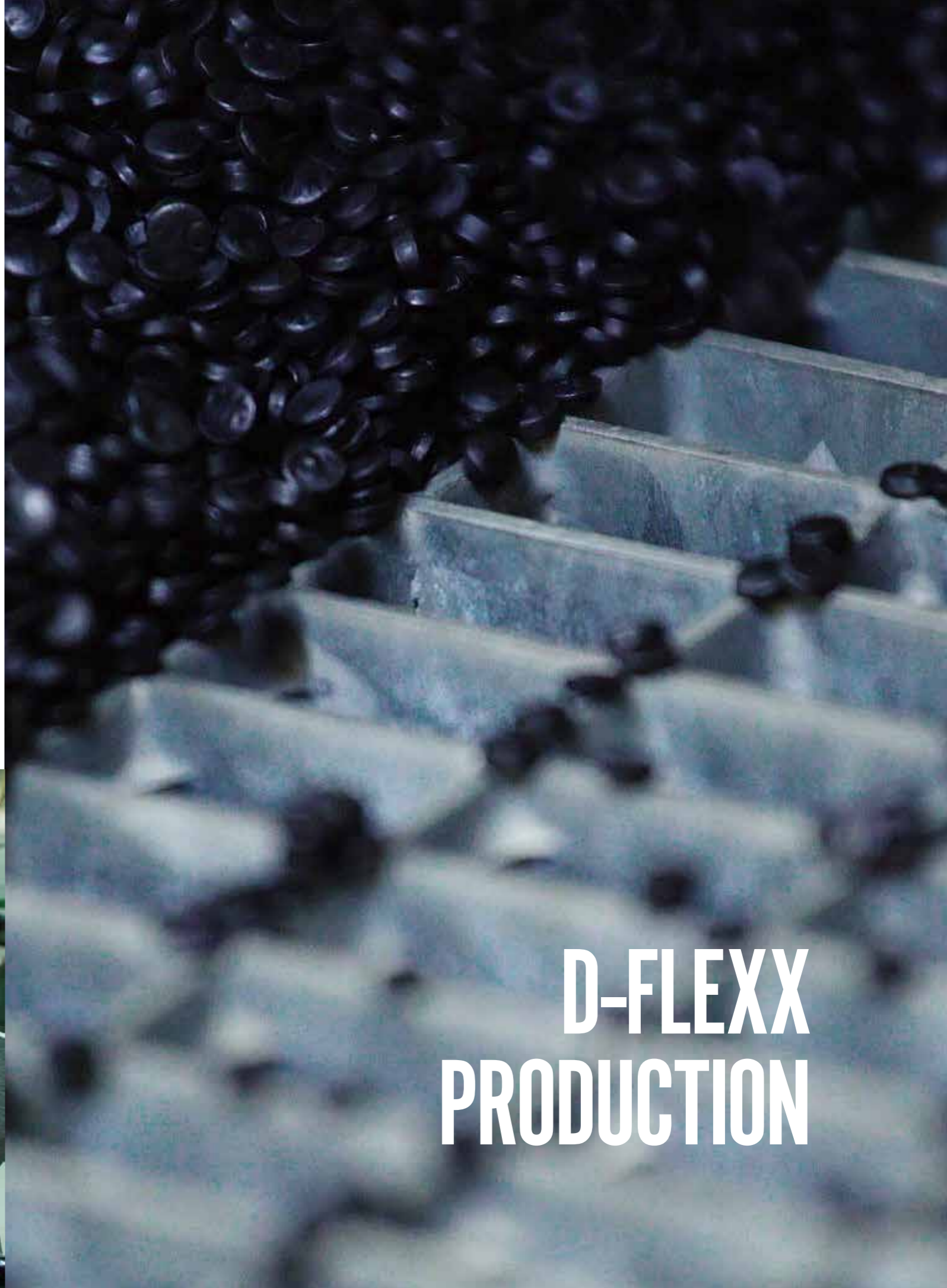


**COMPATIBLE WITH THE FOLLOWING PRODUCTS:
DELTA, CHARLIE, ECHO AND GOLF.**



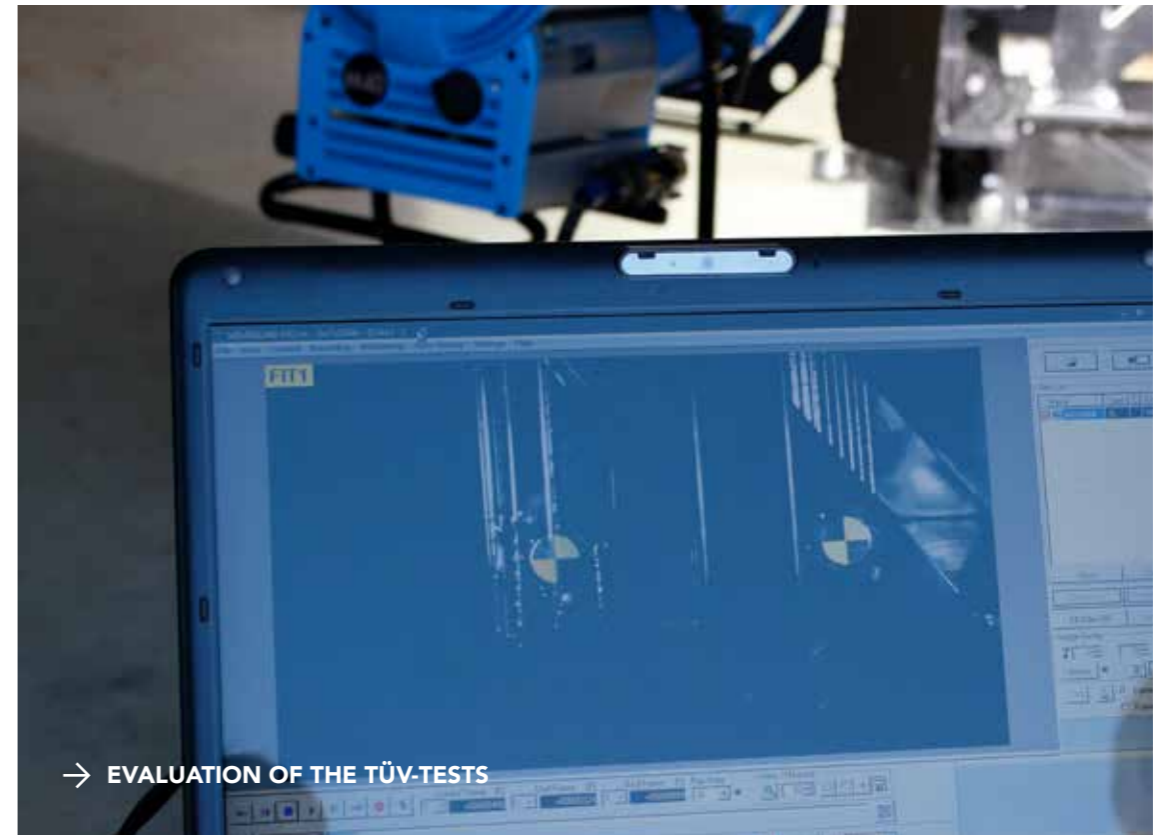


→ D-FLEXX PRODUCTION



**D-FLEXX
PRODUCTION**

FLEXIBLE PRODUCTION



PRODUCT OVERVIEW

ENDLESS SIZE

DELTA + DELTA-C



HIGH IMPACT ABSORPTION



HIGH IMPACT ABSORPTION



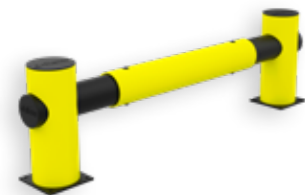
HIGH IMPACT ABSORPTION



JULIET



CHARLIE



EXTREME IMPACT ABSORPTION



ECHO



EXTREME IMPACT ABSORPTION



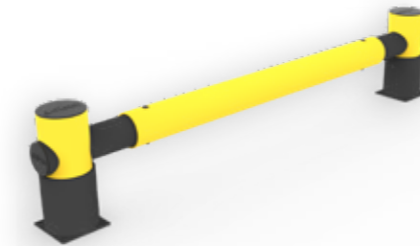
PRODUCT OVERVIEW

FIXED SIZE

GOLF



EXTREME IMPACT ABSORPTION



HIGH IMPACT ABSORPTION



BRAVO



HIGH IMPACT ABSORPTION



ALFA



MODERATE IMPACT ABSORPTION



MIKE



HIGH IMPACT ABSORPTION



*IMPACT ANGLE 90°
 *EXTREME IMPACT ABSORPTION EQUALS 10,000 JOULES
 HIGH IMPACT ABSORPTION EQUALS 2,500 JOULES
 MODERATE IMPACT ABSORPTION EQUALS 400 JOULES

*IMPACT ANGLE 90°
 *EXTREME IMPACT ABSORPTION EQUALS 10,000 JOULES
 HIGH IMPACT ABSORPTION EQUALS 2,500 JOULES
 MODERATE IMPACT ABSORPTION EQUALS 400 JOULES

MAKING YOUR WORLD SAFE

