

# Enova

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Design, calculations and manufacturing  
of **Storage Systems**



## DRIVE IN

The **Strength** of simplicity





We have a background of more than **50 years of knowledge** in the design and manufacturing of Storage Systems. We have consolidated and strengthened our position based on the humility and freshness of a young and specialized team, which added to our latest generation technologies, makes **ESNOVA** enjoy the trust and confidence of our worldwide customers.



WE EXPORT TO OVER THAN **30 COUNTRIES**



## EXPERIENCE

We have a large group of professionals with a long career in the logistics sector.

Design, calculations and manufacturing of **Storage Systems**

We can give you an efficient and direct response. We count with a large variety of references in stock for delivery in a few days and we adapt to special requirements for any type of business and storage. From the lightest shelving to the most sophisticated automatic storages.

We always offer efficient storages by studying each case and adapting the best solution for it:

- Optimize the available space.
- Increase storage capacity.
- Make the square metre of storage more profitable.
- Provide a more logical order for easy location and greater protection against damages and losses.
- More security for staff and facilities.
- Generate higher productivity in operations and resources.
- Offer a better service to our customers.

## SOLUTIONS



Industrial racking/shelving to store all types of products. Light, medium and heavy loads, palletised loads, big loads...

Standard Pallet Racking, Drive-in Racking, Cantilever, Rack-clad storage systems and automatic systems, Long Span racking, Boltless shelving (Riveto), Multi-tier shelving, mezzanines, metallic containers. All of them formed a great range of storage solutions which, together with our experienced team, will solve your storage problems with quality, safety and lower cost.



## Technology

Our machinery at your service. We are equipped with the most flexible and advanced production systems for the design and manufacture of parts, components and competitive metal products.



## Lab Tests

We have a Testing Laboratory where the performance of all different components of each system is verified by testing loads, resistance, buckling ...



## Innovation

Innovate to improve, both in **new products** and in the optimization of existing products.

## Quality



Esno

va sets as a priority the quality standards in each and every one of the processes it develops.

- Certificate in the quality management system (ISO 9001).
- Certificate in the environmental management system (ISO 14001).
- Certificate in the occupational health and safety management system (ISO 45001).
- UNE EN 1090 Certificate of CE Marking.
- Member of the European Federation of Maintenance FEM/AEM.



Management  
System  
ISO 9001:2015  
ISO 14001:2015  
ISO 45001:2018  
[www.tuv.com](http://www.tuv.com)  
ID 9105076955





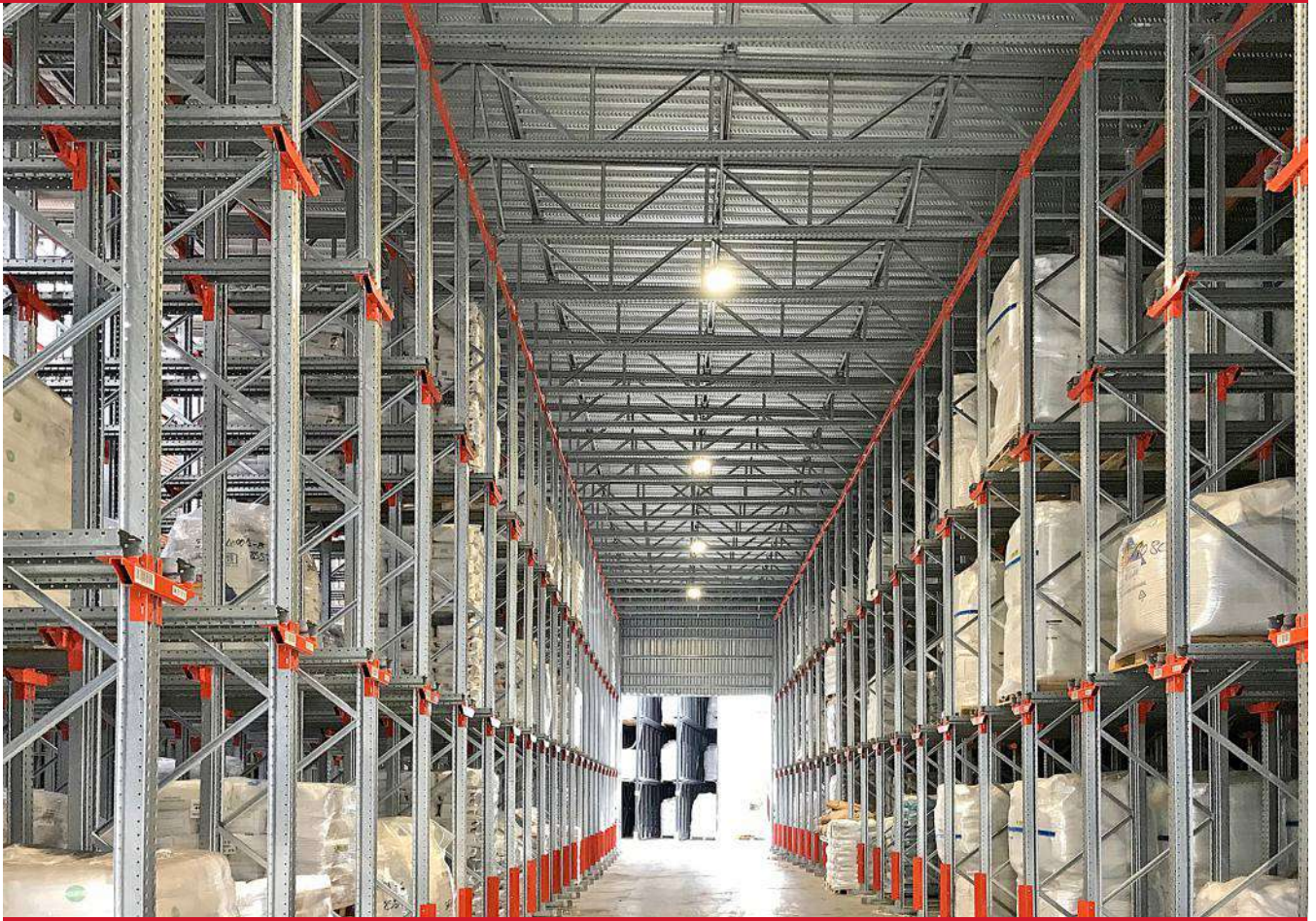
# DRIVE IN

IT IS THE IDEAL SYSTEM TO STORE LOADS WITH THE SAME REFERENCE IN DEPTH

- Greater storage density.
- Up to 85% of the available space can be used.
- It can be adapted to different space requirements as well as to goods' measures, weights and volumes.

It is the ideal system to store loads with the same reference in depth.









## COMPACT DRIVE-IN STORAGE SYSTEM

This industrial shelving system is designed in order to use up to 85% of the available storage area.

It is a system capable of storing a great deal of loads with the same reference.

Its configuration allows us to maximise warehouse's height and space, thanks to working aisles' reduction. On the one hand, this system penalised direct access to each pallet. On the other hand, it increases the usable area.





It consists of series of lanes by which fork-lifts enter so as to place the pallets on the rails. Those rails can be located at different heights, depending on customer's storage necessities.

This storage system is characterised by its high density, something that boosts productivity by the optimisation of the available resources.



Each lane has floor guide rails that facilitates the entrance and the exit of forklifts, avoiding collisions or accidental impacts that could damage the installation.

This kind of storage system is appropriate for non-perishable goods, as well as for storing loads at low temperatures.



Esnova offers two types of compact systems:

**Drive In:** Its configuration only counts with one loading entry.

**Drive Through:** It counts with one entry by each end.

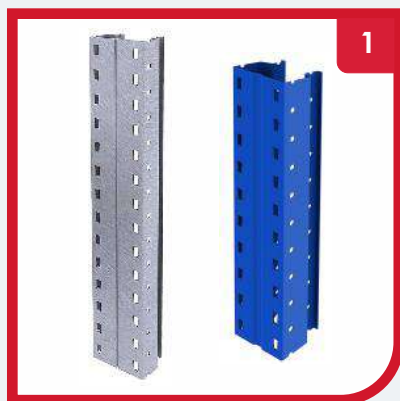
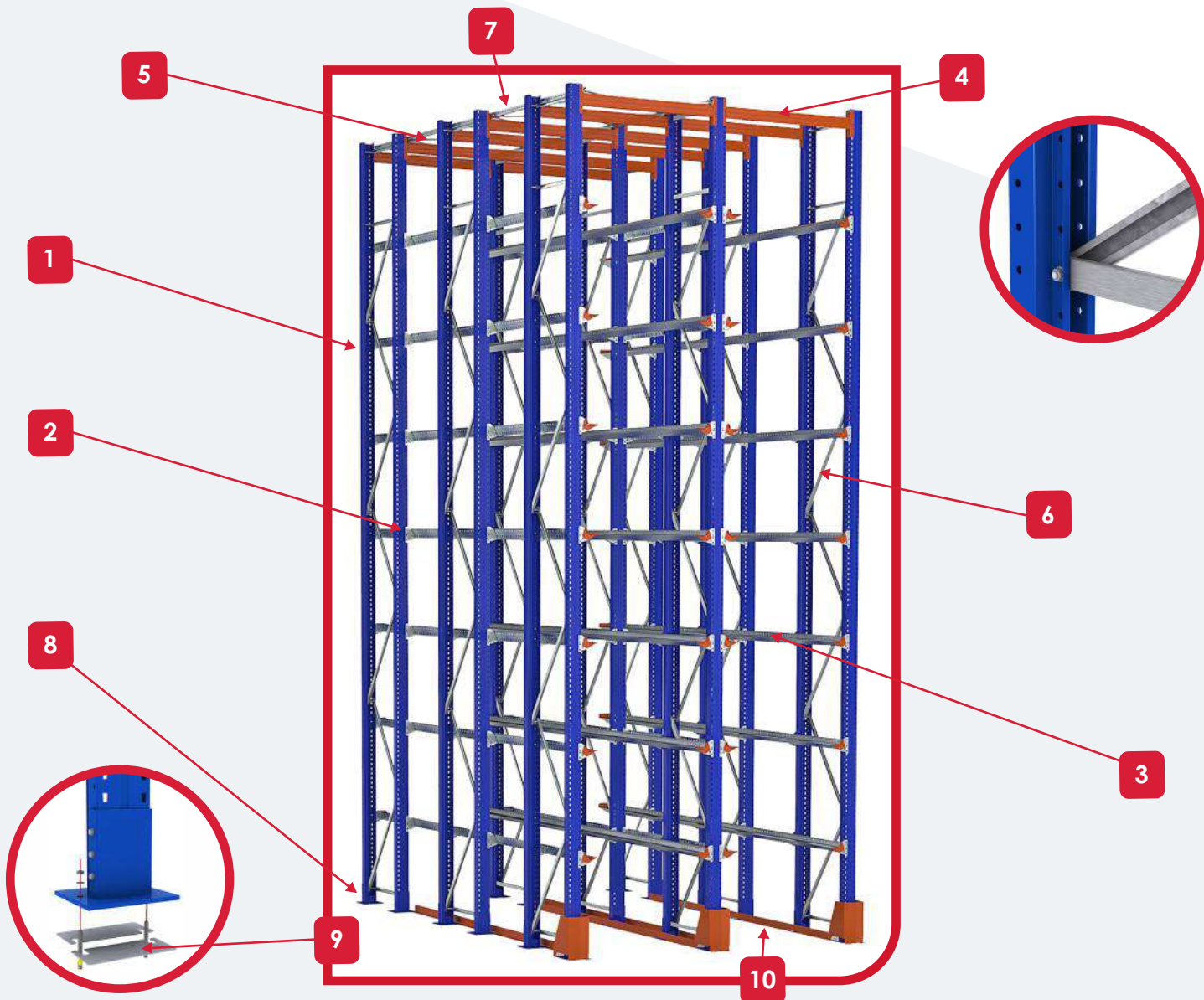
Both options support heavy loads, offering each one of them **great resistance and safety**.





## SYSTEM COMPONENTS

The structure of a Drive-In storage system includes the following elements:



UPRIGHT

Standard finishing

Blue 5019

Pregalvanized



STAMPED BRACKET  
Left / Right

Standard finishing

Pregalvanized



PALLET RAIL

Standard finishing

Pregalvanized



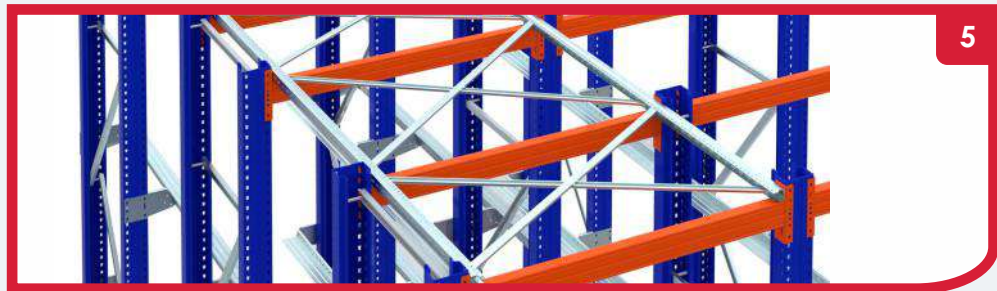


UPPER BEAM FOR  
CONNECTOR DUO

Standard finishing  
Orange 2004

TOP HORIZONTAL  
BRACING

Standard finishing  
Pregalvanized



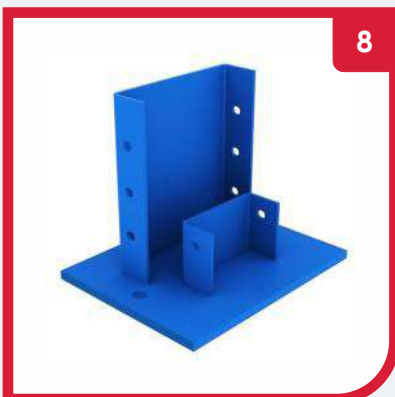
DIAGONAL  
& HORIZONTAL

Standard finishing  
Pregalvanized



TOP HORIZONTAL BRACING PROFILE

Standard finishing  
Pregalvanized



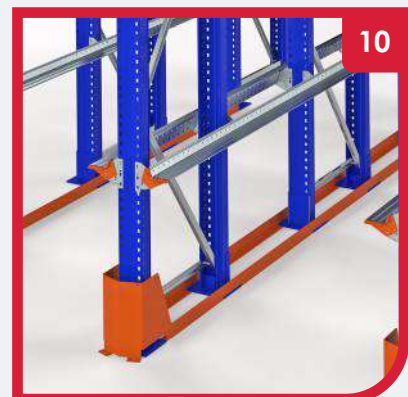
BASE

Standard finishing  
Blue 5019



SHIM PLATES

Standard finishing  
Pregalvanized

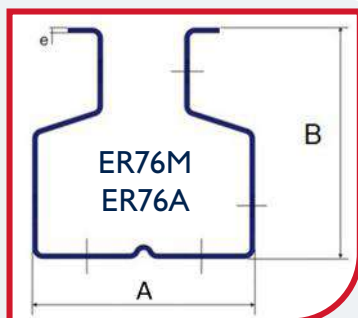


FLOOR GUIDE RAILS

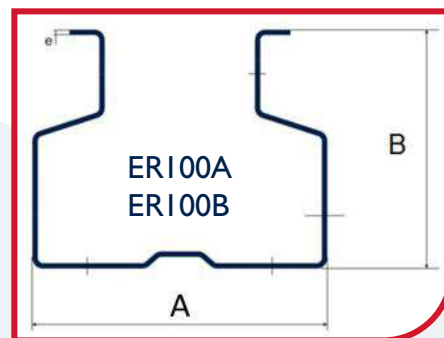
Standard finishing  
Orange 2004



## UPRIGHTS

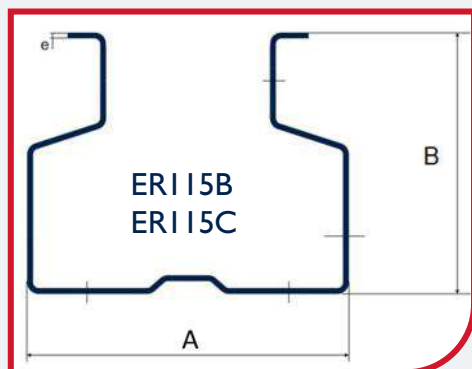


Description	Dimensions (mm) (A x B x e)
ER76M15	76,2 x 63,2 x 1,50
ER76M18	76,2 x 63,2 x 1,80
ER76M23	76,2 x 63,2 x 2,30
ER76A15	76,2 x 79 x 1,50
ER76A18	76,2 x 79 x 1,80
ER76A20	76,2 x 79 x 2,00
ER76A23	76,2 x 79 x 2,30
ER76A25	76,2 x 79 x 2,50

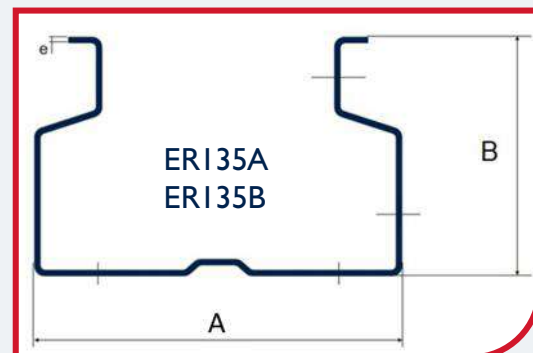


Description	Dimensions (mm) (A x B x e)
ER100A18	100 x 81,3 x 1,80
ER100A20	100 x 81,3 x 2,00
ER100A23	100 x 81,3 x 2,30
ER100A25	100 x 81,3 x 2,50

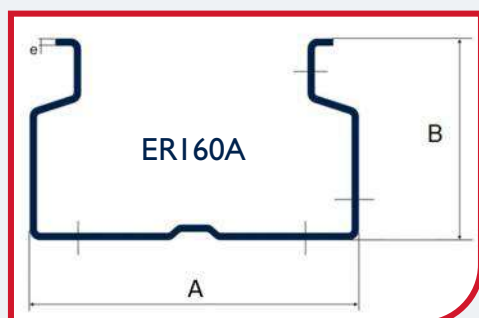
Description	Dimensions (mm) (A x B x e)
ER100B18	100 x 105,3 x 1,80
ER100B20	100 x 105,3 x 2,00
ER100B23	100 x 105,3 x 2,30
ER100B25	100 x 105,3 x 2,50
ER100B30	100 x 105,3 x 3,00



Description	Dimensions (mm) (A x B x e)
ER115B18	115 x 97,8 x 1,80
ER115B20	115 x 97,8 x 2,00
ER115B23	115 x 97,8 x 2,30
ER115B25	115 x 97,8 x 2,50
ER115B30	115 x 97,8 x 3,00
ER115C20	115 x 126,3 x 2,00
ER115C25	115 x 126,3 x 2,50
ER115C30	115 x 126,3 x 3,00
ER115C35	115 x 126,3 x 3,50



Description	Dimensions (mm) (A x B x e)
ER135A20	135 x 87,8 x 2,00
ER135A25	135 x 87,8 x 2,50
ER135A30	135 x 87,8 x 3,00
ER135A35	135 x 87,8 x 3,50
ER135B20	135 x 109 x 2,00
ER135B25	135 x 109 x 2,50
ER135B30	135 x 109 x 3,00
ER135B35	135 x 109 x 3,50

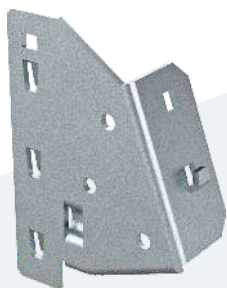


Description	Dimensions (mm) (A x B x e)
ER160A20	160 x 97,8 x 2,00
ER160A25	160 x 97,8 x 2,50
ER160A30	160 x 97,8 x 3,00
ER160A35	160 x 97,8 x 3,50



## BRACKETS

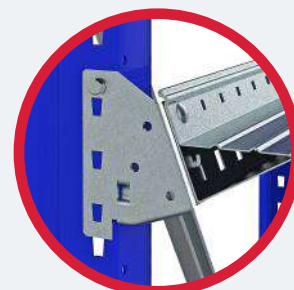
### BRACKETS FOR INSTALLATIONS WITHOUT PALLET OVERHANGING



LEFT



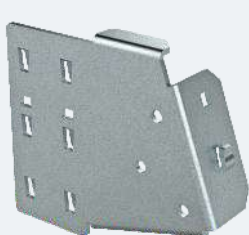
RIGHT



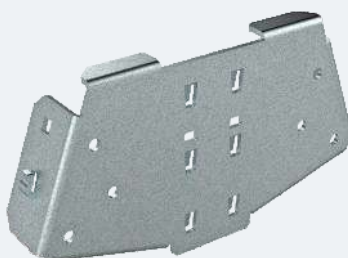
This type of brackets must be bolted to the front part of the upright

Standard finishing  
Pregalvanized

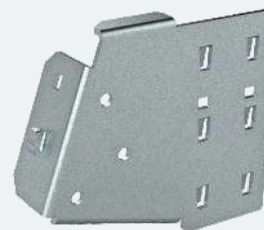
### BRACKETS FOR INSTALLATIONS WITH PALLET OVERHANGING



LEFT



CENTRAL



RIGHT

Standard finishing  
Pregalvanized



### WELDED BRACKET (FOR SPECIAL CONFIGURATIONS)



DVSI (left)



DVSC (central)



DVSD (right)

Standard finishing  
Orange 2004



## FLOOR GUIDE RAILS

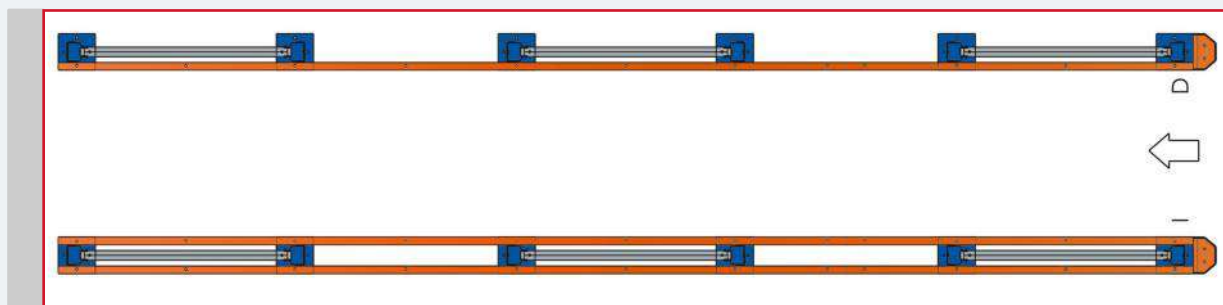


They are a forklift guidance system that allows:

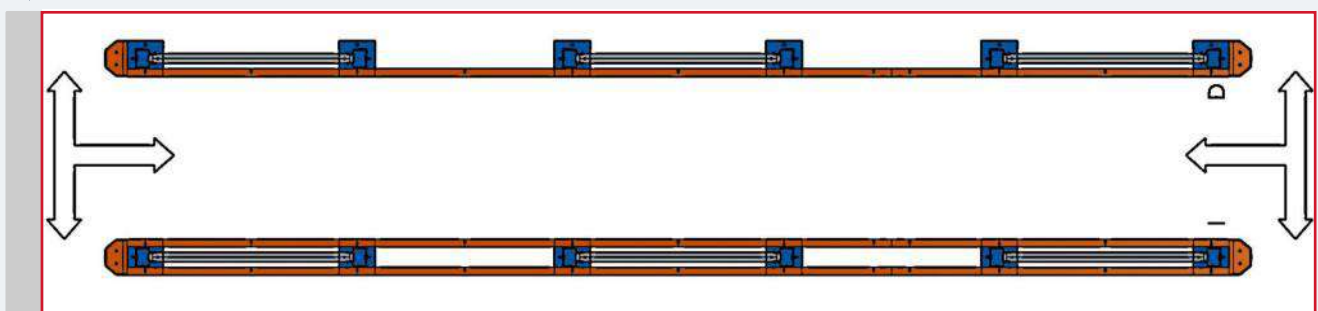
- Achieve high productivity levels.
- Reduce potential damage to shelves, products, or equipment.
- Increase safety and operator efficiency, concentrating their attention on the cargo handling.
- Work in lanes with more than six meters depth and height.

Wall

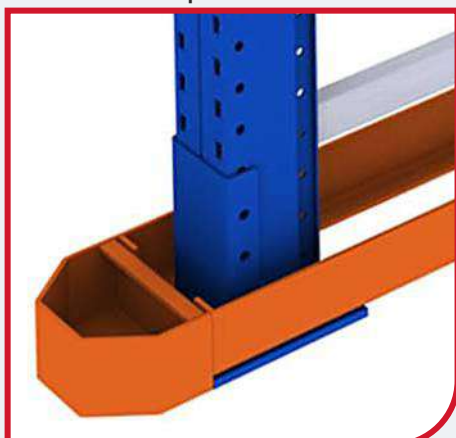
### DRIVE IN - ENTRANCE AT ONE END OF THE INSTALLATION



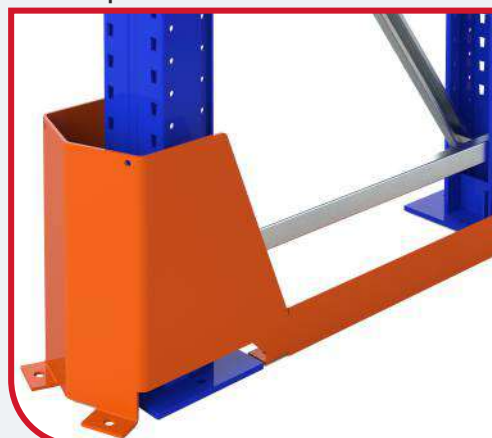
### DRIVE THROUGH - ENTRANCE AT BOTH ENDS OF THE INSTALLATION



#### Drive Head Option



#### PPN Option



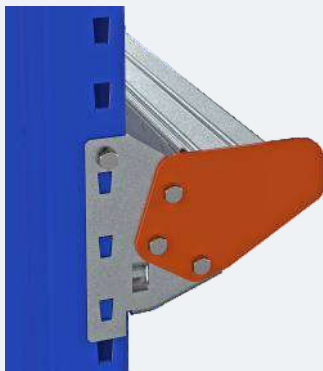


## ACCESSORIES

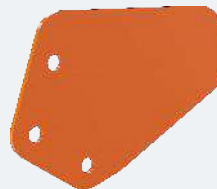
In the warehouse there is a high risk of accidental damages due to impacts on the structure, most caused by forklifts. It is important to protect the bottom of posts and frames.



UPRIGHT  
PROTECTOR



### LOAD LEVEL PALLET STOPPER



This element prevents the pallets from falling at the end of the aisle in a single entry type of drive-in. It is considered a warning element, trying as much as possible to avoid the collision of the pallets with the stopper.

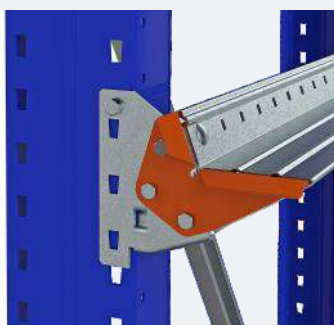


### FLOOR LEVEL PALLET STOPPER



This element works as an aisle end reference for the floor level in a single entry type of drive-in. It also serves as protection in case of vertical bracing in the aisle.

It is considered a warning element, trying as much as possible to avoid the collision of the pallets with the stopper.



### PALLET ENTRY GUIDE



This element makes easier the pallet entry and guidance on the aisle, avoiding falls or damage to the goods.

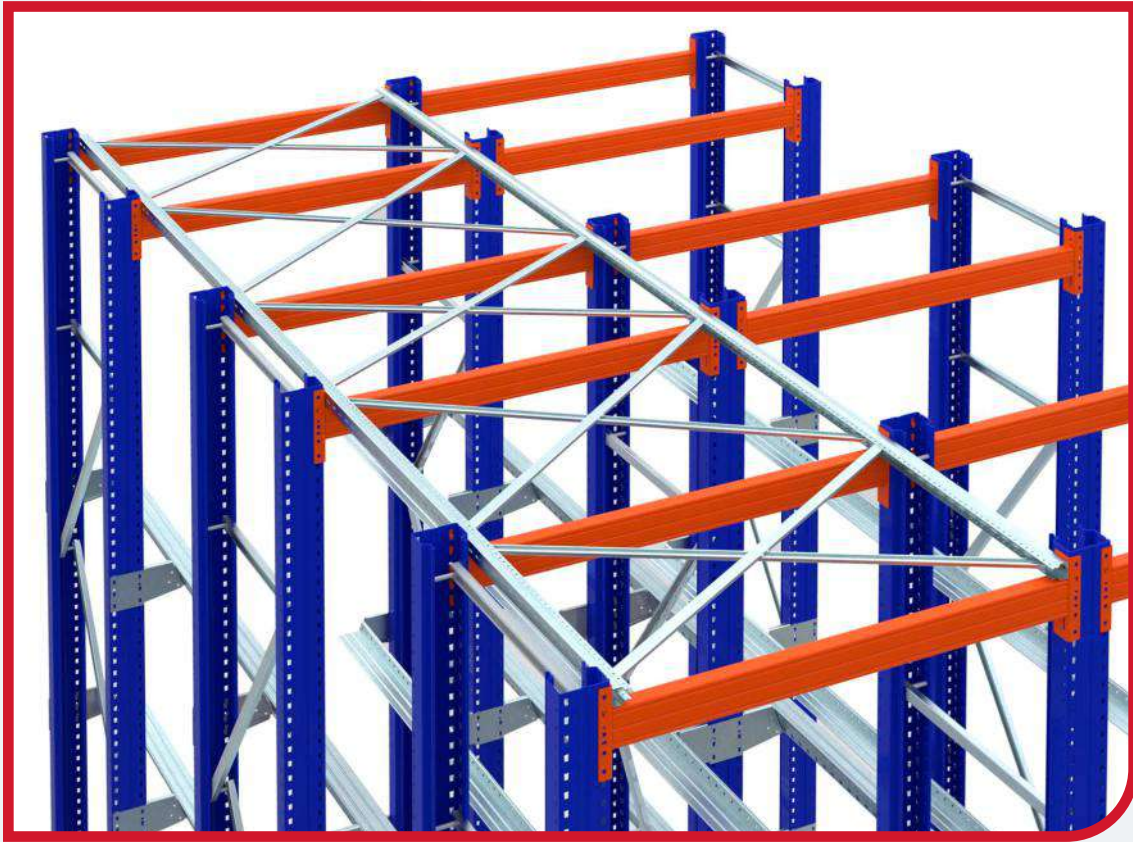


### FRAME-UPRIGHT SPACER

In some configurations it is necessary to fix an auxiliary upright together with the frames by this frame-upright spacer.

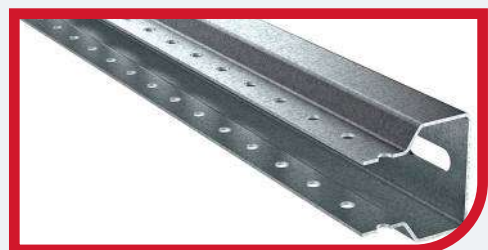
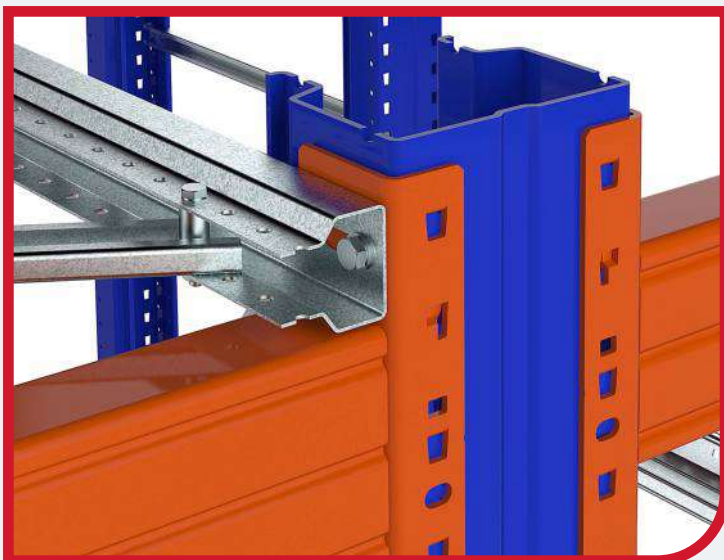


## TOP HORIZONTAL BRACING



The top horizontal bracing at the Drive-in system is located on top of the installation above the beams.

The top horizontal bracing will be placed along the lane of the braced bay with 2 bracing profiles and a cross bracing configuration with CZ profiles.



Top horizontal bracing profile



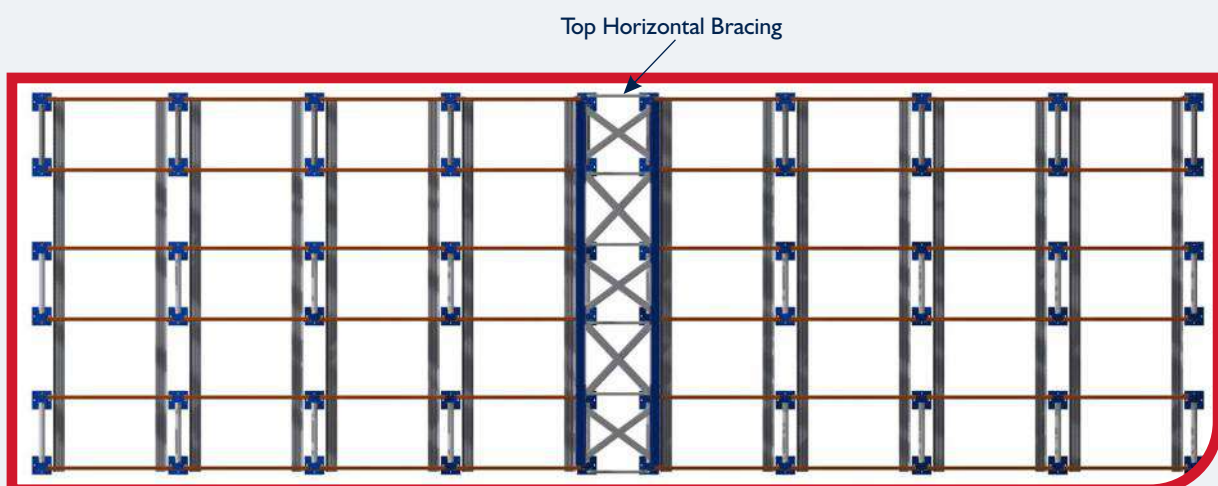
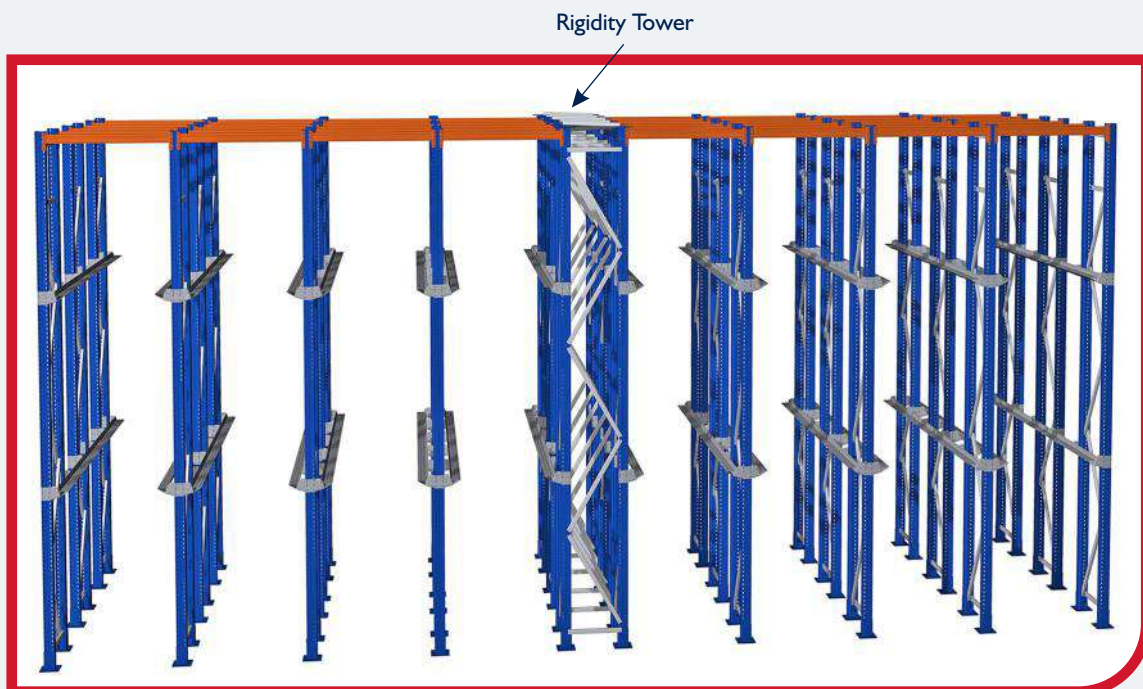
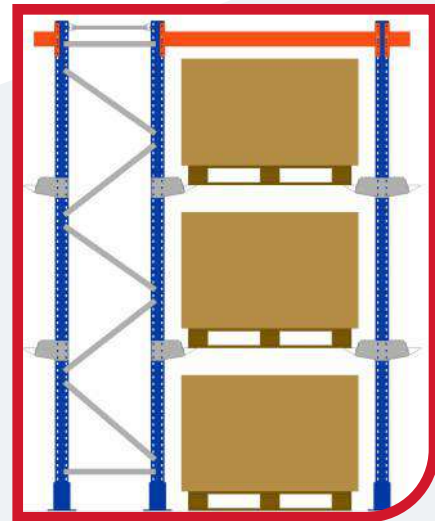
CZ profile



## RIGIDITY TOWER

It is a cross bracing layout located along an entire aisle over its entire length. Same as vertical bracing serves to increase the rigidity and stability of the installation.

Top horizontal bracing will always be placed on the upper horizontal rigidity aisle.







The **Strength** of simplicity

**WE DESIGN AND MANUFACTURE STORAGE SYSTEMS**  
FROM THE MOST BASIC OPTION TO THE MORE SOPHISTICATED ONE.



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Management  
System  
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## **ESNOVA SOFTWARE**

### **WHAREHOUSE MANAGEMENT SOFTWARE**

#### **¿HOW TO ORGANIZE A WHAREHOUSE?**

This software specially designed to the warehouse management is the perfect IT tool to have a logistic control of your storage space.



**MULTI-DEVICE SOFTWARE**

**ESNOVA RACKS, S.A.**

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