



# SHELVING RACKS





# SHELVING RACKS



## SHELVING RACKS

Shelving racks can be used generally for storing various goods and materials (small items, boxes, plastic containers, file folders, etc.). The **design of these shelving racks** allows them to be used as effective storage place, increasing the capacity of storage space in warehouses and improving the clear arrangement of the stored goods and materials. The racks are designed primarily for installation in interior areas with **quality concrete flooring**.

The PROMAN shelving system includes a free offer with a design based on spatial and handling requirements, shipping and assembly, checking inspection options, and warranty and after warranty service. It includes State Engineering Testing certificates and meets the demanding conditions of European standards.



# Shelving rack Design

These shelving racks are designed as separate construction. A rack is a prefabricated structure made of special steel rolled profiles, beams and shelves, reinforced with diagonal bars. The basic design comprises one field of shelving cells. The shelving field is comprised of four uprights of the required height, and

to its depth it is reinforced with diagonals/connections. The shelving field must always have at least two shelves – i.e., two storage levels to ensure stability of the entire unit. The shelving racks can then be outfitted with all accessories provided.

Based on the intended purpose of the units, a wide range of accessories can be provided:

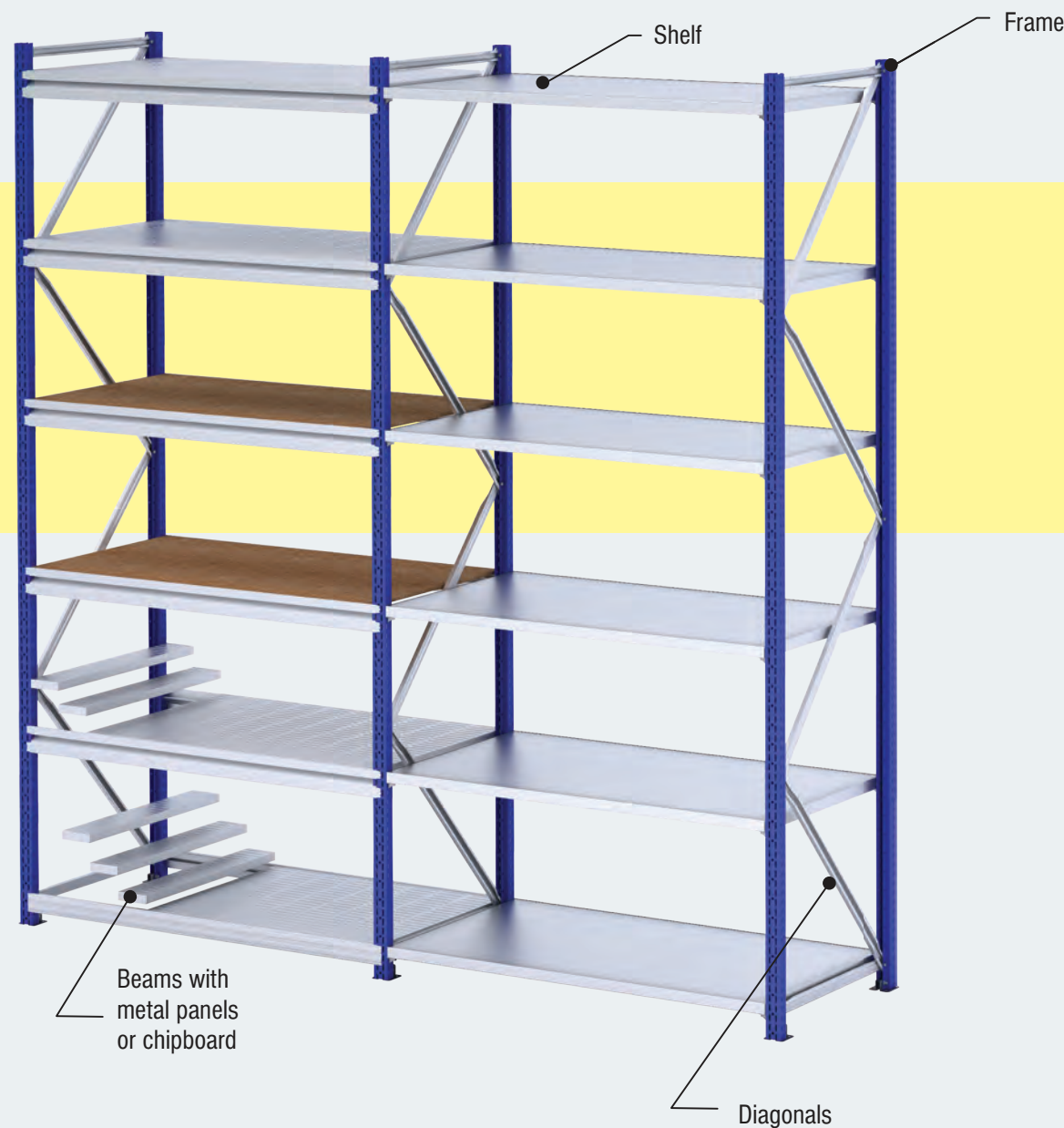
- Grate shelves with retaining basins for storing chemicals or mineral oils
- Dividers for shelves separation
- Special rods for storing clothing on hangers
- Drawer shelves for storing small items
- Rods for hanging ladders
- Side and rear walls (boards from laminate or metal sheets)

The shelving racks itself contains these main parts:

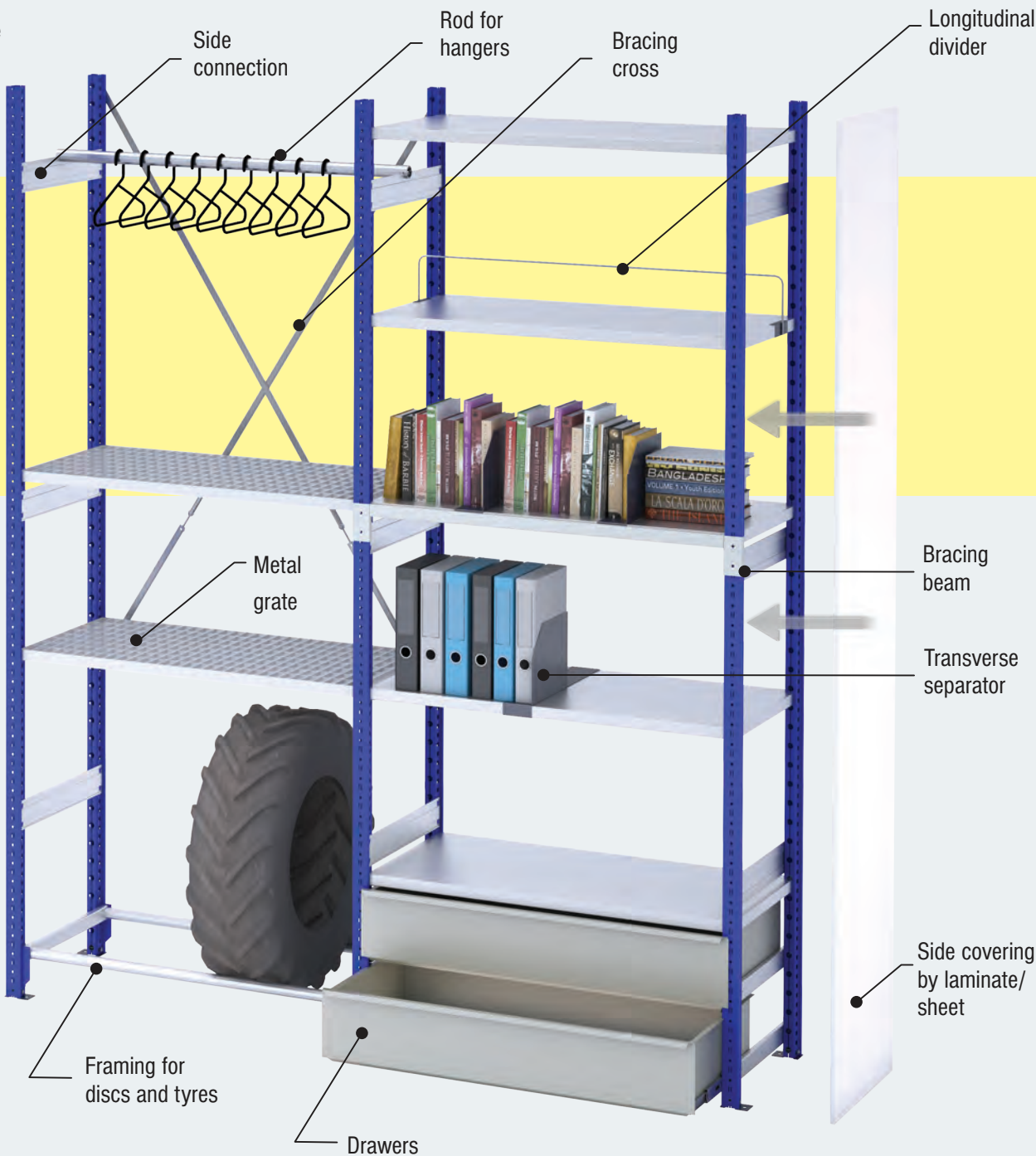
- Shelving rack frames
- Rack beams
- Shelves
- Panel of cells for multi-level racks
- Accessories

4

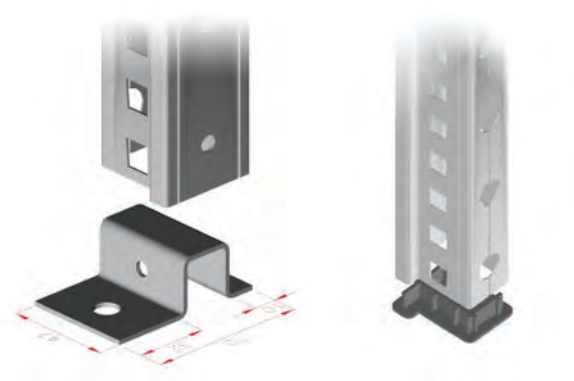
## SYSTEM DESCRIPTION



5







**Frames**

The uprights have perforated holes which are used to secure the shelf clips and for assembling the diagonals/connections. The column perforations allow the height of the shelves to be adjusted in 25 mm increments. The uprights are delivered in standard lengths from 1500 mm to 9000 mm, in 500 mm increments.

**Shelves**

They are made of formed sheet steel, hemmed to avoid sharp edges. Standard shelf height is 30 mm. The shelves are made in standard lengths of 600, 800, 1000, 1200, 1300 and 1500 mm and widths of 300, 400, 500, 600 and 800 mm. The shelves hang on the columns using specially shaped clips.



**Rack Beams**

These are made of bent sheet steel. Both ends are furnished with hangers that fit the perforations in the frame. The size of the sections and the shape of the beams vary according to the required load and length. The shape of the beams enables the addition of cells with shelves made from chipboard or metal panels.



**Gravity Racks**

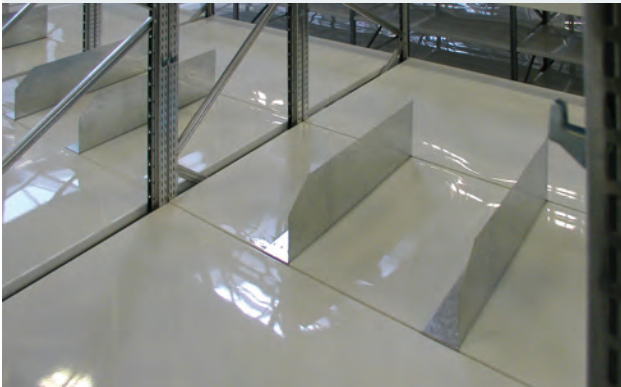
These are used for storing packaged goods for plastic containers and boxes of various sizes. Roller planes can be separated with dividing bars into separate channels, and both roller slats and dividing bars can be adjusted. The rollers are made of durable plastic and equipped with metal shafts. Entry and exit points can be equipped also by storage plates.

**TECHNICAL SPECIFICATIONS**

**Standard Dimensions and Load capacity**

Load capacity (kg)					
Depth rack (mm)	300	400	500	600	800
Width rack (mm)					
600	250	230	220	190	120
800	220	200	190	160	100
1000	180	160	150	130	90
1200	140	120	110	100	80
1300	130	110	100	90	40
1500	90	70	60	50	

Reinforcing individual shelves using available stiffeners can increase their load capacity. We will gladly explain the capacities of reinforced shelves upon request.



**Partitions and Dividers**

These are used primarily for dividing different types of materials and goods and for creating separate sections on longer shelves.



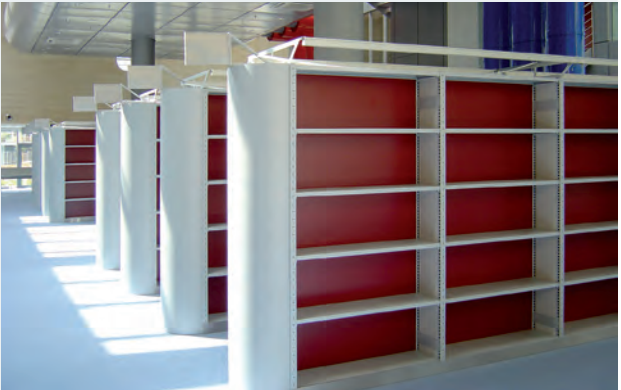
**Surface**

These are generally either galvanised or painted. Basic paint colours are RAL 5010 Blue and RAL 7035 grey. They can also be supplied in other RAL colours.



**Construction for Disks and Tyres**

These are for storing wheel disks and tyres. The frames are fixed.



**Nettings and Coverings**

These attach to the rack columns using special connectors.





## MULTI-LEVEL SHELVING MEZZANINE DESIGN WITH OPERATION FLOOR PLATFORM



A multi-level shelf rack design allows effective increases in storage space capacity, while at the same time minimising costs. A system of floor platform can be created from special full or perforated metal panels, or from special fiber boards. A cell platform for multi-level rack designs are a separate assembly. It can be made from floor panels, chipboard, metal floor gratings or fabric. It is used for storing small materials or boxes. Board panels are delivered in widths of 100 mm or 200 mm

depending on the required load. Chipboard panels are available in different thicknesses depending on the required load. The size of the load-bearing area of the floor grating panels depends on the desired load capacity cell. Floor panels and metal gratings are supplied in a galvanised finish. Any transfer point of a handling unit on the platform is dealt with by either hinged or sliding handrails and gates.



## MOBILE SHELVING AND ARCHIVING SYSTEMS

Placing shelving racks on a mobile undercarriages will give you a highly efficient storage and archiving system that will significantly increase space utilisation and reduced space requirements. This is a suitable and reliable solution for archives, libraries, offices and other organisations. Shelves can be supplemented with full side walls, ceiling parts, dividing walls, special rods for clothing, sliding shelves, brackets, labels etc. The storage shelves are adjustable by 25 mm. Load capacity of the shelves is from 60 to 250 kg. Surface finish is galvanised or powder coated.

- ❑ The drive system itself is made up of a chain drive controlled by wheel.
- ❑ Rails are anchored to the existing floor or concreted into new flooring.
- ❑ A sliding door and undercarriage lock can be mounted onto the end rack of the entire system to protect the material against unauthorised access.



**Storage Drawers**



**Systems for storing suspended items and file folders – extendable / non-extendable**



**Drawing Cabinets**



**Front folding tables**



**Wheel**



**Rail**



Solution for you. **PROMAN.**

**PROMAN, s.r.o.**  
Za Pivovarem 830  
537 01 Chrudim  
Czech Republic

tel.: +420 469 622 279  
e-mail: [proman@proman.cz](mailto:proman@proman.cz)  
[www.proman.cz](http://www.proman.cz)



[facebook.com/proman.regaly](https://facebook.com/proman.regaly)



ISO 9001  
ISO 14001  
OHSAS 18001