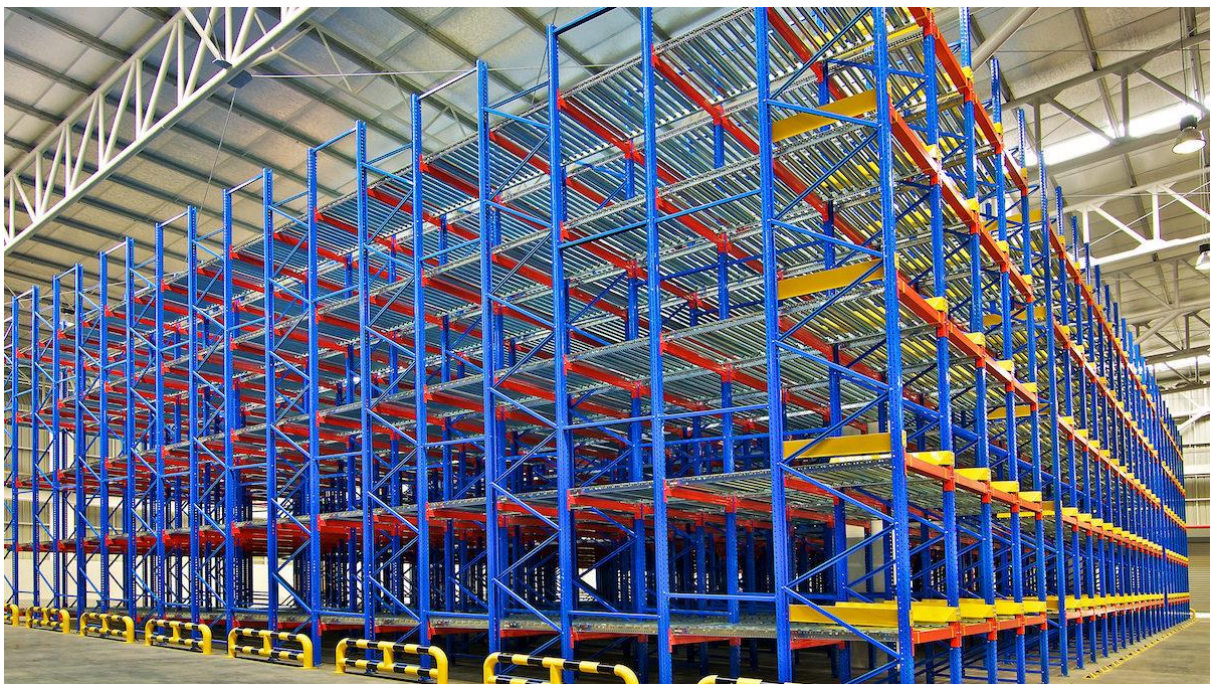


HEAVY DUTY RACKING SYSTEMS



Selective Pallet Racking



Selective Pallet Racking is the simplest & economical racking system which allows 100% accessibility to each pallet. This racking is suitable for large variety of SKU's irrespective of quantity.

Benefits

- Scalable – Vertically and Horizontally
- Adaptable to varying pallet / load heights
- Wide range of beam & uprights offer the most optimal solution for any pallet size/load
- Suitable to all applications such as RM stores, FG stores, Distribution Centre etc
- Compatible to most of the Material Handling Equipments (MHE) like Forklift, Stacker, Reach Truck
- Variety of Racking Accessories are available to enhance safety during the pallet handling operation of MHEs
- Suitable to offer fast throughput
-

Accessories

- Pallet Supports
- Entry Guide Pallet Support
- Fork Entry Bars
- Pallet Stopper
- Upright and Row Guards

Double Deep Pallet Racking



Double Deep Pallet Racking is also simple & economical racking system which allows 50% selectivity. This racking is also suitable for medium or less variety of SKU's irrespective of quantity.

BENEFITS

- Scalable – Vertically and Horizontally
- Adaptable to varying pallet / load heights
- Need special Material Handling Equipments with extended reach telescopic / pantograph
- Wide range of beam & uprights offer the most optimal solution for any pallet size/load
- Suitable where SKU variety is not high and ideally 2 pallets of same SKUs are to be kept one behind the other

Very Narrow Aisle Pallet Racking



VNA stands for “Very Narrow Aisle”. There are Material Handling Equipments which needs very narrow aisle, i.e. less than 2 meters. Hence more pallet positions are possible compared to other MHEs. VNAs can reach up to 12 metres high.

VNA Racking is nothing but Selective Pallet Racking but compatible to VNA Equipment. This VNA equipment needs special guides. These guides may be mechanical rails or electrical wires. Mechanical guide rails are widely practiced for ease and economy. However, VNA equipments demand high level of floor accuracy.

BENEFITS

- Scalable – Vertically and Horizontally
- Adaptable to varying pallet / load heights
- Need special Material Handling Equipments and guides
- Wide range of beam & uprights offer the most optimal solution for any pallet size/load
- Suitable to all applications such as RM stores, FG stores, Distribution Centre etc.
- Offer fast throughput

Drive In Pallet Racking



A dense storage system, conceptualized for managing few varieties of SKUs produced or dispatched in batches. As evident from the name, Material Handling Equipment like reach trucks drive inside the racks to access the pallets. Each storage bay is one pallet wide.

HIGHLIGHTS

- Can be configured for LIFO/FIFO dispatch
- Suitable for industries involved in batch production
- Safety & Stability elements to support your operation
- Adaptable to varying pallet / load heights
- Wide range of accessories to enhance safety during operations

Mobile Pallet Racking



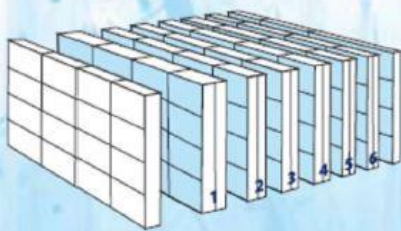
Powered mobile racking

Advantages

Demonstration studies

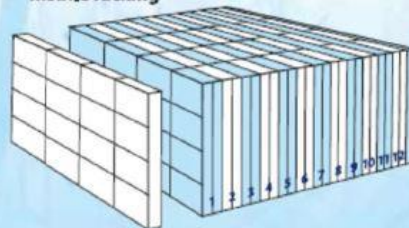
- > **Example 1: Storage capacity increase in an existing warehouse**

Existing warehouse with static pallet racking



Storage capacity of the warehouse: **672 pallets**

Existing warehouse after installation of powered mobile racking



Storage capacity of the warehouse: **1248 pallets**

Racks on wheels, designed for 100% accessibility to each pallet, while ensuring high density of storage. Remote controlled operations, to create aisles instantly at your command. Best of all worlds, at your fingertips!

HIGHLIGHTS

- Suits well for any industry with variety of SKUs
- Electrically driven and PLC controlled
- Compatible with all material handling equipments
- Six levels of safety measures
- Anti black-out feature to manage power failure
- Automatic lighting system to save power
- Upgradeable from current static racks

Cantilever Racking



Cantilever racking is specially designed to store long items or items of varying length, such as metal beams, pipes, moulding, wooden crates etc.

Depending on the height and weight of the merchandise, either light or heavy duty racking are available.

BENEFITS

- Suitable to store long items
- Handling through special MHEs or Forklifts with special attachment

Push Back Pallet Racking



Push Back Pallet Racking is another form of dense storage system to utilize maximum 'Storage Cube'. The sequence of pallet loading is done by pushing the first pallet back. Hence, except for first pallet, the loading of pallet is through "MHE Push". However, the sequence of pallet availability for unloading is by gravity. For this purpose, the pallet carts are fitted with rollers. This racking has loading and unloading on the same end. Hence by default, this system operates on LIFO (Last In First Out). This system is designed to store pallets of multiple high and multiple deep. Each level shall be dedicated to one type of SKU only.

BENEFITS

- Suitable where quantity is less while SKU variety is not so
- Suitable to act as buffer storage area
- Adaptable to varying pallet / load heights
- Range of uprights and cart / roller designs to offer the best solution for any pallet size/load
- Compatible to most of the Forklift, Stacker & Reach Truck models
- Variety of Accessories are available to enhance safe pallet movement

Pallet Flow Racking (Gravity Flow)

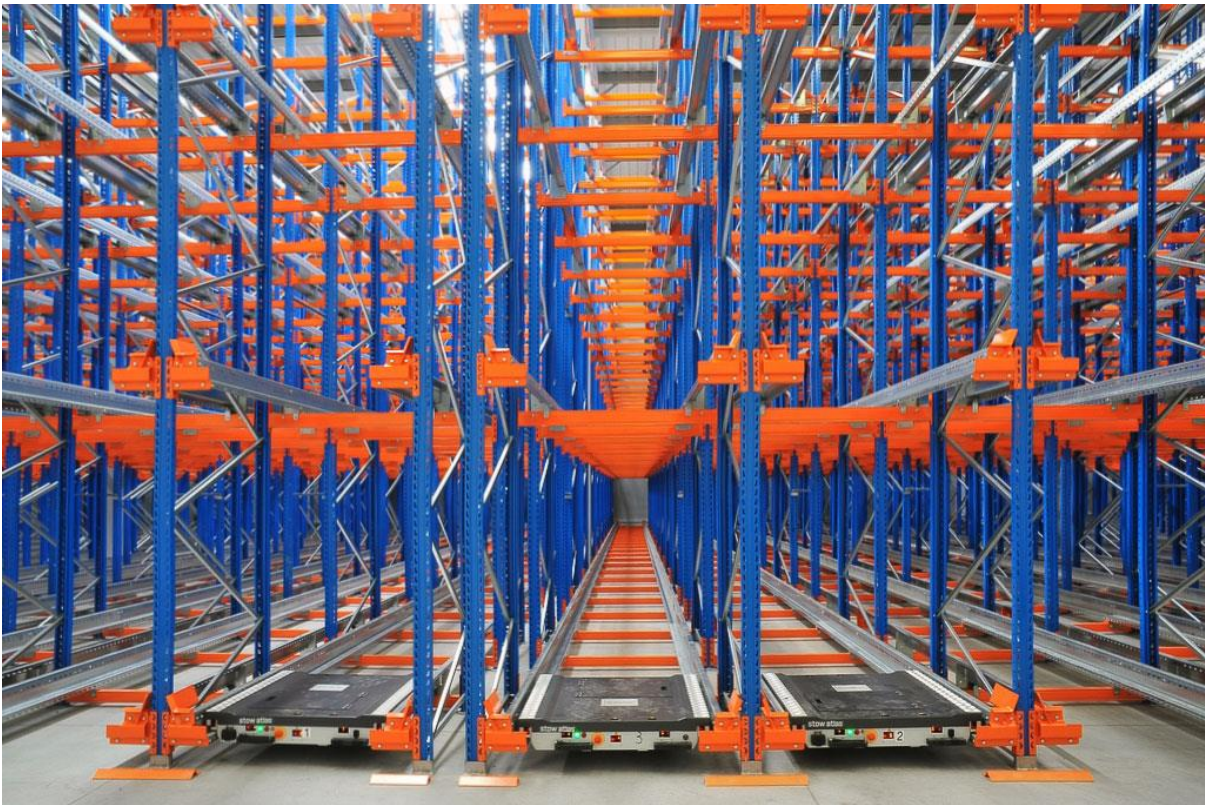


Pallet Flow Racking is another form of dense storage system to utilize maximum 'Storage Cube'. As the name depicts, Pallets flow from one end to another end by gravity force on metal rollers. Hence by default, this system operates on FIFO (First In First Out). This system is designed to store pallets of multiple high and multiple deep. Each level shall be dedicated to one type of SKU only. This racking is suitable for batch production / storing homogeneous products and expiry date for SKU is critical. This racking has pallet loading on one end and unloading on the other end.

BENEFITS

- Suitable to all applications where SKU variety is less or homogeneous
- Suitable for industries involved in batch production
- Suitable to act as buffer storage area
- Adaptable to varying pallet / load heights
- Range of uprights and roller designs to offer the best solution for any pallet size/load
- Compatible to most of the Forklift, Stacker & Reach Truck models
- Variety of Accessories are available to enhance safe pallet movement on rollers
- High Throughput and equipment handling is minimal

Shuttle Pallet Racking



Shuttle on racks, designed to swiftly carry pallets to the forklifts. Remote controlled operations to move shuttles within the racks. Configurable in LIFO/FIFO, this solution ensure fast throughput while improving storage density.

Highlights

- Suits industries with limited variety of SKUs
- Ideal for buffer storage to manage seasonal demands
- Interactive radio transmitter to move goods
- Operation by remote control
- Driven by rechargeable battery
- Compatible with all material handling equipments
- Highly safe, as forklifts stay away from the racks
- Operate in sub zero temperatures upto -30 degrees.
- Custom setup to enhance efficiency and speed
- Upgradeable from current static racks

SWiFT

SERIES

QUICK RESPONSE. QUICK SOLUTION. QUICK EXECUTION

SELECTIVE PALLET RACKING



Our Comprehensive Solution Offering - Range





ABOUT SELECTIVE PALLET RACKING

- A pallet storage system with 100% selectivity
- Suitable for bulk-picking / unitized loads
- Operated by material handling equipments like forklift, reach truck, stacker

- referred as Adjustable Pallet Racking (APR) in SEMA/FEM/EN codes

One of this could be your SKU (RM & FG)



Cartons



Bags



Drums



Packing Materials



Beverages



Bins



Tyres

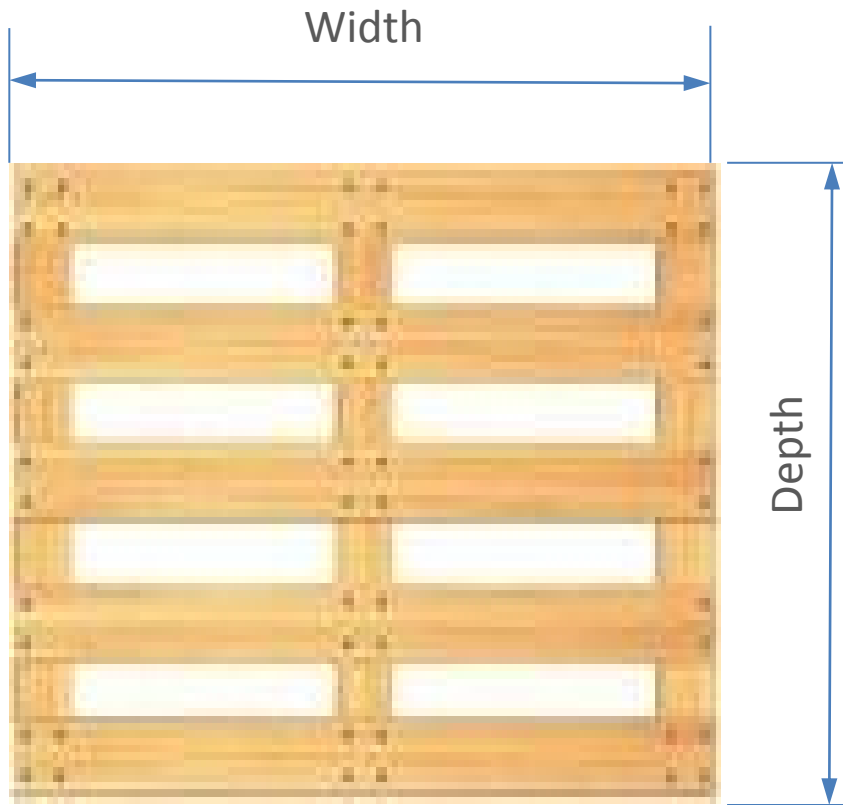


Can

Let us convert it to a Pallet



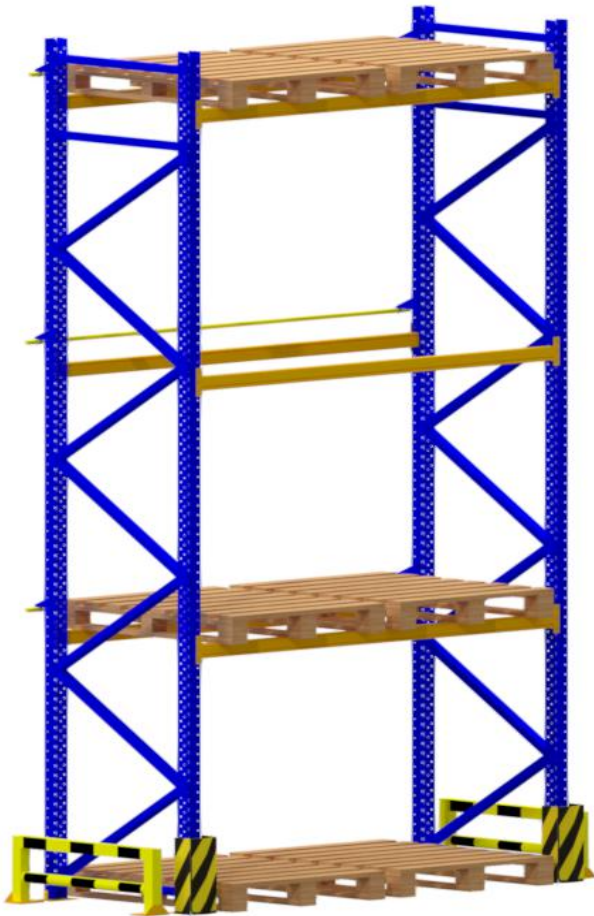
Let us decide the suitable pallet size for you



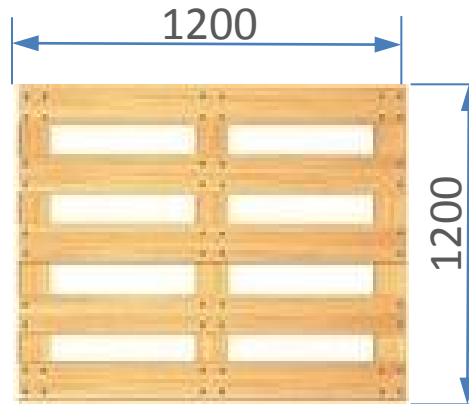
Pallet Width	Pallet Depth
1200	1200
1200	1100
1200	1000
1200	900
1000	1200
1000	1100
1000	1000
1000	900
800	1200
800	1100
800	1000
800	900

**Let us configure the
Racks**

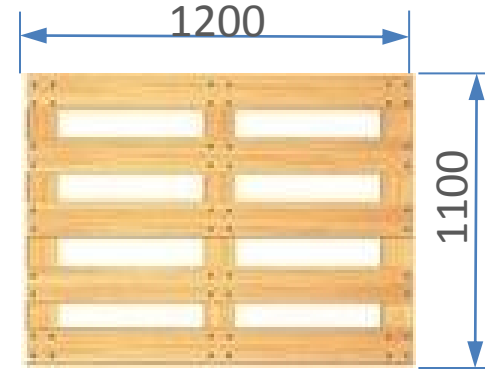
Our Rack range for 1200mm wide Pallet



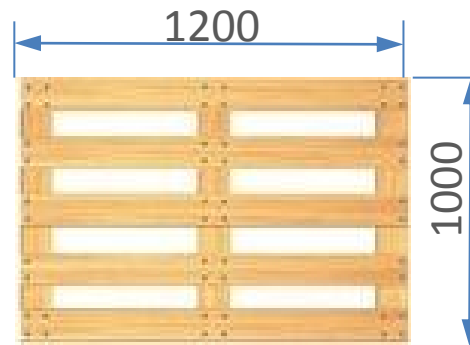
Two Pallet Per Level



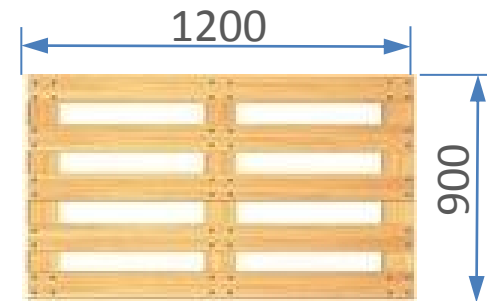
Rack Width: 2700
Rack Depth: 1000



Rack Width: 2700
Rack Depth: 1000

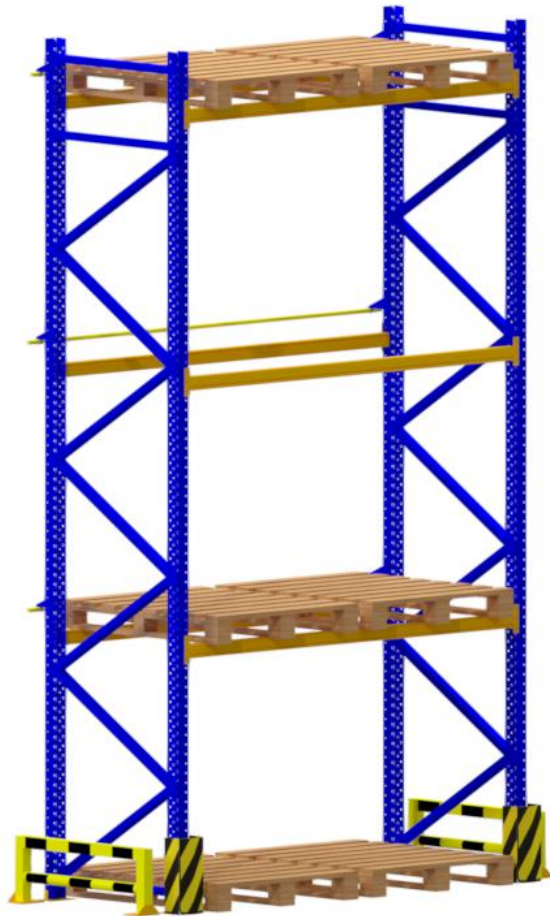


Rack Width: 2700
Rack Depth: 800

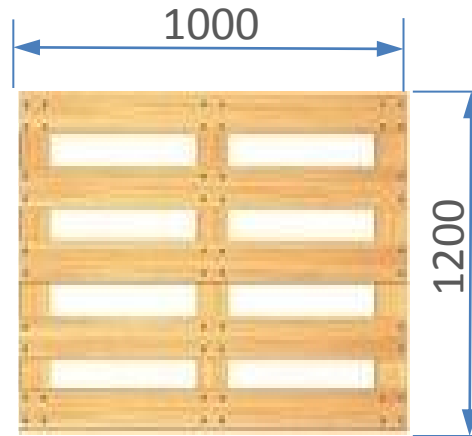


Rack Width: 2700
Rack Depth: 800

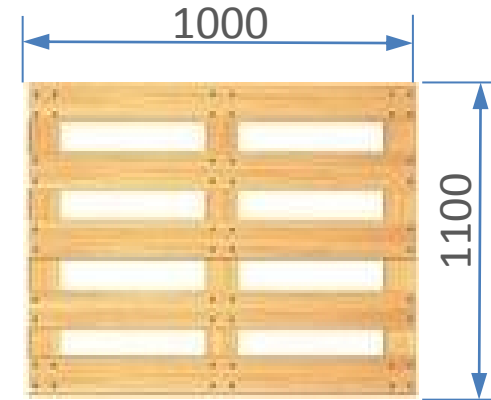
Our Rack range for 1000mm wide Pallet



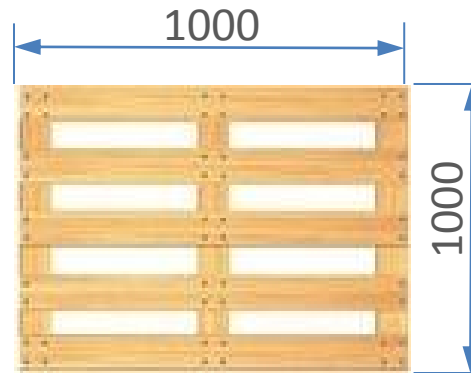
Two Pallet Per Level



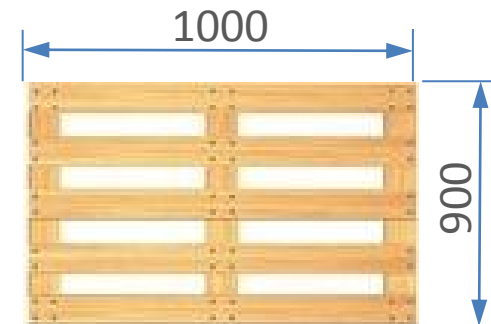
Rack Width: 2300
Rack Depth: 1000



Rack Width: 2300
Rack Depth: 1000



Rack Width: 2300
Rack Depth: 800

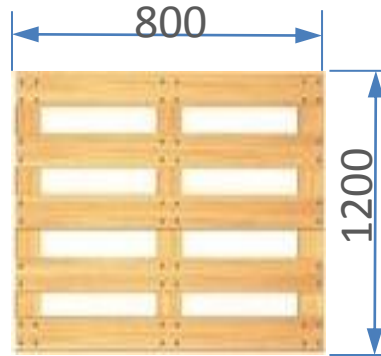


Rack Width: 2300
Rack Depth: 800

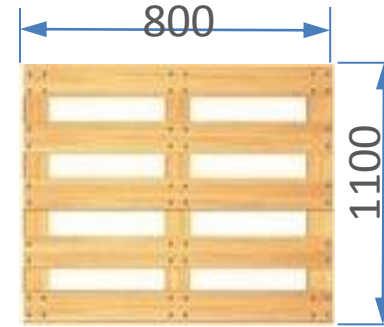
Our Rack range for 800mm wide Pallet



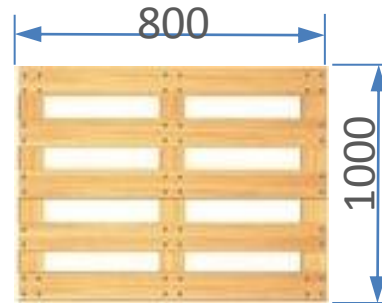
Three Pallet Per Level



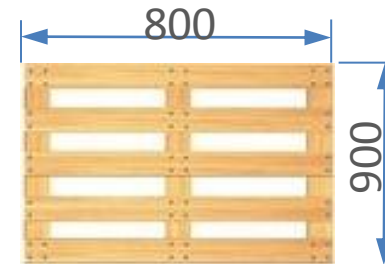
Rack Width: 2700
Rack Depth: 1000



Rack Width: 2700
Rack Depth: 1000

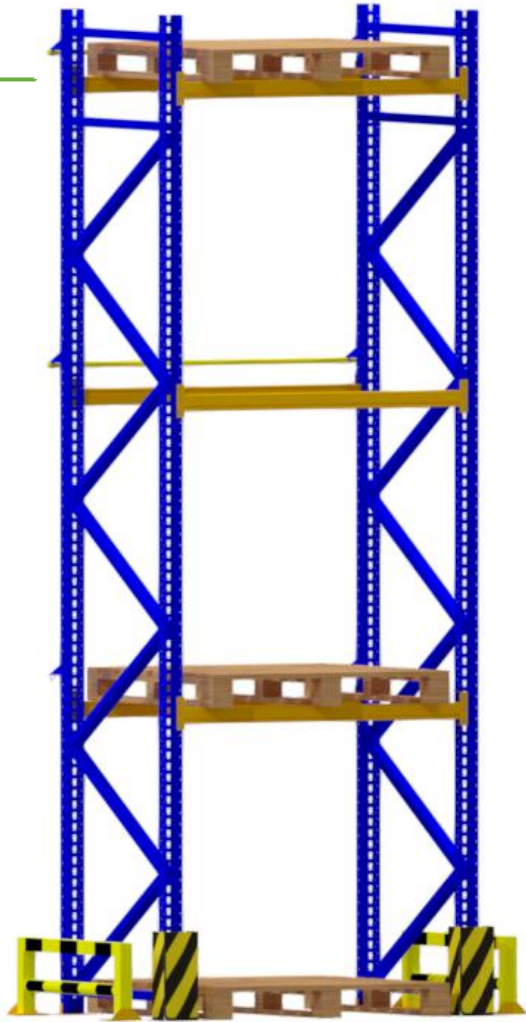


Rack Width: 2700
Rack Depth: 800

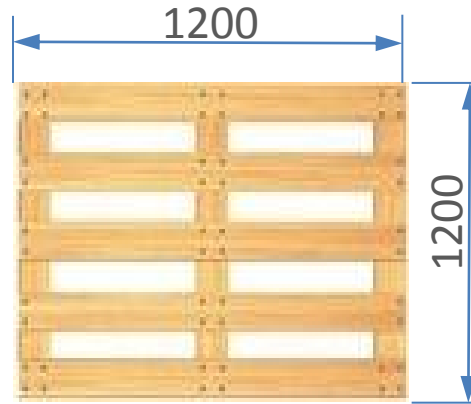


Rack Width: 2700
Rack Depth: 800

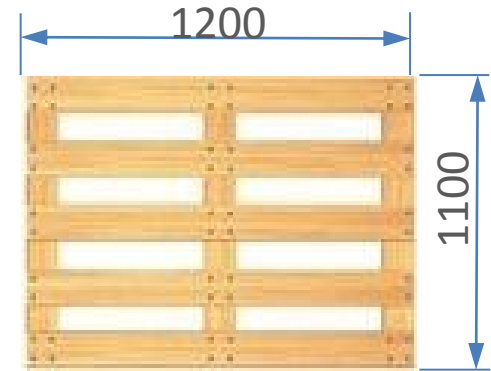
Our configuration to keep single pallet / level (Half Unit)



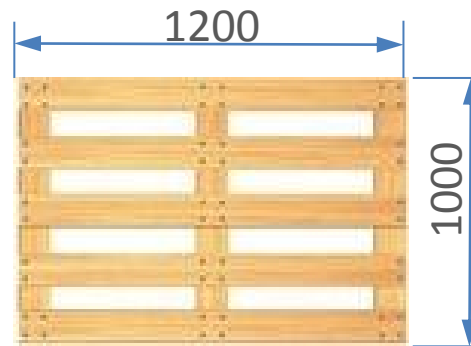
One Pallet Per Level



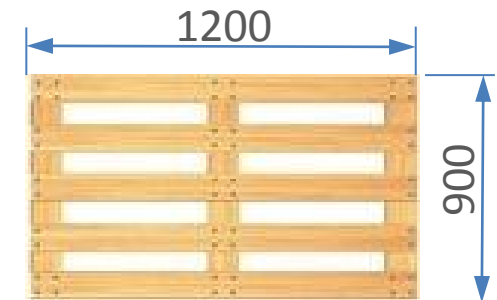
Rack Width: 1400
Rack Depth: 1000



Rack Width: 1400
Rack Depth: 1000

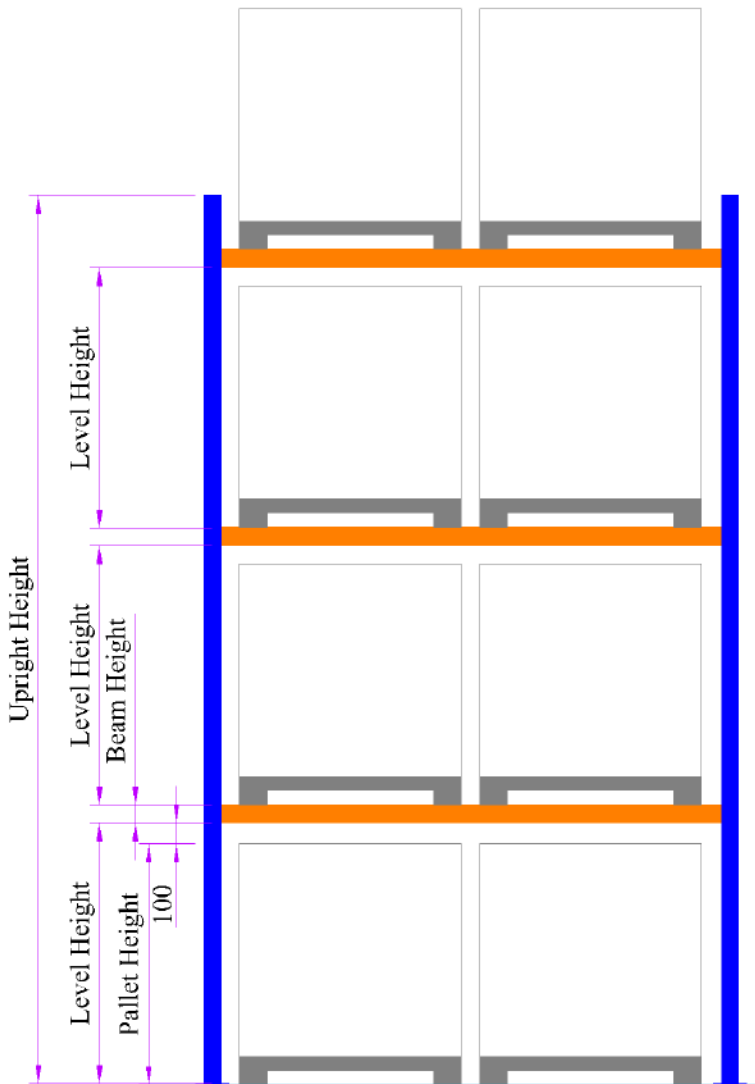


Rack Width: 1400
Rack Depth: 800



Rack Width: 1400
Rack Depth: 800

Let us Configure the Rack Height



System Type

Pallet Height	G+2	G+3	G+4
1000	2700	3900	5100
1100	2900	4200	5500
1200	3100	4500	5900
1300	3300	4800	
1400	3500	5100	
1500	3700	5400	

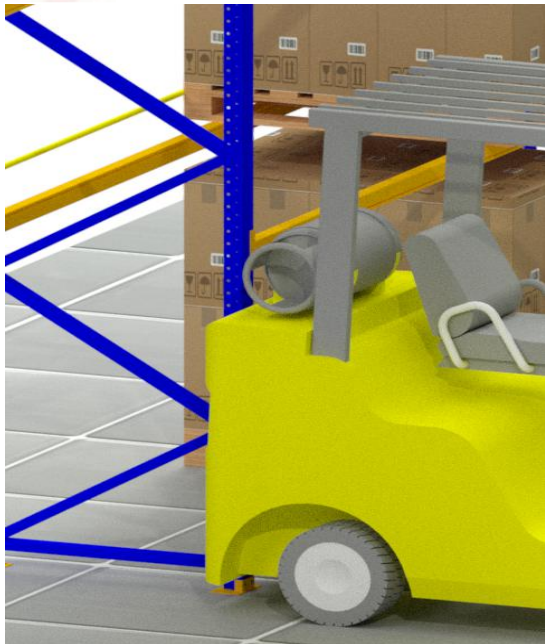
System Height

The image features a solid blue background. In the top-left corner, there are several white, parallel lines that form a decorative border, curving and extending across the top and left edges of the frame. The text "We care for your safety" is centered in the lower half of the image in a white, bold, sans-serif font.

We care for your safety

Column Guard

ENSURES SAFE MHE OPERATION IN PICKING/OPERATING AISLE



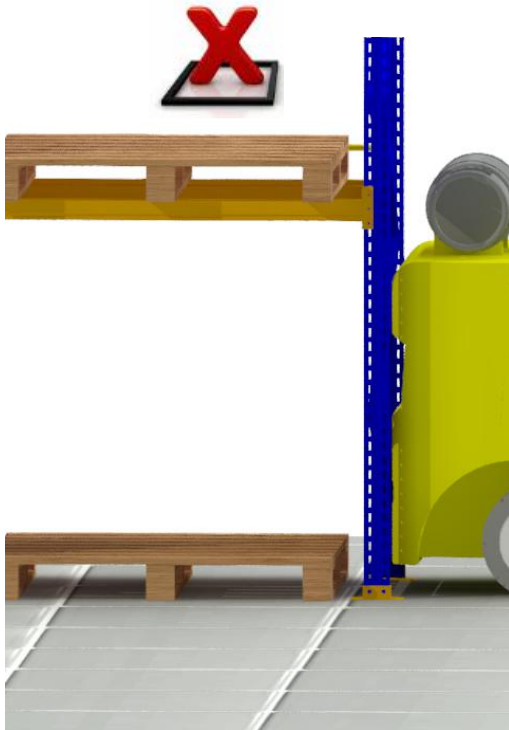
Without Safety accessories
MHE hitting the Rack



With Safety accessories
Column Guard prevents MHE from Hitting

Row Guard

ENSURES SAFE MHE OPERATION ACROSS AISLE MOVEMENT

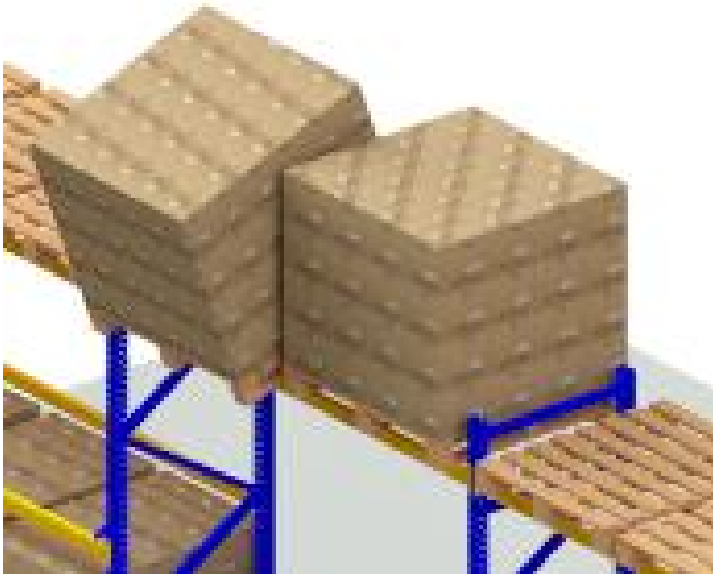


Without Safety accessories
MHE hitting the Rack

With Safety accessories
Row Guard prevents MHE from Hitting

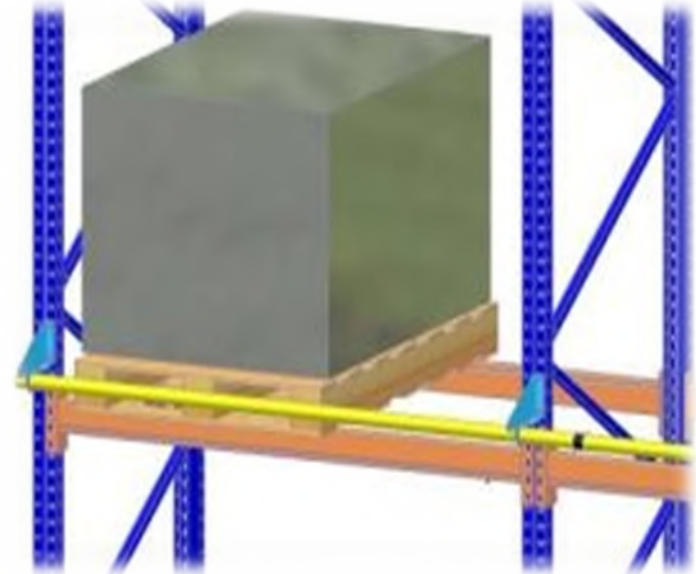
Pallet Stopper

ENABLES MHE OPERATOR IN ESTIMATING RACK DEPTH THUS PREVENTING PALLET FALL



Without Safety accessories

Pallet falling from rear side of rack



With Safety accessories

Pallet stopper stop falling of pallet

Safety Signage

ENSURE SAFE & CORRECT WAREHOUSING PRACTICES

SAFETY PRECAUTIONS



- #. RESPECT THE SAFETY REGULATIONS.
- #. DO NOT CLIMB RACKING.



- #. ONLY USE PALLETS IN GOOD CONDITION.
- #. FOLLOW THE UNIT LOAD HANDLING INSTRUCTIONS.
- #. DO NOT OVER LOAD THE SYSTEM.



- #. CONDUCT REGULAR INSPECTION TO CHECK FOR:
 - CORRECT APPLICATION AND USE.
 - LOADS WITHIN ALLOWABLE SAFE LIMITS.
 - ACCIDENTAL DAMAGE TO (OR) DISLODGE MENT OF STRUCTURE COMPONENTS.



- #. DO NOT CONTINUE TO WORK WITH DAMAGED COMPONENTS.
- #. DO NOT ALTER RACK CONFIGURATION OR TRUCK WITHOUT CHECKING TECHNICAL INFORMATION OR OBTAINING APPROVAL FROM THE SUPPLIER.
- #. DO NOT PLACE THE MATERIAL WITH AN IMPACT.



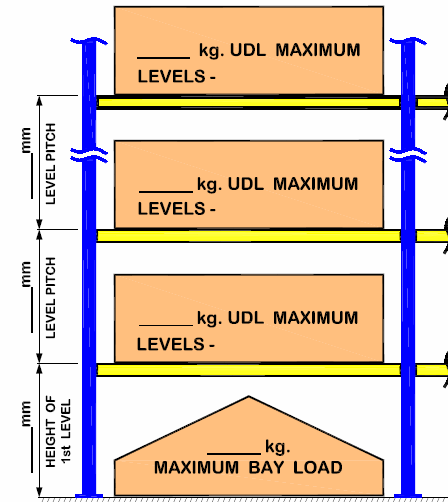
- #. IF IN DOUBT, ALWAYS CONTACT SUPPLIER.

godrej | STORAGE SOLUTIONS

REGISTERED OFFICE:
Godrej & Boyce Mfg Co Ltd,
No 1, MIDC Industrial Estate,
Chembur - 400074, India
Phone: 91-44-66244444, Fax: 91-44-66244444

SAFE WORKING LOADS - Kg.

SYSTEM- SELECTIVE PALLET RACKING



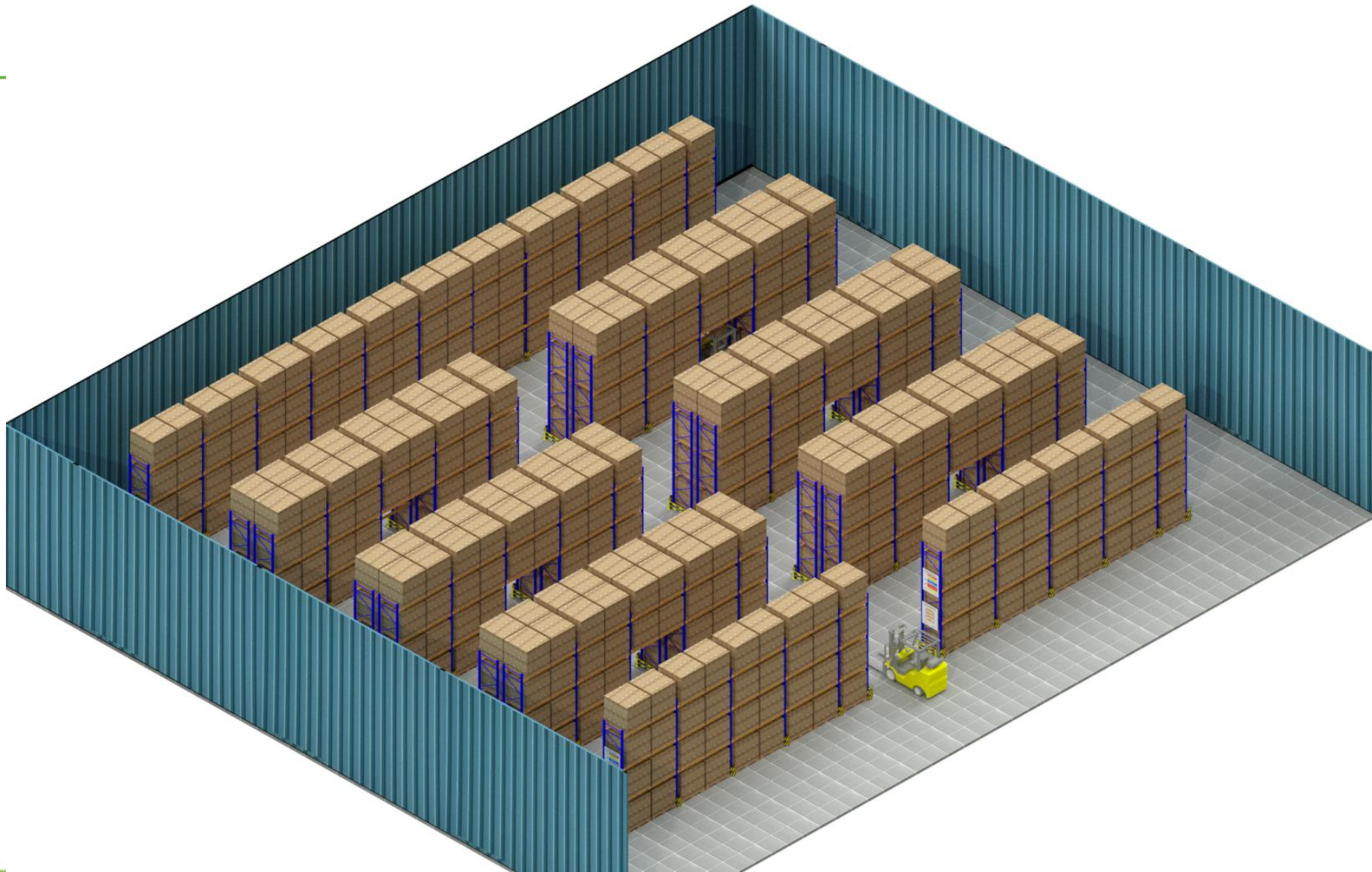
NOTE:-

UDL - Uniformly distributed Load

godrej | STORAGE SOLUTIONS

REGISTERED OFFICE:
Godrej & Boyce Mfg Co Ltd,
No 1, MIDC Industrial Estate,
Chembur - 400074, India
Phone: 91-44-66244444, Fax: 91-44-66244444

Final Layout





References



11-115

11-115

P&P

11-115



SAFE WORKING LOADS - Kg.

100% TO MAXIMUM RAY LOAD

75% TO UEL MAXIMUM LEVEL

50% TO UEL MAXIMUM LEVEL

25% TO UEL MAXIMUM LEVEL

100% TO MAXIMUM RAY LOAD

SAFETY PRECAUTIONS

- Do not exceed the maximum working load.
- Do not use the shelving unit for storage of hazardous materials.
- Do not use the shelving unit for storage of flammable or volatile liquids.
- Do not use the shelving unit for storage of heavy machinery or equipment.
- Do not use the shelving unit for storage of materials that are not palletized.
- Do not use the shelving unit for storage of materials that are not properly secured.
- Do not use the shelving unit for storage of materials that are not properly labeled.
- Do not use the shelving unit for storage of materials that are not properly stored.









Thank
You

QUICK RESPONSE. QUICK SOLUTION. QUICK EXECUTION

BOLTLESS SHELVING

Contemporary bolt free modular shelving system for multiple light load applications



Upright Height (mm)	Panel Depth (mm)	Panel Width (mm)	Load/Shelf Upto (kg)
1895, 2195 & 2495	400	1300	150
	500		
	600		

**Cladded and non-cladded options are available

MOBISTACK NEO

Modern compact mobile shelving system for space optimization

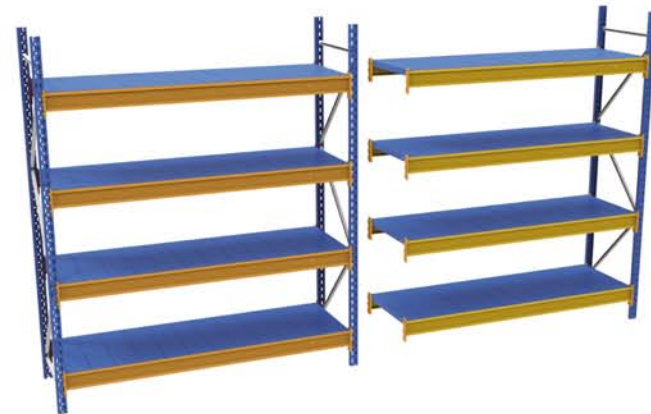


System Height (mm)	System config (mm)	System Depth (mm)	Load/Shelf Upto (kg)
2100 & 2400	LD2, LD3, LD2A	300	90 kg (300 deep)
		400	80 kg (400 deep)

LONGSPAN SHELVING

A versatile shelving system for storing long & odd size items.

Upright Height (mm)	Frame Depth (mm)	Beam Span (mm)	Load/Level Upto (kg)
2200, 2500, 2800 & 3200	600 & 900	1800	540
		2200	540
		2600	455



SELECTIVE PALLET RACKING

High rise racking system for storing palletized loads.

Upright Height (mm)	Frame Depth (mm)	Beam Span (mm)	Load/Level Upto (kg)
3300, 4400, 5400 & 6500	800 & 1000	2300	2000
		2700	3000
		1400	1000



** Additional accessories

Row guard | Column guard | Pallet stoppers

HEAVY DUTY SHELVING

Adaptable shelving system for heavy load applications.



Upright Height (mm)	Frame Depth (mm)	Beam Span (mm)	Load/Level Upto (kg)
2200 & 2800	800 & 1000	2300	1000
		2700	1000
		1400	500

MULTIFLEX SHELVING

Conventional slotted angle flexible shelving system.

System Height (mm)	Panel Width (mm)	Panel Depth (mm)	Load/Shelf Upto (kg)
1829 (6ft), 2134 (7ft) & 2438 (8ft)	905	371	100kg (371)
		448	140kg (448)
		600	125kg (600)

**Cladded and non-cladded options are available

