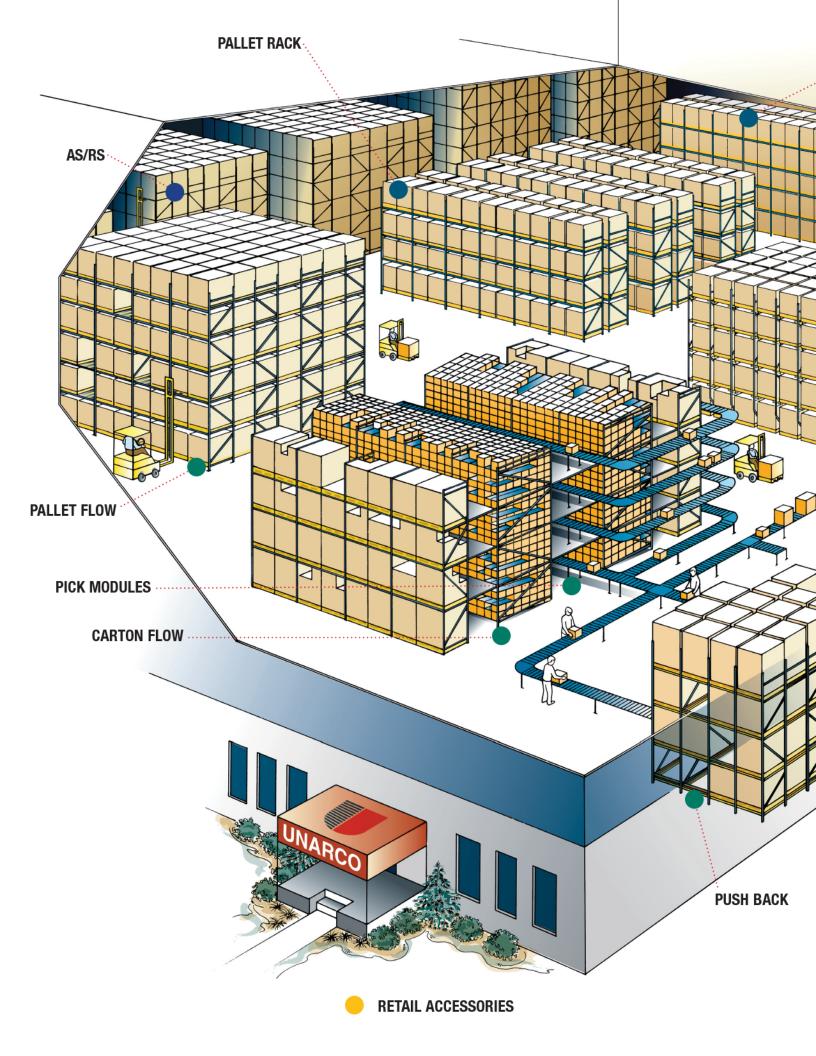


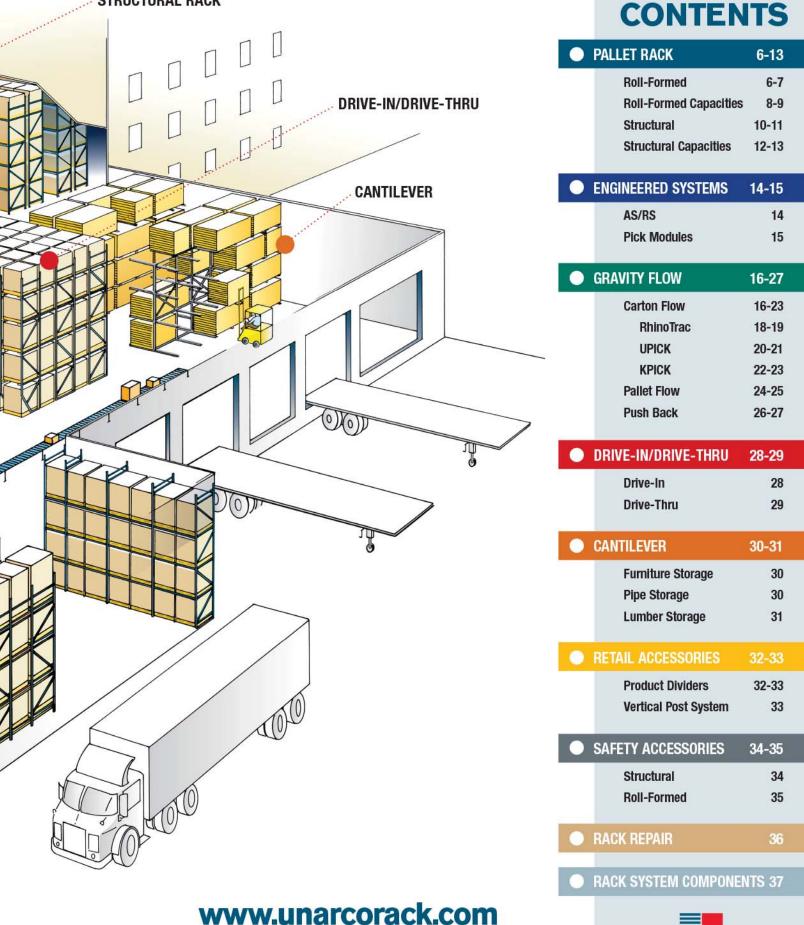
PRODUCTS CATALOG



COMPLETE STORAGE SOLUTIONS







STRUCTURAL RACK

UNARCO

Single-Source Capability

UNARCO handles projects from the simplest warehouse to the most complex pick module. Our team of qualified engineers can solve any application issue presented. We have big ideas for even the smallest warehouse. When coupled with project management and installation services, you can leave the coordination to us. Put your project in our hands and let innovation work for you.





ENGINEERING INSTALLATION PALET FLOX



RACK REPAIR













The wide range of UNARCO's products allows for an efficient solution to any warehousing requirement. Because of our long history in the industry, we have developed a product line that has been successfully implemented for many years. From standard pallet rack to carton flow and push back, to complicated AS/RS systems, UNARCO manufactures rack systems to increase your warehouse productivity.







- Roll-Formed
- Structural
- Pick Modules
- Carton Flow
- Pallet Flow
- Push Back
- Drive-In/Drive-Thru
- Cantilever
- Mezzanines
- · AS/RS
- Retail Accessories
- Rack Repair







UNARCO was the first pallet rack manufacturer in the industry. With nearly sixty years in production, engineering and design, no one offers more experience in how to increase efficiency in warehouses and distribution centers.

Flexibility that you will not find in other large pallet racking manufacturers stems from the ability to produce an entire line of warehouse storage solutions including carton flow, pallet flow, push back, drive-in/drive-thru and cantilever. But more importantly, UNARCO has structured its customer service and manufacturing facilities to LISTEN to customers' needs and respond with custom designs and smarter solutions.



Strategic Plant Locations

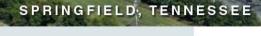
UNARCO's network includes field representatives and stocking distributors across the country.







LEWISVILLE, TEXAS











STATE OF THE ART PAINT APPLICATION

UNARCO has invested millions of dollars in state of the art powder coat paint lines for a superior finish. Parts begin at a four-stage washer which meticulously cleans the product before sending it through booths with over 25 guns. The parts then travel through a 200-foot-long bake oven to insure a durable finish.

MODERN MANUFACTURING AND PROFESSIONALLY SKILLED LABOR

UNARCO's plants of over one million square feet are streamlined for maximum efficiency and computer guided accuracy. The modern manufacturing process starts with coils of high-strength steel, certified to meet our demanding specifications for chemistry and thickness. Beams and uprights are formed and welded to exacting standards by advanced robotic equipment and A.W.S. certified welders. UNARCO maintains top quality throughout the manufacturing and finishing process with a highly skilled work force.



Powder Coat Paint Booth



Computerized Mills



High-Strength Steel Coils

- America's first manufacturer of pallet rack
- Complete product line for any storage requirement
- History of successful working relationships with consultants and integrators throughout the United States
- Proven engineering and design history
- Seismic calculations and local building code compliance
- Installation and project management capabilities
- Vast distributor network
- Member of Rack Manufacturers Institute (RMI) with R-Mark certification, which guarantees compliance to latest RMI specifications
- Solid financial backing of multi-billion dollar corporation











Selective Pallet Rack ROLL-FORMED



Roll-formed

 All-welded construction

 Wide variety of column sizes

 Closed tube or open section columns

 Available with bolted or automatic locking devices

 Sturdy miter-cut bracing

Rigid connections

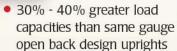
 40-foot continuous length capability

T-Bolt

Standard Selective Pallet
Rack is the basis for most
warehouse storage systems.
UNARCO can provide all
varieties from light to heavyduty, open to closed tubes
and bolted to automatic
locking connections.
Computerized mills insure
that tolerances on all rollformed beams and
uprights are precise
and install with







- Over 200 times more resistant to torsional forces
- Cleaner no areas to trap dust and debris
- Resists frontal impact five times more than structural column





ease.

UNARCO

6

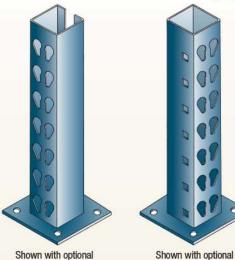
R-MARK

REG. #5070

pallet rack

UPRIGHTS

side punching



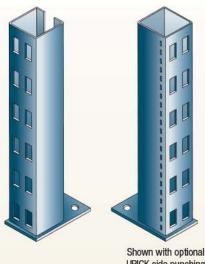
INTERCHANGEABLE Non-Bolted Connection

seismic base plate

Interchangeable tear drop upright columns will accept most industry standard "Interchangeable" beams

Manufactured with or without side holes

Available in open or closed tube sections



UPICK side punching

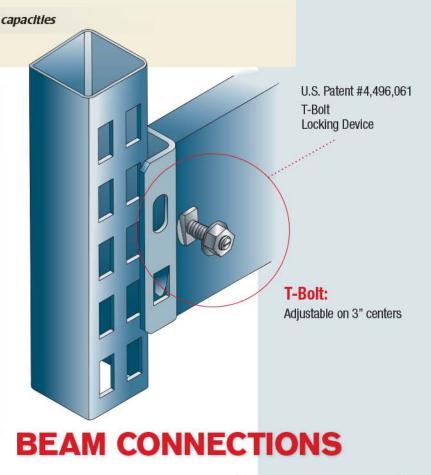
T-BOLT **Bolted Connection**

T-Bolt upright columns front-end-only connection allows for easy installation because you never need to reach into the column

Extra rigid connection

Available in open or closed tube sections

Pallet Rack: See pages 8-9 for available column sizes and capacities U.S. Patent #5,624,045 Gravity Locking Device Interchangeable: Adjustable on 2" centers



Selective Pallet Rack COMPONENTS

ROLL-FORMED UPRIGHTS

GENERAL UPRIGHT CAPACITY GUIDELINES FOR T-BOLT UPRIGHTS

SUPERI	POST T-BOLT									
COLUMN SIZE	3 X 2	3 x 2	3 x 2	3 x 3	3 x 3	3 x 3	3 x 3	4 x 3	4 x 3	4 x 3
PART NO.	T0142	T0132	T0122	T0143	T0133	T0123	T0103	T0134	T0124	T0104
MAXIMUM Unsupported Length	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
36"	33,620	30,545	36,181	32,023	43,716	52,950	65,590	50,281	64,143	83,278
48"	22,242	28,680	33,990	27,556	36,983	44,585	55,039	47,403	60,224	77,937
60"	17,655	22,437	26,498	22,631	29,811	35,742	43,928	42,129	53,092	68,233
72"	13,249	16,587	19,502	17,709	22,889	27,279	33,347	36,405	45,475	57,998
84"	9,816	12,186	14,328	13,330	16,965	20,143	24,572	30,567	37,834	47,863
96"	7,556	9,330	10,970	10,320	13,008	15,422	18,813	24,923	30,566	38,323

OPEN	SECTION T-BO)LT				
COLUMN SIZE	3 x 15/8	3 x 15/8	3 x 3	3 x 3	3 x 3	3 x 3
PART NO.	T0145	T0135	T0146	T0136	T0126	T0106
MAXIMUM UNSUPPORTED LENGTH	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
36"	17,902	22,751	25,618	34,383	43,637	53,939
48"	13,913	17,607	20,691	27,257	34,076	42,035
60"	11,196	14,042	17,165	22,304	27,569	33,895
72"	8,721	10,831	13,860	17,761	21,700	26,549
84"	6,771	8,354	10,922	13,856	16,802	20,537
96"	5,375	6,600	8,771	11,045	13,320	16,272

All values in the above tables assume that each column carries half of the frame load. The table values are expressed in pounds per frame. These values are based on gravity loading only that is purely axial. Any condition where the axial load is accompanied by moment, the axial load capacity will be less. This will occur for non-symmetrical loading conditions. The capacities also assume the base plates and the bracing are of adequate strength and that all other parts of the rack have been properly designed. All values are for undamaged racks that are installed plumb. It is the rack user's responsibility to properly maintain the racks to ensure that the carrying capacity of the racks is not reduced by damage and that any changes to the rack configuration do not cause an unsafe condition.

Frame capacities are based on maximum unsupported length, which is the measurement of the distance between the floor and the top of the first beam or the maximum spacing between beams, whichever governs.

Refer to unarcorack.com for latest updates to installation instructions and user manuals.

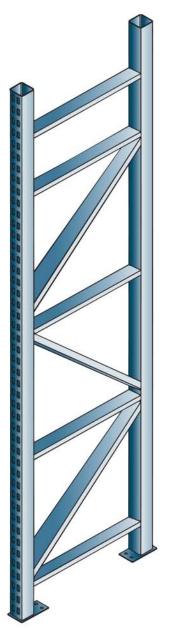
CONTACT THE UNARCO SPRINGFIELD OFFICE FOR ANY OF THE FOLLOWING CONDITIONS:

- Any application where the frame load exceeds 31,000 lbs. (23,600 lbs for 3 x 1.625 columns or 28,700 lbs. for 3x2 column). These frames may need larger base plates or heavier bracing.
- · Any application that requires seismic design where the design ground acceleration Ss exceeds 25%g in IBC areas.
- Configurations that require a frame deeper than 60 inches or higher than 40 feet.
- · Applications that involve support of platforms or catwalks or any application other than normal pallet rack.
- Any single row where the height-to-depth ratio exceeds 6 to 1. These must be checked for anchorage against
 overturning.
- Any condition which creates uncertainty as to the proper use of these tables.

Please visit unarcorack.com for Interchangeable capacities and uprights with side punching.

Column protection is recommended for uprights subjected to potential column abuse from lift trucks.

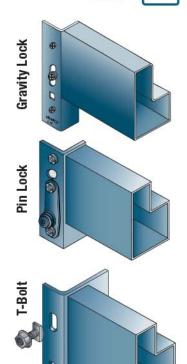


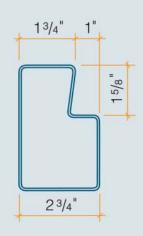


ROLL-FORMED BEAMS

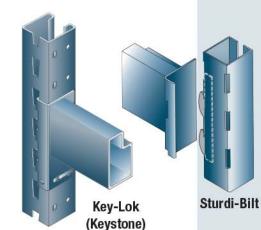
BEAM CAPACITIES FOR T-BOLT - GRAVITY LOCK - PIN LOCK

BEAM SPAN	PART Number	RMI CAPACITY
48"	F2 6356 04800SSS000	7991# 3.56" x 48"L 16 ga.
60"	F2 6356 06000SSS000	6544# 3.56" x 60"L 16 ga.
72"	F2 6356 07200SSS000	5573# 3.56" x 72"L 16 ga.
84"	F2 6356 08400SSS000	4876# 3.56" x 84"L 16 ga.
96"	F2 6250 09600SSS000 F2 6331 09600SSS000 F2 6356 09600SSS000 F2 6400 09600SSS000 F2 6418 09600SSS000 F2 6450 09600SSS000 F2 6500 09600SSS000 F2 6600 09600SSS000 F2 6600 09600SSS000 F2 4600 09600SSS000	
108"	F2 6356 10800SSS000 F2 6400 10800SSS000 F2 6418 10800SSS000 F2 6450 10800SSS000 F2 6500 10800SSS000 F2 4500 10800SSS000 F2 4600 10800SSS000	
120"	F2 6356 12000SSS000 F2 6400 12000SSS000 F2 6418 12000SSS000 F2 6450 12000SSS000 F2 6500 12000SSS000 F2 4500 12000SSS000 F2 4600 12000SSS000	
144"	F2 6356 14400SSS000 F2 6400 14400SSS000 F2 6418 14400SSS000 F2 6450 14400SSS000 F2 6500 14400SSS000 F2 4500 14400SSS000 F2 4600 14400SSS000 F2 3600 14400SSS000 F2 2600 14400SSS000	





UNARCO rack designs conform to the latest Rack Manufacturers Institute (RMI) specifications and AISI Cold Formed Steel Design Manual.



Original Sturdi-Bilt and Key-Lok (Keystone) products may be ordered to add to an existing rack system.

- All capacities are expressed in pounds per pair of beams. Only gravity loading and the RMI required impact have been considered.

 All values are based on a uniformly distributed load (i.e. each beam carries 50% of the
- load) and assume proper installation and no beam damage. The deflection limit for all beams is the length divided by 180.
- Roll-formed beams that are longer than 150" require crossbars, lateral ties, wire decks or some other type of lateral restraint.
- Values in the table are for beam bending only. Shear on the connectors and weld strengths, etc. are not taken into consideration. Capacities include 12.5% impact for two pallets side by side. For a three-pallet-wide shelf, the values should be multiplied by 0.95. For one pallet per shelf the values should be multiplied by 0.90.

PLEASE CONTACT THE UNARCO SPRINGFIELD OFFICE FOR THE FOLLOWING CONDITIONS:

- Beams that are longer than 144" Ground acceleration Ss exceeds 25%g in IBC areas Shelf load in excess of 10,000 lbs.
- Beam application where the proper use of the tables is unclear

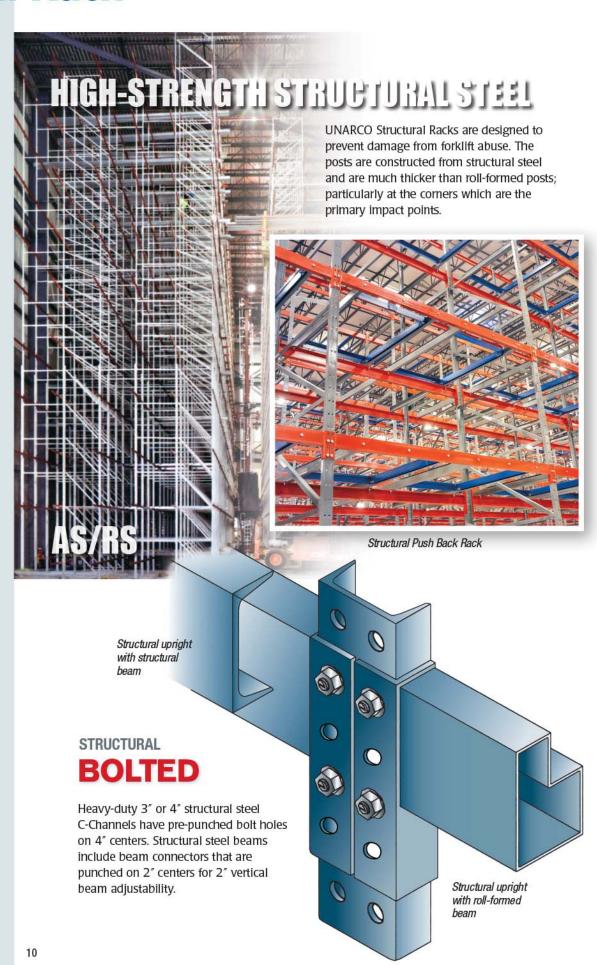


Structural Rack

Structural racks are designed with high-strength structural steel C-Channels for added toughness and rigidity. UNARCO offers 3" and 4" upright posts with sturdy structural steel bracing. Heavy-duty structural beams range from 3" to 6" in height to meet the most demanding load criteria.

UNARCO also manufactures a 3" structural column with teardrop punching. This allows the addition of interchangeable roll-formed beams as an economic and efficient option.

The high-strength and durability of structural steel combined with UNARCO engineering and design can solve any project dilemma and create a more efficient warehouse space.





RIGID

EFFICIENT

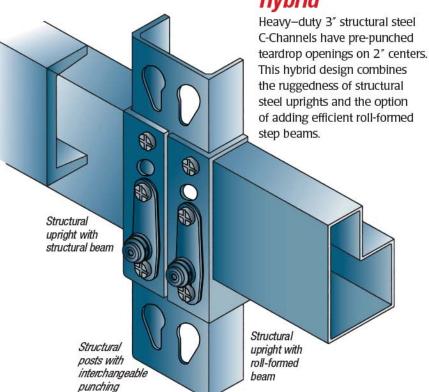
ECONOMICAL

UNARCO Engineering uses the high-strength and durability of structural steel for large projects with heavy loads or highly engineered pick modules.

- Strength
- Durability
- Easily Repaired
- Abuse Resistant
- Heavy-Duty Structural Bracing

STRUCTURAL

INTERCHANGEABLE Hybrid

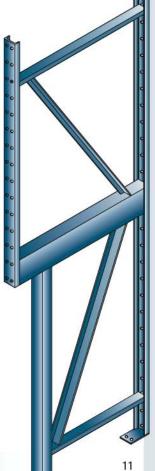




FRAME OPTIONS

 Helps reduce the risk of forklift impact to uprights with special designs which set the base out of harm's way

Improves aisle clearance





SLOPED LEG

Sloped leg option moves the base away from forklift traffic.

CANT LEG SET BACK FRAME

Front leg is offset to help minimize damage from impact.

Height and depth of offset may vary depending on application.

* Also available in roll-formed option.

www.unarcorack.com

Structural Pallet Rack: See pages 12-13 for structural capacities

Structural Uprights

UPRIGHT FRAME SELECTION

FRAME TABLES BOLTED

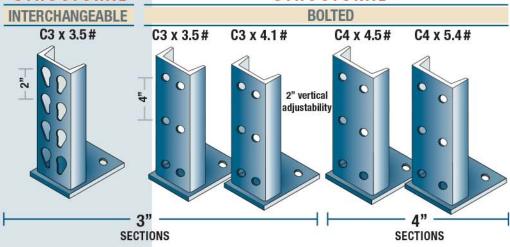
COLUMN SIZE	C3 x 3.5#	C3 x 4.1#	C4 x 4.5#	C4 x 5.4#
Shelf Space	40" Pan.	40" Pan.	40" Pan.	40" Pan.
36"	27,515	29,821	44,172	47,134
42"	27,515	29,821	44,172	47,134
48"	27,515	29,821	44,172	47,134
54"	27,515	29,821	44,172	47,134
60"	27,515	29,821	44,172	47,134
66"	27,515	29,821	44,172	47,134
72"	27,320	28,037	44,172	47,134
78"	23,940	24,400	44,172	47,134
84"	20,724	21,033	44,126	46,257
90"	18,053	18,322	40,610	42,229
96"	15,867	16,103	37,162	38,328

FRAME TABLES TEAR DROP

COLUMN SIZE	C3 x 3.5#
Shelf Space	40" Pan.
36"	26,848
42"	26,848
48"	26,848
54"	26,848
60"	26,848
66"	26,848
72"	26,657
78"	23,360
84"	20,222
90"	17,616
96"	15,483

STRUCTURAL

STRUCTURAL



All values in the above tables assume that each column carries half of the frame load. The table values are expressed in pounds per frame. These values are based on gravity loading only that is purely axial. Any condition where the axial load is accompanied by moment, the axial load capacity will be less. This will occur for non-symmetrical loading conditions. The capacities also assume that the base plates and the bracing are of adequate strength and that all other parts of the rack have been properly designed. All values are for undamaged racks that are installed plumb. It is the rack user's responsibility to properly maintain the racks to ensure that the carrying capacity of the racks is not reduced by damage and that any changes to the rack configuration do not cause an unsafe condition.

Frame capacities are based on the unsupported length, which is the measurement of the distance between the floor and the top of the first beam or the maximum spacing between beams, whichever governs.

Refer to www.unarcorack.com for latest updates to installation instructions, user manuals and safety notices.

Capacities do not take seismic, wind or other lateral forces into consideration.

Upright frames have to be anchored with at least one anchor bolt in each post and require a minimum concrete floor strength of 3,000 PSI for the maximum loads.

CONTACT UNARCO FOR ANY OF THE FOLLOWING CONDITIONS:

- Any application where the frame load exceeds 31,000 lbs. These frames may need larger base plates or heavier bracing. Any application that requires seismic design where the design ground acceleration Ss exceeds 25%g in IBC areas. Configurations that require a frame deeper than 60 inches or higher than 40 feet.

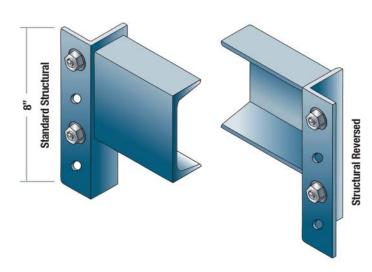
- Applications that involve support platforms or catwalks or any application other than normal pallet rack.

 Any single row where the height-to-depth ratio exceeds 6 to 1. These must be checked for anchorage against overturning.
- Any condition which creates uncertainty as to the proper use of these tables.

Column protection is recommended for uprights subjected to potential column abuse from lift trucks.



^{*} Indicated in pounds.





2" vertical adjustability

BEAM CAPACITY CHART (indicated in pounds)

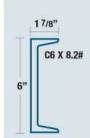












	1											
BEAM SIZE	C3 x 3.5#		C3 x 4.1#		C4 x 4.5#		C4 x 5.4#		C5 x 6.7#		C6 x 8.2#	
	W/O Tie	W/ Tie										
48"	12,425	12,425	13,409	13,409	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000
60"	9,412	9,764	10,234	10,422	14,880	15,896	16,000	16,000	16,000	16,000	16,000	16,000
72"	7,371	8,009	8,087	8,567	11,402	12,869	12,581	13,912	16,000	16,000	16,000	16,000
84"	5,887	6,502	6,529	6,776	8,896	10,697	9,907	11,590	14,418	16,000	16,000	16,000
90"	5,284	5,716	5,896	5,954	7,859	9,824	8,830	10,657	12,744	16,000	16,000	16,000
96"	4,750	5,068	5,276	5,276	6,899	9,058	7,882	9,838	11,186	14,721	15,856	16,000
102"	4,244	4,527	4,709	4,709	6,108	8,380	6,986	9,115	9,864	13,591	13,927	16,000
108"	3,809	4,070	4,231	4,231	5,447	7,776	6,232	8,469	8,762	12,584	12,332	16,000
114"		3,680		3,824		7,233		7,890		11,681		16,000
120"		3,345		3,473		6,742		7,254		10,867		15,587
126"		3,054		3,169		6,298		6,598		10,129		14,508
132"		2,800		2,903		5,760		6,026		9,457		13,525
138"		2,577		2,669		5,285		5,525		8,841		12,627
144"		2,379		2,463		4,865		5,084		8,276		11,802
150"		2,203		2,279		4,494		4,692		7,754		11,041
156"		2,046		2,114		4,163		4,344		7,271		10,338

- Please consult Springfield Engineering for any shelf load over 10,000 lbs.
 All capacities are expressed in pounds per pair of beams. Only gravity loading and the RMI required impact have been considered.
- All values are based on a uniformly distributed load (i.e. each beam carries 50% of the load) and assume proper installation and no beam damage. The deflection limit for all beams is the length divided by 180. Structural beams that are longer than 108" require lateral ties. Values in the table are for the beam bending only.

- Capacities include 12.5% impact for two pallets side by side. For a three-pallet-wide shelf, the values should be multiplied by 0.95. For one pallet per shelf, the values should be multiplied by 0.90. Capacity chart is based on current RMI specifications.

UNARCO rack designs conform to the latest Rack Manufacturers Institute (RMI) specifications and AISC 14th Edition.

Refer to unarcorack.com for latest updates to installation instructions, user manuals and safety notices.

Engineered Systems

UNARCO has over a half century worth of experience designing and manufacturing highly engineered rack systems including Pick Modules, Rack Supported Buildings and AS/RS projects. The industry's strongest engineering team integrates a multitude of storage solutions into multi-level work platforms including UNARCO Carton Flow, Pallet Flow, Push Back and Drive-In Systems.

Integration of miles of conveyor and sortation systems that help product flow through the distribution center are all supported by UNARCO pallet rack. Level after level of high speed product movement from pallet to carton to conveyor to the dock, all works because UNARCO Engineers have the experience to plan and design a complete distribution system.



Conveyors run through multi-level racksupported systems for product sortation

AS/RS

Automated Storage and Retrieval Systems (AS/RS) are computer controlled systems for storing and retrieving large quantities of products with virtually no manual labor. AS/RS systems can store and retrieve pallets, totes, trays or cartons. Systems use cranes to move through narrow aisles of pallet rack guided by a raised metal rail attached to the concrete. An automated mechanism reaches into the storage locations within the rack to retrieve or place the load. AS/RS provides order picking accuracy at a higher speed than traditional picking systems.

Large cranes run on rails in the aisles to store and retrieve product automatically.



Order Fulfillment and Distribution

Center Efficiency

SINGLE SOURCE

- Calculations
- Permitting
- Codes Interpretation
- Seismic Criteria
- Installation Drawings
- Site Surveys
- Purchase Integration
- Project Management
- Turn-Key Solutions



Integrated stairs and work platforms help product breakdown from pallet to carton to piece for easy order fulfillment.

Pick Modules

Pick Modules are multi-level engineered racking systems that store and move pallets and cartons through a distribution center efficiently.

UNARCO designs warehouse storage facilities capable of fulfilling over one hundred thousand orders per day or processing millions of orders per week.

- Efficient product distribution
- Smaller warehouse footprint
- Lower operating costs



UNARCO flooring systems support multiple layers of order picking and sortation equipment.

Carton Flow



Carton Trax steel axle carton flow with UPICK knock-down modular shelves.

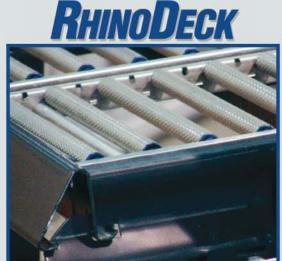
All of UNARCO's carton flow systems are gravity driven. Product is loaded from behind onto sloped shelves and easily flows forward to the picking position. UNARCO offers UPICK modular shelves or KPICK welded shelf design; both with snap-in rollers. UNARCO's premium carton flow line, RHINOTRAC, has pre-assembled, full-width lay-in roller units.

Separation of the loading, restocking and retrieval aisles allow pickers to operate more efficiently. Carton flow systems can grow into multi-level modules to take full advantage of vertical area and let you maximize your warehouse floor space.



RhinoTrac lanes allow cartons to flow forward to picking position at conveyor with full-width roller carton support.

- First-in/First-out
- Dedicated Stock/ Retrieval Aisles
- Split Case Picking
- Case/Carton Picking



RhinoDeck with 1.1" high galvanized steel side channels will drop into any existing carton flow system with no hardware or hanger brackets required.

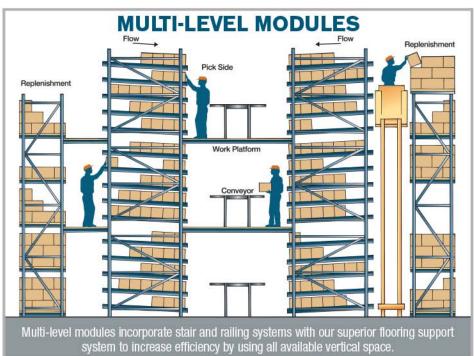






CARTON T

STEEL AXLE PREMIUM CARTON FLOW





UPICK Snap-In Roller Track Modular/Knock-Down Shelves



KPICK Snap-In Roller Track Factory Welded Shelves



RhinoTrac Full-Width Carton Flow Roller

UNARCO manufactures traditional snap-in roller track and full-width lay-in roller units

RHINOTRAC HEAVY-DUTY CARTON FLOW



RhinoTrac rests below beam level in the front for maximum storage and a helpful product stop.

- Compatibility with all pallet rack brands
- Easy installation

 No hardware
 required
- Damage resistant aluminum rollers
- Galvanized side channels supported by heavy-duty endplates for constant impact loading

RHINOTRAC END SUPPORTS

- Integrated supports mean no brackets to install
- Slotted end supports adjust to vary the length and insure proper fit







STURDY CONSTRUCTION

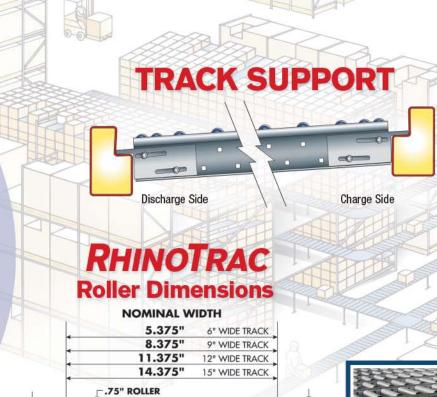
- .75" diameter aluminum, diamond embossed, damageresistant rollers
- Superior bushing design with heavy-duty axles
- 2.5" high galvanized steel side channels with .25" diameter carriage bolt tie rods for increased capacity



STANDARD ROLLER WIDTHS: 6", 9", 12", 15"

STANDARD ROLLER CENTERS: 1", 2" and 3" on center







carton flow - rhinotrac

www.rhinotrac.com



OPTIONS

6" WIDE TRACK

9" WIDE TRACK

12" WIDE TRACK

15" WIDE TRACK

7.25"

10.25"

13.25"

16.25"

OVERALL WIDTH



2.5" SIDE CHANNEL HEIGHT

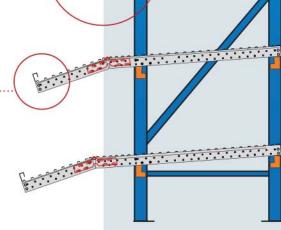


2.625" TO TOP OF ROLLER



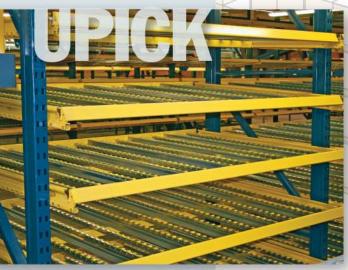


External





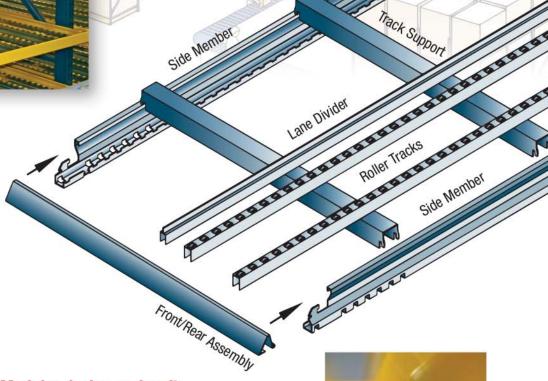
Carton Flow UPICK MODULAR DESIGN COMPONENTS



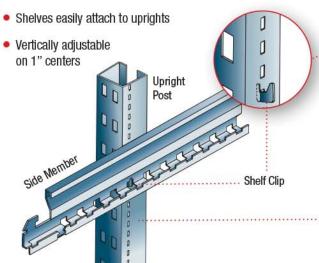
UNARCO's UPICK modular system makes installation of even the most complex modules simple.

- Modular design for shipping ease
- Quick and easy installation
- Designed for projects ranging from singlelevel to multi-level modules
- Easily modified as product sizes or capacities change
- May be added to existing rack
- Easily works around building columns





Modular design makes it simple to add shelves or supports

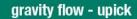


Shelf Clip



UPICK Side Punching

UNARCO also offers W-Strip retrofit add-on for existing uprights with no side punching.



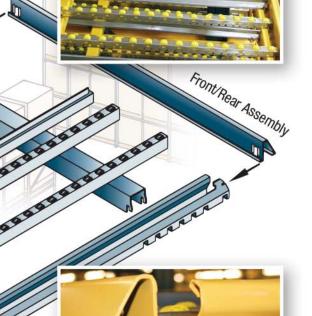




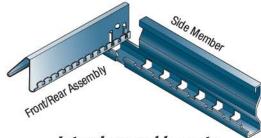
Carton Trax steel axle carton flow track







All parts snap together with minimal hardware



Interchangeable parts make installation and ordering less confusing

- · Front and rear assembly are interchangeable
- Side members are not left and right specific



Side Profile - Lay-Back Shelves

Carton Flow KPICK WELDED SHELF COMPONENTS

UNARCO KPICK is a welded shelf carton flow option which requires no shelf assembly and fits with all Kingway carton flow. Inclined shelves have snap-in roller track to move cartons by gravity from the restocking to the picking side of the system.

A full range of components are available to customize the system to every customer's needs. Standard bays can combine with overhead storage options or mezzanine capabilities for pick module applications.

Customization is easy as load requirements and box sizes change. Assembly is logical and requires no special tools.





- Designed for multiple configurations to optimize space.
 - Mulit-level systems offer substantial savings in floor space.



- Snap-in track
- Numbered scales for rapid assembly
- Precision slots







Square front vertical frame with straight shelves.

Full case picking



10° layback vertical frame with straight shelves.

Open case picking when cases vary in size



10° layback vertical frame with carton tilt shelves.

Open case picking with similar size cases



Optional impact deck helps prevent track damage.

	60" DEEP BAYS	90" DEEP BAYS	120" DEEP BAYS					
STANDARD Bay								
WITH PALLET BARS								
WITH OVERHEAD STORAGE RACK								
	180" AND 240" DEPTHS ARE ALSO AVAILABLE							



Optional numbered scales for rapid assembly.

Shelf Hanger Clip

Unique clip fits into a single slot to attach the pre-assembled, welded shelf. No tools are required.



Snap-in track

Roller Track

Allows movement at the lowest slope angle to maximize space utilization.

Pallet Flow

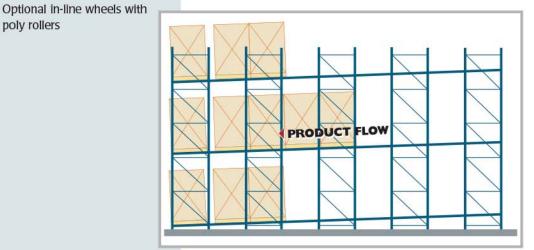
UNARCO's Pallet Flow system is also driven by gravity. It is perfect for fast-moving product with first-in/first-out stock rotation.

Heavy-duty skate wheels on sloped shelves let palletized loads flow forward for picking. The high-density storage utilizes warehouse space with fewer aisles.



Pallet flow rails are notched to rest on the step of the beam for a lower profile that protects ends of flow rail

- Full case picking
- Dense storage with minimal aisles
- Able to accommodate full pallet loads
- Heavy-duty skate wheels provide excellent rolling surface for loads to flow

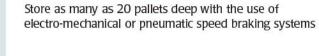


DEEP LANE PALLET FLOW



PALLET FLOW

poly rollers





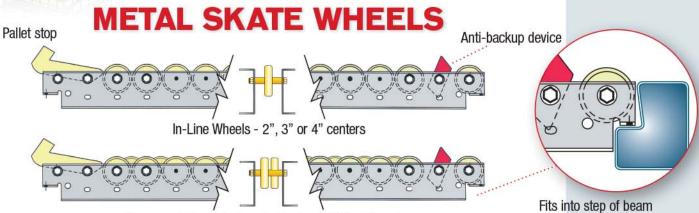


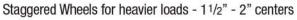


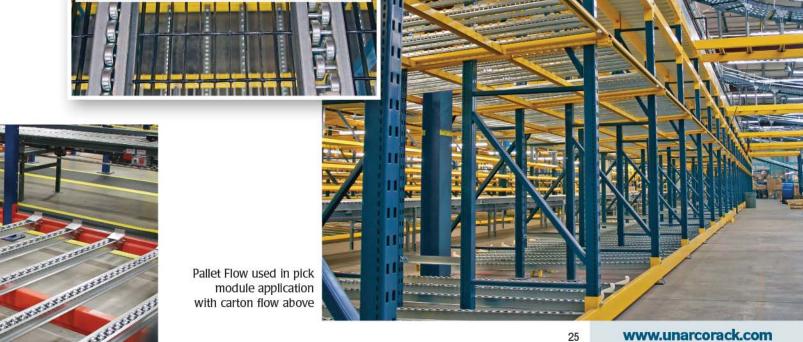
Poly-wheel deep-lane pallet flow is available in single or staggered wheel configurations to fit any load.

Pneumatic brakes control pallet speed

Pallets rest against pallet stop







Push Back

Push Back systems work when pallet loads rest on a series of nesting carts. As a pallet is loaded from the front, it pushes the pallet behind it back one position. When it is time to unload (LIFO), the front pallet is removed and the rear pallets come forward to the front picking position, automatically.



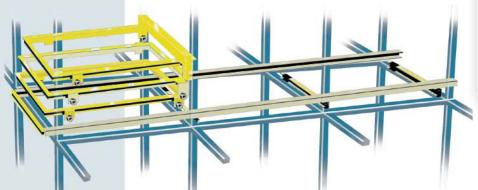
Colored carts let drivers identify pallet positions to help place and retrieve pallets in the system.

Available in Structural Steel or Roll-Formed designs



- Available in 2, 3, 4, 5 and 6 deep configurations
- Lift truck drivers never enter the rack
- Nesting carts require minimal vertical space
- Product loads are always in picking position
- No special pallets are required
- Suitable for coolers and freezers with temperatures as low as -30° F

Product loads flow automatically to front picking position.





Bottom view of nesting carts



Carts nest together and pallet is loaded onto top cart. The final pallet rests on rails and allows all pallets from behind to come forward when pallet is removed.



The Benefits of a Push Back System

- Better floor space utilization
- Front loading only
- Automatic pallet placement to front position
- · Versatile more pick faces

4-deep system



Carts flow automatically on four sealed wheels



Strong structural sides and rails



STANDARD PALLET RACK



3-DEEP PUSH BACK SYSTEM



6-DEEP PUSH BACK SYSTEM

Drive-In

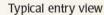
Pallets are placed on rails that run the depth of the rack. Drivers then enter the rack to remove pallets. Drive-In is perfect for high-density storage with minimal space devoted to aisles.

Drive-In: Load and retrieve from same side (LIFO)

Drive-In and Drive-Thru ROLL-FORMED OR STRUCTURAL

- Used for high-density pallet storage
- Depth of systems reduces the need for aisles and increases space utilization
- Specifically for uniform pallet loads
- Easy to assemble
- Cost effective







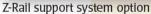
Pick

Aisle

and

Load Aisle







Structural angle rail option

Drive-Thru

As with Drive-In, pallets are placed on rails that run the depth of the rack.

Drive-Thru, however, allows drivers to load from one side and unload from the other with an added aisle on the opposite end. This system creates First-In/First-Out (FIFO) inventory management.

Drive-Thru: Load from one aisle, retrieve from separate aisle (FIFO)

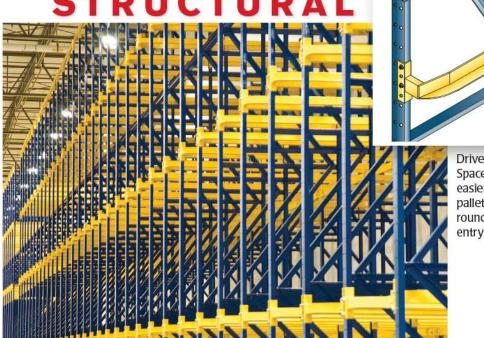
Sloped leg structural upright option



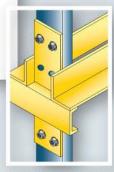
Pallets rest on rails within the bay.

DRIVE-THRU Pick Aisle

Separate load and unload points allow greater flexibility (FIFO)



Drive-In Rail with Space Saver Arm for easier placement of pallets (shown with rounded and flared entry rail)



drive-in/drive-thru

Straight entry rail option for structural

Cantilever

UNARCO Premium Cantilever is the perfect storage solution for elongated materials and tough storage applications. The system allows complete accessibility from the front with no horizontal obstructions. The entire length of the rack may be used for storage and easy order picking.

Flexible systems allow loads of varying length to be stored on the same rack and columns are pre-punched to easily convert from single-sided to double-sided applications. The Key Wedge connector allows arms to be moved easily as load requirements change.

Ideal for:

Pipe and Tubing
Lumber & Plywood
Building Materials
Furniture
Sheet Steel
Conduit
Extrusions

ROLL-FORMED



Full access to stored material with no obstructions



Furniture storage cantilever

Easy Installation:

into place as a single unit.

Welded one-piece column and base systems make assembly a snap. Cantilever arms

lock into the down position and are raised



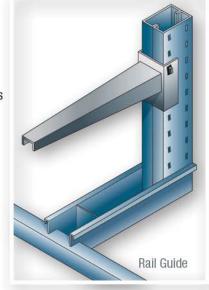




Tapered columns prevent arms from protruding into the aisles under maximum load deflection.

Slotted Base Design

The slotted base design notches around rail systems to maximize aisle width and help operators move lift trucks safely through narrow aisles.



Tapered Arms

Improved vertical load clearance





Key-Wedge Pin

Positive-locking rectangular pin allows a fast-track installation and a larger bearing area than round pins or bolts.

cantilever

Flexible Design

- Single-sided or double-sided storage
- Columns up to 48 feet
- 3" vertical adjustability
- Tapered arms
- Heavy-gauge welded brace panels

SINGLE OR DOUBLE-SIDED STORAGE

Flexibility

Columns are pre-punched on both sides to allow conversion from single-sided unit to double-sided unit.





Lumber Yard

Convert your lumber yard into a covered showroom with UNARCO's canopy arms and roof system.

Custom Storage Accessories

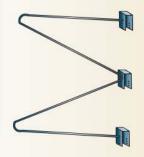
Optional material trays can hold bar and cylindrical stock.

Retail

UNARCO has been supplying pallet rack to the retail industry for many years, not only on the distribution center side, but also on the sales floors of home centers and warehouse style stores. Our store fixtures are versatile, space saving and feature your product with maximum room for the stock levels required. Inventive designs lead to simple installation and allow for flexibility as your product changes.



Separate pipe or tubing stored vertically



M-DIVIDERS

- Attach to rear beams
- Available up to 72" tall
- Light-duty: 3/8" wire
- Medium-duty: 1" tubing
- Heavy-duty: 2" tubing

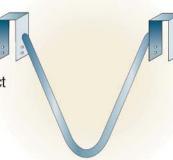
V-DIVIDERS

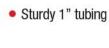
vertically

Hang down to separate tall product

Separate wooden boards stored

- No additional rear beams required







- Keeps lumber in orderly stacks
- Two separate units to contain any length product
- Customers able to pick product without worry of stacks falling





TOOL HOLDERS AND DIVIDER ARMS

- Single arm
- Double arm
- Available with price signage plate

Retail



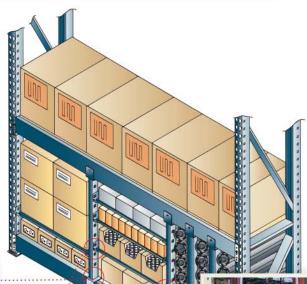
Divider Arms separate vertically stored product.

Double-Arm Tool Holders provide support and organization for both long and short handled tools.



VERTICAL POST SYSTEM

- For maximum storage versatility within a bay when carton sizes are not uniform
- Can be added to existing rack
- Displays merchandise variety without adding a beam level



Vertical posts may be mounted to the beam below or anchored to the floor

Side shelf support rail

A pair of side support rails with snap-in tabs make a shelf

Plywood or other decking surface rests on either side

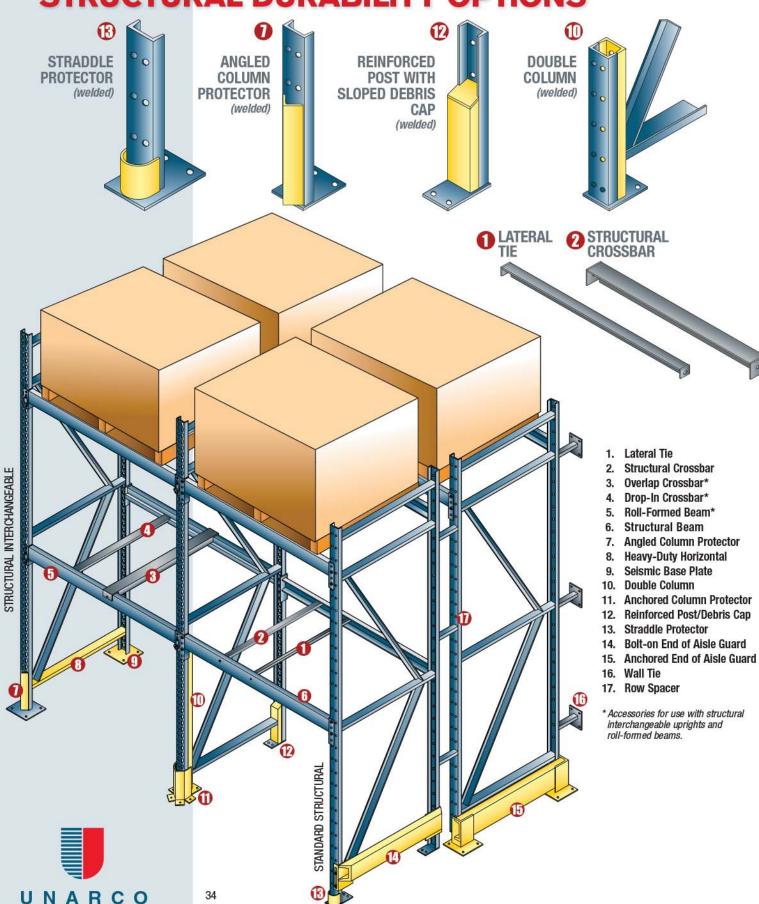


- V-Dividers
- Lumber Cradles
- Tool Holders
- Divider Arms
- Vertical Post Systems

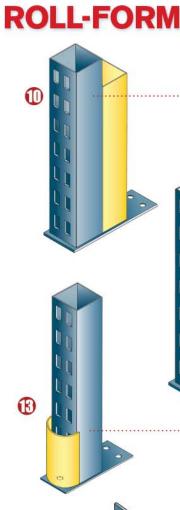


Upright Rack Safety Options

STRUCTURAL DURABILITY OPTIONS



ROLL-FORMED DURABILITY OPTIONS



DOUBLE COLUMN

 Two posts welded together help protect against damage

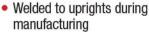


rack safety options

WOOD-FILLED UPRIGHTS

 UNARCO's patented design lets the wood absorb the shock of impact and limits damage to column







Durable 1/4" thick steel





- Provides impact resistance
- · Anchored to floor: for designs with no side punchina
- Bolted to upright: for interchangeable rack with side punching
- Front-bolted Straddle Protector
- Available in 12", 18" or 24" high

WEATHER RESISTANT

Hot dipped galvanized

finish available on any

pallet rack order for

freezer or outdoor

usage

Rack Hardware

BOLT-ON

CROSSBARS

BOLT-ON STRADDLE

Overlap crossbars provide pallet support

ANCHORED

- Pre-galvanized (not painted)
- · Available in a variety of gauges depending on required capacity OVERLAP

BACK CONNECTORS

- Available in 6", 8", 10", 12", 18"
- Pre-galvanized (not painted)
- Includes (2) T-Bolts and whiz nuts



SHIM PLATES

· All rack on unleveled floors should be leveled with shims



Available in multiple sizes and thickness

Upright Rack Repair

MORE ABUSE RESISTANT THAN THE ORIGINAL UPRIGHT

MINIMAL FACILITY INTERRUPTION REDUCE MAINTENANCE COSTS

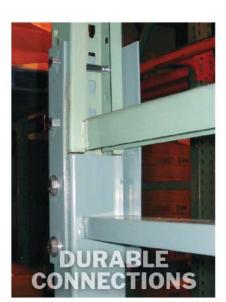
Before attempting to repair damaged rack and to insure rack capacities are adequate, please consult UNARCO Engineering.

Rack repair kits should only be installed by trained personnel.

Let UNARCO set up a scheduled inspection and maintenance program to help insure the safety of your warehouse.

Trained technicians can install bolt-on options to fix low-level damage with specially designed repair kits.

- Engineered repair options
- In most cases no welding is required
- Installs easily into existing rack of most manufacturers
- Available in structural channel or tubular roll-formed versions





Bolt-on sloped leg option gets the upright out of the forklift traffic path to prevent repetitive damage.



Welded option available for uprights with no side holes.

STANDARD STRAIGHT-LEG REPAIR KIT

Shown with welded straddle **SLOPED-LEG** column protector.

Roll-formed options allow beam placement at lower levels.

REPAIR KIT

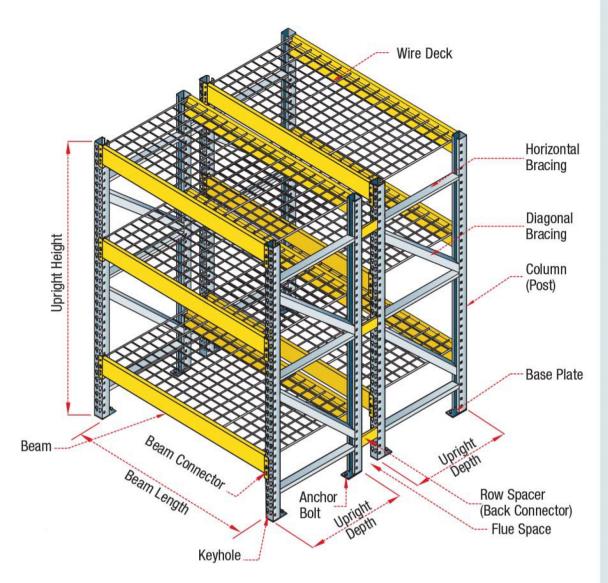
Optional Sloped-Leg Kit angles the front leg of the upright to improve aisle clearance (not recommended for single rows of rack).





HEAVY-DUTY BRACING

Components Of A Rack System



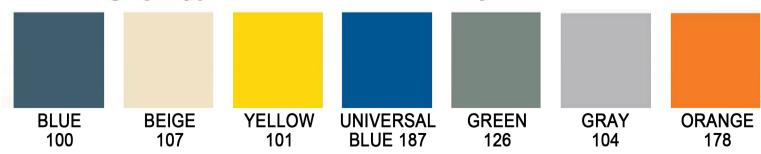


In-Stock and Ready to Ship Order Online: Phone, Tablet, Computer Anytime - Anywhere with Mobile Rack Warrior



UNARCO Standard Colors

High-quality powder coated finishes for durability and rust resistance





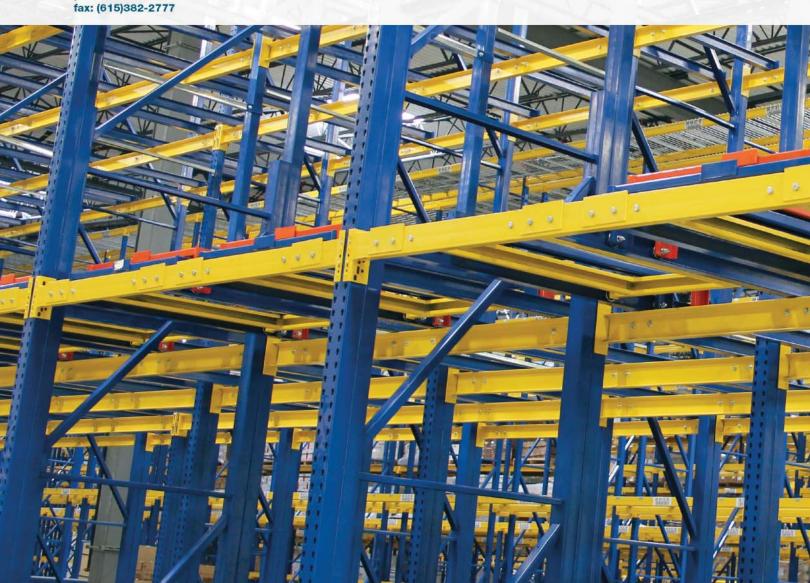
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