



DESIGNER AND MANUFACTURER
OF YOUR WORK ENVIRONMENT

PROPAL 3

STORE YOUR HEAVY LOADS AND PALLETS

FLEXIBLE, RELIABLE, EFFICIENT, PRACTICAL



PROPAL 3

High-performance storage

General features

- **Sturdy** cold-rolled equipment
- Capacity of up to **18 tons per frame**
- Load: **up to 6,000 kg per level**
- Loading height: **up to 10 metres**
- Adjustment pitch **50 mm**
- Available in **10 depths** (600 to 1500 mm) and **28 heights** (1800 mm to 10,000 mm)
- Length of beams: **300 to 4900 mm**

Standards

Our units are designed and verified in accordance with applicable European standards (**EN 15512** and **EN 15620**)* and ED 771 recommendations from INRS/CRAM.

Guaranteed French origin, certified by Bureau Veritas

To receive this certification, 2 criteria must be met:

- The essential features of Propal 3 are produced in France.
- At least 50% of its unit cost price is produced in France.



A COMBINATION OF THE MOST ADVANCED TECHNIQUES

PROPAL 3, which is entirely designed by our in-house design office and manufactured in our northern France factory, is made with the highest-quality HEL (High Elastic Limit) steel, with a constant concern for quality and compliance with applicable standards.

Thanks to its technical capabilities, it is one of the sturdiest products on the European market and meets the strictest requirements.

BASIC COMPONENTS

- Frames
- Beams

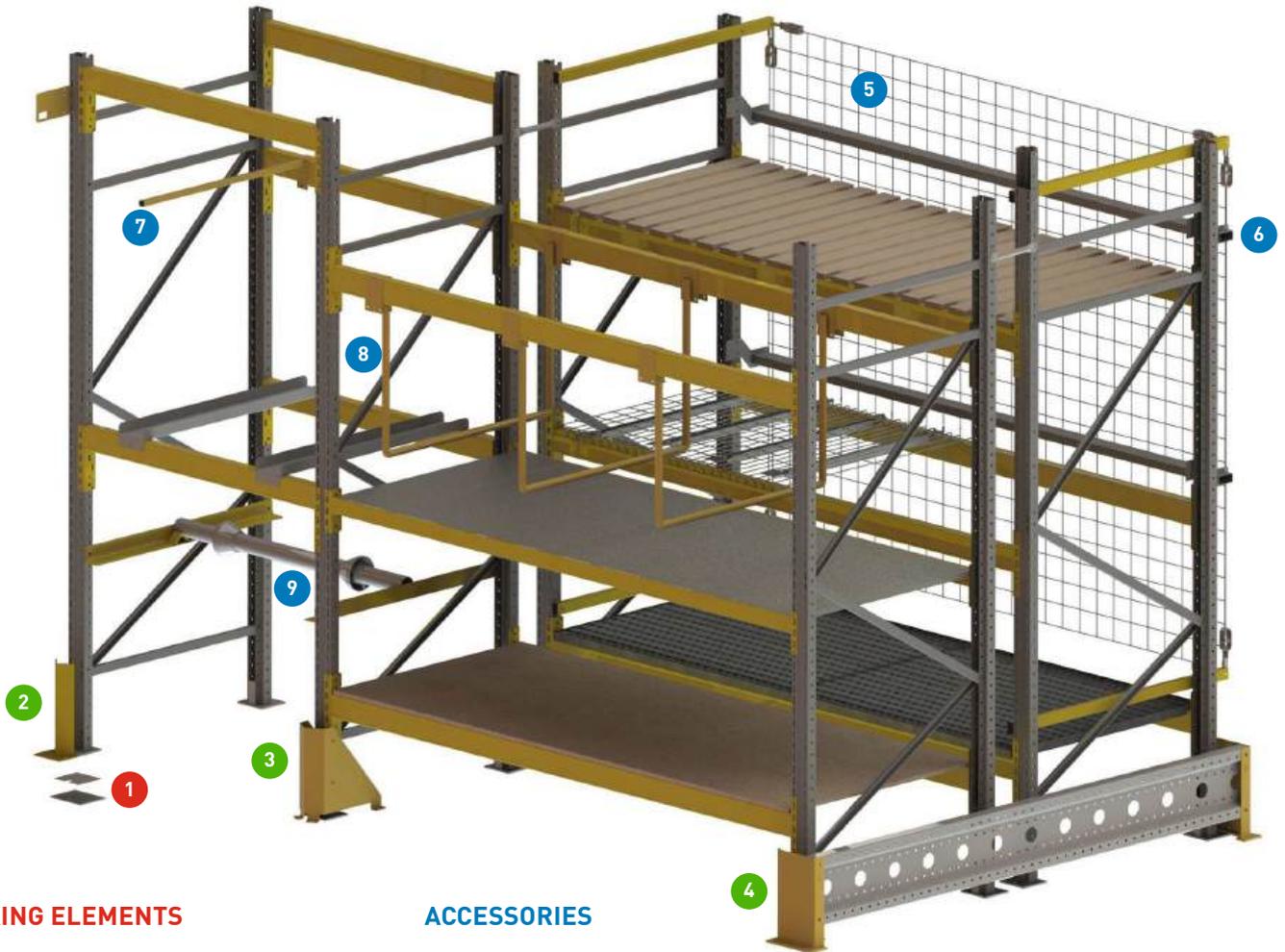
BENEFITS

- ✚ **HIGH TECHNICAL CAPABILITIES**
- ✚ **INDOOR AND OUTDOOR USES**
- ✚ **QUICK INSTALLATION**

*EN 15512: Adjustable pallet racking systems - Principles for structural design.

EN 15620: Adjustable pallet racking systems - Tolerances, deformations and clearances.

COMPONENTS



FIXING ELEMENTS

- 1** Frame feet for ground anchoring
- Levelling plate

INSTALLATION PROTECTION

- 2** Upright corner protection
- 3** Upright shoe-type protection
- 4** Single or double lateral protection
Available in wood and metal tubes

ACCESSORIES

- 5** Anti collapse net or mesh
- 6** Pallet stop
- 7** Vertical divider
- 8** Horizontal divider
- 9** Reel holder

BENEFITS

SAFETY

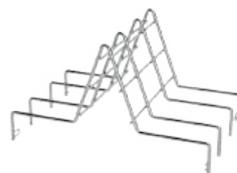
Pallet stops and fall protection devices meet INRS recommendations (technical prescriptions described in the INRS ED771 brochure for metal racks)

OTHER ACCESSORIES



Safety bars

Used to place different pallet dimensions on the same level or to reinforce coverings.

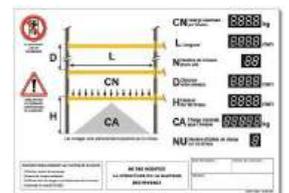


Platform stop

Used to position the pallet more easily in its slot.



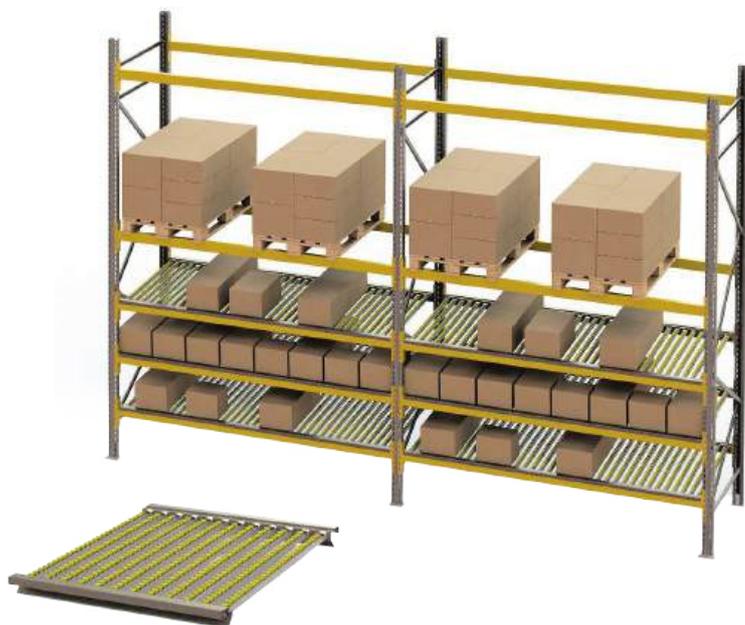
Foam protection



Loading instructions

DYNAMIC COVERING

This covering is simply placed on the beams to convert a static level for pallets into a dynamic solution for boxes. Boxes can be picked and loaded from the front.



PALLET DRAWER

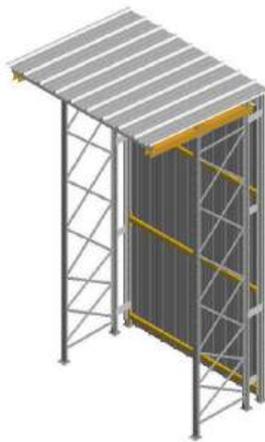
The pallet drawer makes it easier to retrieve products thanks to access on three sides. It reduces posture constraints during ground-level order preparation.



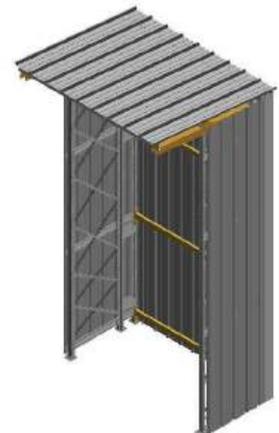
CANOPY AND CLADDING: PRODUCT PROTECTION



RACK WITH CANOPY

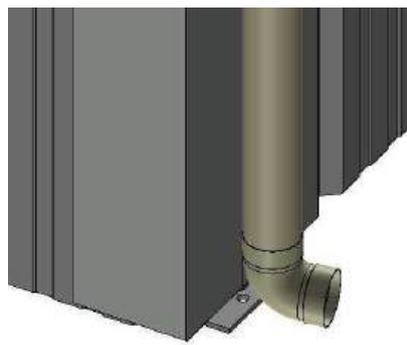
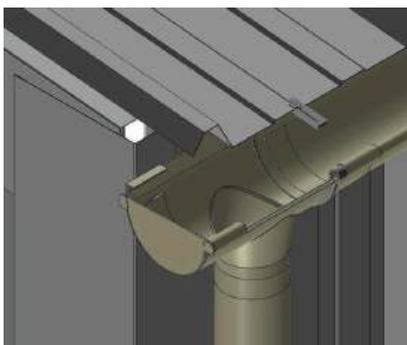


**RACK WITH CANOPY
AND REAR
CLADDING**



**RACK WITH CANOPY AND REAR
AND SIDE CLADDING**

RAINWATER EVACUATION

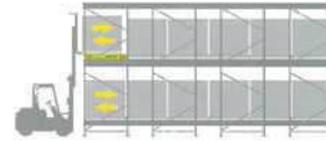
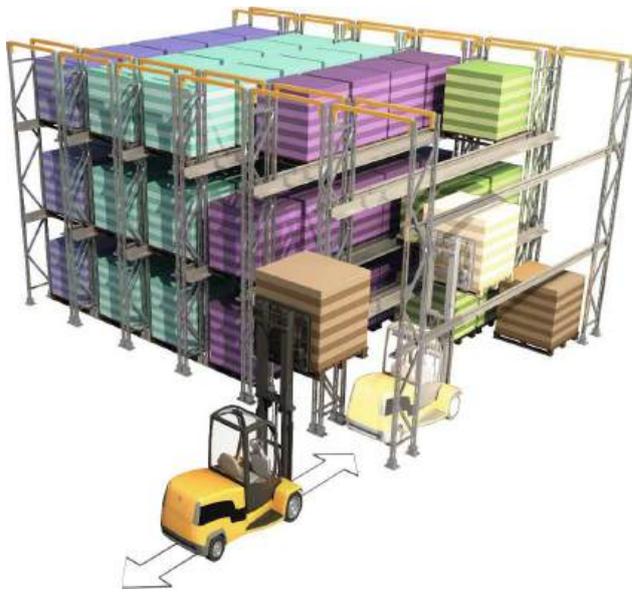


ROOF FINISHING ANGLE

ACCUMULATION RACKING

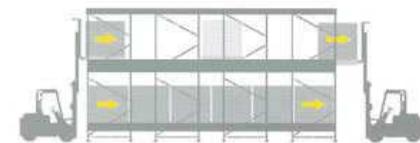
This system is used to store pallets in very large quantities with a limited number of SKUs.
This saves space by removing aisles.
The forklift enters the aisles to load or unload pallets, regardless of the level to reach.

2 TYPES OF APPLICATIONS



DRIVE IN - LIFO

Goods go in and out on the same side.



DRIVE THROUGH - FIFO

Handling is carried out on either side of the storage area on a first in/first out basis.

2 TYPES OF BRACING



BRACING TOWER

Stabilises and reinforces the facility without restricting aisle depth. Usually, 1 tower is installed for 11 storage aisles.

BRACING BY CORNER BRACKETS

Stabilises and reinforces the facility without losing any storage surface on the ground. The corner brackets are placed on the frame tops and at the rear of the racks.



3 RAIL BRACKETS FOR OVERHANGING PALLETS

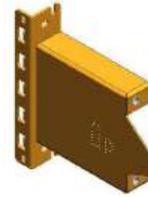
These brackets are easy to mount and are secured on the uprights using claws and bolts. They are used to keep the load away from the uprights for overhanging loads and/or to comply with handling standards prescribed by standard FEM 10.2.07.



BRACKET FOR AN OVERHANGING PALLET UP TO 50 MM



BRACKET FOR AN OVERHANGING PALLET UP TO 100 MM



BRACKET FOR AN OVERHANGING PALLET UP TO 200 MM

1 HIGH-PERFORMANCE RAILING

- Thickness 2 mm, galvanised finish, maximum reach (distance between brackets) 2000 mm max.
- Is directly bolted to the frame or bracket.

DISTANCE BETWEEN BRACKETS (mm)											Capacity of a pair of railings (kg/mm)
1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	
3.27	2.70	2.26	1.93	1.63	1.44	1.27	1.12	0.99	0.89	0.80	



PUSHBACK CARRIER

Ideal for **LIFO** storage (Last In / First Out).

Pushback accumulation storage system.

With this system, the operator is not required to go inside the unit.

It **reduces risks** of falling products and collision between the forklift and the unit (mandatory tilting mast).

You can go up to a **depth of 9 pallets** and **loads up to 1200 kg** (per pallet).



BENEFITS

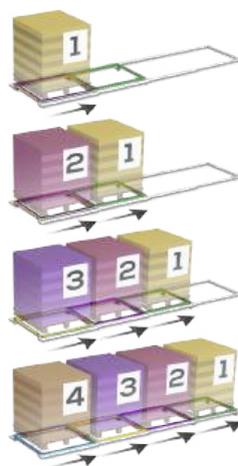
✚ **SAVES SPACE**

✚ **SAVES TIME**

The forklift operator does not need to manoeuvre in the unit.

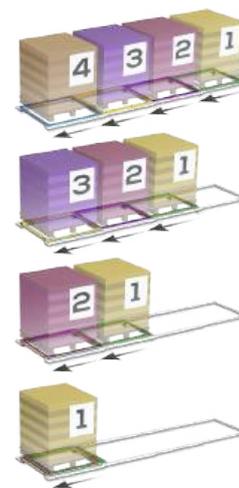
✚ **SAFETY**

Less damage to the unit.



LOADING

Pallets are dropped off at the entrance of the aisle on a mobile frame. They move through a pushback system.



UNLOADING

The first pallet is removed at the entrance of the aisle. The following pallets go down by gravity.

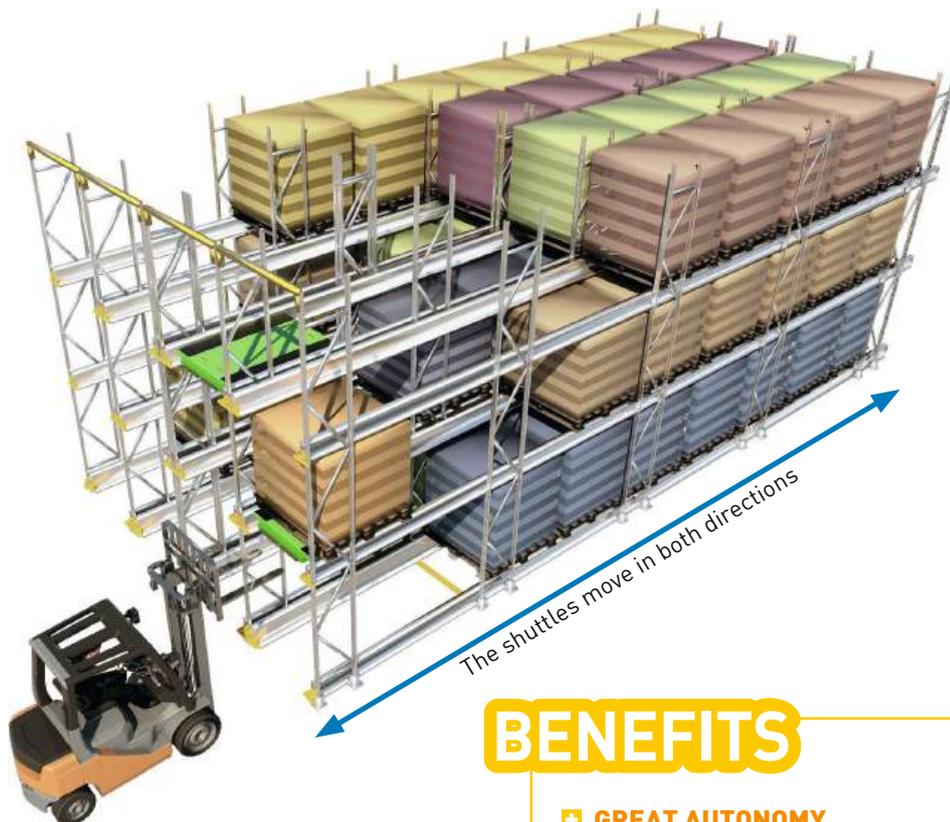


AUTOMATED SHUTTLE

Storage system using a shuttle, perfect if you have to manage a **large quantity of pallets** per SKU. It allows for **very deep aisles**, for **maximum stock densification**.

The motorised shuttle, left at the entrance of the aisle, moves along the rails to load and unload the pallet inside warehouses or production units. This means the forklift operator does not need to go into the storage aisles and **pallet loading** and **unloading are optimised**.

The automated PROVOST shuttle, which is compatible with all our pallet rack dimensions and adaptable to your own constraints (rack width, etc.), is either remotely **controlled** or **fully automated**.

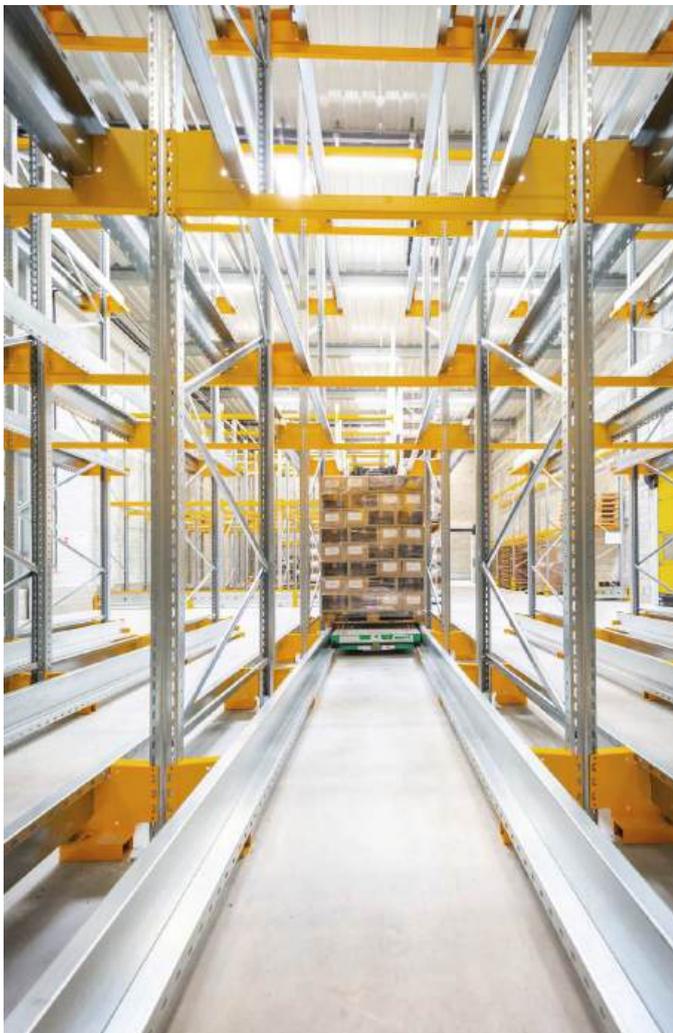


AVAILABLE OPTIONS

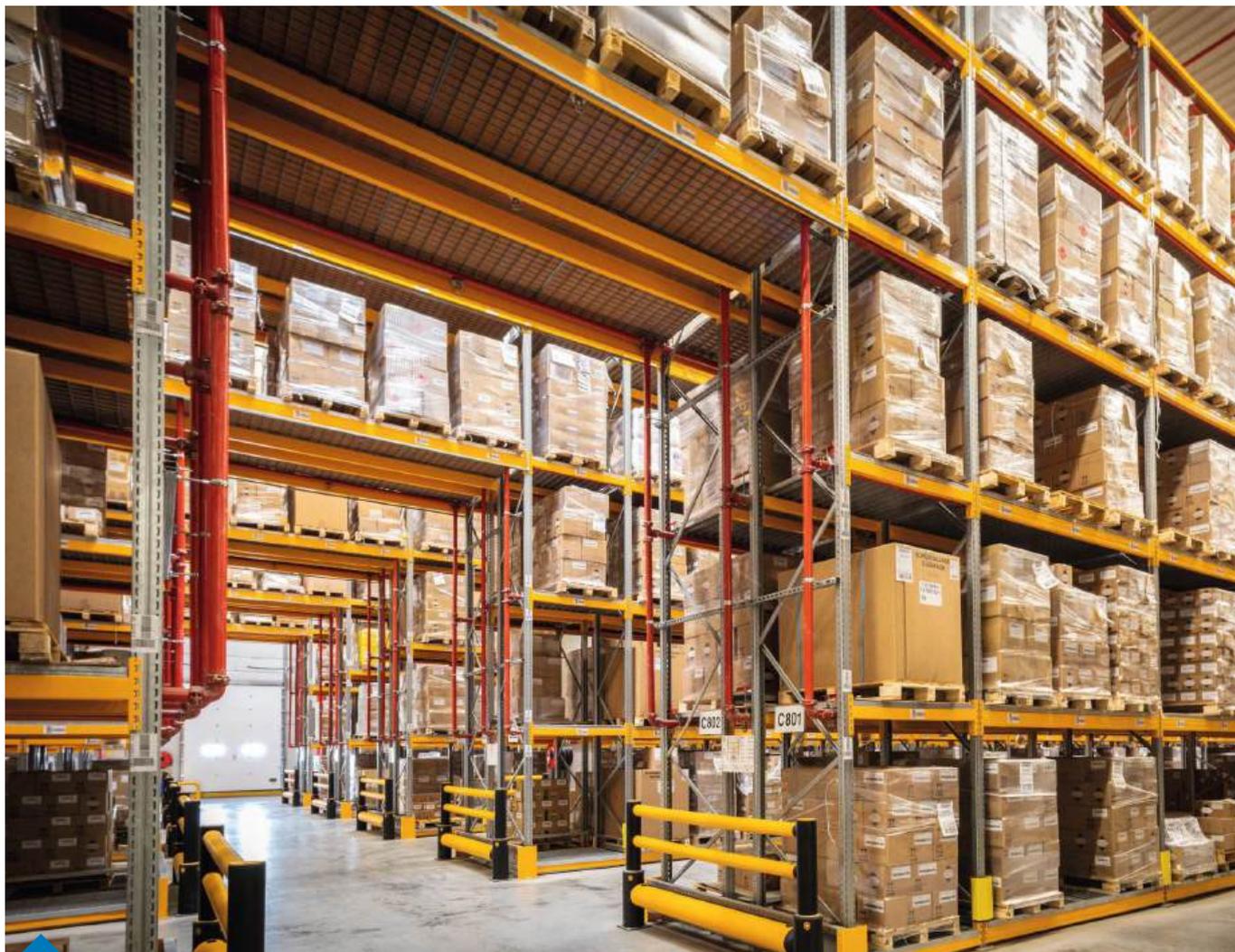
- **Compactor mode:** the PROVOST shuttle automatically places the pallets in the empty spots in order to occupy as few aisles as possible.
- **Inventory mode:** the shuttle counts the stored pallets and sends the information to the remote control.
- **Wi-Fi**

BENEFITS

- ✚ **GREAT AUTONOMY**
Up to 10 hours of autonomy with continuous use!
- ✚ **RECHARGEABLE IN 5 HRS**
Lithium-ion battery.
- ✚ **FAST**
Moves fast (up to 70 m/min).
- ✚ **SAFE**
Pallets are handled using optical sensors to prevent any shocks. The shuttle includes rubber bumpers to increase safety and to protect the handled products.
- ✚ **SILENT**
- ✚ **RELIABLE**
100 % European manufacturing.
- ✚ **CAN BE USED IN EXTREME CONDITIONS**
-30°C to +45°C (-22°F to 113°F).
- ✚ **FLEXIBLE**
Handles pallets of different sizes inside the same aisle. Adapts to existing facilities.



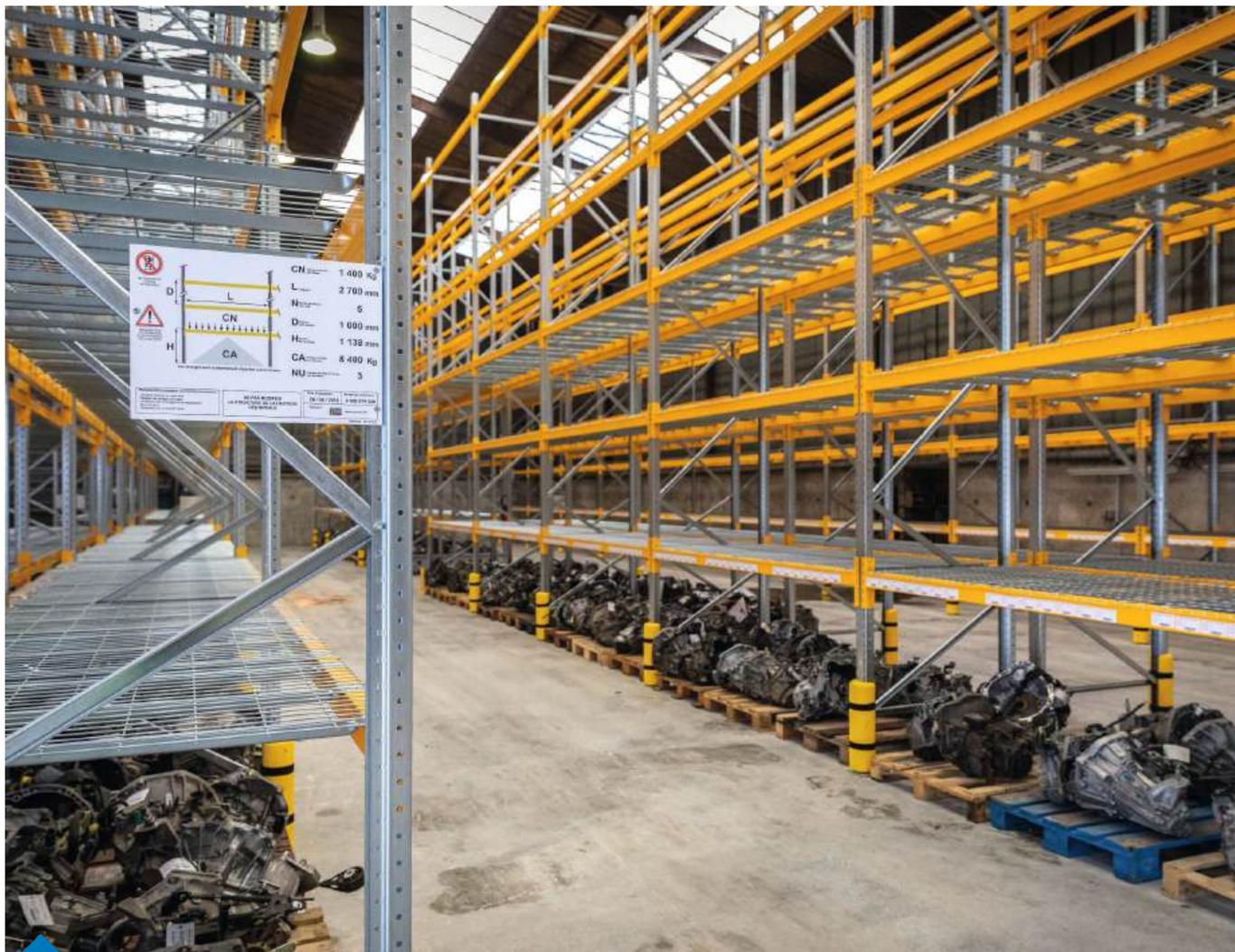
APPLICATIONS



Propal 3 rack application with a sprinkling system.



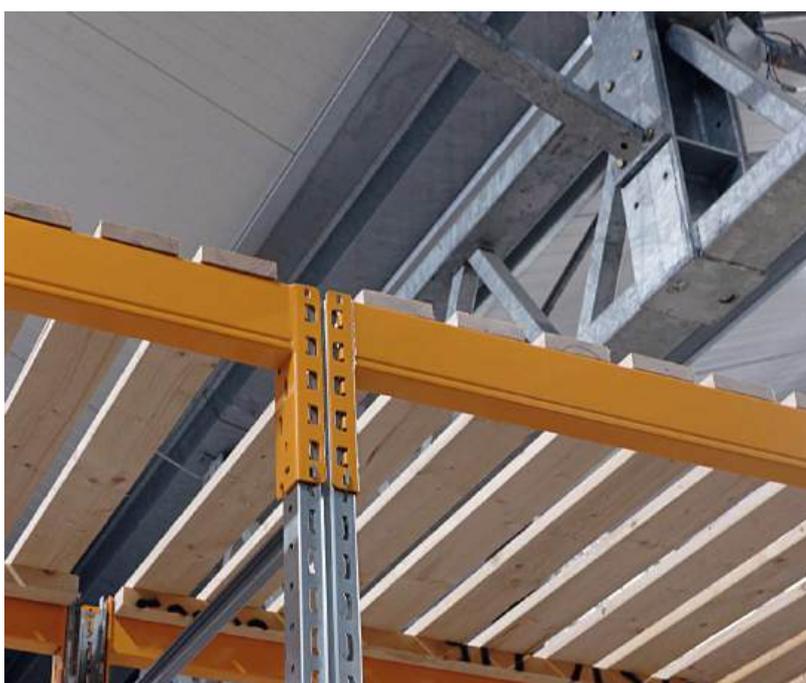
APPLICATIONS



The loading instructions specify how to use the facility properly: load capacity, level heights...

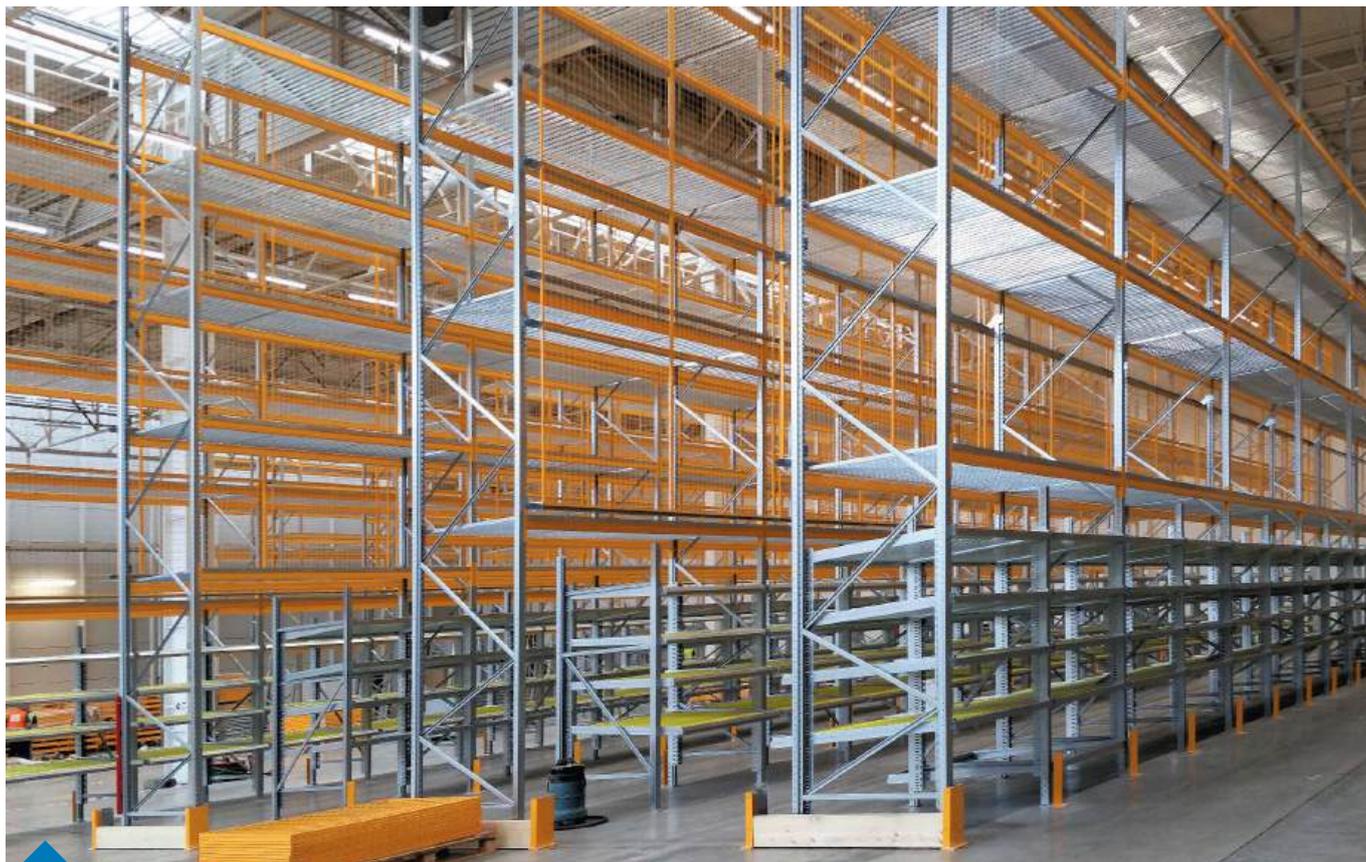


Pedestrian walkway secured with a safety net and pallet stops.

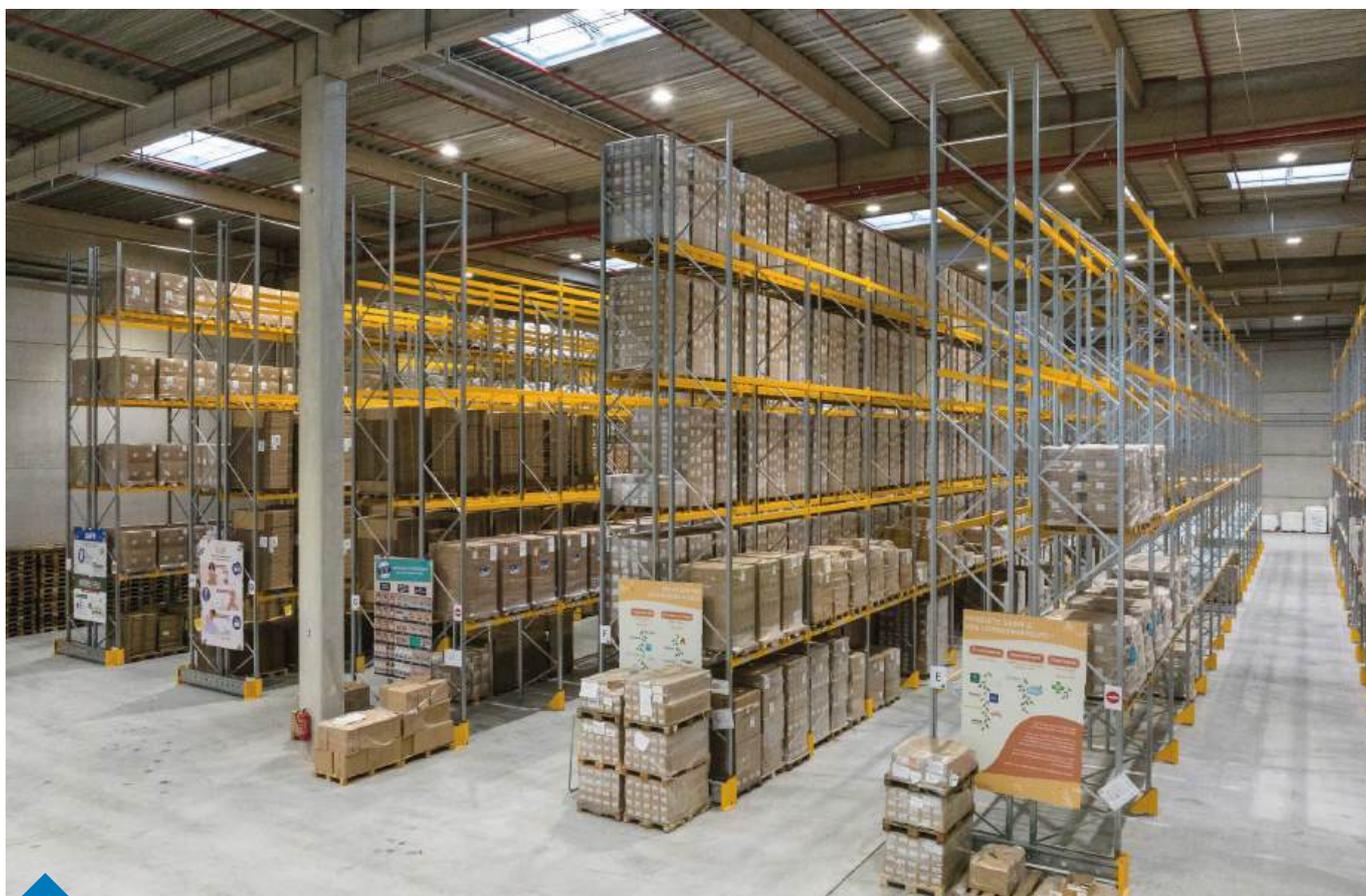


Flush crosspieces secured using a pin, slatted wood decking.

APPLICATIONS



Propal 3 unit with dynamic coverings on the lower levels for picking.



3,000 sqm of Propal 3 racks, 4 levels + ground, highest loading level at 8770 mm.

APPLICATIONS



Metal sheet separators to make several picking locations.



Arms for the storage of cable drums.



Vertical separators.



Horizontal separators.



Storage of reels and chemicals with retention trays on pallet racks.

OUTDOOR APPLICATIONS



Storage of wood or drywall panels.



Unit secured with cladding and wire mesh doors.



Storage of wooden battens and rolls in the lumber yard.

OUTDOOR APPLICATIONS



Double-sided unit for storage of road signs.



Propal 3 rack with canopy and accessories.



Materials yard: Propal 3 with canopy and rear and side cladding to protect goods.



Self-supporting building, platform with walkways on a Propal 3 rack base.

OUR LINES OF BUSINESS



STORAGE

Light, medium and heavy loads



SPACE MANAGEMENT

Platforms, mezzanines and partitions



ORGANISATION

Storage bins and containers



HANDLING

Sack trucks, trolleys, pallets



EQUIPMENT

Furnishings and signage



SAFETY

Hazardous products storage and waste sorting

