

D-FLEXX FLEXIBLE SAFETY BARRIER SYSTEM

CATALOGUE

PROTECTING PEOPLE, PROPERTY, AND PROCESSES



PART OF TROAX GROUP



HI THERE!

What do we want for every industrial and logistics facility?

We want safe employees, protected buildings and machines, and uninterrupted operations. They want fewer repairs and no unnecessary downtime.

d flexx delivers exactly that. We design smart, flexible safety systems that prevent accidents, protect infrastructure from impact, and significantly reduce repair costs. Our buffer pipe technology, modular design, and sustainable upcycling approach turn safety into measurable operational savings. Safety made simple, effective, and cost efficient.

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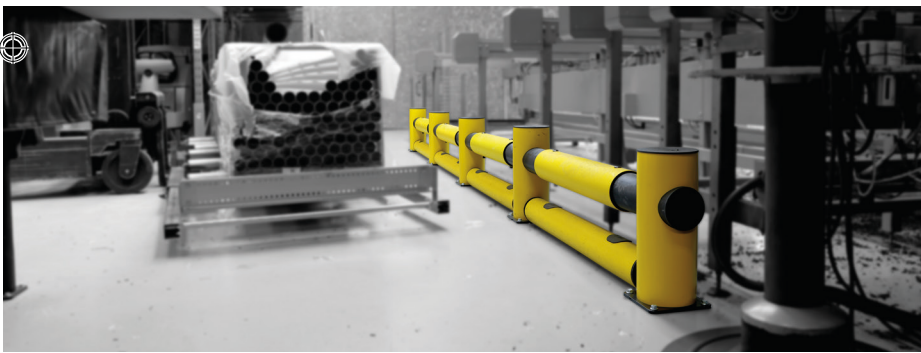
SMART SAFETY SOLUTIONS

Our customers want safety, reliability, and cost-efficiency. They want to keep their people safe, avoid damages to buildings, racks, and machines, and prevent costly downtime or repairs.

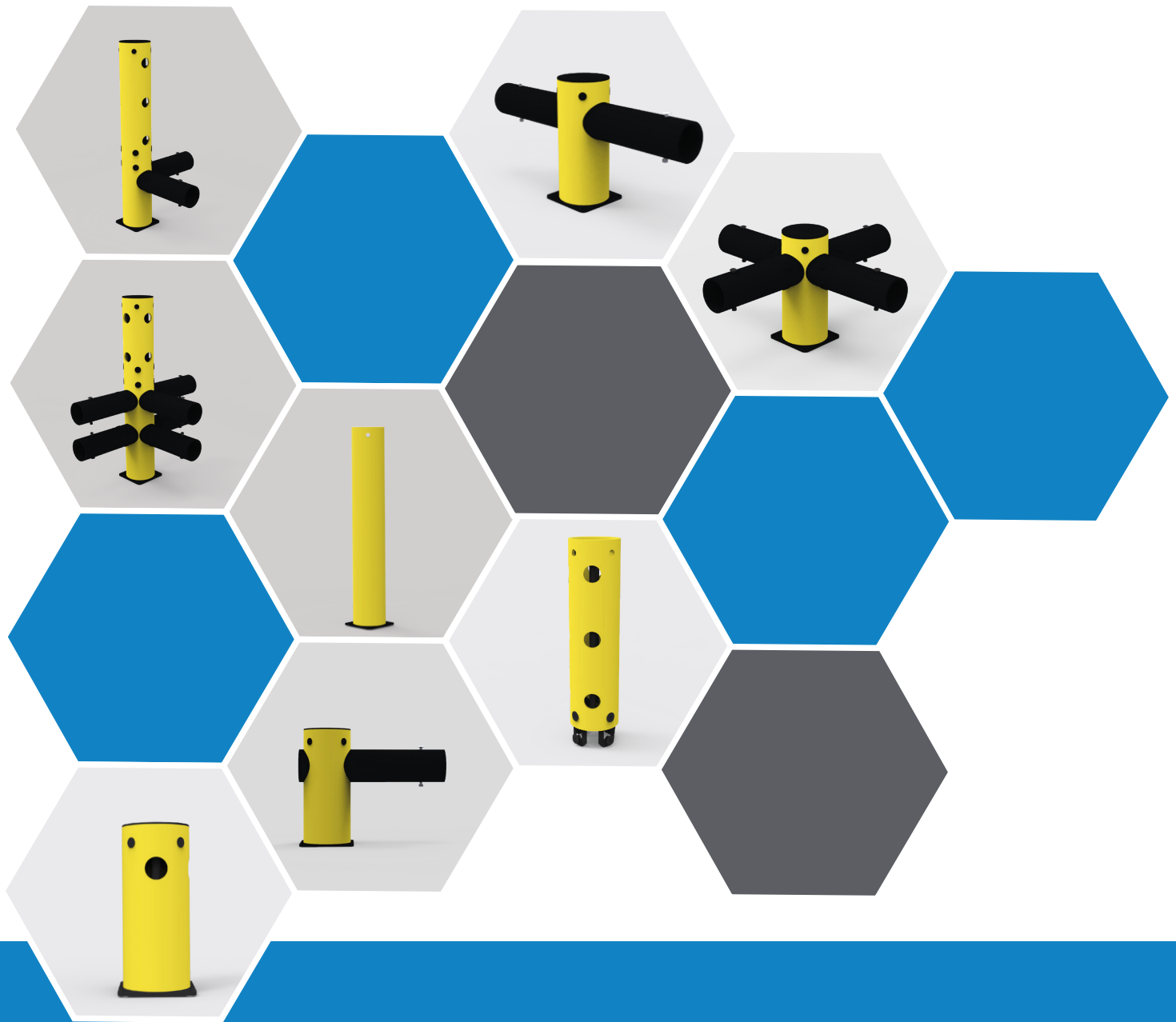
D-FLEXX DELIVERS EXACTLY THAT:

- Protects employees, infrastructure, and equipment from impacts and accidents
- Reduces repair and downtime costs with innovative bufferpipe technology
- Provides true modularity – easy to install, adapt, and extend
- Ensures durability: indoor & outdoor use, extreme temperature resistance, high UV-stability
- Supports sustainability with circular economy and upcycling solutions
- Guarantees quality with a 5-year warranty
- One for All – one system for all environments and applications

With d-flexx, safety becomes simple, sustainable, and cost-efficient.



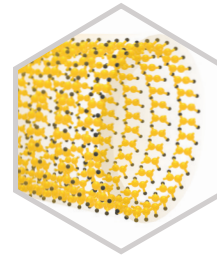
A MODULAR SYSTEM



d-flex safety systems are built on modularity, enabling rapid adaptation to the demands of modern industrial and commercial environments. This flexible design supports quick changes, whether expanding a facility, reorganizing work areas, or meeting new safety regulations. Modules can be reconfigured, extended, or integrated with

other components with minimal effort. Every system is engineered for full compatibility, ensuring smooth integration across the entire d-flex range. The modular approach cuts installation time, simplifies upkeep, and delivers cost-effective scalability without compromising performance.

ADVANCED PE SOLUTION



MINIMALIST DESIGN, MAXIMAL OUTPUT

Our unique advanced polymer structure engineered by our Research and Development department is exclusively found in the d-flex product line. Its innovative design pushes the outstanding properties of polyethylene (PE) to their ultimate performance.

d-flex offers the optimal balance between resistance and flexibility. During a collision, the barrier absorbs the energy, preventing damage to the colliding vehicle and the flooring. Moreover, PE has a native molecular memory that makes it reshape after an impact.

d-flex materials are engineered to fully perform in every environment from indoor to outdoor settings, in both dry and humid conditions, and throughout temperatures from -40°C to 50°C . Polyethylene's chemical resistance and easy-to-clean surface makes it an ideal choice for hygienic environments.

d-flex offers outstanding durability and leverages polyethene's excellent recycling properties, ensuring a sustainable lifecycle from production to disposal.

ONE FOR ALL

Indoor and outdoor use

Versatility is key with d-flex. Whether indoors or outdoors, our products deliver consistent safety and protection, adapting seamlessly to various environments.

Cold and warm stores

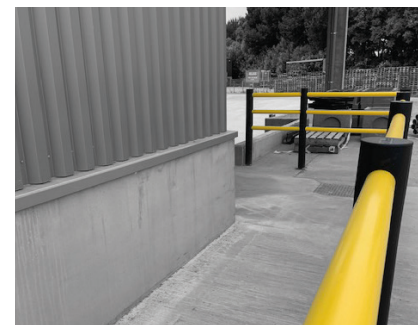
From cold stores to warm environments, d-flex safety barriers maintain their structure and performance regardless of extreme temperatures.

Wide temperature range

With a temperature range spanning from -40°C to $+50^{\circ}\text{C}$, d-flex solutions persist in harsh environments, providing reliable safety measures regardless of the weather conditions.

UV-stability

Our products are engineered with UV-stable materials, ensuring longevity and reliability even in outdoor environments exposed to sunlight.





IMPACT PROTECTION EXPLAINED

As standard, d-flex foot plates are equipped with high-quality concrete screws, also known as concrete anchors or screw anchors. These specialized fasteners are precisely engineered for secure installation into concrete surfaces. With their threaded design, they cut firmly into the drill hole, ensuring strong and reliable anchoring for all d-flex products.

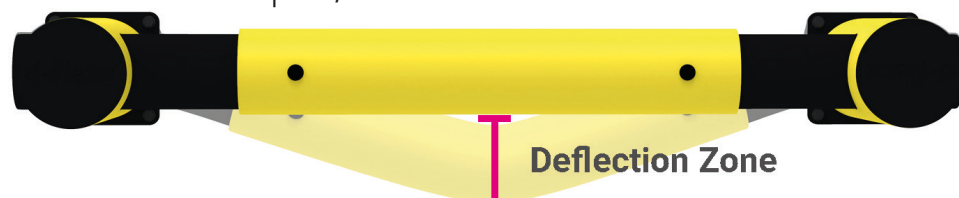
Every TÜV-tested d-flex product undergoes rigorous testing with these concrete screws to guarantee maximum performance and safety. An additional benefit is their flexibility – posts can be disassembled and reassembled multiple times, making repairs or replacements after barrier damage simple and cost-efficient.



What sets d-flex apart is the intelligent balance between strength and protection. With a pull-out resistance of 21 kN, our bolts are designed to release just before exceeding the strength of a standard concrete floor (21 kN per hole). This ensures that, in the event of extreme impact, the bolts give way before the floor itself is damaged - protecting your infrastructure while keeping your operations running smoothly.

Deflection Zone

Since the barrier absorbs an impact, there is a need for a deflection zone.



BUFFER PIPE TECHNOLOGY

Experience the power of d-flexx buffer pipe technology and elevate your safety standards today.

D-FLEXX BUFFER PIPE TECHNOLOGY INNOVATION AT THE CORE OF SAFETY

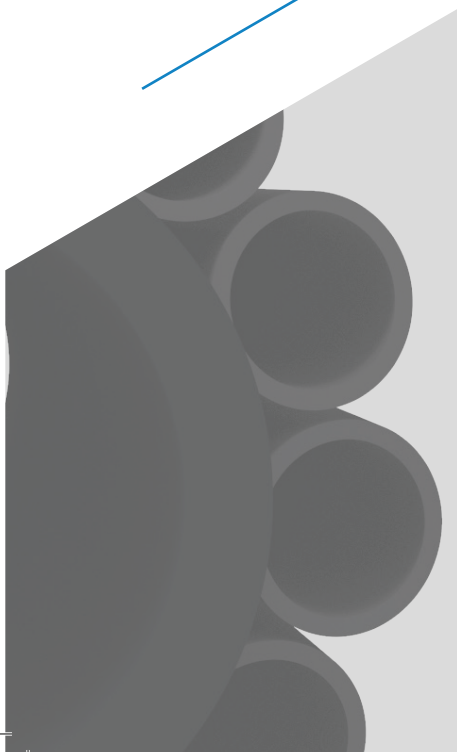
Embedded within every bollard and traffic barrier mid- and end posts lies a powerful innovation: d-flexx buffer pipe technology. This cutting-edge advancement features a robust core encased by buffer pipes, concealed within the structure.

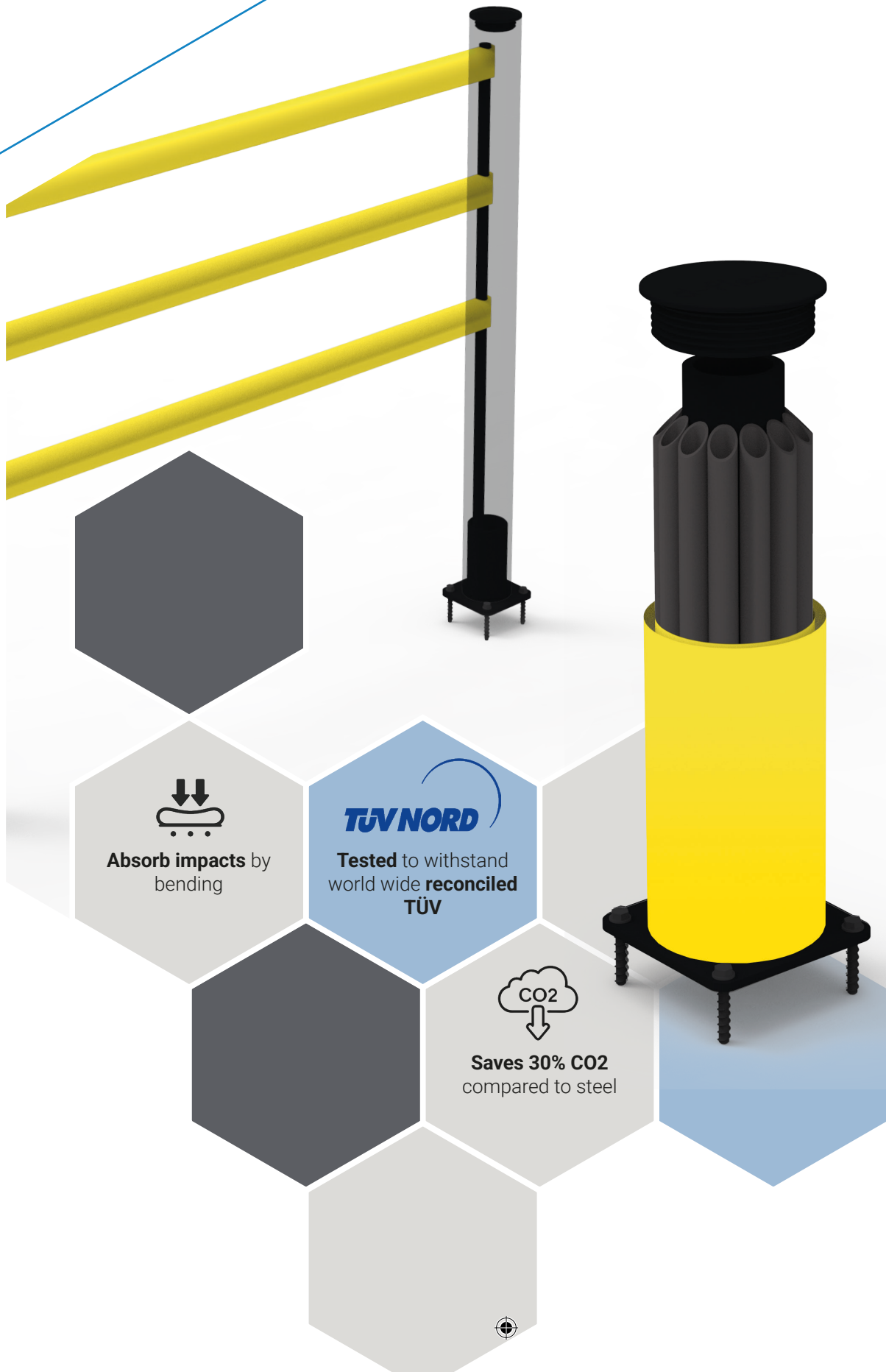
As the name implies, the buffer pipes serve as an energy absorption zone between the outer pipe and the inner core. Collaborating seamlessly with the flexible d-flexx material, these buffer pipes culminate in a resilient, high-quality flexible

post.

This unique design enables the post to absorb impacts effectively without causing damage to the concrete floor.

d-flexx buffer pipe technology represents a significant leap forward in safety and durability for bollards and traffic barriers. By incorporating this innovative solution, businesses and organizations can enhance their security measures while safeguarding their infrastructure from potential damage.





OUR SERVICES

At d-flexx, safety is not just a product – it's a service. From on-site consultation and professional training to smart planning tools, global delivery, and sustainable recycling, we support you at every step. Our goal: a safer, more efficient workplace tailored to your needs.

WE ADVISE

d-flexx has certified safety advisors who conduct on-site surveys and offer tailored advice to implement the right safety solutions for your workplace.



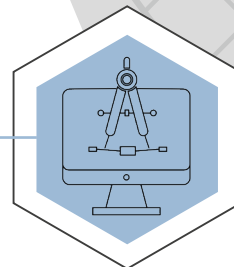
WE EDUCATE

Our Safety Academy educates our customers and partners in risk assessment and safety planning, fostering a strong safety culture.

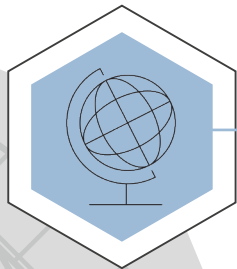


WE DESIGN

Our d-flexx designer software allows fast, intuitive and detailed safety planning. Upload your warehouse blueprints and start planning your d-flexx solutions with ease.

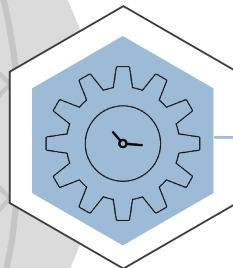


COMPREHENSIVE SAFETY SERVICES FROM PLANNING TO RECYCLING



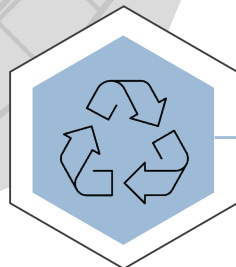
WE DELIVER

We ship worldwide directly from our production facilities or through our partner network, with the option of personalized installation services.



WE SUPPORT

Our after-sales service includes continuous support and a five-year warranty on every d-flexx product.



WE RECYCLE

Through our European Recycling Program, you can send back discharged d-flexx materials to our Denmark based facility for proper disposal and recycling.

THE DESIGN

Streamlined design, optimal performance

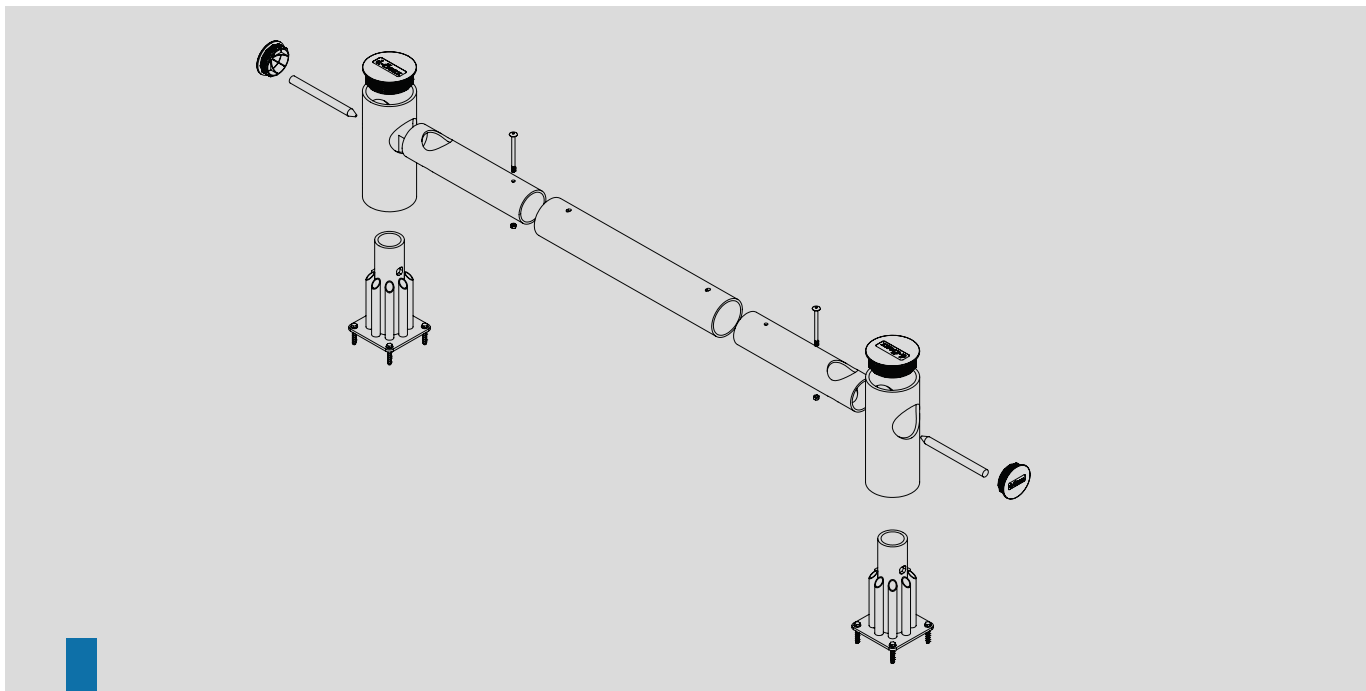
The precision-engineered d-flexx solutions embody our approach of doing more with less. Our reliable, streamlined pipe system, built on lean geometry, reduces costs and effort across the entire value chain. It cuts material use in manufacturing, lightens transport loads, and simplifies assembly with fewer components.

This design philosophy ensures full compliance with the highest safety standards. The system delivers strong impact resistance, long-term reliability, and consistent performance across a wide range of operating conditions.

Preventing accidents with behavioral design

At d-flexx, we believe safety starts with behavior and consistent habits. By understanding how people move and interact with their environment, we design solutions that make safe actions intuitive and help prevent accidents.

This mindset is built into every detail—from the vivid yellow colour for high visibility and clear signalling to the strategic placement of our barriers, which structure spaces and guide pedestrian and vehicle flows naturally. This approach reduces the need for constant oversight, supports lasting compliance, and combines safety performance with operational efficiency.



Safety meets efficiency: Intuitive design for maximum impact protection

d-flexx solutions optimize behavior, reduce effort, and enhance safety – without compromise.

OUR TESTING METHOD

Every d-flexx bollard and barrier undergoes rigorous evaluation using a pendulum striker, in full alignment with BSI's PAS 13:2017 code of practice. A fixed bumper on a swinging arm delivers controlled, repeatable impacts. Each unit is assessed multiple times to ensure consistent performance, with precise instrumentation capturing key data. All results are documented and traceable.

We base our evaluation on real-world impact scenarios observed in industrial environments. These insights define how force is applied during testing, allowing us to closely replicate the actual conditions our barriers are designed to withstand.

PAS.13: 2017 IN SHORT

PAS means Publicly Available Standards.

It is created by the British Standards Institute to promote the best practices in the industry.

The current standard was created in 2017.

PAS 13: 2017 covers:

- Normative references
- Safety barriers used in traffic management
- General safety barriers design
- Kinetic energy and vehicles
- Methods for testing the force of impact of safety barriers



Third-party certification

Beyond internal validation, d-flexx products are certified by TÜV Nord, an independent and internationally recognised authority. This certification verifies the accuracy, repeatability, and reliability of our evaluation process and confirms full compliance with stringent safety and quality standards.

Under TÜV supervision, products are conditioned in a controlled environment for at least four hours before testing to ensure stable, comparable results. This audited approach is reinforced by our ISO 9001 accreditation, confirming excellence in quality management.



SAME IMPACT DIFFERENT OUTCOME



STEEL AND POLYMER

Steel has long been the standard material in workplace safety, valued for its strength, durability, and cost-efficiency. However, these advantages come with notable limitations. As a heavy, rigid material with low elasticity, steel tends to deform permanently upon impact, can damage the concrete floor it is anchored to – and it transfers the full force of the collision directly to the driver, resulting in a far harsher impact experience compared to flexible alternatives.

The new generation of polymer protection from d-flexx matches steel in resistance while surpassing it in durability and lifecycle cost-efficiency. Its ability to flex and return to shape allows it to absorb multiple impacts without damage, reducing replacement needs. This flexibility also lessens stress on the flooring, helping avoid costly repairs and operational downtime.

Feature	Steel protections	d-flexx polymer protection
Impact resistance	Rigid – high stress on the flooring	Flexible – energy absorbing design
Deformation under impact	Plastic deformation (permanent)	Elastic deformation (returns to its original shape)
Maintenance cost	High	Low
Downtime	High	Low
Transport and handling	Heavy material	Light material
Suitable for strict hygiene standards	Yes	Yes, corrosion-free chemical resistance



Modern safety demands more than strength. It requires smart performance.

With d-flexx polymer systems, you reduce downtime, protect infrastructure, and ensure long-term value. Make the switch to flexible, future-ready safety.

Scan to see our d-flexx
HOTEL Crash Test Video



D-FLEXX RECYCLING SOLUTIONS

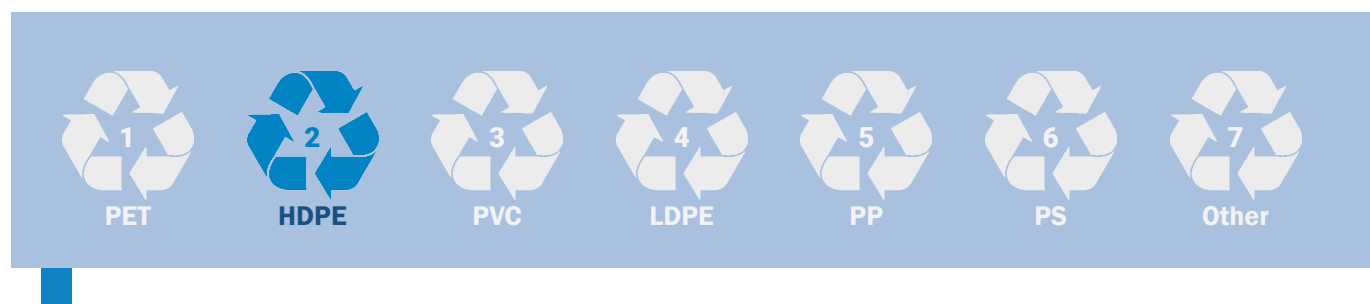
Highly recyclable materials

d-flexx safety solutions combine high-density polyethylene (HDPE) and low-density polyethylene (LDPE), both offering high and documented recyclability.

HDPE is one of the most widely recycled polymers, commonly reused in products such as bottles, pipes, and floor decking.

Our choice of polyethylene reflects a commitment to combining impact resistance and versatile performance with a responsible product life cycle and material circularity.

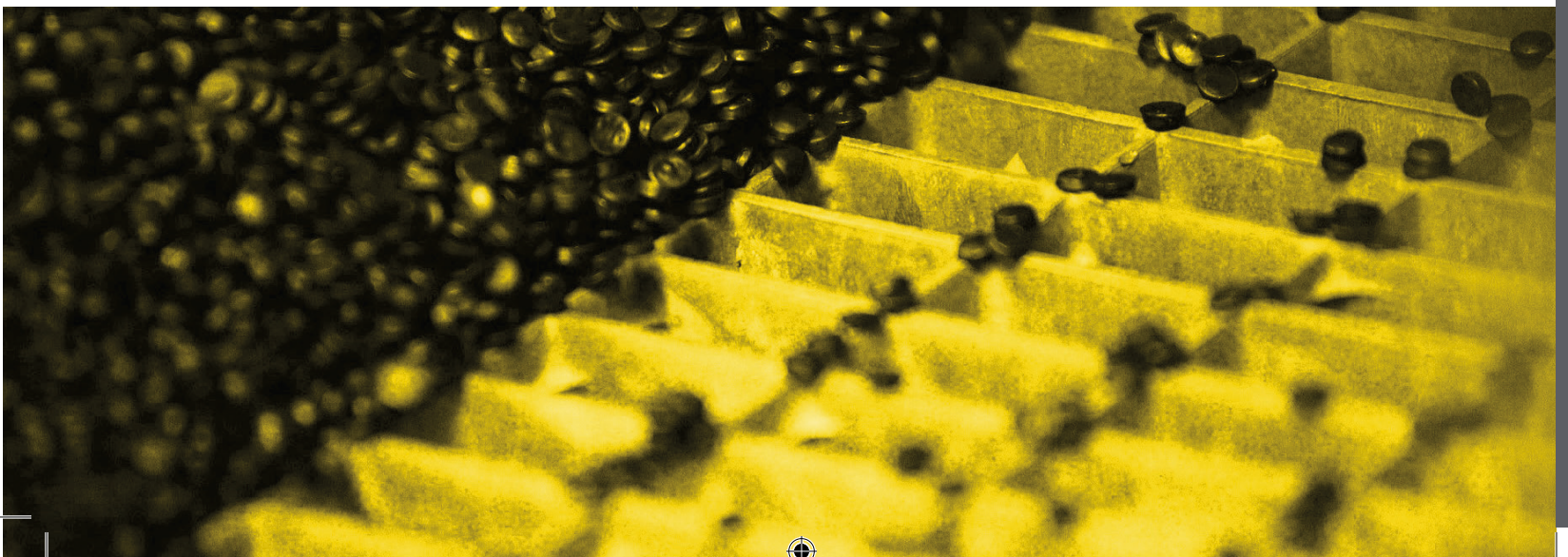
Recycle – because smart protection never ends with impact.



We help you recycle d-flexx materials

A broken barrier? Need to renew your protections? Sometimes it simply means d-flexx did its job - it protected as it should, and now some parts need replacement. As part of our after-sales support, d-flexx offers the option to return used materials to our Danish headquarters in Slangerup.

In coordination with local recycling streams, we ensure that every d-flexx component is properly handled and reintegrated into a responsible recycling process. For more information or to arrange a return and to hear more about our special offer for replacement orders, please contact your d-flexx sales representative.



OUR SUSTAINABILITY



REUSABILITY & DISASSEMBLY

- Our systems are modular and easy to reconfigure for evolving warehouse needs.
- Clear guides help customers dismantle and recycle components.
- Individual parts can be replaced to reduce waste and cost.

As part of the Dancop Group, sustainability is far more than a passing trend at d-flexx – it is a core value that drives our daily actions and long-term strategy. From product development to delivery, we are committed to creating solutions that not only protect people and infrastructure, but also respect and preserve the environment.

Our modular safety systems are engineered with purpose: to deliver high performance while reducing ecological impact. This includes using recyclable materials, minimizing production waste, and designing products that can be reused, reconfigured, and easily recycled at the end of their life cycle.

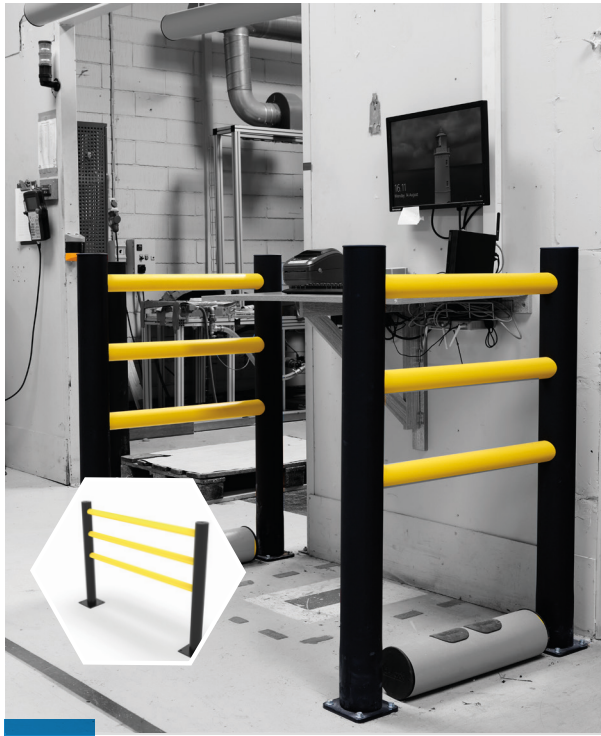
Durability, circular design, and transparency form the foundation of our sustainability approach. By actively reducing emissions, extending product lifespans, and collaborating with responsible suppliers, we take meaningful steps toward a safer and greener future.

At d-flexx, we believe true safety includes the well-being of our planet – for today, tomorrow, and the generations ahead.

Our mission: Creating safer environments with fewer environmental footprints. Because true progress combines innovation with responsibility.

PEDESTRIAN GUIDANCE

SOLUTIONS FOR PATHWAYS



*tested impact energy according to PAS13 at 22.5° Impact, 4.6 km/h (2,86 mph) and 3.150 kg (6945 lbs) on a C20/25 concrete floor and max. force to bolt at 13 kN.

Pedestrian Barrier - 3 Rails

This barrier is designed to clearly separate pedestrian walkways from areas used by light vehicles such as forklifts and pallet trucks. In busy industrial and commercial environments, it provides a visible and physical boundary that guides foot traffic along safe routes while preventing accidental entry into vehicle zones.

Unlike impact-resistant barriers, this system focuses on guidance and awareness. Its presence reduces the risk of collisions and confusion in shared spaces like warehouses, production halls, and logistics centers, ensuring a safer and more efficient working environment. Manufactured in accordance with PAS13 safety guidelines, this barrier complies with international standards for workplace traffic management. Easy to install and highly visible, it plays a key role in structuring traffic flow and minimizing risks for both pedestrians and drivers.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability Changes to material after 5 years:	Gray scale: 5/5 Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10 ¹⁵ -10 ¹⁶ Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø10x70 mm
Deflection zone:	250mm / 9,84in

IMPACT TEST

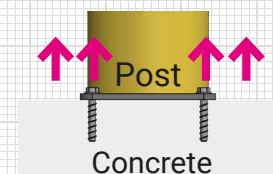
Mid Rail Max. Energy (Joules)	90°	67,5°	45°	22,5°
	3.000	3.500	6.000	20.500

End post max. energy (Joules) - 90° 2.500

Mid post max. energy (Joules) - 90° 2.500

MAX. FORCE TO BOLT

DELTA: 13 kN





At 22.5° Impact, 4.6 km/h (2,86 mph) and 3.150 kg (6945 lbs) on a C20/25 concrete floor and max. force to bolt at 13 kN.

Pedestrian Barrier - 4 Rails

This barrier is designed to clearly separate pedestrian walkways from areas used by light vehicles such as forklifts and pallet trucks. In busy industrial and commercial environments, it provides a visible and physical boundary that guides foot traffic along safe routes while preventing accidental entry into vehicle zones.

Unlike impact-resistant barriers, this system focuses on guidance and awareness. Its presence reduces the risk of collisions and confusion in shared spaces like warehouses, production halls, and logistics centers, ensuring a safer and more efficient working environment. Manufactured in accordance with PAS13 safety guidelines, this barrier complies with international standards for workplace traffic management. Easy to install and highly visible, it plays a key role in structuring traffic flow and minimizing risks for both pedestrians and drivers.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability Changes to material after 5 years:	Gray scale: 5/5 Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10^{15} - 10^{16} Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø10x70 mm
Deflection zone:	250mm / 9,84in

IMPACT TEST

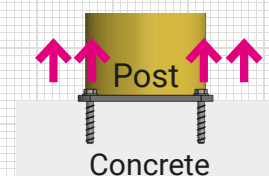
Mid Rail Max. Energy (Joules)	90°	67,5°	45°	22,5°
	3.000	3.500	6.000	20.500

End post max. energy (Joules) - 90° 2.500

Mid post max. energy (Joules) - 90° 2.500

MAX. FORCE TO BOLT

DELTA: 13 kN



PEDESTRIAN GUIDANCE

SOLUTIONS FOR PATHWAYS



Swing Door

Durable and highly visible swing gate designed for safe access control in industrial environments. Whether installed free-standing or integrated into our modular barrier systems, this door separates pedestrian walkways from operational zones.

Made from robust polyethylene and equipped with hydraulic hinges, the gate opens smoothly up to 180° and requires minimal maintenance. Self-closing versions (800–1200 mm) enhance convenience and safety, while identification stickers allow for clear passage marking. This swing gate is the perfect solution for controlled, reliable access in busy workspaces.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability	Gray scale: 5/5
Changes to material after 5 years:	Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10 ¹⁵ -10 ¹⁶ Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø10x70 mm



Slide Gate

The d-flexx Slide Gate is the ideal choice for areas where a swing door is not practical, offering safe and efficient access control in tight or high-traffic spaces.

Made from durable polyethylene, the gate integrates seamlessly with the modular barrier systems in both 3- and 4-rail configurations at a height of 1200 mm. It can be installed as a free-standing unit.

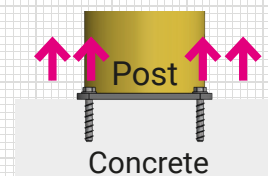
Its ergonomic handles enable smooth operation and controlled access to crossing points, storage areas, or driveways. Compact, robust, and easy to use, OSCAR is the perfect solution where functionality meets flexibility.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability	Gray scale: 5/5
Changes to material after 5 years:	Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10^{15} - 10^{16} Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø10x70 mm

MAX. FORCE TO BOLT

OSCAR: 21 kN



IMPACT PROTECTION

SOLUTIONS FOR HEAVY TRAFFIC



*tested impact energy according to TÜV at 22.5° Impact, 4.9 km/h (3,04 mph) and 4.320 kg (9524 lbs) on a C20/25 concrete floor and max. force to bolt at 21 kN.

Impact Protection Barrier Single Rail



Modular impact protection barrier designed to clearly separate assets from vehicle routes in busy industrial environments. Made of high-quality, flexible polyethylene, the system absorbs impacts without permanent deformation, protecting both people and infrastructure.

Thanks to its modular construction, the system adapts to your layout, offering maximum flexibility for use in warehouses, logistics centers, and production plants. Its bright color and smooth surface make it highly visible and easy to clean, ensuring long-term safety with minimal maintenance.

Built for reliable performance and long-lasting durability, CHARLIE effectively safeguards your machinery and infrastructure from impacts.

TECHNICAL INFORMATION

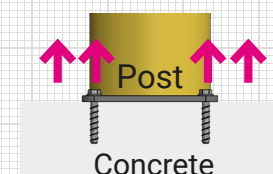
Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability Changes to material after 5 years:	Gray scale: 5/5 Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10 ¹⁵ -10 ¹⁶ Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø12x80 mm
Deflection zone:	250mm / 9,84in

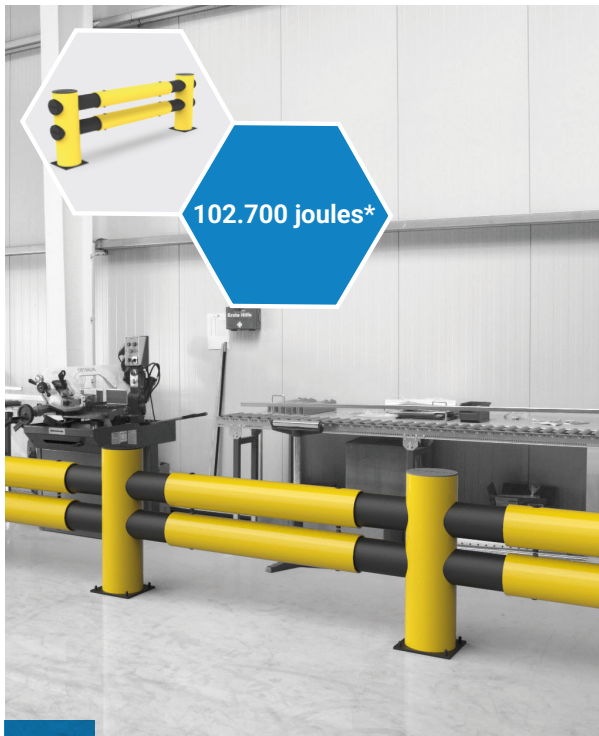
IMPACT TEST

Mid Rail Max. Energy (Joules)	90°	67,5°	45°	22,5°
	9.000	10.500	18.000	61.500
End post max. energy (Joules) - 90°				4.000
Mid post max. energy (Joules) - 90°				4.000

MAX. FORCE TO BOLT

CHARLIE: 21 kN





*tested impact energy according to TÜV At 22.5° Impact, 3.0 km/h (1,86 mph) and 11.590 kg (25551 lbs) on a C20/25 concrete floor and max. force to bolt at 21 kN.

Impact Protection Barrier Double Rail



Highly flexible safety solution designed to offer superior protection in busy industrial environments. The double rail delivers enhanced impact resistance, absorbing collisions while minimizing damage to both infrastructure and vehicles.

Ideal for warehouses, production areas, and logistics centers, d-flexx HOTEL combines strength, visibility, and flexibility – making it the perfect choice for demanding safety applications.

TECHNICAL INFORMATION

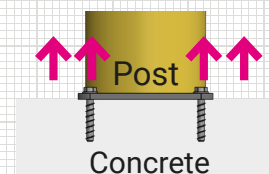
Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability Changes to material after 5 years:	Gray scale: 5/5 Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10 ¹⁵ -10 ¹⁶ Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø12x80 mm
Deflection zone:	250mm / 9,84in

IMPACT TEST

Mid Rail Max. Energy (Joules)	90°	67,5°	45°	22,5°
	15.000	17.600	30.000	102.700
End post max. energy (Joules) - 90°				4.000
Mid post max. energy (Joules) - 90°				4.000

MAX. FORCE TO BOLT

HOTEL: 21 kN



PEDESTRIAN GUIDANCE & IMPACT PROTECTION

SOLUTIONS FOR HEAVY TRAFFIC



*tested impact energy according to TÜV at 22.5° Impact, 4.9 km/h (3,04 mph) and 4.320 kg (9524 lbs) on a C20/25 concrete floor and max. force to bolt at 21 kN.

Pedestrian Protection Barrier Single Rail



This d-flexx traffic barrier combines pedestrian guidance and impact protection. It separates pedestrian walkways from vehicle routes while withstanding impacts from forklifts and other vehicles.

Made from flexible, durable materials, the system absorbs impacts without breaking, reducing maintenance and ensuring long-standing use.

Ideal for warehouses, logistics centers, and production sites, this versatile solution protects people, equipment, and infrastructure.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
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UV Stability Changes to material after 5 years:	Gray scale: 5/5 Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10 ¹⁵ -10 ¹⁶ Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø12x80 mm
Deflection zone:	250mm / 9,84in

IMPACT TEST

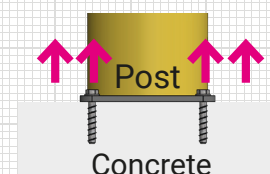
Mid Rail Max. Energy (Joules)	90°	67,5°	45°	22,5°
	9.000	10.500	18.000	61.500

End post max. energy (Joules) - 90° 4.000

Mid post max. energy (Joules) - 90° 4.000

MAX. FORCE TO BOLT

ECHO: 21 kN





*tested impact energy according to TÜV At 22.5° Impact, 3.0 km/h (1,86 mph) and 11.590 kg (25551 lbs) on a C20/25 concrete floor and max. force to bolt at 21 kN.

Pedestrian Protection Barrier Double Rail



A powerful combination of pedestrian guidance and impact protection, enhanced with an additional rail to maximize resistance.

With double heavy duty rails at the base, it absorbs impacts from forklifts and other vehicles while minimizing damage to the concrete flooring.

Its modular design enables quick installation and easy customization to fit your facility layout.

Used in warehouses, factories, and logistics hubs, this barrier system ensures long term protection for people and infrastructure.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability Changes to material after 5 years:	Gray scale: 5/5 Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10^{15} - 10^{16} Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø12x80 mm
Deflection zone:	250mm / 9,84in

IMPACT TEST

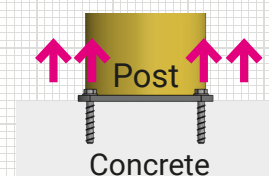
Mid Rail Max. Energy (Joules)	90°	67,5°	45°	22,5°
	15.000	17.600	30.000	102.700

End post max. energy (Joules) - 90° 4.000

Mid post max. energy (Joules) - 90° 4.000

MAX. FORCE TO BOLT

LIMA: 21 kN



PEDESTRIAN GUIDANCE & IMPACT PROTECTION

SOLUTIONS FOR WORKING STATIONS



*Tested impact energy according to PAS13 at 22.5° Impact, 3.6 km/h (2,24 mph) and 3.150 kg (6945 lbs) on a C20/25 concrete floor and max. force to bolt at 13 kN.

Work Station Barrier

This standalone barrier is a reliable safety solution designed to visually mark work station areas and prevent potential vehicle trespassing.

These barriers provide structure to your workplace by clearly defining pedestrian-only areas. Delivered preassembled for fast, tool free installation.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability Changes to material after 5 years:	Gray scale: 5/5 Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10 ¹⁵ -10 ¹⁶ Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø10x70 mm
Deflection zone:	250mm / 9,84in

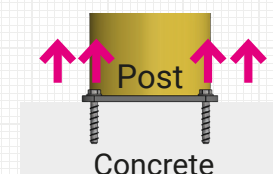
IMPACT TEST

Mid Rail Max. Energy (Joules)	90°	67,5°	45°	22,5°
	2.500	2.900	5.000	17.000

End post max. energy (Joules) - 90° 2.500

MAX. FORCE TO BOLT

FOXTROT: 13 kN





*Tested impact energy according to PAS13 at 22.5° Impact, 5.4 km/h (3,36 mph) and 3.560 kg (7848 lbs) on a C20/25 concrete floor and max. force to bolt at 21 kN.

Working Station and Machinery Protection Barrier

This standalone barrier combines visible marking for your people and assets with impact protection. It is ideal to protect machinery and mark hazardous zones.

Delivered pre-assembled and ready for quick installation without additional mounting.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability Changes to material after 5 years:	Gray scale: 5/5 Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10^{15} - 10^{16} Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø12x80 mm
Deflection zone:	250mm / 9,84in

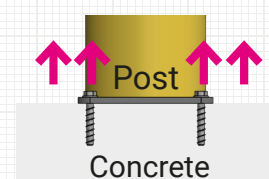
IMPACT TEST

Mid Rail Max. Energy (Joules)	90°	67,5°	45°	22,5°
	15.000	17.600	30.000	102.700

End post max. energy (Joules) - 90° 4.000

MAX. FORCE TO BOLT

KILO: 21 kN



VISUAL MARKING & IMPACT PROTECTION

SOLUTIONS FOR WAREHOUSES



*tested impact energy according to TÜV. TÜV certified and compliant with DIN EN 15512, DIN EN 15635 and the Australian standard AS 4084.



Rack Guard

The d-flexx rack guard is a durable and flexible solution designed to protect racking systems from impacts caused by forklifts, pallet trucks, or other machinery. It absorbs and deflects energy to prevent damage to rack uprights, helping to maintain the structural integrity of your storage system.

Each piece is easily mounted onto the rack leg without floor anchoring, preserving the concrete and allowing fast, tool-free installation. This minimizes downtime and simplifies maintenance.

TÜV-tested and compliant with DIN EN 15512 and DIN EN 15635.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability	Gray scale: 5/5
Changes to material after 5 years:	Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10 ¹⁵ -10 ¹⁶ Ω
Standard Warranty:	1 Year

HOW TO CHOOSE

When selecting the ideal RackGuard profile for your pallet racking system, it's essential to choose the right size and width to ensure maximum protection and a secure fit.

RackGuard profiles come in two standard lengths, 400mm and 600mm, providing options for various rack heights.

Additionally, the profiles are available in two width ranges: 75-99mm and 100-125mm, allowing you to match them perfectly to the dimensions of your upright legs.



*tested impact energy according to TÜV At 90° Impact, 4.9 km/h (3,04 mph) and 4.320 kg (9524 lbs) on a C20/25 concrete floor and max. force to bolt at 21 kN.

Impact Resistant Bollard



The d-flexx bollard is a robust and flexible safety solution designed to protect building edges, doorways, loading docks, and machinery from collisions with forklifts, pallet trucks, and other industrial vehicles. Made from durable polyethylene (PE), it effectively absorbs and deflects impact, reducing damage to both structures and vehicles.

TÜV-certified and compliant with PAS13 standards, our bollards ensure reliable protection in high-risk areas where vehicles and pedestrians operate in close proximity. Its high visibility and easy installation make it ideal for entrances, corners, and pedestrian zones. An optional movable cuff adds extra reinforcement.

Available in 500 mm, 750 mm, or 1200 mm heights with a 200 mm diameter, the BRAVO Bollard comes ready to install with all mounting materials included.

TECHNICAL INFORMATION

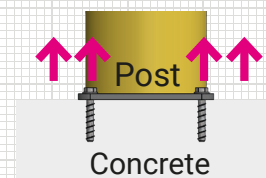
Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability	Gray scale: 5/5
Changes to material after 5 years:	Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10^{15} - 10^{16} Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø12x80 mm

IMPACT TEST

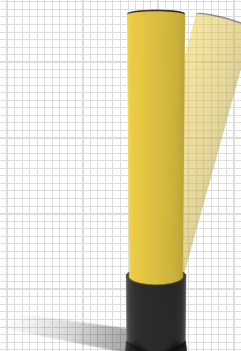
Bollard max. energy 6.500

MAX. FORCE TO BOLT

BRAVO: 21 kN



MAX. INCLINATION ANGLE 15°



VISUAL MARKING & IMPACT PROTECTION

SOLUTIONS FOR WAREHOUSES



Gate Protector

The d-flexx gate protector is a flexible, modular system designed to protect doors and gateways in industrial and commercial environments.

Made from impact-resistant polyethylene (PE), it absorbs collisions from forklifts and other vehicles, preventing damage to doors, frames, and surrounding infrastructure.

Our gate protector can also function as a standalone height restrictor, helping to control traffic and limit clearance in specific areas. Its adaptable design allows for easy customization to different door sizes and layouts, making it ideal for warehouses, logistics centers, and production facilities.

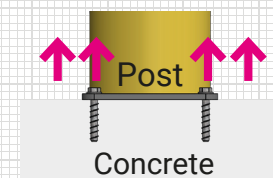
Quick to install and requiring no structural changes, it offers durable protection and reliable access control - enhancing safety while reducing repair costs.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability	Gray scale: 5/5
Changes to material after 5 years:	Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10^{15} - 10^{16} Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø12x80 mm

MAX. FORCE TO BOLT

SIERRA: 21 kN





Height Restrictor

Flexible and highly visible height restriction marker, specifically designed to indicate maximum clearance in drive-through areas such as driveways, gates, and loading docks. With its bright warning yellow color and robust construction, it provides a clear and effective visual warning to drivers, helping to prevent costly damage to vehicles and overhead infrastructure.

The system is delivered pre-assembled and includes a suspension device and all necessary fixing materials, allowing for quick and hassle-free installation.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability	Gray scale: 5/5
Changes to material after 5 years:	Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10^{15} - 10^{16} Ω
Standard Warranty:	5 Years

VISUAL MARKING & IMPACT PROTECTION

SOLUTIONS FOR WAREHOUSES



*CHARLIE, DELTA, ECHO, FOXTROT, GOLF, HOTEL, KILO and LIMA

Kerb Rail

The d-flexx kerb rail is a flexible and durable solution for protecting walls, assembly lines, and critical infrastructure in low-ground areas. With a height of 140 mm, it acts as a guide kerb or wheel stopper, effectively preventing damage from forklifts and other moving equipment.

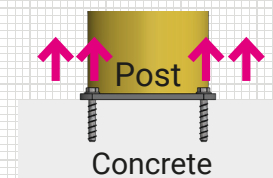
Installed close to the ground, it is designed to absorb low-level impacts and is ideal for enhancing safety in production and logistics environments. It can be easily combined with other d-flexx barrier systems for enhanced protection.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability	Gray scale: 5/5
Changes to material after 5 years:	Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10^{15} - $10^{16} \Omega$
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size $\varnothing 12 \times 110$ mm
Deflection zone:	250mm / 9,84in

MAX. FORCE TO BOLT

MIKE: 21 kN





Tested impact energy according to PAS13 At 90° Impact, 3.6 km/h (2,24 mph) and 3.150 kg (6945 lbs) on a C20/25 concrete floor and max. force to bolt at 13 kN.

Bollard

This d-flexx Bollard is designed primarily as a visual aid to mark and safeguard vulnerable edges, corners, and critical structures around doorways and other essential areas.

Made of polyethylene, it serves as a guide, helping to prevent minor bumps and scuffs rather than withstanding heavy impacts. Its bright, visible color draws attention in busy environments, offering clear directional support for drivers of forklifts and other vehicles.

TECHNICAL INFORMATION

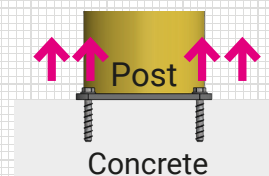
Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability	Gray scale: 5/5
Changes to material after 5 years:	Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10^{15} - 10^{16} Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø10x70 mm

IMPACT TEST

Bollard max. energy 1.500

MAX. FORCE TO BOLT

DELTA B: 13 kN



MAX. INCLINATION ANGLE 15°



IMPACT PROTECTION

SOLUTIONS FOR RACKING SYSTEMS



61.500 joules*

4.000 joules**

*CHARLIE BASE tested impact energy according to TÜV At 22.5° Impact, 4.9 km/h (3,04 mph) and 4.320 kg (9524 lbs) on a C20/25 concrete floor and max. force to bolt at 21 kN.
 ** Base Post: Tested impact energy according to PAS At 90° Impact, 4.9 km/h (3,04 mph) and 4.320 kg (9524 lbs) on a C20/25 concrete floor and max. force to bolt at 21 kN.

Topple Barrier

The d-flexx topple barrier system provides effective protection in industrial and commercial environments. Available in two versions: one with guiding rails, one with an impact protection rail at the bottom.

Its modular design with 750 mm segments enables quick installation, easy customization, and flexible adaptation to different layouts without costly modifications.

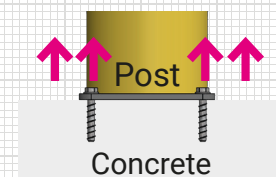
Built from high-quality, impact-resistant materials, the system offers exceptional durability even in demanding areas. Whether used in warehouses, logistics centers, or production facilities, it effectively safeguards employees, machinery, and infrastructure from collisions and falling objects.

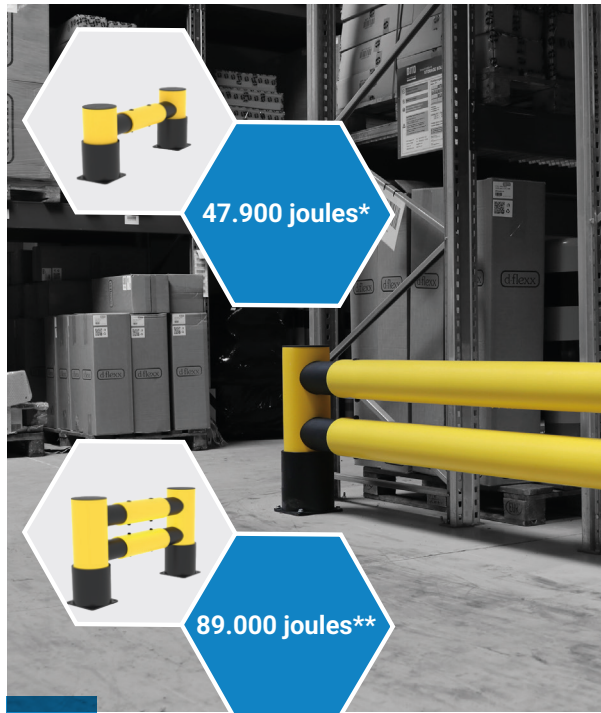
TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability	Gray scale: 5/5
Changes to material after 5 years:	Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10 ¹⁵ -10 ¹⁶ Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø12x80 mm
Deflection zone:	250mm / 9,84in

MAX. FORCE TO BOLT

QUEBEC: 21 kN





*tested impact energy according to TÜV at 22.5° Impact, 5.4 km/h (3,35 mph) and 3.560 kg (7848 lbs) on a C20/25 concrete floor and max. force to bolt at 21 kN.
 ** tested impact energy according to TÜV at 22.5° Impact, 4,9 km/h (3,04 mph) and 4.320 kg (9523 lbs) on a C20/25 concrete floor and max. force to bolt at 21 kN.

Rack End Barrier



The d-flexx racking protection system safeguards your wares from damage caused by forklifts, pallet trucks, and other warehouse traffic. Engineered for durability and high impact resistance, it preserves the structural integrity of your storage systems, reducing repair costs and downtime.

Ideal for use in warehouses, distribution centers, and retail spaces, this barrier shines in high-density storage areas with frequent vehicle movement. Available in two versions - single rail and double rail - it offers flexible protection tailored to your operational needs.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability Changes to material after 5 years:	Gray scale: 5/5 Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10 ¹⁵ -10 ¹⁶ Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø12x80 mm
Deflection zone:	250mm / 9,84in

IMPACT TEST

Mid Rail Max. Energy (Joules)	90°	67,5°	45°	22,5°
	7.000	8.200	14.000	47.900

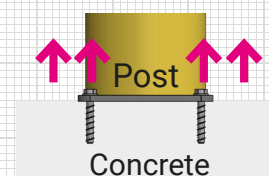
End post max. energy (Joules) - 90° 4.000

Mid Rail Max. Energy (Joules)	90°	67,5°	45°	22,5°
	13.000	15.200	26.000	89.000

End post max. energy (Joules) - 90° 2.500

MAX. FORCE TO BOLT

GOLF: 21 kN



IMPACT PROTECTION

SOLUTIONS FOR DOCK GATES



*At 22.5° impact, 4.9 km/h (3.04 mph) and 4,320 kg (9,523 lbs) on a C20/25 concrete floor and max. force on the bolt at 21 kN.

Dock Gate

This gate is a reliable safety barrier designed to secure loading docks, elevated surfaces, and access points in busy industrial environments. Made from durable polymer, it protects personnel, vehicles, and equipment by preventing accidental falls and collisions.

Thanks to its user-friendly design, the gate can be opened and closed effortlessly by a single person, while a built-in retaining spring ensures controlled movement and prevents sudden drops. With high impact resistance and low maintenance needs, this gate maximises safety and efficiency for warehouses, logistics centers, and loading zones.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability	Gray scale: 5/5
Changes to material after 5 years:	Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10 ¹⁵ -10 ¹⁶ Ω
Standard Warranty:	5 Years
Fixations:	Concrete screw, Zinc coated, Size Ø12x80 mm
Deflection zone:	250mm / 9,84in

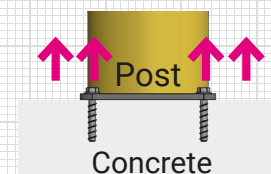
IMPACT TEST

Mid Rail Max. Energy (Joules)	90°	67,5°	45°	22,5°
	4.500	5.200	9.000	30.700

End post max. energy (Joules) - 90° 4.000

MAX. FORCE TO BOLT

NOVEMBER: 21 kN





Truck Guide

The d-flexx Truck Guide is a modern, flexible solution designed to protect loading ramps and vehicles during loading and unloading operations. Unlike traditional steel guides, ROMEO is made from durable, shock-absorbent polyethylene that reduces impact damage to trucks while preserving flooring and dock infrastructure.

Available in two lengths—2 and 3 metres—our truck guide offers versatile protection for a wide range of loading ramp types and vehicle sizes. Its modular design allows for quick, single-person installation, while its high visibility and robust build enhance safety by guiding vehicles precisely into position. Delivered in multiple segments to reduce shipping costs, it is a cost-effective, low-maintenance alternative to steel, with long-term performance and excellent recyclability.

TECHNICAL INFORMATION

Operational Temperature Range:	-40°C up to +50°C / -40°F up to +112°F
Ignition Temperature:	350-360°C / 662 - 680°F
Flash Point:	350-360°C / 662 - 680°F
Toxicity:	Nontoxic
Chemical Resistance:	High-ISO / TR 10358
UV Stability	Gray scale: 5/5
Changes to material after 5 years:	Blue Wool scale: 8/8 Tensile strength: No changes
Static Rating (surface resistivity):	10^{15} - 10^{16} Ω
Standard Warranty:	5 Years
Deflection zone:	250mm / 9,84in

OUR PROJECTS

At d-flexx, we believe that the best proof of our quality and commitment comes from those who work with our products every day. From warehouse managers to safety officers, our customers trust d-flexx to deliver reliable, flexible, and effective safety solutions. Here's what they have to say about their experience with us.



HERMES DEUTSCHLAND

HERMES Einrichtungs Service is a leading logistics provider specializing in the delivery and assembly of furniture, appliances, and other large goods. With decades of experience and a strong network across Central Europe, the company offers end-to-end services tailored to the needs of retailers and their customers.

"With d-flexx, our operations run more smoothly and we prevent minor accident-related costs, which saves money." Warehouse Manager at HERMES Einrichtungs Service – Germany



AP GRØNT

AP Grønt is a major Danish producer of leafy greens and baby leaves, supplying both the domestic and export markets. Based in Zealand, the company has grown steadily since 1978, focusing on large-scale, year-round production. Their operations meet key food safety and sustainability standards, serving retail and foodservice with both conventional and organic products.

"Before, we had a lot of damages, which cost us not only a lot of money but also a lot of time. Our experience shows that after we got d-flexx installed almost everywhere, the damages have almost disappeared." CEO at AP Grønt, Denmark



GEODIS

Geodis is a global logistics leader with a strong footprint in the Nordics, offering freight forwarding, contract logistics, and distribution services. They combine international scale with local expertise, serving key industries across the region. Their operations are structured, tech-driven, and focused on performance, making them a central player in the Nordic logistics landscape.

"The d-flexx Designer is a real asset. It allowed me to plan the project around my needs and vision. This flexibility reflects d-flexx's professionalism." Warehouse Manager at GEODIS – Sweden



PACKOPLOCK SCANDINAVIA

Packoplock is a Swedish packaging wholesaler established in 2007 and based in Norrköping. They supply transport and retail packaging, as well as cleaning and office supplies. Their operations rely on a well-developed warehouse infrastructure to manage a broad product range and high order volumes.

"By implementing d-flexx materials with their bright colours, we improved circulation and reduced disturbances on forklift paths. The feedback has been clear: people feel noticeably safer." Product Manager at PACKOPLOCK – Sweden

MAKING YOUR WORLD SAFE



PART OF TROAX GROUP