



INDUSTRIAL PROTECTIONS

PRODUCT CATALOG



WWW.ENNATGROUP.COM



DESIGN AND INNOVATION IN INDUSTRIAL PROTECTIONS

12 YEARS OF DEVELOPMENT

ENNAT is a company specialized in the development, manufacture, and marketing of products focused on the protection of logistics warehouses.

Established in 2012, with a presence in Mexico, Chile, and the United States, we provide protection to warehouse personnel, structures, and storage racks.

Innovation and development are at our essence, and we firmly believe that everything can always be done in a better way.

Thanks to this principle, we have managed to develop unique solutions on the market, which significantly increase safety for people while reducing operating costs.

2012
Date of
Establishment

11
Presence in
Countries

INTELLECTUAL PROTECTION

EUROPEAN UNION

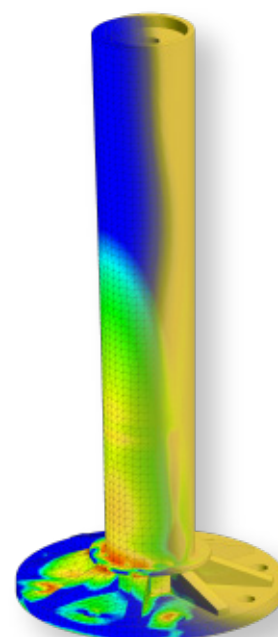


TECHNOLOGY

CONTROLLED DEFORMATION TECHNOLOGY

The elastic deformation of the rubber allows a gradual deceleration of the force upon receiving the impact, thus absorbing a portion of the energy that is transmitted to the supporting structure.

Thanks to 3D Computerized FEA (Finite Element Analysis) Models and the empirical experience of more than 10 years of real tests in the market, ENNAT has optimized the performance of its products, increasing their performance and protection.



CONSTANT DEVELOPMENT

The search for the perfect solution is part of our essence; we have been doing it since our first designs. We will continue to update our products to offer the best possible solution.

2011

2012

2014

2016

2020

2022



EUROPEAN STANDARD FEM 10.2.02

The European Standard FEM 10.2.02 determines the energy load that the protector must absorb to pass, which corresponds to 300 Joules. Our Front protector is capable of absorbing 1,000 Joules.

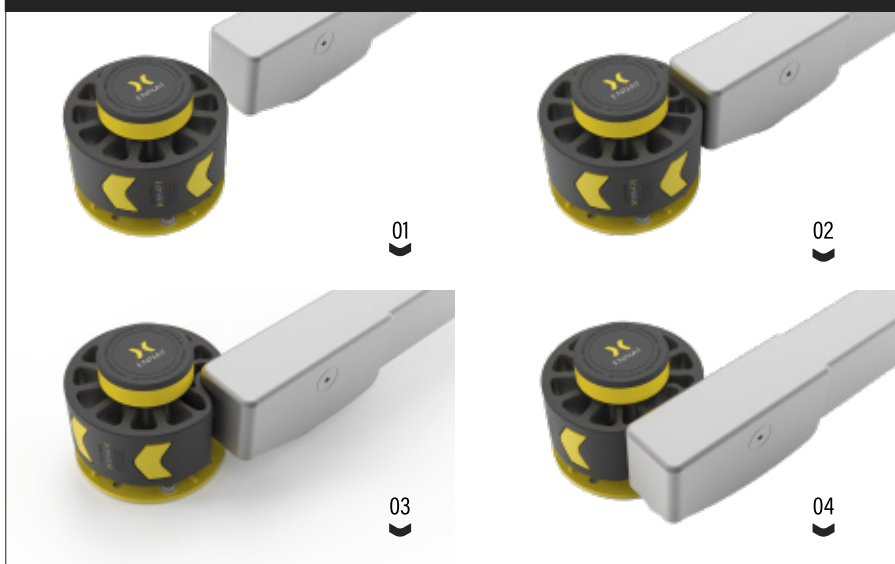
The elastic rubber deformation allows a gradual deceleration when the impact is generated, thus avoiding the transmission of energy to the supporting structure, which is so low that it does not present any deformation.



iditem



ROTATION



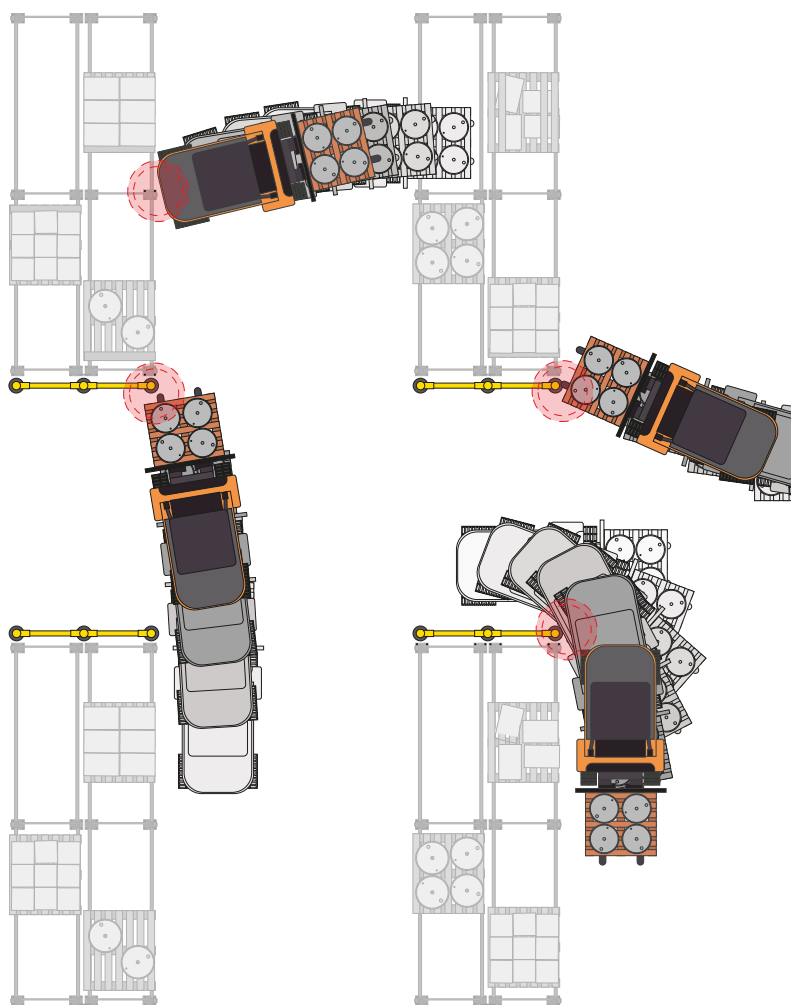
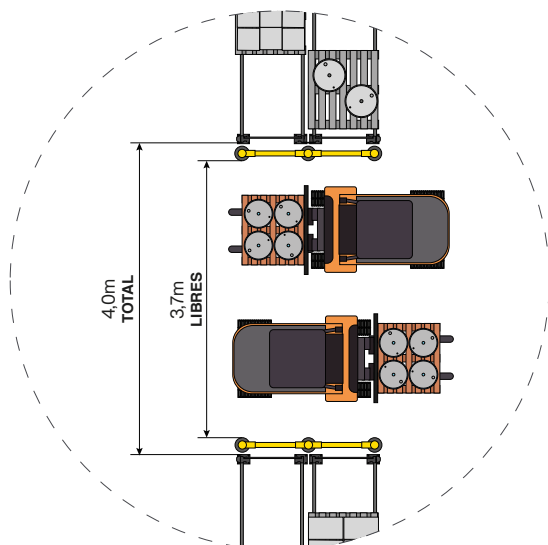
The rotation with absorption of the rubber module allows it to absorb and redirect the direction of the forklift, achieving a significant reduction in damage to both the barrier and the forklift.



IMPACT ANALYSIS

In normal operation, most hits occur at the outer bases of the barriers.

That is why the Ennat Barriers are designed to withstand these blows in each of their bases.



SPACE EFFICIENCY

Our products are designed to protect people and infrastructure without elongating, since deformation will ALWAYS involve loss of useful surface.

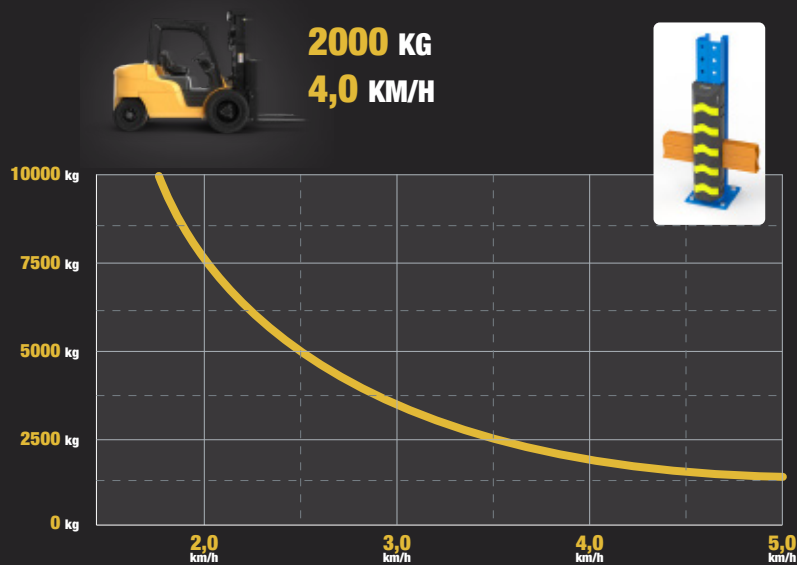


PROTECTION CAPACITY

Our products are designed to withstand everyday shocks from logistics operations and to protect people and infrastructure in the rare event of high-energy shocks.

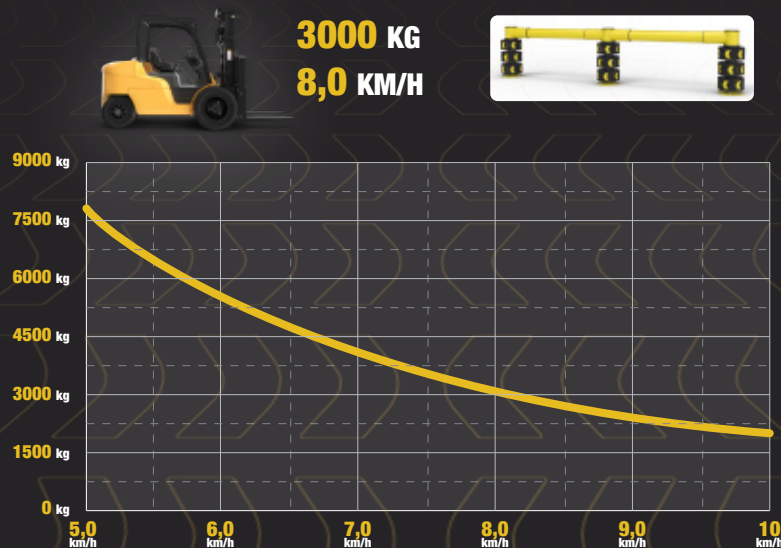
Thanks to the barriers's design, this level of protection is produced in each of its bases, where the blows are received.

RACK PROTECTOR



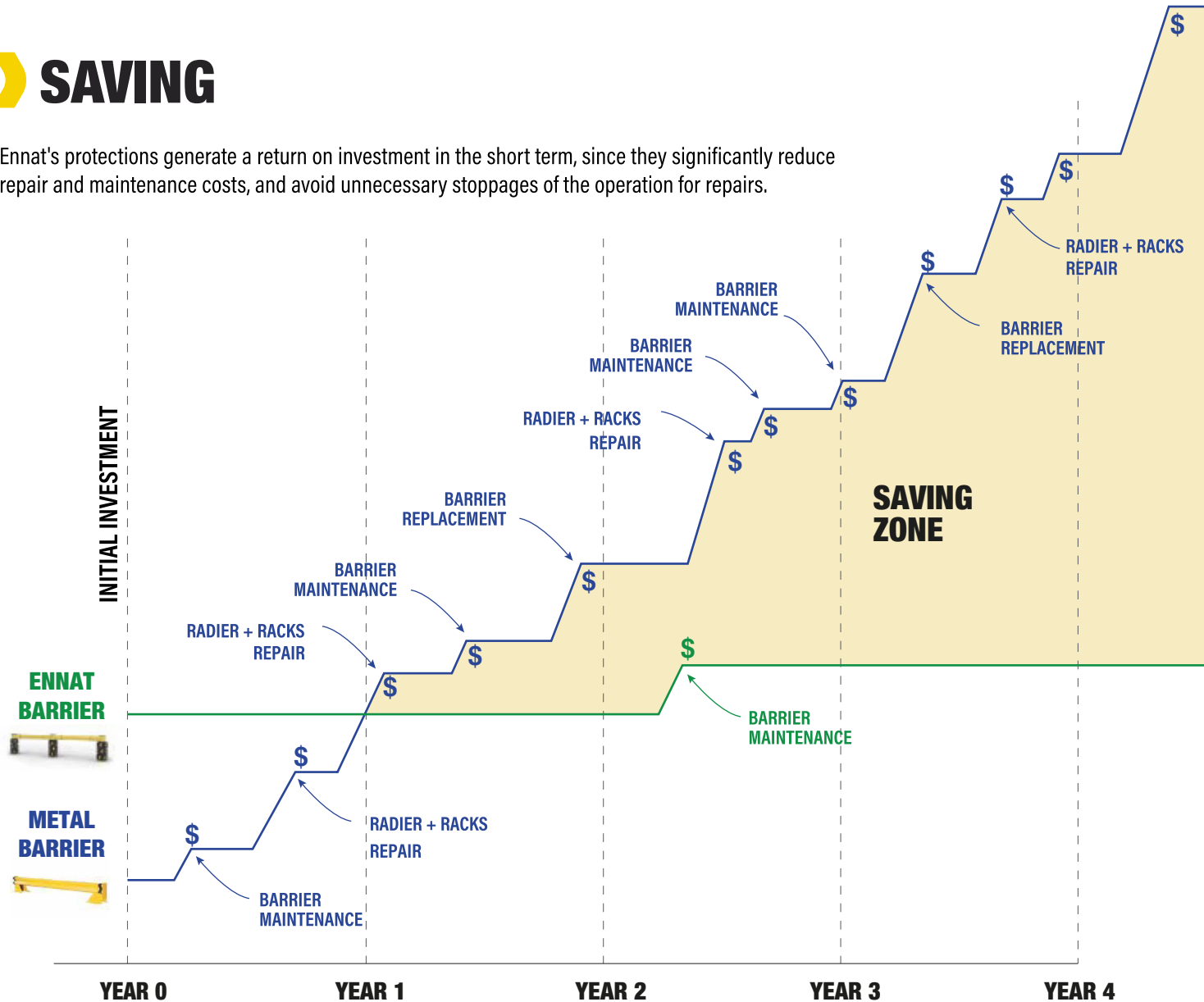
* EUROPEAN STANDARD FEM 10.2.02

STANDARD BARRIER



SAVING

Ennat's protections generate a return on investment in the short term, since they significantly reduce repair and maintenance costs, and avoid unnecessary stoppages of the operation for repairs.



DETERIORATION OF METALLIC PROTECTIONS



SERVICES



EXPERT ADVICE

Our logistics warehouse security experts will help you identify high-risk zones in your facility.

TECHNICAL VISIT

The technical gathering of information is crucial in determining the correct protection needs, and we will assist you every step of the way.

INSTALLATION

We are capable of carrying out the installation without setbacks and with high safety standards.

THEY TRUST US



Herman Ferrada Soto
CCU
Deputy Manager of Projects



"We have been operating with ENNAT protections for 4 years on our 27 CDs with excellent results, which have clearly exceeded our expectations. We have generated significant savings due to reduced repairs and improved our safety conditions, which we will continue to increment in the future."



Luis Urrutia
FOODPACK
Head of CD Foodpack



"Ennat's solution proposal for the various problems of our operation has meant zero maintenance costs for us in the last 5 years."



Ricardo Arenas
RICASA
CEO



"We have a partnership since 2019; designs of your type and your high quality products impulse my clients to prefer the Ennat protections."



Rodrigo Guallar Korn
SC JOHNSON & SON
Logistics Manager



"The Ennat protections have generated a solution with results above expectations for our Distribution Centers in Chile and Mexico, which have allowed us to minimize rack repair costs and notably improve the associated safety and aesthetic conditions in the facilities."



Verónica Glatzel Z.
HELLMANN
Assistant Manager of Projects and Development



"Ennat helped us develop a customized solution, the product is of good quality and impeccable installation."



Felipe Valdez
DUNOSUSA
Director of Operations



"ENNAT advised us and presented a Comprehensive Protection Proposal for our 25,000 m2 Cedi in Yucatan. We changed all the steel protections for Ennat's technology. Their products have met our expectations."



Javier Candia Veloso
Founder - Manager



"We have been working with ENNAT since 2018, distributing all their industrial protection products, they have a wide range of solutions for our clients, who are very satisfied."



Jose Miguel Miranda
CODELPA
Logistics Manager



"Ennat's products have helped us to protect our entire Distribution Center, giving us greater security, savings and aesthetics in our warehouses."



Francisco Ramirez
WATTS
Procurement Manager



"We changed all the metallic protections of the CD for the Ennat Barrier System, we have improved the safety standard of our warehouses and generated savings in the replacement and maintenance of our racks."



Adriana Caponi
IKEA
Project Coordinator



"Ennat's protections met our expectations and the expected quality and safety standard, they have an excellent team of very professional installers and their products are a very good quality."



Alvaro Gonzalez Lopez
GEEP
National Head of Projects



"We are very happy and satisfied with the quality of Ennat's products and service, they have provided us with considerable savings in maintenance costs by raising our safety standards. We are implementing their protections in all our warehouses throughout the country."



Susana Morales Cordova
SCHAEFFLER
Head of Acquisitions



"We started working with Ennat in 2020 in one of our plants in Mexico where we were able to verify the innovation and high quality of their products, obtaining savings in repairs and damage to our facilities. We are currently adopting Ennat products as the standard for our plants in Mexico and will continue to explore their innovative product portfolio."



PRODUCTS

Our products have been developed to answer the demanding safety needs of Logistics Centers and Productive Industries, its resistance prevents damage to infrastructure, generating relevant savings.

RACK PROTECTOR



FENCE BARRIER



TUNNEL BARRIER



LOW BARRIER



GOAL POST



COLUMN PROTECTOR



STANDARD BARRIER



DOCK PROTECTOR



BOLLARD



DOUBLE BARRIER



COLUMN BARRIER



PEDESTRIAN GATE



PEDESTRIAN BARRIER



STEEL BARRIER

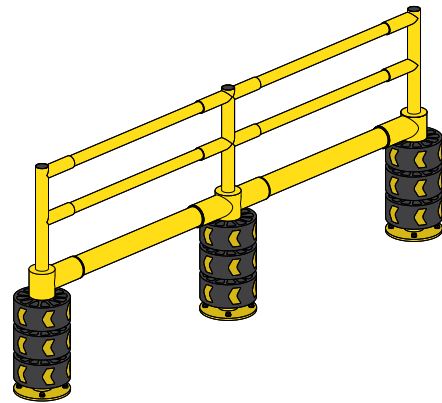
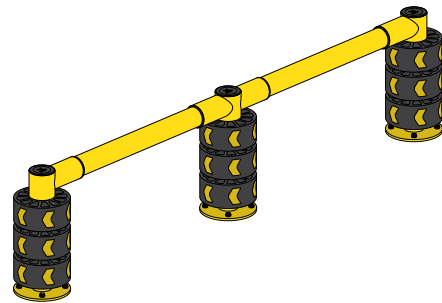
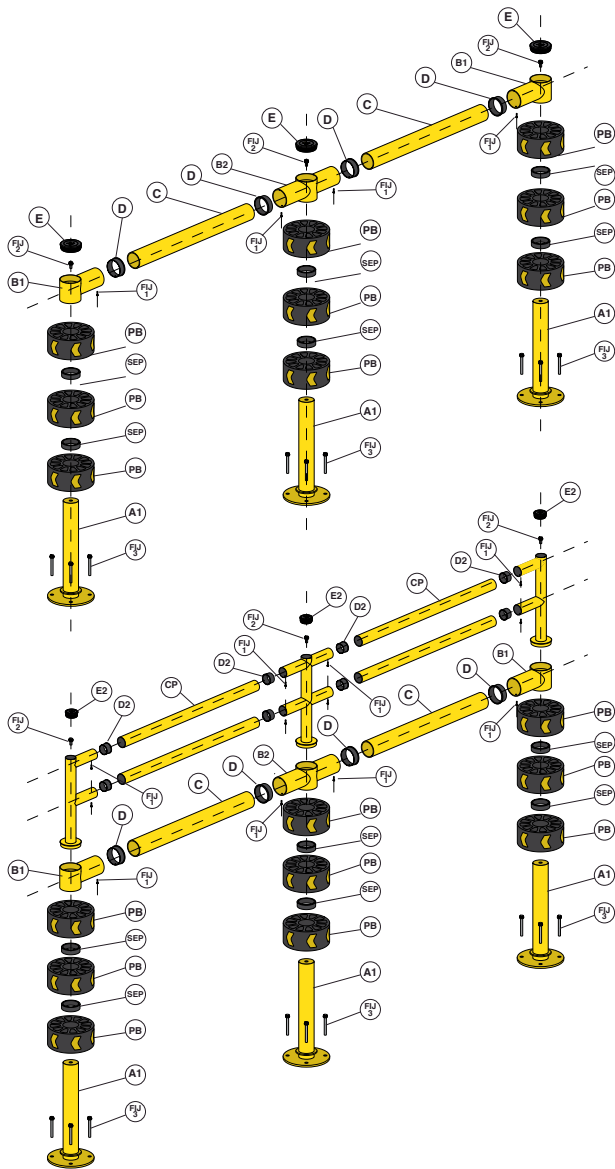


DELIMITER

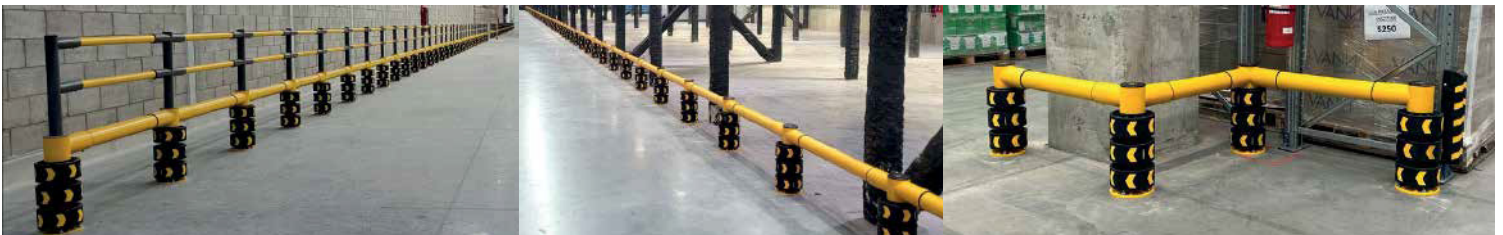


MODULAR SYSTEM

The modular construction allows for generating a wide range of possibilities, creating solutions tailored to the specific requirements of every operation.



DIFFERENT LENGTH CONFIGURATIONS



RACK PROTECTOR PR

The Ennat Rack Protector is designed to protect the uprights of the racks. Its patented design with controlled deformation and a height of 50cm provides protection against shocks during the pallet loading and unloading operations, without reducing free storage space. Its design with surrounding fins generates a better grip on the rack when using any of the 3 alternatives for fixing the rack.

APPLICATIONS

Protection of storage rack uprights with or without horizontal beams.

TECHNICAL INFORMATION

Effective protection height	16' 4" (500cm)
T ° range	-20°C to 70°C
Anchor Type	1 1/2" Self Drilling Metal Band
Surface Finish	Matte black with yellow stripes
Material	NR Rubber

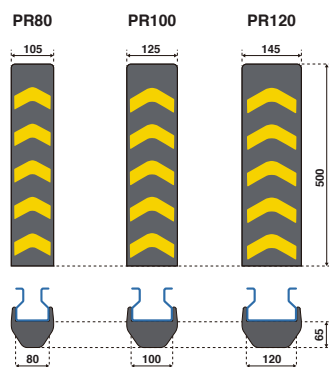
IMPACT ABSORPTION

Energy absorption thanks to the active memory of the material. The inner cavity of the front protector allows the material to deform and convert the forklift's kinetic energy into potential energy stored in the material, which is then restored, "pushing" the forklift.

IMPACT FORCE



DIMENSIONS (mm)



FIXATION ALTERNATIVES

3 different methods of attaching the protector to the rack allow for proper attachment to any type of rack.

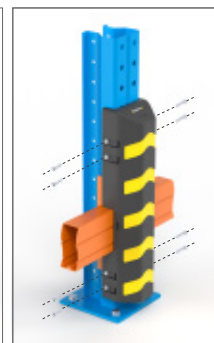


Complies with the European Standard FEM 10.2.02

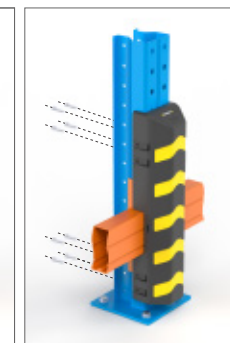
EFFECTIVE IN STRUCTURES WITH OR WITHOUT BEAMS



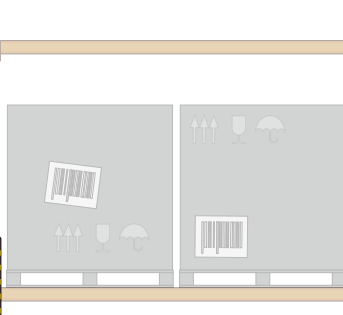
WRAP-AROUND FIXATION WITH METALLIC STRAP

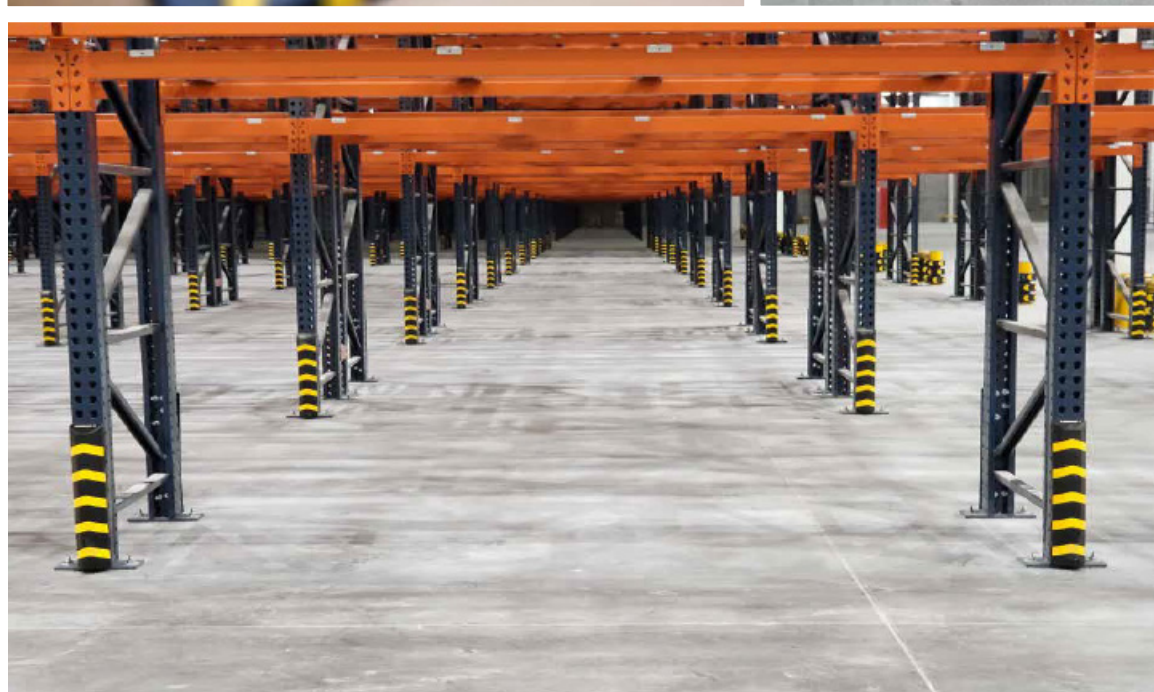


LATERAL FIXATION WITH SELF-PERFORATING



REAR FIXATION WITH SELF-PERFORATING





LOW GUARDRAIL B1

The lowest of the Ennat Barriers constitutes a circulation guide for forklifts that transit within a distribution center and is able to prevent potential collisions against weak or sensitive structures, such as frames of walking zones or delimitation zones for storage areas.

Its low structure does not visually obstruct the area, but it can withstand the impact of the collection operation.

APPLICATIONS

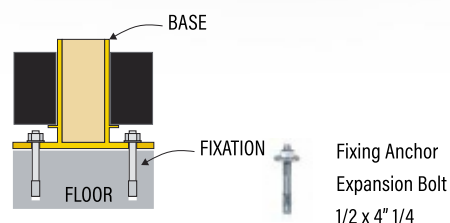
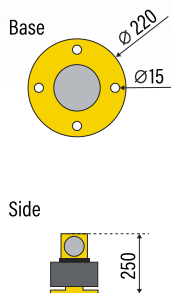
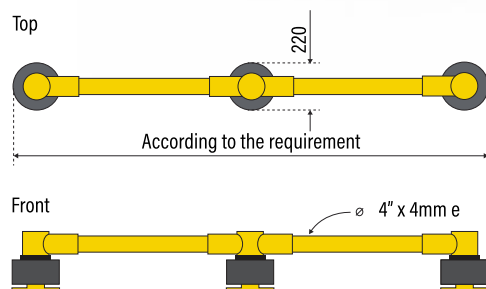
Demarcation of areas, protection of cold chamber panels, and segmentation of storage areas, among others.

TECHNICAL INFORMATION

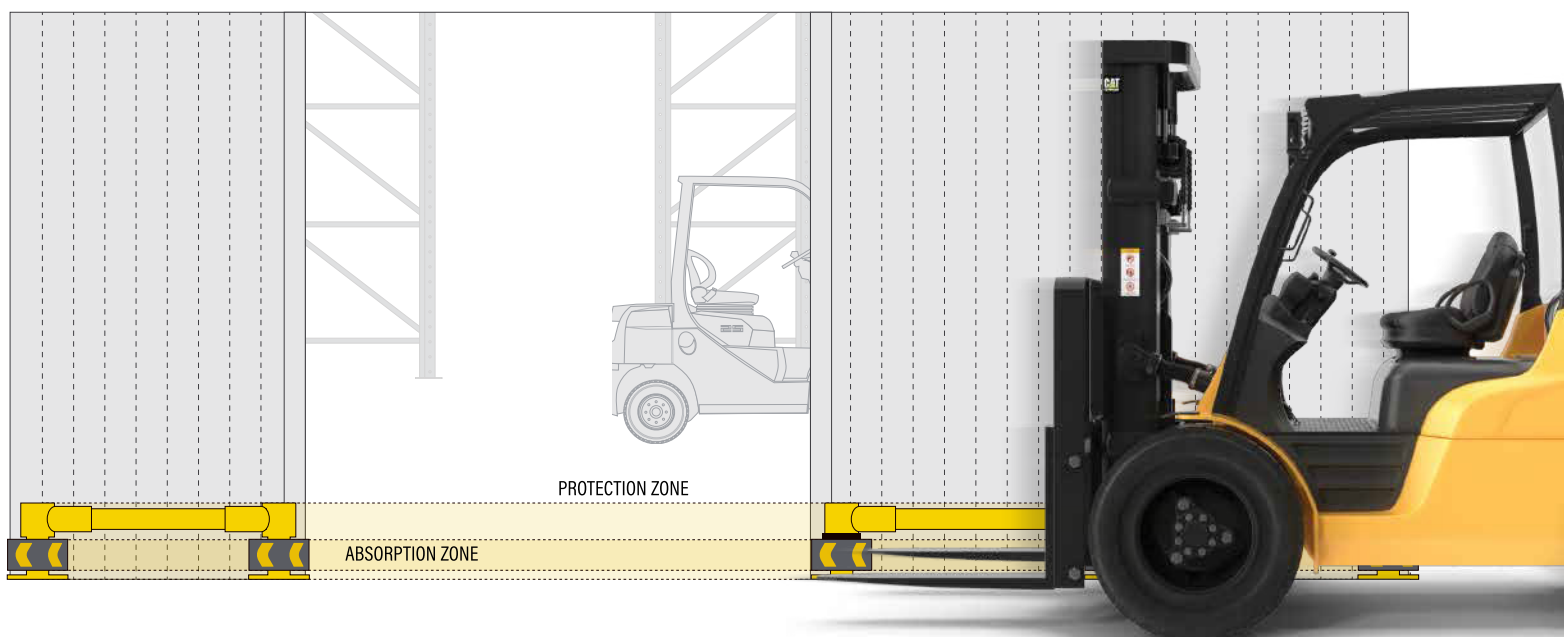
Effective protection height	Up to 9.8" (25cm)
Length	According to Requirement
T ° range	-20°C to 70°C
Surface Finish	Yellow Electrostatic Paint
Anchor Type	1/2" x 4 1/4" Anchor Bolt (4 units per base)
Material	Steel ASTM A36 / NR Rubber

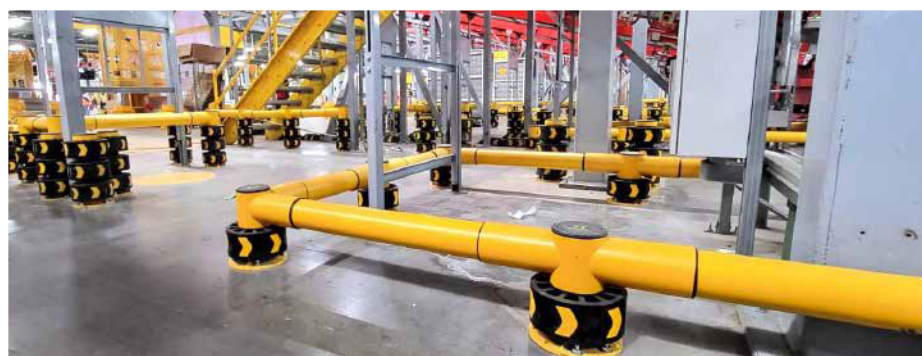
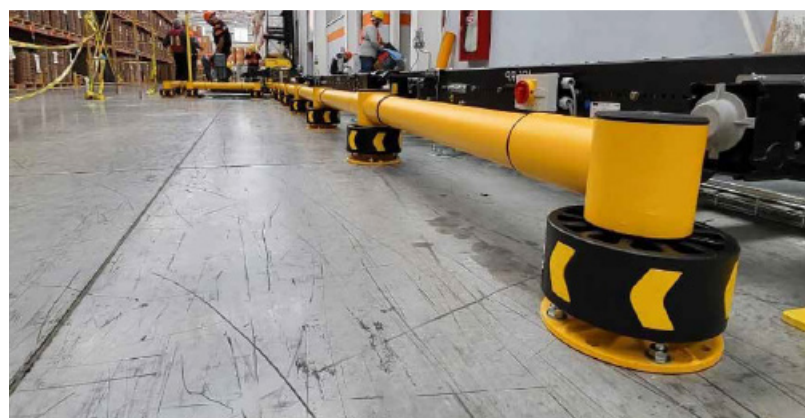


DIMENSIONS (mm)



* LENGTHS AND CONFIGURATION ACCORDING TO SPECIFIC REQUIREMENTS





STANDARD GUARDRAIL B3

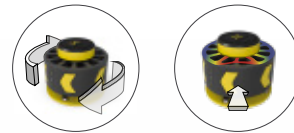
Specially designed to protect areas exposed to high-energy shock. The absorption zone of the standard barrier is the highest in Ennat's range of barriers, as it is intended to absorb and divert forklift impacts.

APPLICATIONS

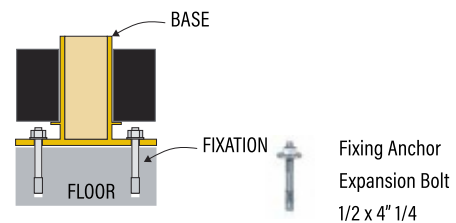
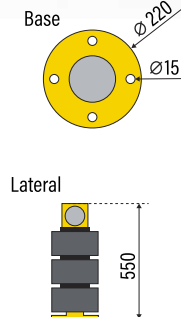
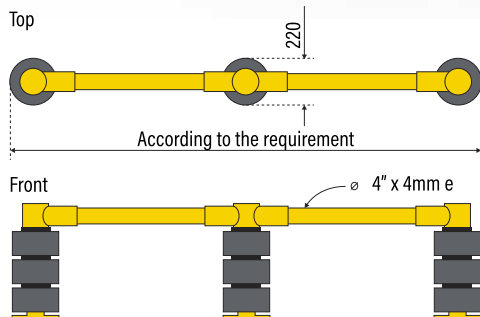
Rack heads, high traffic corridors, offices, automation systems, electrical panels, etc.

TECHNICAL INFORMATION

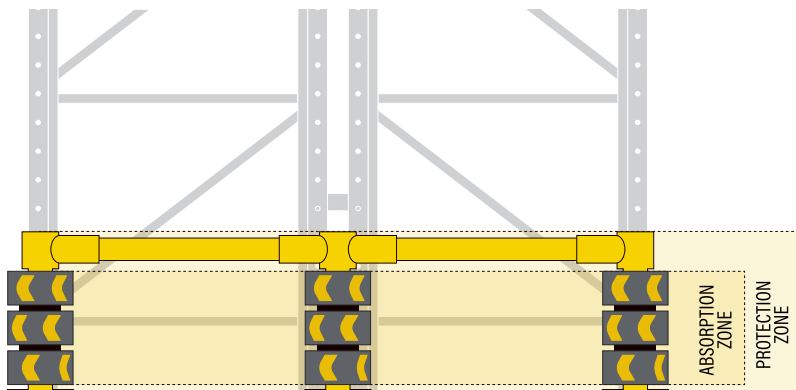
Effective protection height	Up to 1' 8" (55cm)
Length	According to Requirement
T ° range	-20°C to 70°C
Surface Finish	Yellow Electrostatic Paint
Anchor Type	1/2" x 4 1/4" Anchor Bolt (4 units per base)
Material	ASTM A36 Steel / NR Rubber

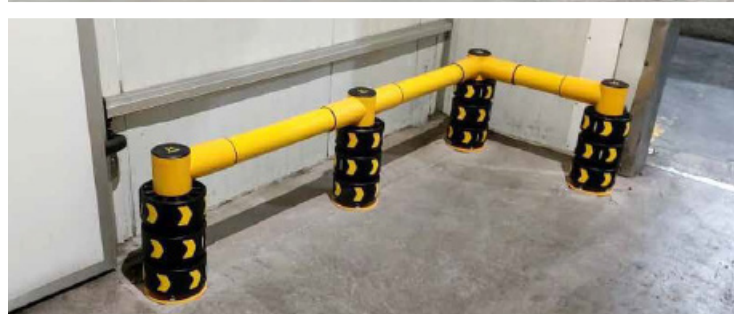
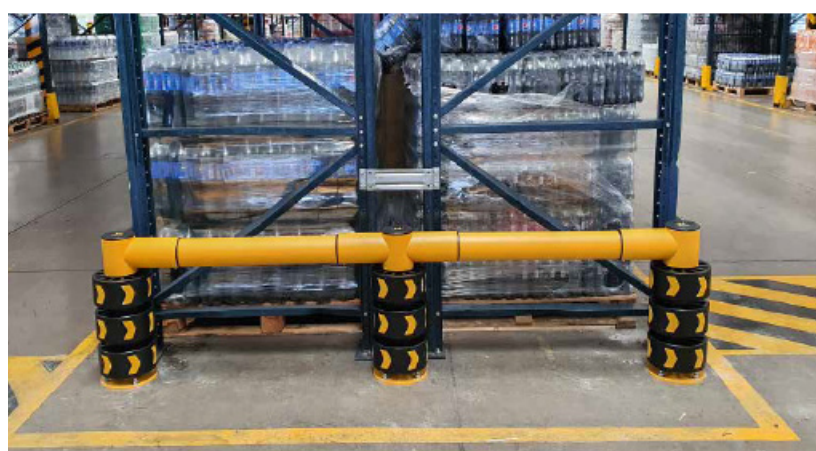
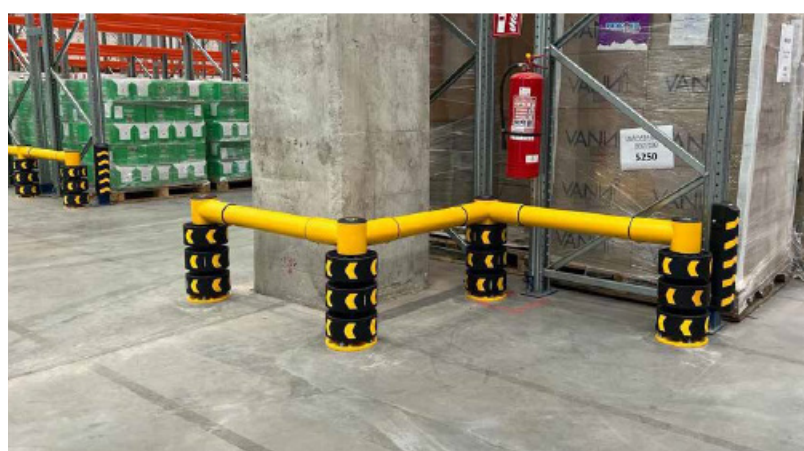


DIMENSIONS (mm)



* LENGTHS AND CONFIGURATION ACCORDING TO SPECIFIC REQUIREMENTS





DOUBLE GUARDRAIL B3-D

It constitutes the most robust barrier of the line; its design responds to the need to protect the flow of forklifts in double-way circulation areas. Its thick crossbodies prevent both the cargo being transported and the forklift itself from exceeding the barrier towards the opposite way. The lower zone of the barrier is able to absorb and redirect any change in the track of the forklift without problems.

APPLICATIONS

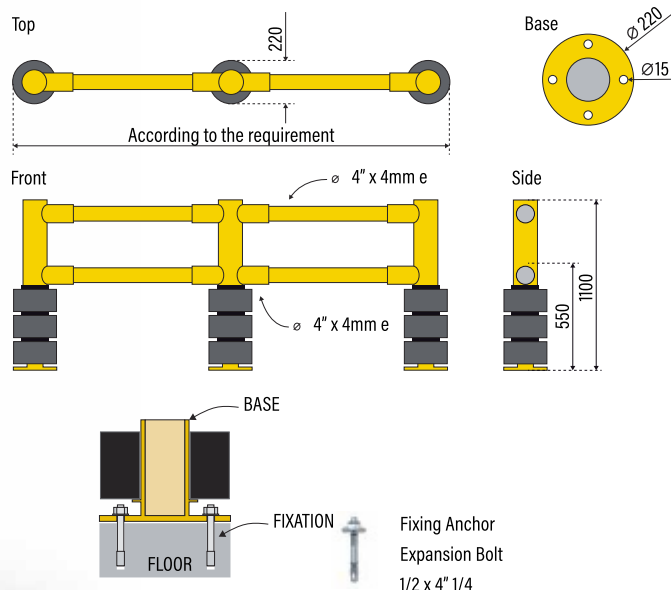
Forklift flows segregation, high flow zone segmentation, structures requiring additional protection, etc.

TECHNICAL INFORMATION

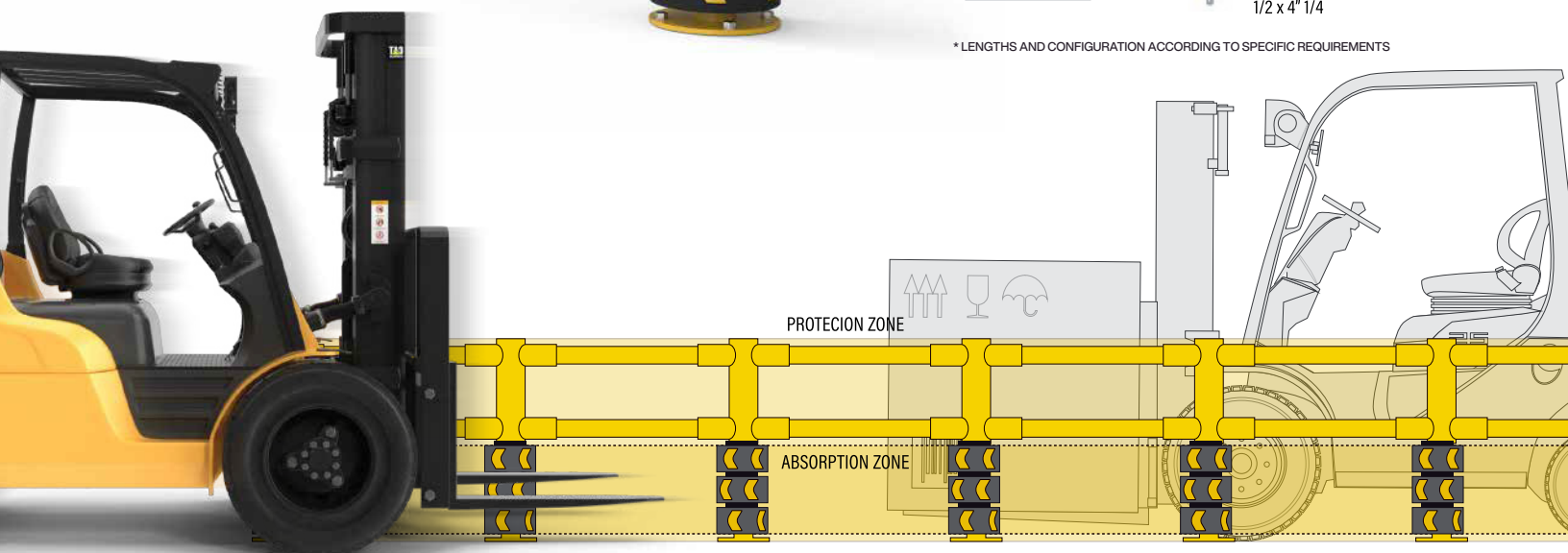
Effective protection height	Up to 3' 6" (110cm)
Length	According to Requirement
T ° range	-20°C to 70°C
Surface Finish	Yellow Electrostatic Paint
Anchor Type	1/2" x 4 1/4" Anchor Bolt (4 units per base)
Material	ASTM A36 Steel / NR Rubber

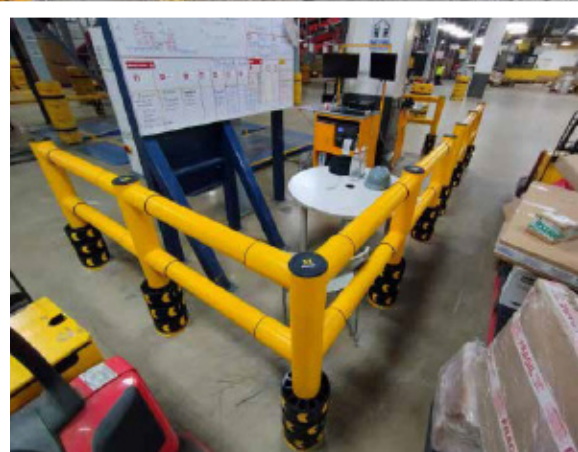


DIMENSIONS (mm)



* LENGTHS AND CONFIGURATION ACCORDING TO SPECIFIC REQUIREMENTS





PEDESTRIAN GUARDRAIL B3-P

Its structure with a standardized 110cm height generates the necessary segregation to protect personnel who move in areas where there is also low-speed vehicular or forklift traffic. The lower area of the barrier is capable of absorbing and resisting high-energy impacts caused by accidents, while the upper area provides additional protection and a sense of security thanks to its 110 cm height.

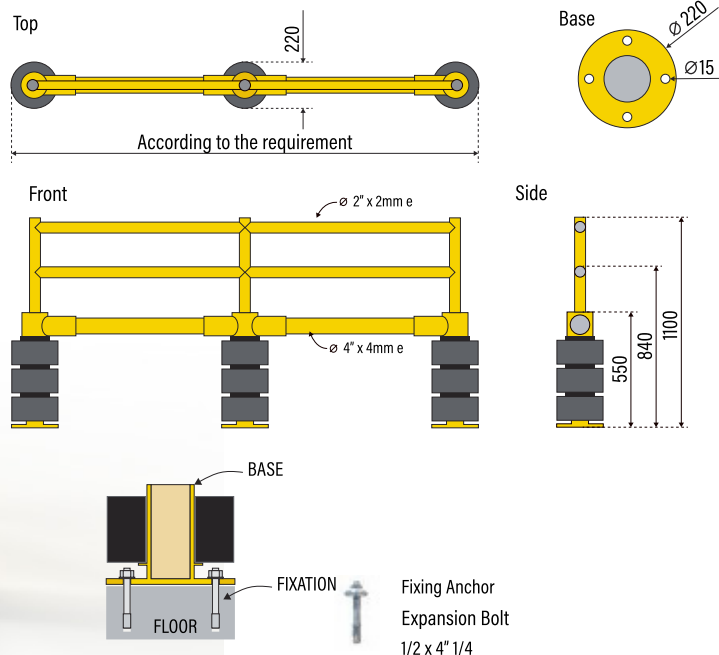
APPLICATIONS

Separation of pedestrian and forklift flows, pedestrian circulation in vehicular parking areas, pedestrian crossings, protection of access to offices or other facilities, etc.

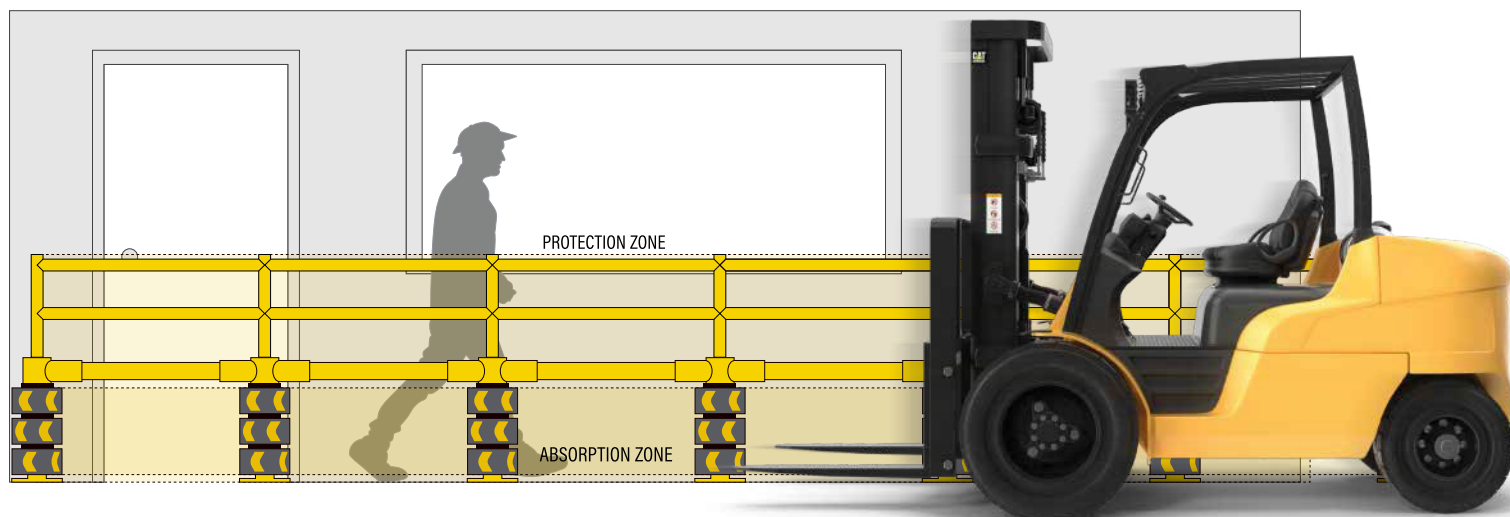
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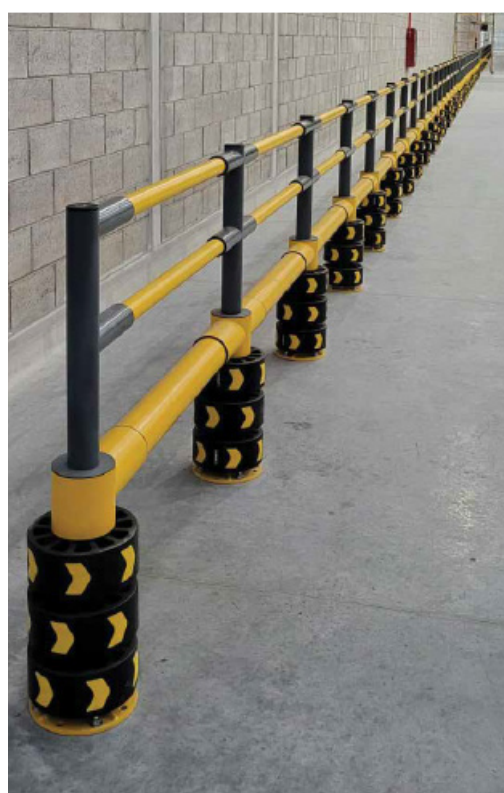
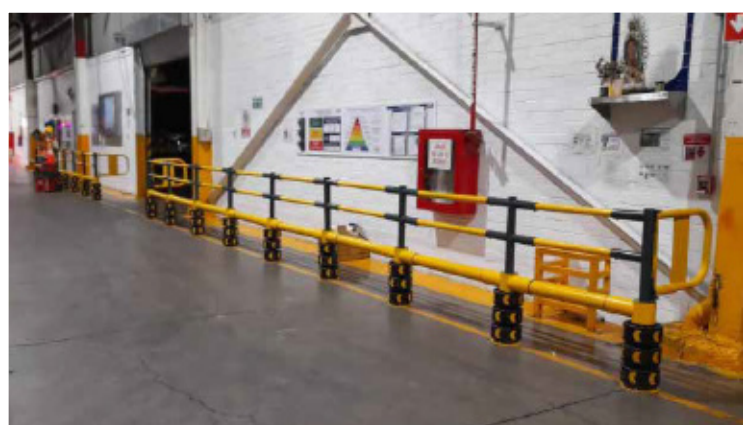
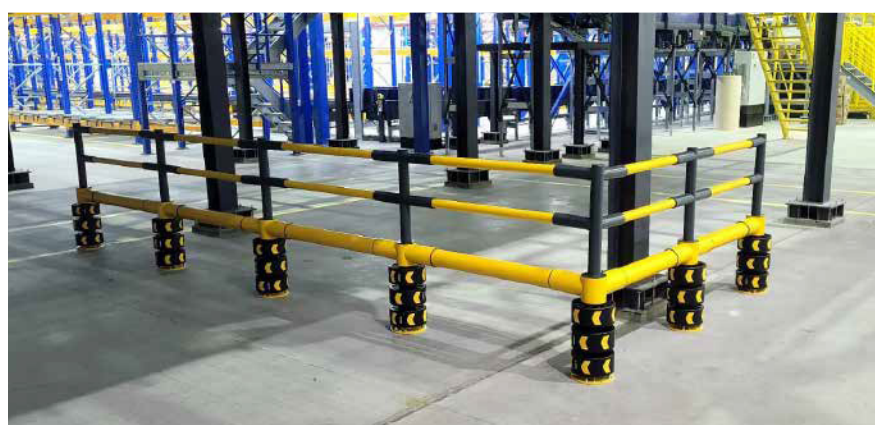
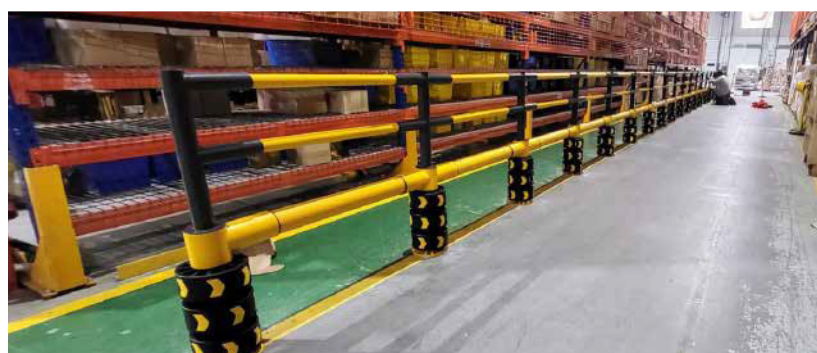
Effective protection height	Up to 3' 6" (110cm)
Length	According to Requirement
T ° range	-20°C to 70°C
Surface Finish	Yellow Electrostatic Paint
Anchor Type	1/2" x 4 1/4" Anchor Bolt (4 units per base)
Material	ASTM A36 Steel / NR Rubber

DIMENSIONS (mm)



* LENGTHS AND CONFIGURATION ACCORDING TO SPECIFIC REQUIREMENTS

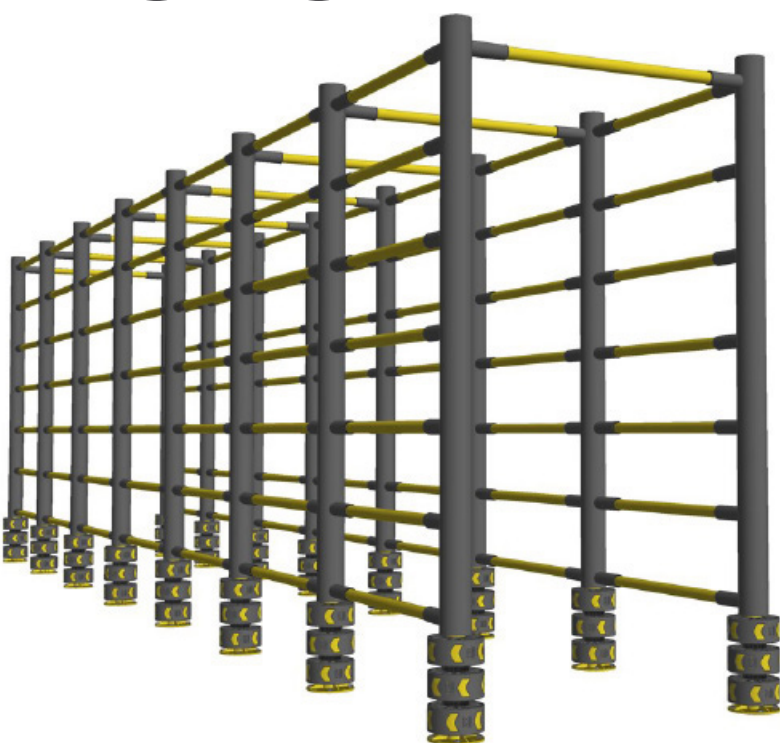
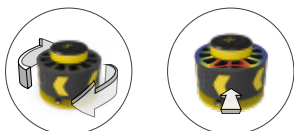






TUNNEL GUARDRAIL BG

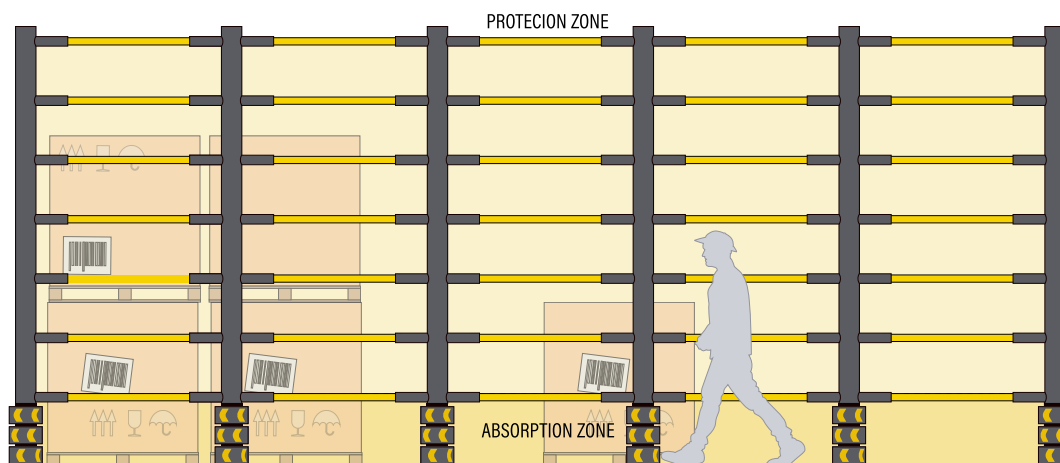
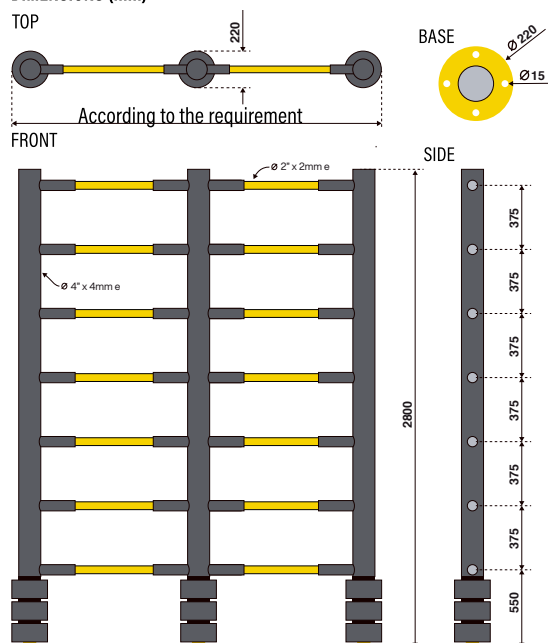
Specially designed to protect pedestrians from heavy objects that may fall due to being stacked at a height, this barrier generates effective protection against higher incidence hazards. It also provides protection for forklift traffic that could impact pedestrians on traffic lanes. Depending on the requirements, it can be anchored to a side wall or be self-supporting, creating a protection tunnel.

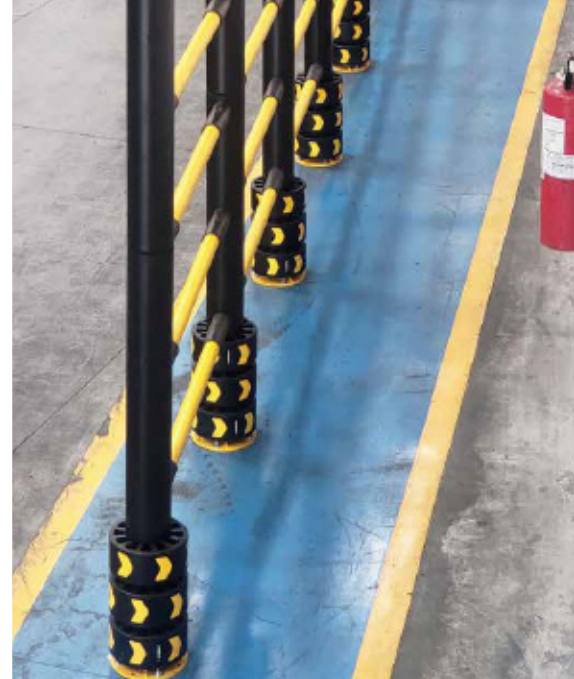
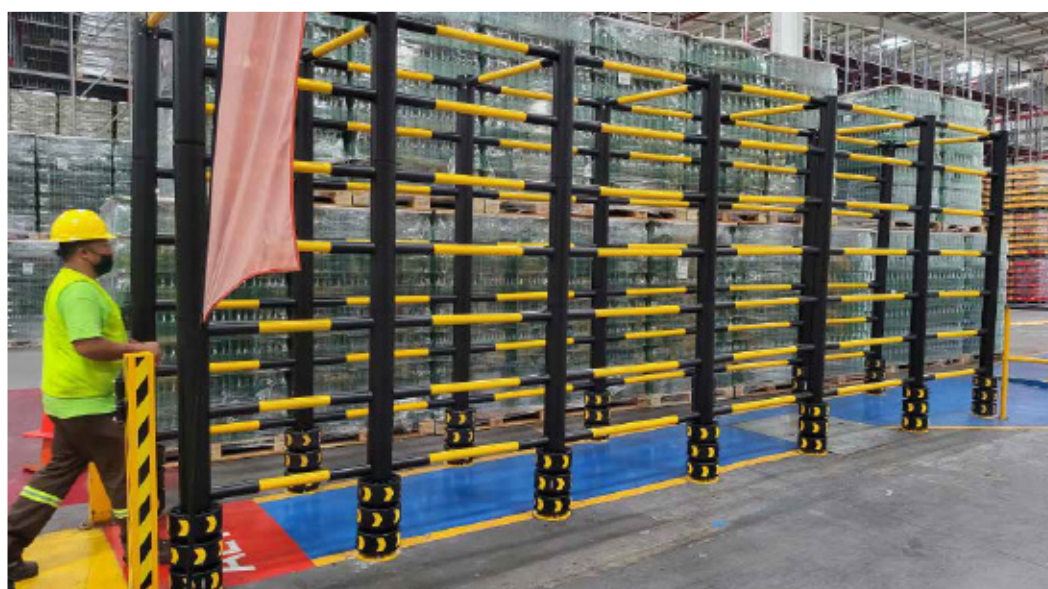


TECHNICAL INFORMATION

Effective protection height	Up to 9' 2" (280cm)
Length	According to requirement
T ° range	-20°C to 70°C
Surface Finish	Yellow Electrostatic pPaint
Anchor Type	1/2" x 4 1/4" Anchor Bolt (4 units per base)
Material	ASTM A36 Steel / NR Rubber

DIMENSIONS (mm)





STEEL GUARDRAIL B-AC

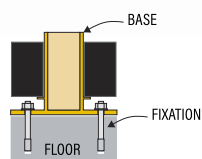
Designed for delimitation of areas where there is no risk of impacts or constant flow of forklifts, its robust steel structure generates protection for infrastructure and pedestrians.

APPLICATIONS

As demarcation on pedestrian or light machinery traffic routes, not recommended for areas with the presence of forklifts.

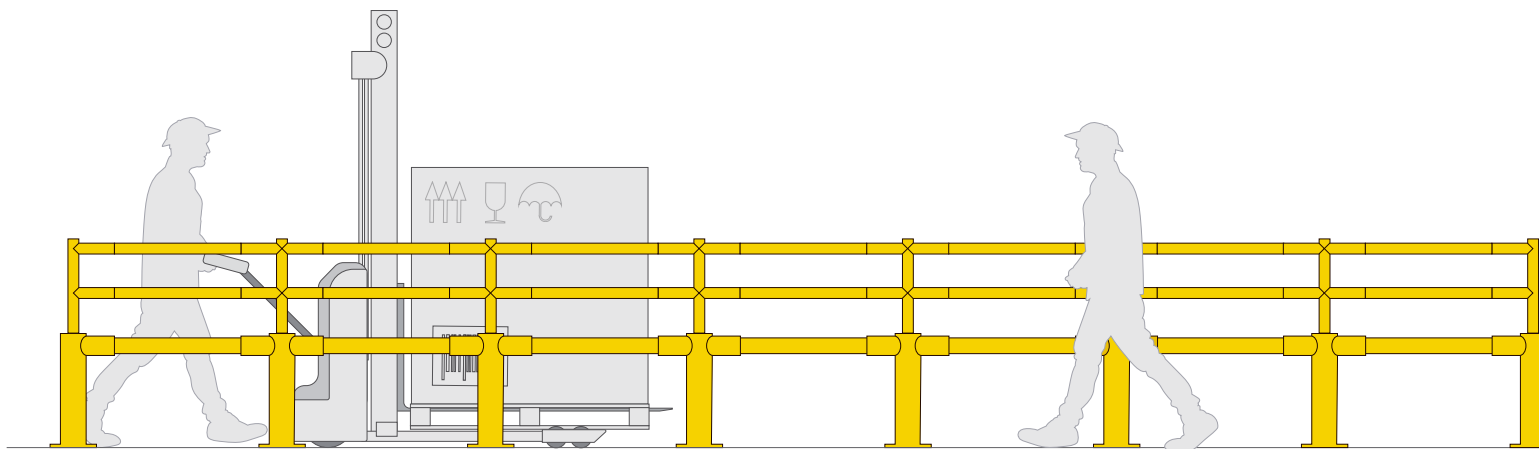
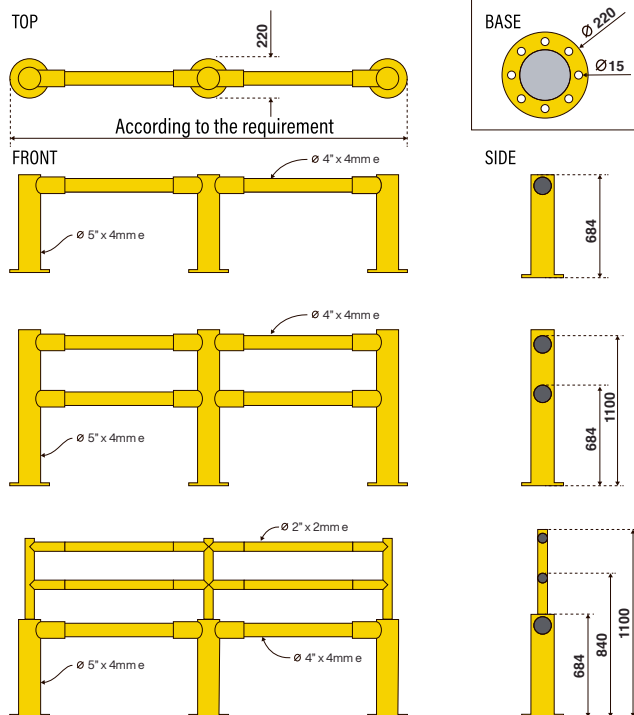
TECHNICAL INFORMATION

Effective protection height	Up to 3' 6" (110cm)
Length	According to Requirement
T ° range	-20°C to 70°C
Surface Finish	Yellow Electrostatic Paint
Anchor Type	1/2" x 4 1/4" Anchor Bolt (4 units per base)
Material	ASTM A36 Steel / NR Rubber



Fixation Anchor
Expansion bolt
1/2 x 4" 1/4

DIMENSIONS (mm)





FENCE GUARDRAIL B3-M

This barrier is designed to prevent accidents caused by spills of products stored at height. The upper section is made up of wire mesh that retains elements that can harm people who move on the other side of the barrier, while the lower zone can resist potential impacts of machinery to reduce the necessary repair costs that are typically associated with this type of barrier.

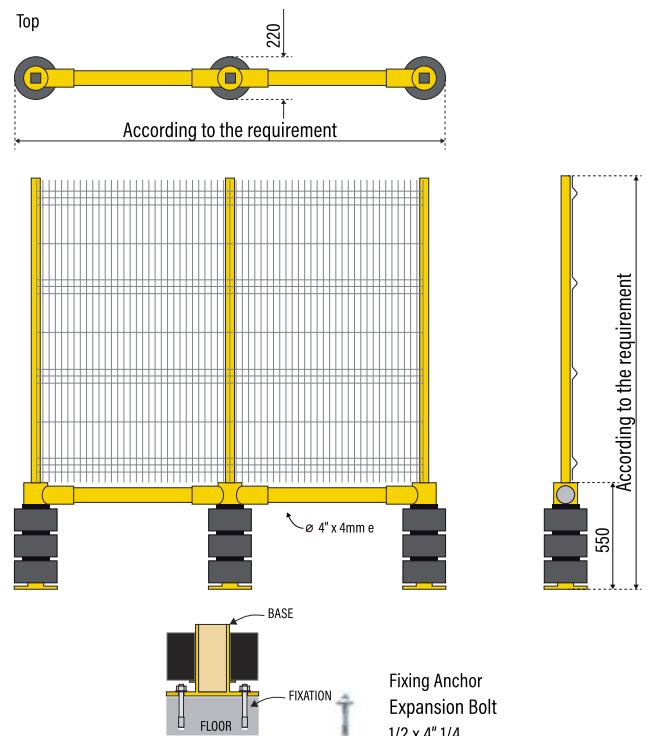
APPLICATIONS

Areas with pedestrian circulation and storage of products at height, segmentation of areas to generate individual storage units, separation of bulk storage, and safe storage of high-value objects, among others.

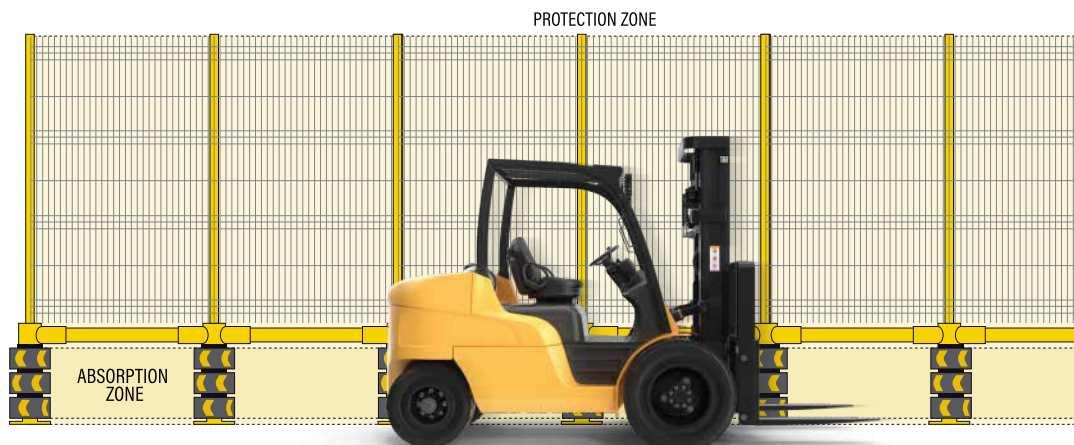
TECHNICAL INFORMATION

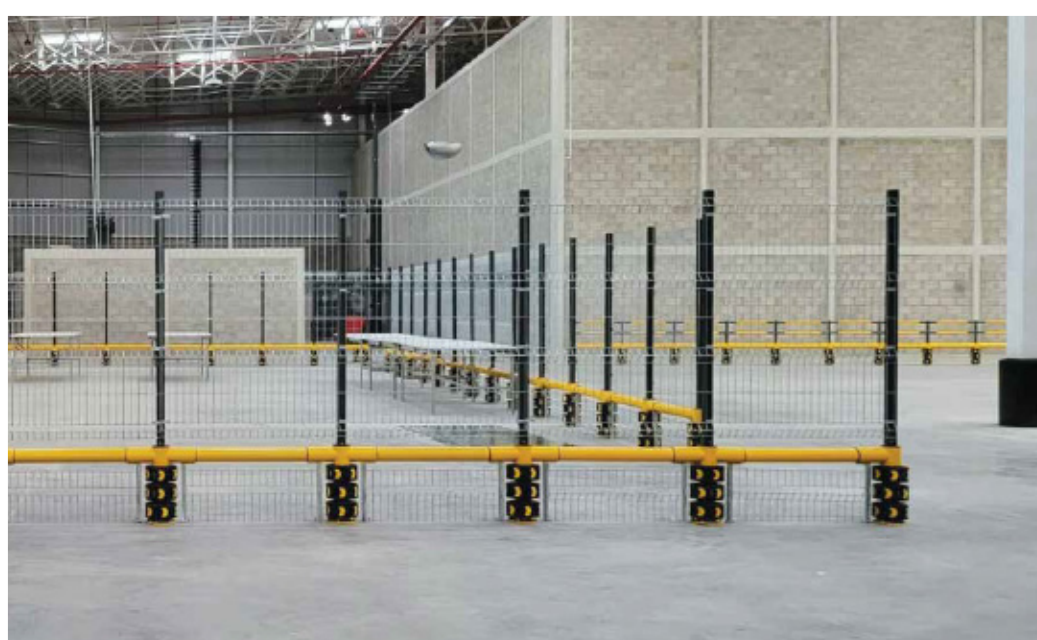
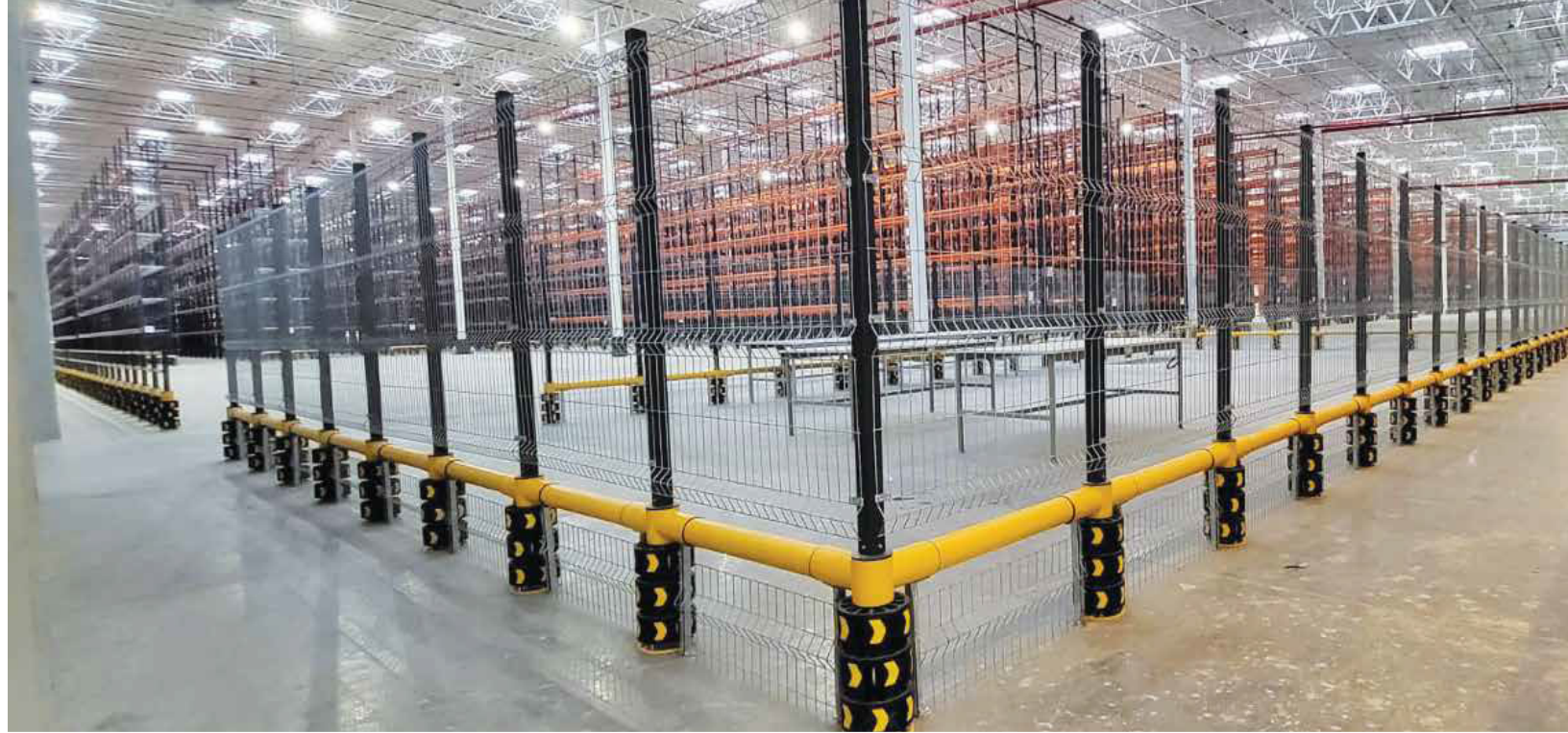
Effective protection height	7' 4" (2350mm)
Length	According to Requirement
T ° range	-20°C to 70°C
Surface Finish	Yellow Electrostatic Paint
Anchor Type	1/2" x 4 1/4" Anchor Bolt (4 units per base)
Material	ASTM A36 Steel / NR Rubber

DIMENSIONS (mm)



* LENGTHS AND CONFIGURATION ACCORDING TO SPECIFIC REQUIREMENTS





COLUMN GUARDRAIL BP

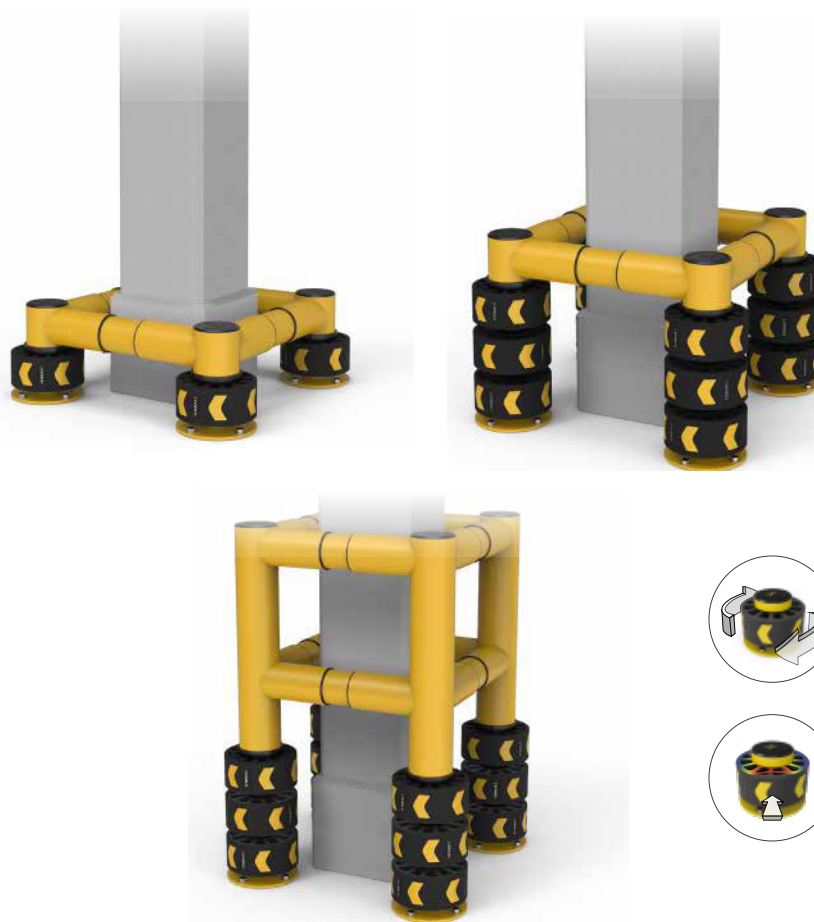
Designed to protect structural columns that are exposed to high-energy shocks, its modular structure allows configurations according to the customer's specific requirements and protection heights, combining the strength of steel and the flexibility of rubber modules.

APPLICATIONS

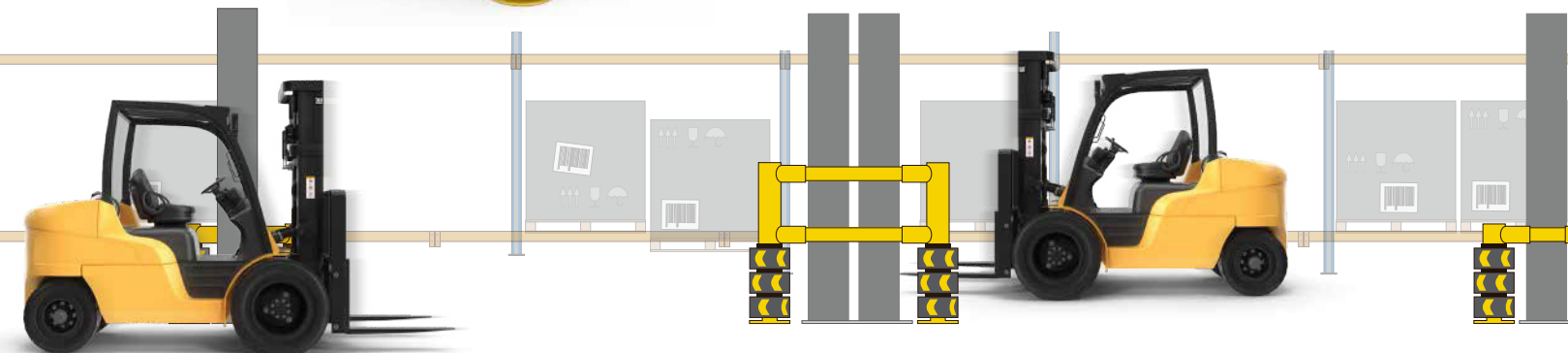
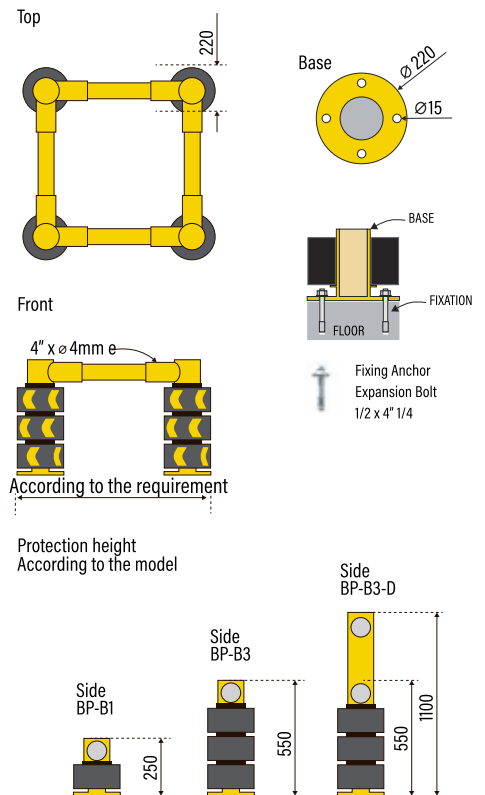
Structural columns exposed to high-energy impacts.

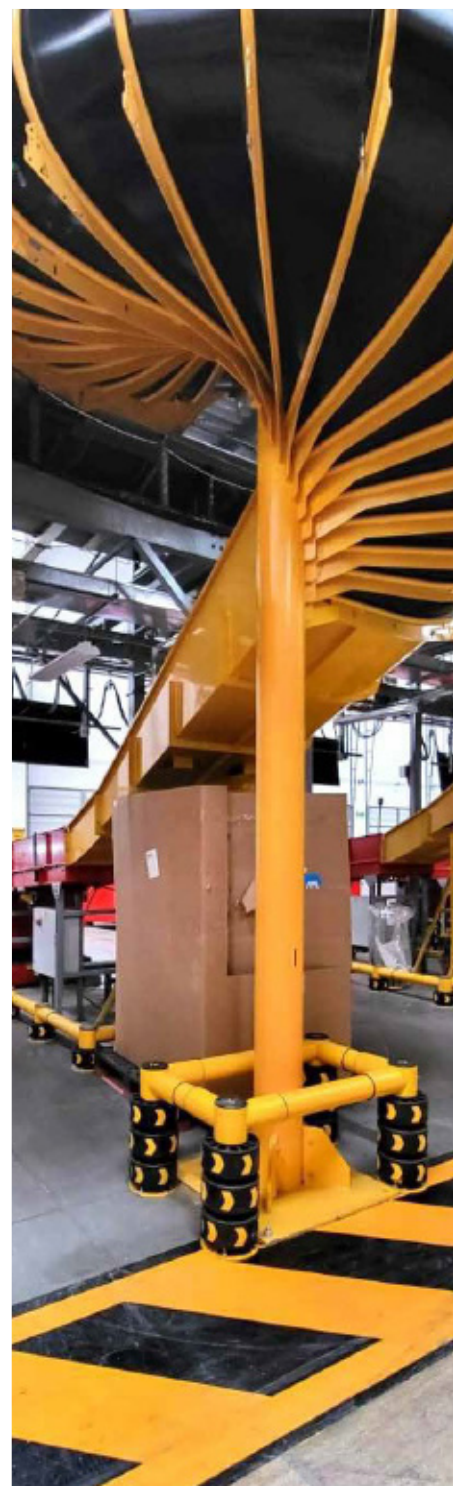
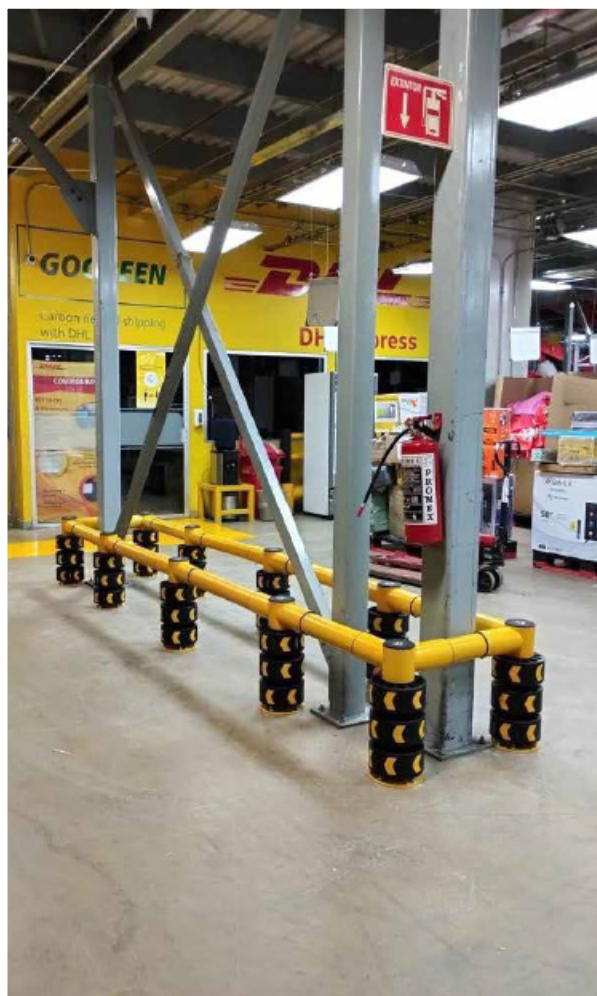
INFORMACIÓN TÉCNICA

Effective protection height	Up to 3' 6" (110cm)
Length	According to Requirement
T ° range	-20°C to 70°C
Surface Finish	Yellow Electrostatic Paint
Anchor Type	1/2" x 4 1/4" Anchor Bolt (4 units per base)
Material	ASTM A36 Steel / NR Rubber



DIMENSIONS (mm)





BOLLARD BOL

The Ennat Bollard protects delicate or high-cost items, such as rails, cargo door curtains, and warehouse doors. With a fraction of the cost of a barrier, it is possible to obtain a high capacity of protection in exposed corners. It is also very useful in areas where low-speed vehicular traffic or forklifts must be restricted without blocking pedestrian flow or access for small-sized elements.

APPLICATIONS

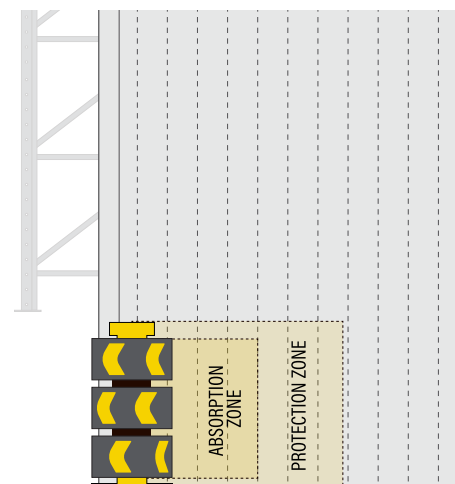
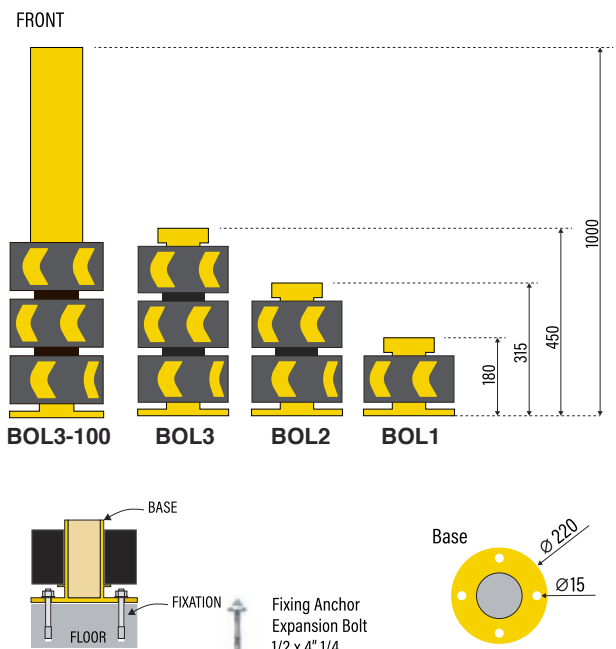
Protection of rails and door curtains, warehouse doors, vehicle or forklift flow restrictors, turn points exposed to impacts, etc.

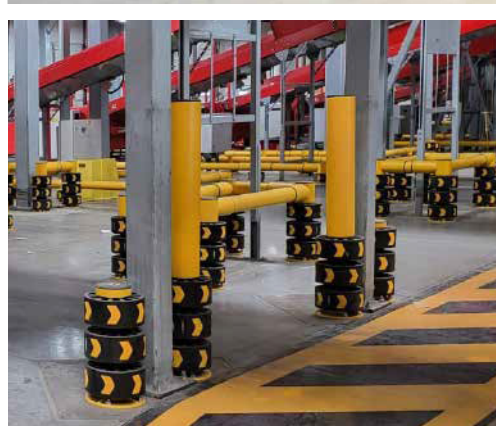
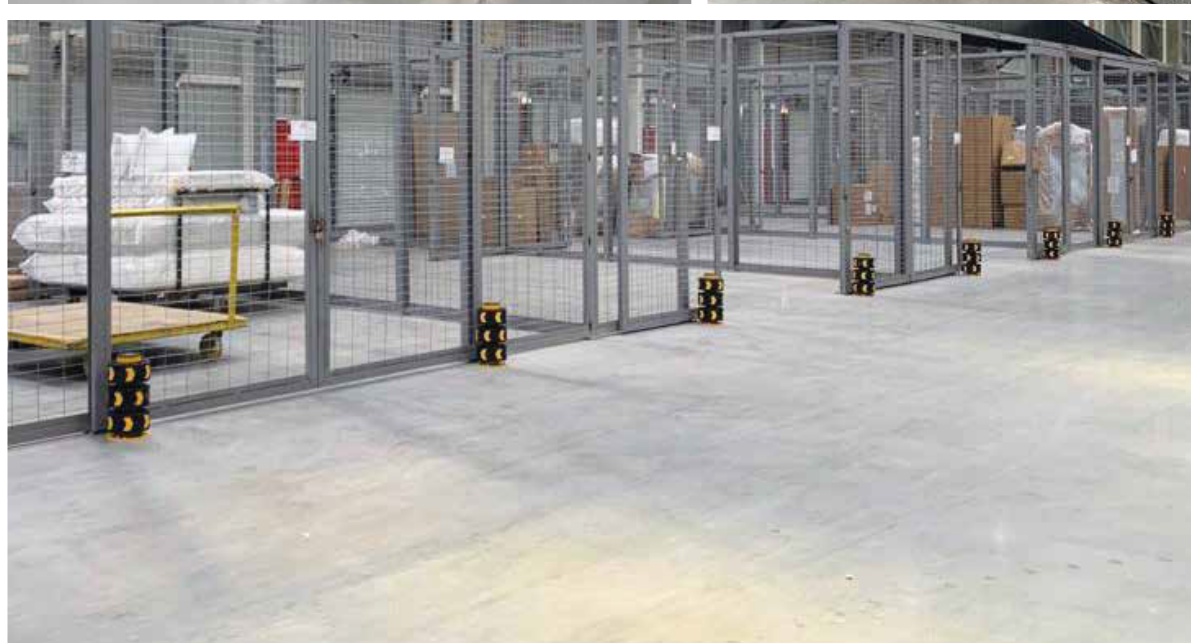
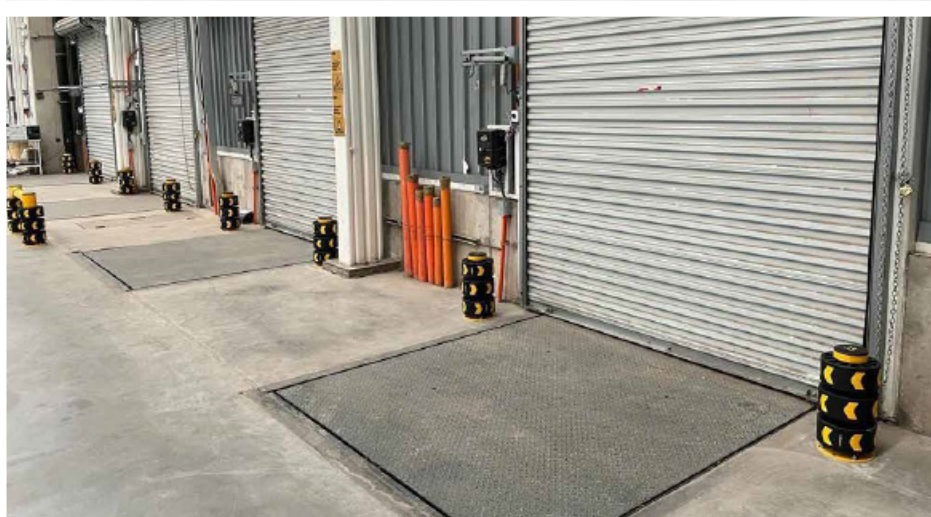
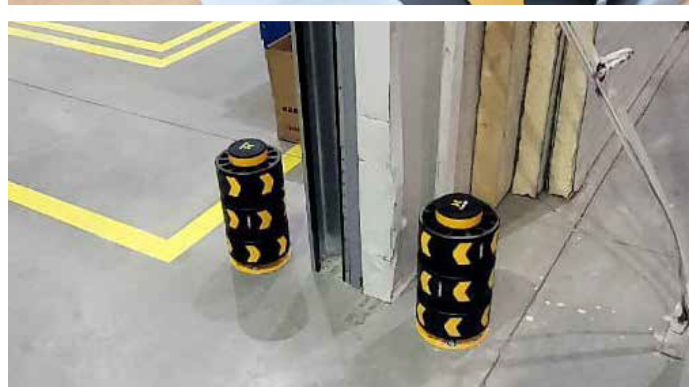
TECHNICAL INFORMATION

Effective protection height	Up to 3' 6" (110cm)
T ° range	-20°C to 70°C
Surface Finish	Yellow Electrostatic Paint
Anchor Type	1/2" x 4 1/4" Anchor Bolt
Material	ASTM A36 Steel / NR Rubber



DIMENSIONS (mm)





PEDESTRIAN GATE GAT85

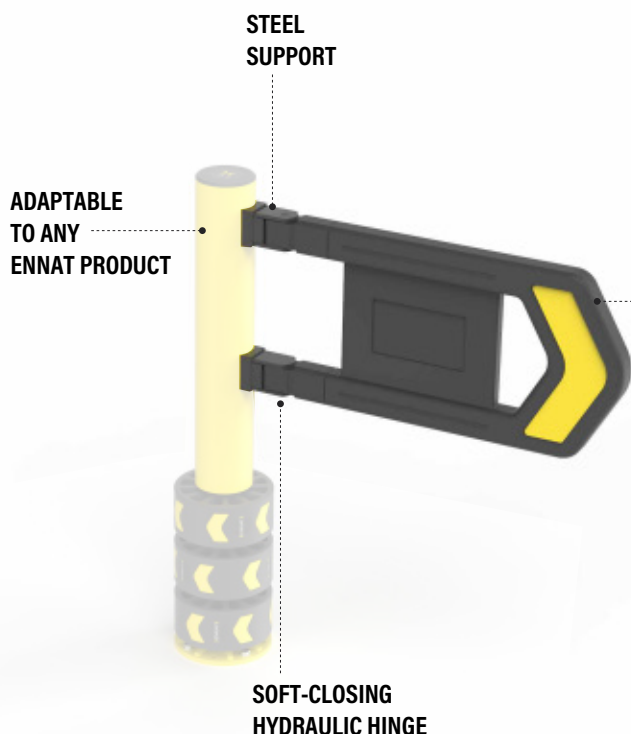
Designed to prevent unauthorized access and ensure the safety of pedestrians in forklift operation areas. It automatically closes to prevent overstepping, thereby avoiding potential accidents and protecting people's well-being.

APPLICATIONS

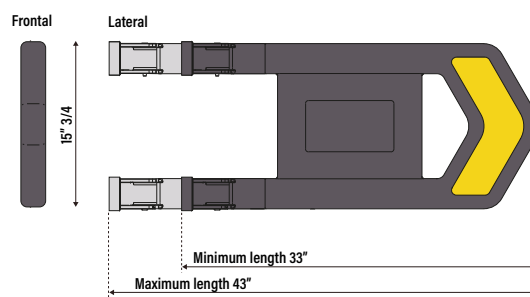
Access to truck loading and discharge areas entrances and exits of industrial warehouses pedestrian crossings in heavy vehicle traffic areas.

TECHNICAL INFORMATION

Effective Height	15" 3/4
Length	Adjustable from 33" to 43"
Opening	Both sides
Selection of opening side	Yes, by placing the safety stop
Material	Steel and High Density Polyethylene



DIMENSIONS (in)

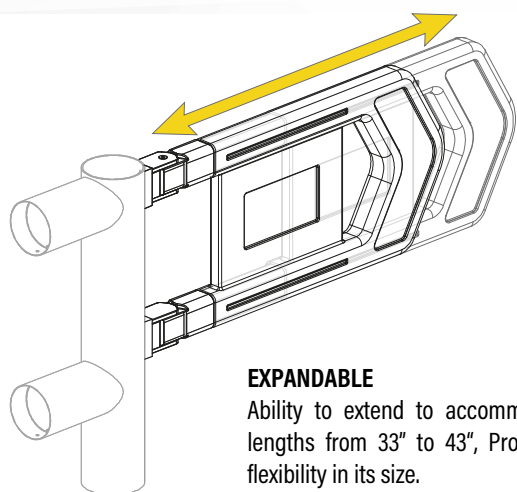


HYDRAULIC SELF-CLOSING HINGE

The hydraulic self - closing hinge is a safe and efficient mechanism that ensures the automatic closing of doors and gates. Its hydraulic operation eliminates the need for manual closure and reduces the risk of accidents. It provides peace of mind by ensuring reliable closure and protection for pedestrians and operating equipment. designed with robustness for long-lasting performance.

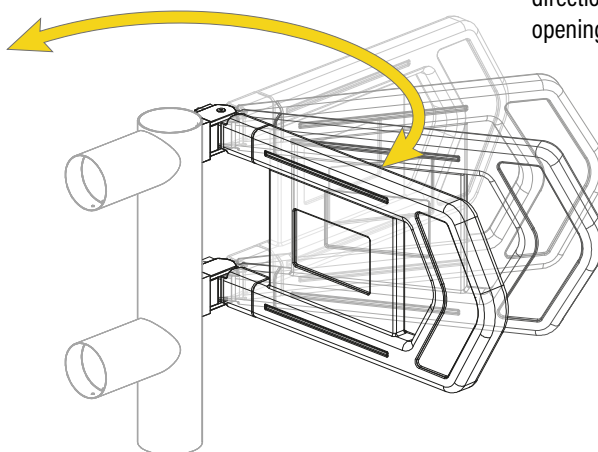
OPENING RANGE

Ability to open in both directions through and opening selector.

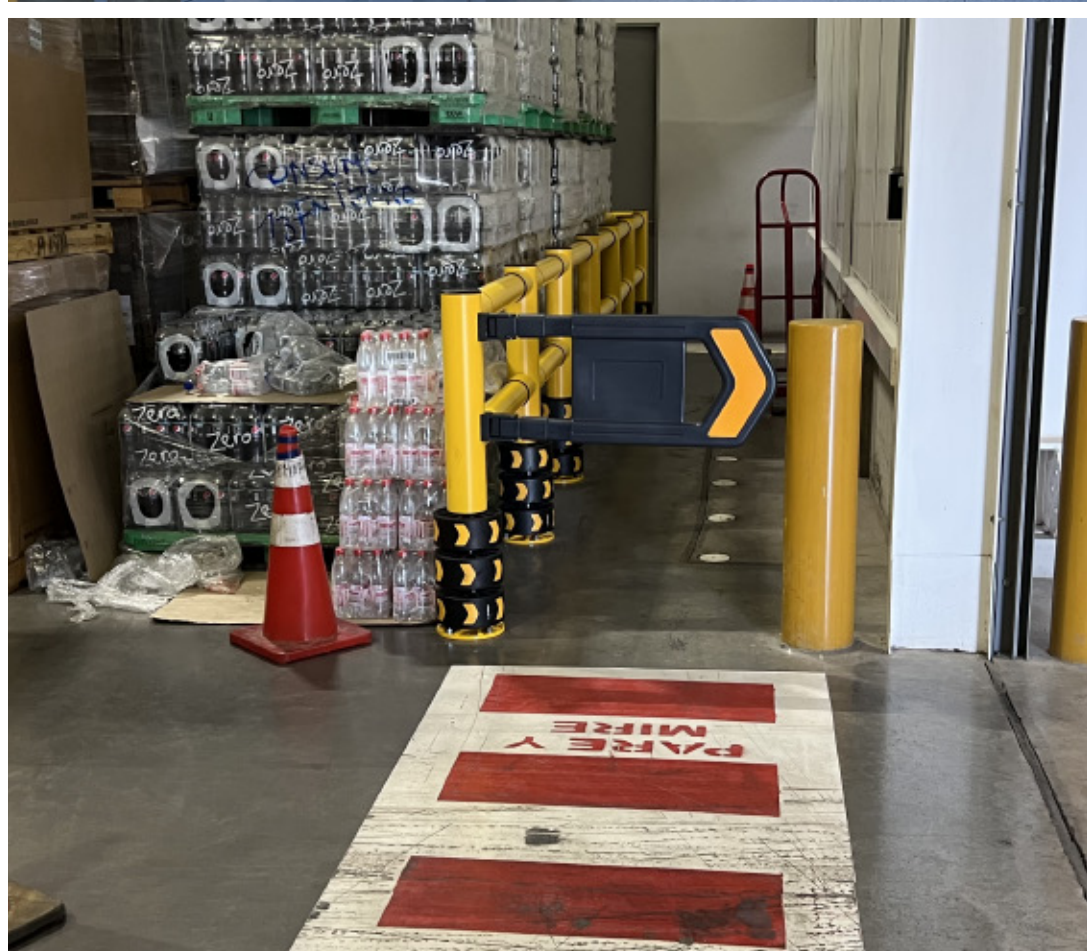
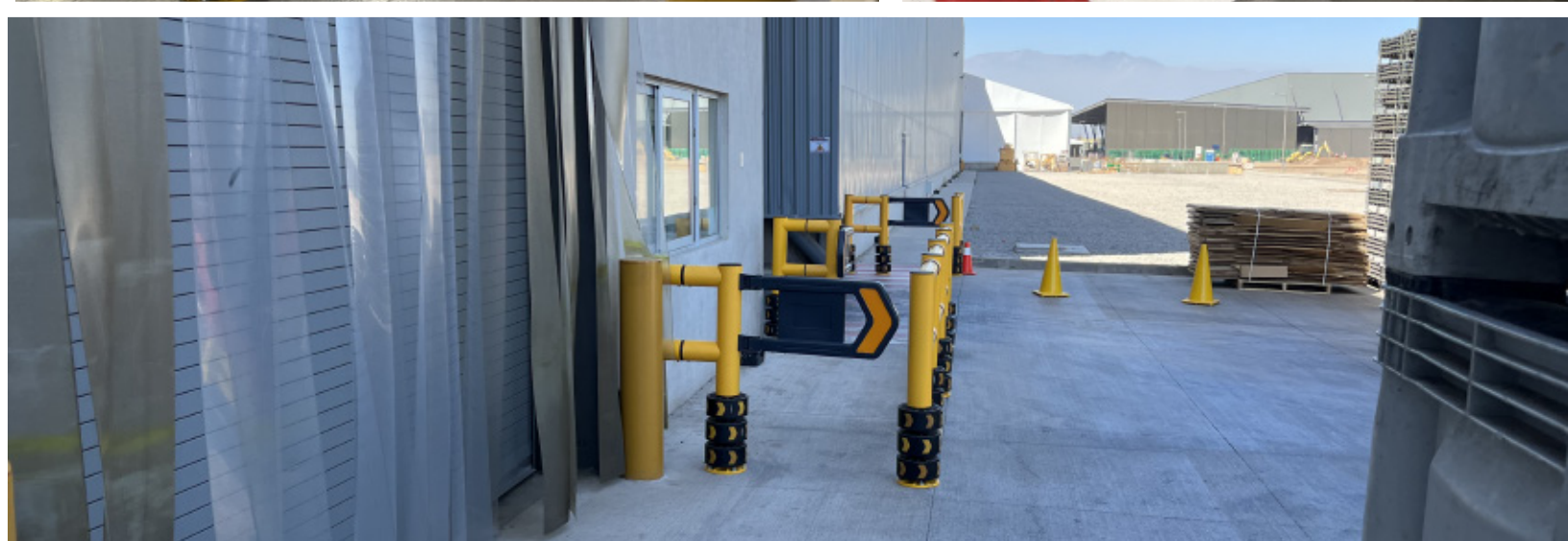


EXPANDABLE

Ability to extend to accommodate lengths from 33" to 43", Providing flexibility in its size.



"Support structure sold separately"





COLUMN PROTECTOR PP

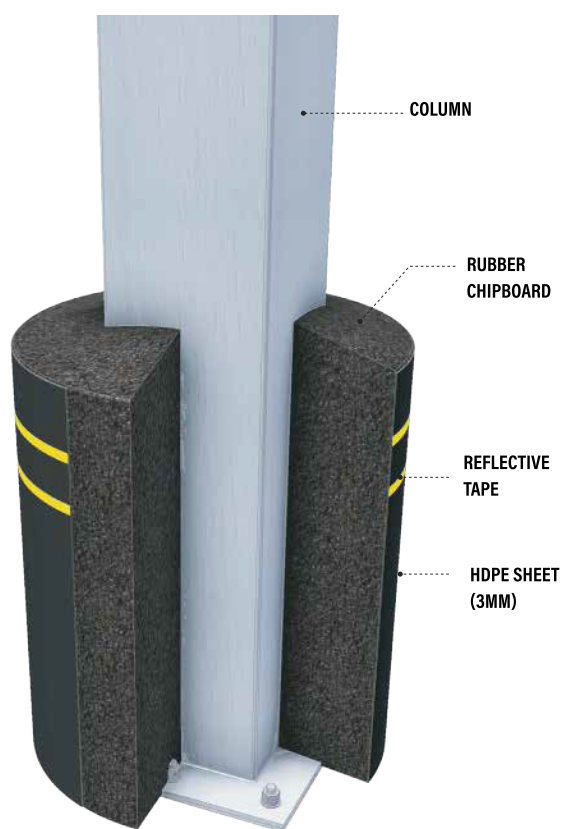
The Ennat Column Protector is composed of a core of agglomerated recycled rubber, whose formula generates a product capable of deforming, thus generating high absorption rates. It is covered by a 3mm thick black HDPE sheet, which acts as a container for the material. It also consists of reflective strips on its surface that increase its visibility.

APPLICATIONS

The column protector is able to adapt to different types and sizes of existing pillars.

TECHNICAL INFORMATION

Effective protection height	Up to 3' 6" (110cm)
T ° range	-20°C to 70°C
Surface Finish	3 mm black HDPE sheet + yellow reflective strips
Fixing Method	Self Supporting
Material	Agglomerated Recycled Rubber



IMPACT ABSORPTION

Energy absorption thanks to the elasticity of the rubber, which generates the deceleration and dissipation of the impact energy.

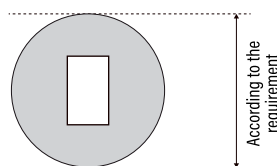


RECYCLED MATERIAL

The ennat pillar protector contains 100% rubber from end-of-life tires, which are shredded and agglomerated using a novel technique, using a raw material that would otherwise end up polluting our environment.

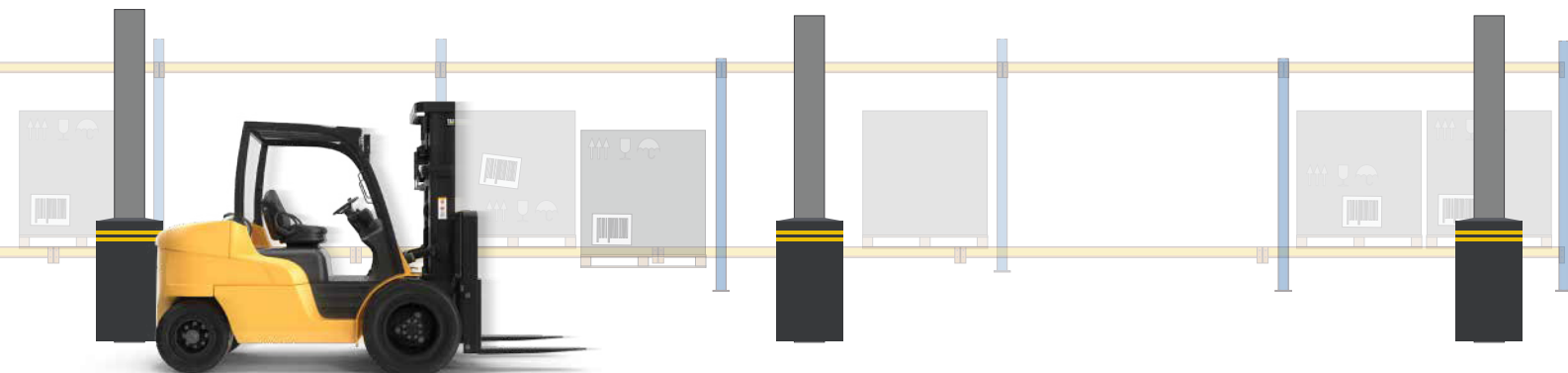
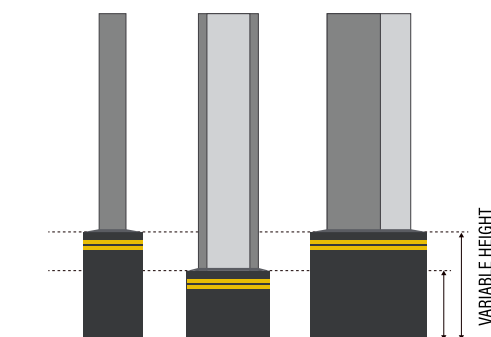
DIMENSIONS

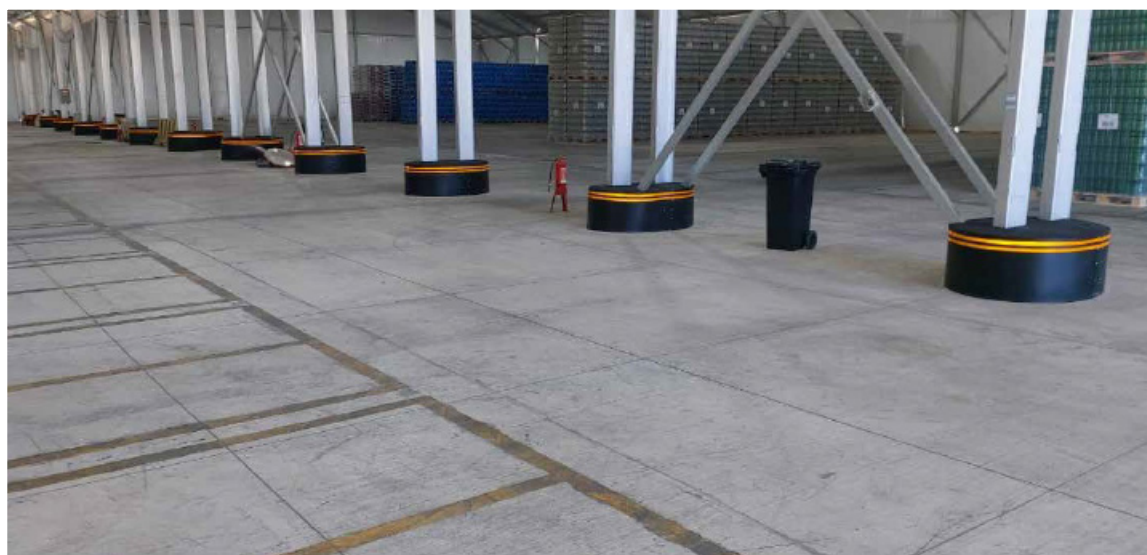
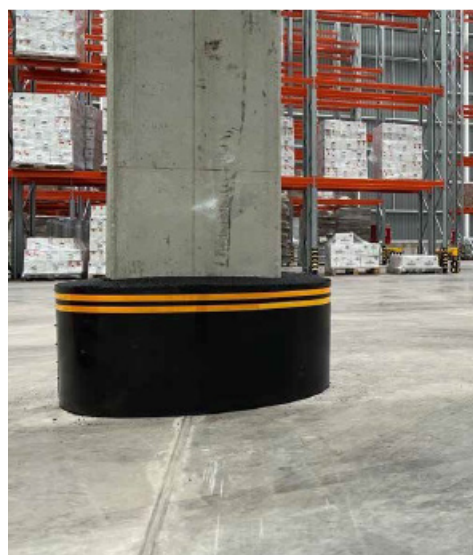
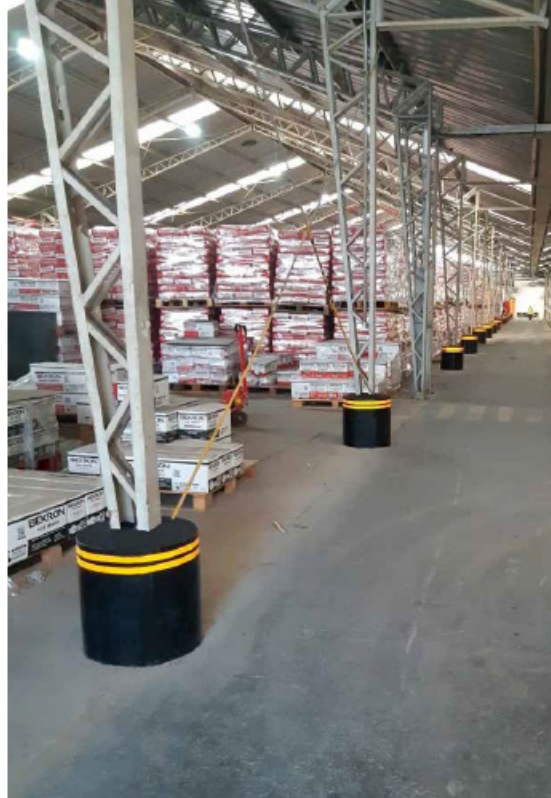
TOP



ADAPTABILITY

Fits to the different sections of the columns.





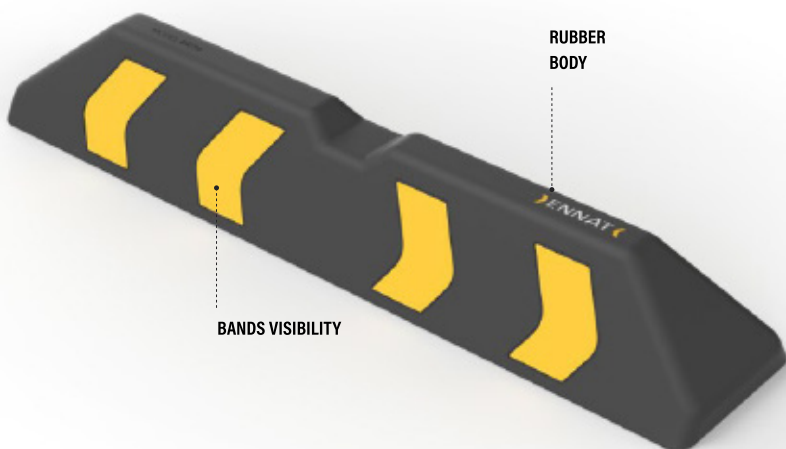


DELIMITER DE70

The Ennat Delimiter is designed to generate a low barrier without obstacles, distancing hazardous elements from what needs protection, such as cold chamber panels, machinery, or delimited storage areas for pallets that cannot be exceeded. Thanks to its frames on both sides, it is also effective in delimiting areas and zones of circulation that do not require pedestrian limits. Its construction base considers a solid section of material to ensure strength and durability.

APPLICATIONS

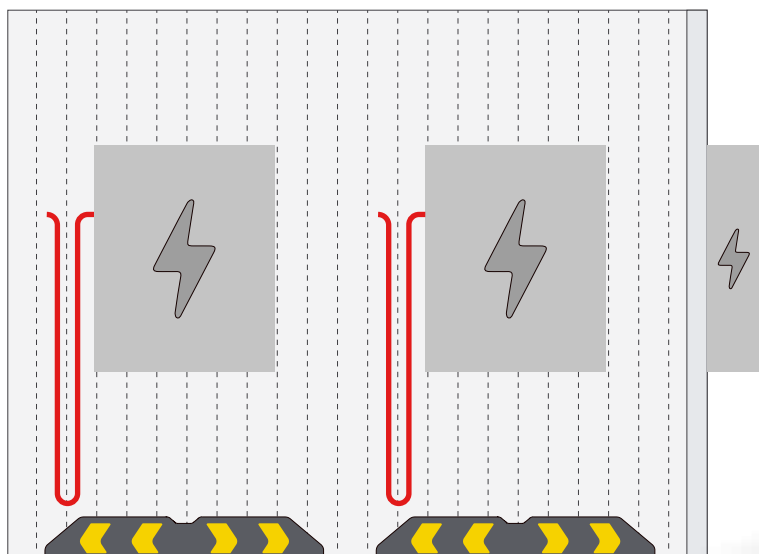
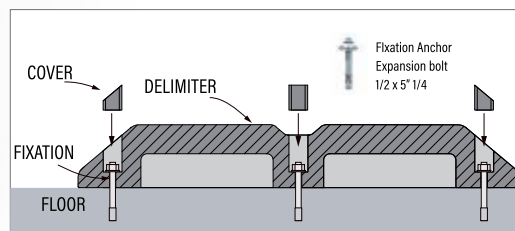
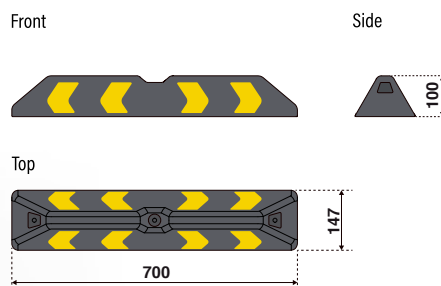
Delimitation of areas, protection of partitions and cold chambers, stop indicator for the handling and storage of pallets.

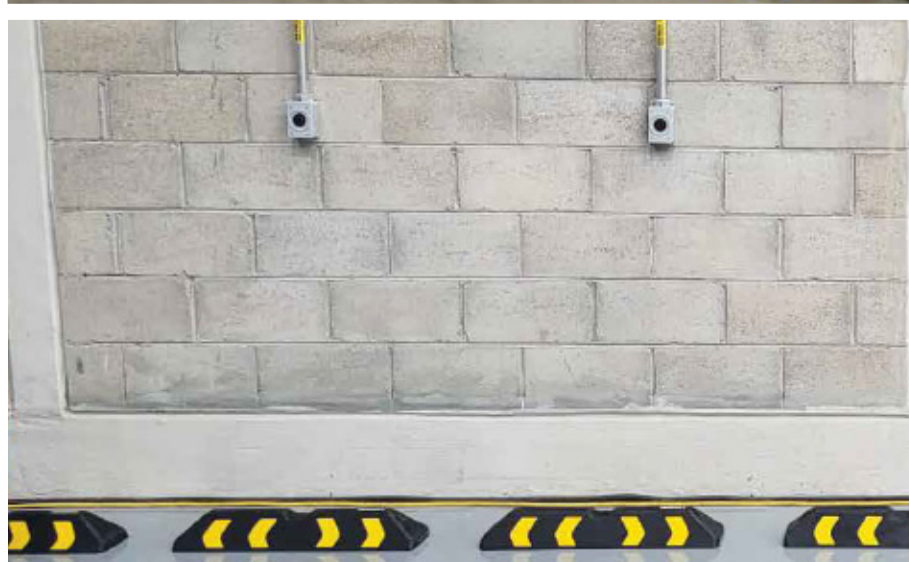


TECHNICAL INFORMATION

Weight	8 kg
T ° range	-20°C to 70°C
Surface Finish	Soft black rubber with yellow stripes
Anchor Type	1/2" x 4 1/4" (3 units per base)
Material	NR Rubber

DIMENSIONS (mm)







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