



NORTH AMERICAN STEEL

INNOVATIVE STORAGE SOLUTIONS



**ENGINEERED FOR
STRENGTH
FOCUSED ON
SERVICE**



SELECTIVE SYSTEMS

FEATURES AND ADVANTAGES

- › Optimum flexibility and accessibility to all individual pallets including hand loading
- › Available in either Rollformed or Structural steel
- › No special lift trucks required, compatible with most standard models
- › Supports "FIFO" (First-In First-Out) desirable Inventory management
- › Most economical racking storage per square foot
- › Economical shelving beams can be added for low level hand picking
- › Easy installation, beam adjustment and re-configuration
- › Wide range of accessories for every specific product and safety application
- › One level of pallets can be located on the floor
- › Reasonable tolerance of floor level for installations up to 30' high
- › Multiple trucks can access each aisle





Selective Pallet Rack

Selective Pallet Racking is the most commonly used storage system for conventional warehouses. NAS Rollformed Selective Racking is the preferred solution.

This system provides 100% product selectivity and is ideal for both palletized & non-palletized loads.

Other features:

- › Easy beam adjustment in 1" to 3" increments according to rack type.
- › NAS Step Beams can accommodate various shelf types: wire mesh decks, roof decking, steel grating and wood panels, for smaller sized pallets or boxes.
- › NAS offers a complete range of components and accessories to accommodate specialized loads.

SELECTIVE RACK OPTIONS

WIDE AISLE

Comprised of the same basic components as Selective racking. The access aisle widths can be increased for 4-wheel balance lift trucks' turning radius.

Wide Aisle can be used for picking at ground level with walkies, pallet trucks and carts.

NARROW AISLE

Comprised of the same basic components as Wide Aisle racking. The access aisles widths are decreased for reach trucks.

Narrow Aisle can be used for picking at ground level with walkies, pallet trucks and carts.

VERY NARROW AISLE

Comprised of the same basic components as Narrow Aisle racking. The access aisles are greatly reduced resulting in increased use of building floor space.

Pallets can be placed closer together since they are loaded and unloaded using Side Loading Lift Trucks.

All Selective Racking has the advantage of 100% product selectivity.

MANUFACTURER'S RECOMMENDATIONS:

Aisle Width:

144" to 160"

108" to 132"

54" to 84"

Rack Height:

10 to 24 ft.

Higher than 24 ft.

Up to 50 ft. high

Loading Equipment:

3 or 4-wheel Counter-Balance Truck and Stand Up Dock Truck.

Reach Trucks, Straddle Trucks and Double Deep Trucks.

Side Loading Very Narrow Aisle Trucks (VNA), Turret Trucks, Swing Reach Picker Trucks.

Lift Truck Range Width:

From transport truck to stocking pallets.

Receive and deliver pallets to shipping docks.

VNA Trucks are restricted to working within access aisles.



NARROW AISLE

Loading & Picking

Loading and picking are mostly done by rail or wire guided swing reach picker trucks.

Upper levels can be used with Narrow Aisle Picker trucks for hand picking of individual boxes/items to build mixed product pallets.

Note: Greater height racking installation requires "super flat" floor for safe equipment operations.

Features & Benefits of VNA Rack

- › Greater rack height resulting in most effective use of floor space
- › Superior cubic area utilization
- › Ideal for FIFO inventory management
- › Improved speed of access and retrieval
- › Reduced product damage and fewer picking errors, compared to bulk stacking
- › Low unit load cost when volumes are high
- › Limited pallet redundancy as the systems can operate at 95%+ capacity



PERFORMANCE OF SYSTEM	WIDE AISLE	NARROW AISLE	VERY NARROW AISLE
Selectivity of Individual Pallets	100%	100%	100%
Space Utilization of Floor Area	25%	30%	40%
Utilization of Pallet Loading	98%	95%	93%
Speed of Access and Throughput	80%	80%	80%
Stock Rotation (FIFO)	60%	60%	60%
Use of Building Height	80%	90%	90%
Efficient Bottom Level Case Picker	100%	100%	50%
Ease of Relocation	100%	100%	100%
System Adjustability	100%	100%	100%
Speciality Handling Equipment	No	Yes	Yes

DOUBLE DEEP



Double Deep Racking Systems increase the use of storage space by more than 50%. This is achieved by replacing single rows with double rows of Selective Pallet Racking on either side of the aisle, thereby eliminating an aisle between each single row.

A Double Deep Reach Truck is required.

This system is best suited when a varied number of SKU's are managed and when storage space is limited.

Double Deep racking is an economical alternative to Push Back or Drive-In Racking systems.



Features & Benefits of Double Deep Rack

- > 50% more utilization of storage space compared to Wide Aisle Selective Rack
- > Same selectivity and pallet density as 2-Deep Push Back Rack
- > Lower initial investment compared to Push Back or Drive-In Rack
- > Easily relocated or reconfigured



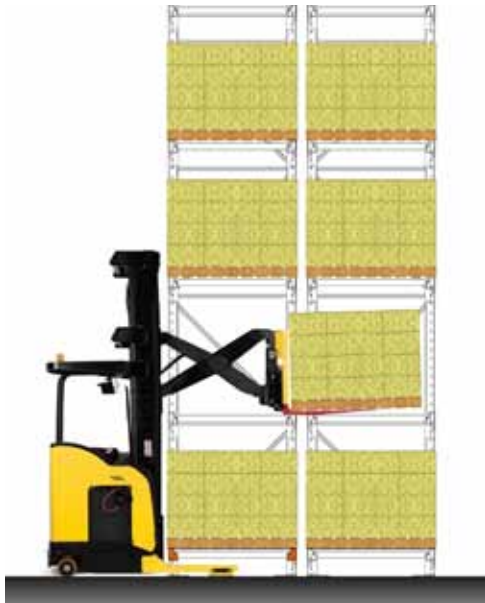
PERFORMANCE OF SYSTEM	RATING	BULK STORAGE	NARROW AISLE	DOUBLE DEEP
Selectivity of Individual Pallet	*****	40%	100%	50%
Space Utilization of Floor Area	*****	80%	30%	50%
Utilization of Pallet Loading	*****	70%	95%	100%
Speed of Access and Throughput	****	80%	80%	40%
Stock Rotation (FIFO)	****	40%	60%	50%
Use of Building Height	*****	40%	90%	90%
Efficient Bottom Level Case Picker	****	40%	100%	70%
Ease of Relocation	*****	50%	100%	100%
System Adjustability	*****	40%	100%	100%
Speciality Handling Equipment		No	Yes	Yes



Double Deep Severe Cant-Leg

Severe Cant-Leg Double Deep Racking allows for reduced bay width, thereby saving valuable floor space.

The front frame bottom section with a Severe Cant-Leg eliminates the front post, facilitating access where the post would have been.



Double Deep Raised Floor Beam

Double Deep Racking can be designed with floor pallets placed on beams 12" off the floor. This allows reach truck straddle legs to enter the bay without the need to go under the floor beam.

The Raised Floor Beams keep product off the floor (a necessity for some food products and perishables) and allows for easier cleaning.



Double Deep Wide Bay

For Double Deep Racking to allow the straddle legs to operate between the pallet and front posts, the bay width requires up to 12 additional inches.

Provides optimum use of available storage height, as the bottom pallet is placed directly on the floor.

Other Catalogues



NORTH AMERICAN RACK



AMERICAN TEARDROP RACK



STRUCTURAL RACK

Proudly Canadian

Advanced Production Methods

**HIGH SPEED
ROLLFORMING LINES**



**ROBOTIC
WELDING**



POWDER COATED FINISH

All NAS products use environmentally friendly powder coatings with a durable scratch resistant finish.

Installations & Services

TAKE ADVANTAGE OF OUR EXPERIENCED ENGINEERING TEAM

to assist you in planning and designing your Storage Systems.

OUR PROFESSIONAL INSTALLATION CREWS

can handle all of your racking and shelving installations, repairs and maintenance. Union and non-union crews available.

MULTIPLE MANUFACTURING PLANTS

strategically located across the country providing improved service and reduced freight costs.

Certifications



Warranty

All materials are guaranteed to be free from defects in workmanship and material.

Extended Warranties vary depending on products.

Installation Warranty applies to all racking installed by our certified installation crews.

NORTH AMERICAN STEEL

300 Hopkins Street, Whitby, Ontario Canada L1N 2B9

Phone: (905) 668-3300

Toll Free: (800) 735-4153 Email: sales@naseco.ca

Fax: (905) 668-5477 Web: www.naseco.ca

NORTH AMERICAN STORAGE

2103 - 7th Street, Nisku, Alberta Canada T9E 7Y3

Phone: (780) 955-2444

Toll Free: (800) 241-8968 Email: sales@naseco.com

Fax: (780) 955-3463 Web: www.naseco.com

With 60 Years

Manufacturing Experience

NORTH AMERICAN STEEL

is the leading name for

Innovative Storage Concepts