



UNARCO MATERIAL HANDLING, INC.

701 16th Avenue East Springfield, Tennessee 37172

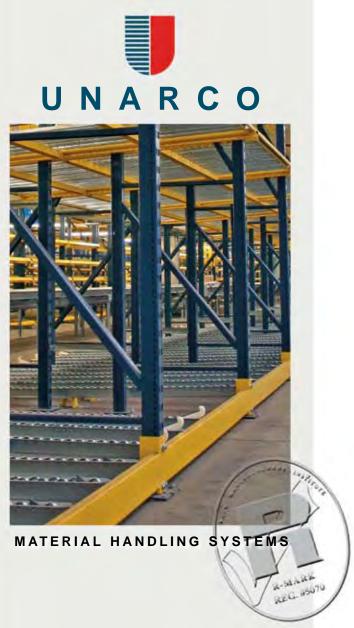
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PRODUCTS CATALOG

COMPLETE PRODUCT SELECTION INCREASED PRODUCTION

TOTAL MARKET COVERAGE

UNARCO MATERIAL HANDLING, INC.

UNARCO was the first pallet rack manufacturer in the industry. With over fifty 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.



SPRINGFIELD, TENNESSEE













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



Single-Source Capability

UNARCO handles projectsfrom the simplest warehouseto the most complex pickmodule. Our team of qualifiedengineers can solve anyapplication issue presented.We have big ideas for eventhe smallest warehouse.When coupled with projectmanagement and installationservices, you can leave thecoordination to us. Put yourproject in our hands and letinnovation work for you.











PROJECT MANAGEMENT





UNARCO

4

DRIVE INFORTVE-THRU

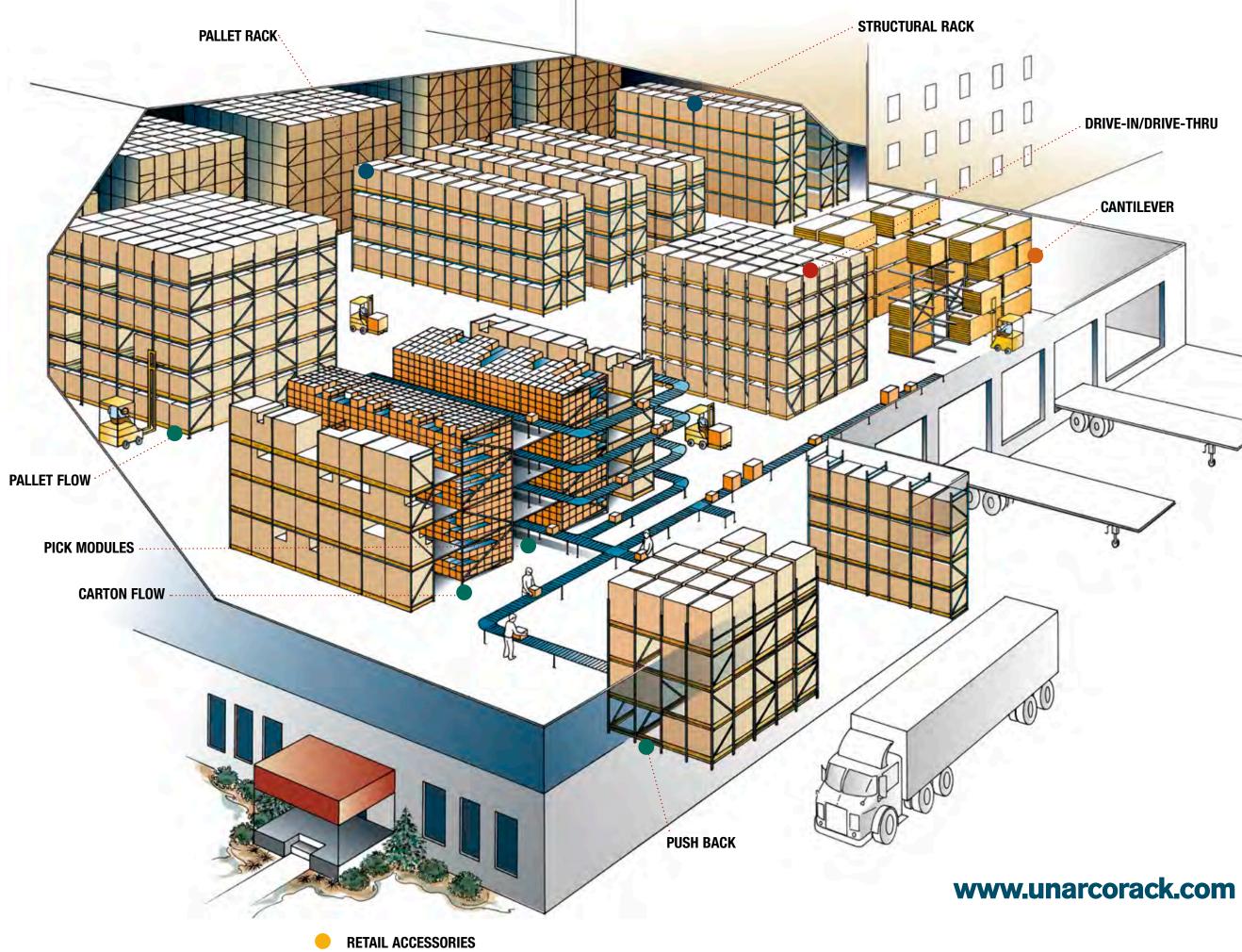
PALLET RACK



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 to push back, we manufacture rack systems to increase your warehouse productivity.

Selective Pallet Rack Roll-Formed Structural

- Pick Modules
- Carton Flow
- Pallet Flow
- Push Back
- Drive-In/Drive-Thru
- Cantilever
- Rack Repair
- Retail Accessories



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Selective Pallet Rack ROLL-FORMED



UPRIGHTS Shown with optional Shown with optional side punching seismic base plate **INTERCHANGEABLE Non-Bolted Connection** 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

Pallet Rack: See pages 10-11 for available column sizes and capacities

U.S. Patent #5.624.045 Gravity Locking Device

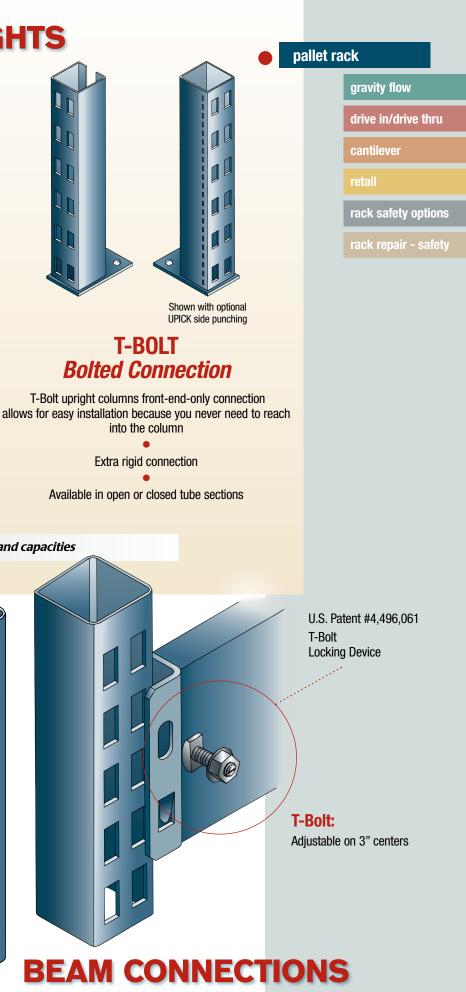
T-Bolt

Interchangeable: Adjustable on 2" centers

8

UNARCO

column



www.unarcorack.com

Selective Pallet Rack COMPONENTS

ROLL-FORMED UPRIGHTS

GENERAL UPRIGHT CAPACITY GUIDELINES FOR T-BOLT UPRIGHTS

SUP	SUPERPOST 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"	26,564	34,714	41,254	32,023	43,716	52,950	65,590	51,903	66,396	86,429
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-BOLT									
COLUMN SIZE	3 x 1 ⁵ /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 www.unarcorack.com for latest updates to installation instructions and user manuals.

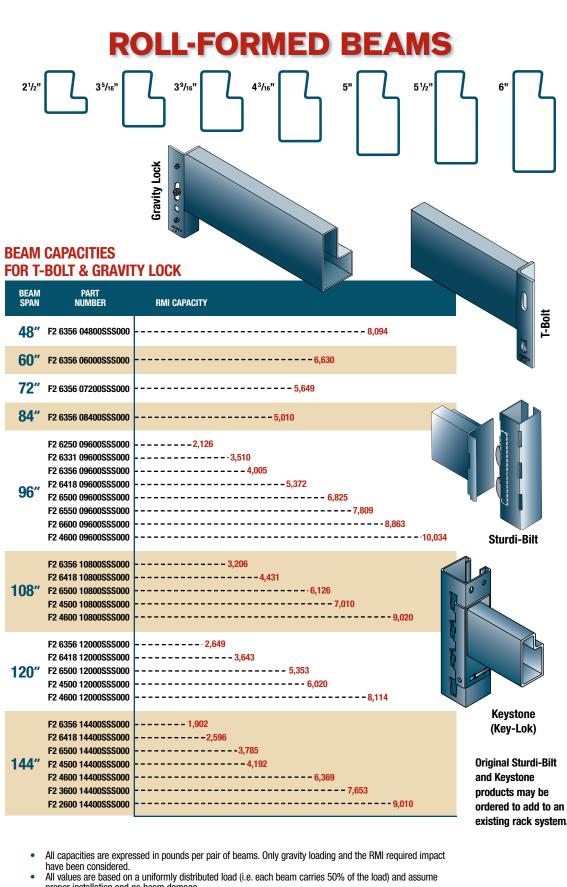
CONTACT THE UNARCO SPRINGFIELD OFFICE FOR ANY OF THE FOLLOWING CONDITIONS:

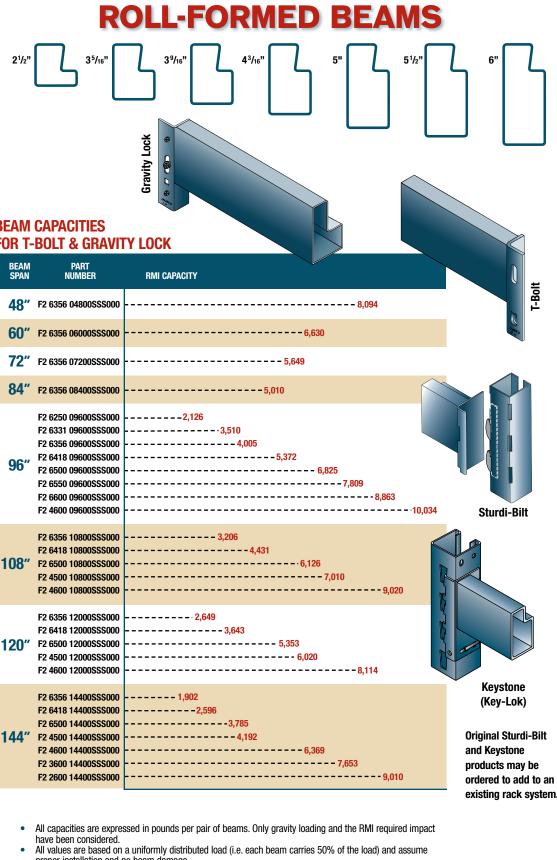
- Any application where the frame load exceeds 31,000 lbs. (23,600 lbs for 3 x 1.625 columns or 28,700 lbs. for 3x2 column). These frames may need larger base plates or heavier bracing.
- Any application that requires seismic design where the design ground acceleration is greater than 0.05g or if Ss 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.

Column capacities shown are for T-Bolt uprights. Please see pallet rack brochure or contact UNARCO for Interchangeable varieties or uprights with side punching.

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







- proper installation and no beam damage.
- The deflection limit for all beams is the length divided by 180.
- 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 exceeds 0.05g or if 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

UNARCO

pallet rack

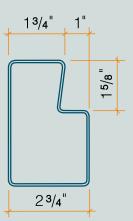
gravity flow

drive in/drive thru

cantilever

rack safety options

rack repair - safety



UNARCO rack designs conform to the latest Rack Manufacturers Institute (RMI) specifications and AISC Cold Formed Steel Design Manual using "Load and Resistance Factor Design" (LRFD) method.



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.

HIGH-STRENGTH STRUCTURAL STEEL

UNARCO Structural Racks are designed to prevent damage from forklift abuse. The posts are constructed from structural steel and are much thicker than roll-formed posts, particularly at the corners which are the primary impact points.



Automated Storage and Retrieval Systems

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1

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0

0

6

1

0

Structural upright

with roll-formed

beam

Structural upright with structural beam

STRUCTURAL BOLTED

Heavy-duty 3" or 4" structural steel C-Channels have pre-punched bolt holes on 4" centers. Structural steel beams include beam connectors that are punched on 2" centers for 2" vertical beam adjustability

beam

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
- Ductility
- Easily Repaired
- Abuse Resistant
- Heavy-Duty Structural Bracing

STRUCTURAL INTERCHANGEABLE

Heavy–duty 3["] structural steel C-Channels have prepunched teardrop openings on 2" centers. This design combines the ruggedness of structural steel uprights and the option of adding efficient roll-formed step beams. \bigcirc J. \bigcirc Structural upright with roll-formed beam Structural upright with structural Structural posts with interchangeable punching

Structural Pallet Rack: See pages 14-15 for structural capacities



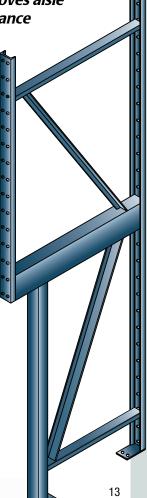


FRAME OPTIONS

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

• Improves aisle clearance



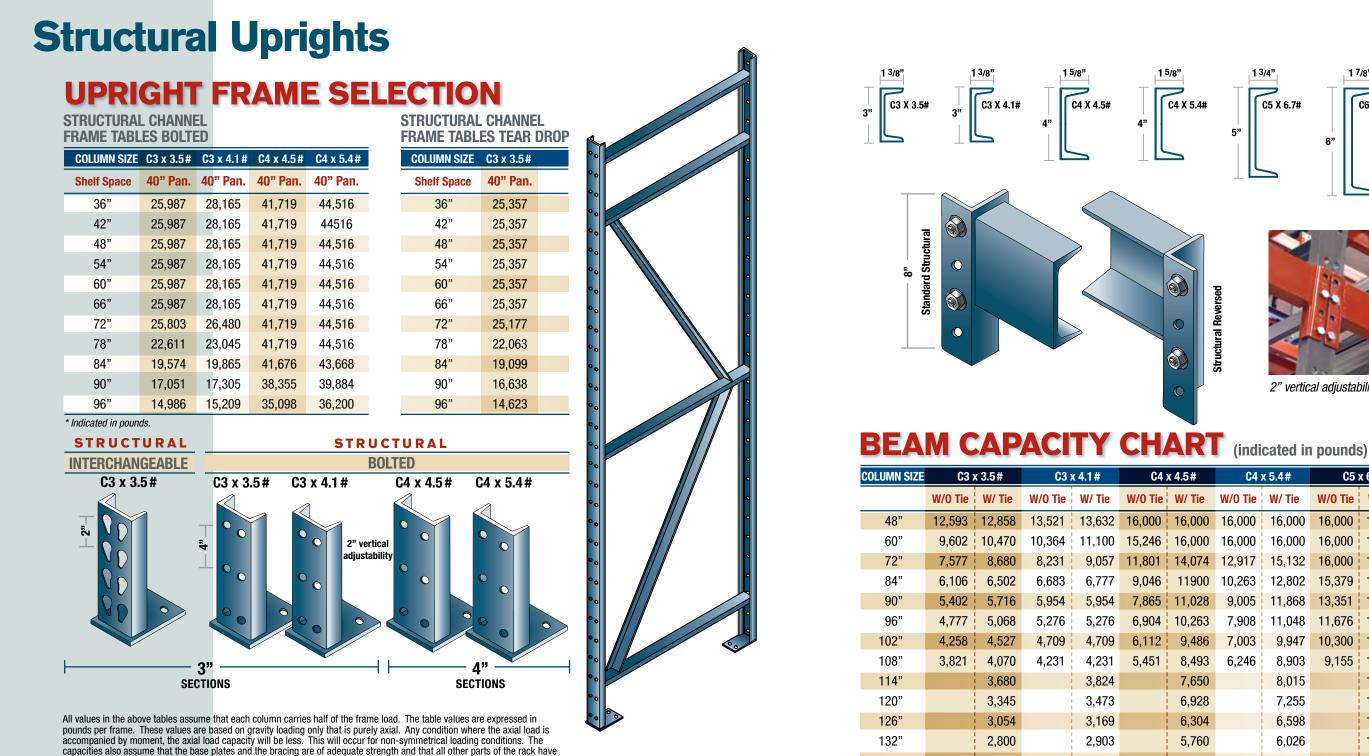


SLOPED LEG Sloped leg option moves the base away from forklift traffic.

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.



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 THE UNARCO SPRINGFIELD OFFICE 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.

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

Please consult Springfield Engineering for any shelf load over 10,000 lbs.

2,577

2,379

2.203

2,046

The deflection limit for all beams is the length divided by 180.

For one pallet per shelf, the values should be multiplied by 0.90.

Manual using "Load and Resistance Factor Design" (LRFD) Method.

Beams that are longer than 108" require lateral ties. Values in the table are for the beam bending only.

Capacity chart is based on current RMI specifications.

138'

144"

150"

156"

UNARCO

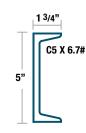


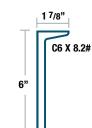
1 5/8"

1 5/8'

C3 x 4.1#

C4 X 4.5#







Ì



2" vertical adjustability

_									
x	4.1#	C4 :	C4 x 4.5 # C4 x 5		x 5.4#	5.4# C5 x 6.7#			k 8.2#
Ì	W/ Tie	W/O Tie	W/ Tie	W/O Tie	W/ Tie	W/O Tie	W/ Tie	W/O Tie	W/ Tie
ł	13,632	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000
ł	11,100	15,246	16,000	16,000	16,000	16,000	16,000	16,000	16,000
į.	9,057	11,801	14,074	12,917	15,132	16,000	16,000	16,000	16,000
ł.	6,777	9,046	11900	10,263	12,802	15,379	16,000	16,000	16,000
į.	5,954	7,865	11,028	9,005	11,868	13,351	16,000	16,000	16,000
ł	5,276	6,904	10,263	7,908	11,048	11,676	16,000	15,871	16,000
į.	4,709	6,112	9,486	7,003	9,947	10,300	15,580	13,941	16,000
ł	4,231	5,451	8,493	6,246	8,903	9,155	14,577	12,344	16,000
į.	3,824		7,650		8,015		13,678		16,000
ł	3,473		6,928		7,255		12,867		16,000
i.	3,169		6,304		6,598		12,133		16,000
ł	2,903		5,760		6,026		11,163		16,000
i.	2,669		5,285		5,525		10,222		15,444
ł	2,463		4,865		5,084		9,395		14,619
į.	2,279		4,494		4,692		8,663		13,859
ł	2,114		4,163		4,344		8,012		13,156

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.

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.

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

pallet rack

gravity flow

drive in/drive thru

cantilever

retail

Carton Flow



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 full-width lay-in roller units.

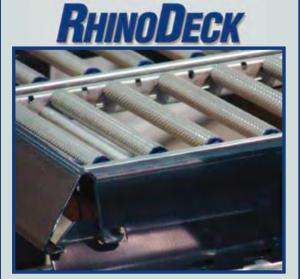
Separation of the loading, restocking and retrieval aisles allows pickers to operate more efficiently. Carton flow systems can grow into multi-level modules to take full advantage of vertical space and let you maximize your warehouse floor space.



UPICK modular system shown with optional impact shelf prevents track damage when boxes are placed in lanes on load aisles.

• First-in/First-out

- Dedicated Stock/ Retrieval Aisles
- Split Case Picking
- Case/Carton Picking



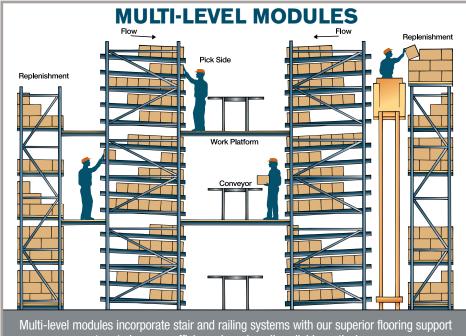
RhinoTrac lanes allow cartons to flow forward to picking position on opposite aisle with full

width roller carton support.

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







system to increase efficiency by using all available vertical space.

pallet rack

gravity flow

drive in/drive thru

cantilever

rack safety options



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 or full-width lay-in roller units

RHINOTRAC HEAVY-DUTY CARTON FLOW

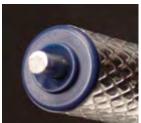


RhinoTrac rests below beam level in the front for maximum storage and a helpful product stop.

- 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"

ROLL-FORMED

STRUCTURAL

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

RHINOTRAC **Roller Dimensions**

Discharge Side

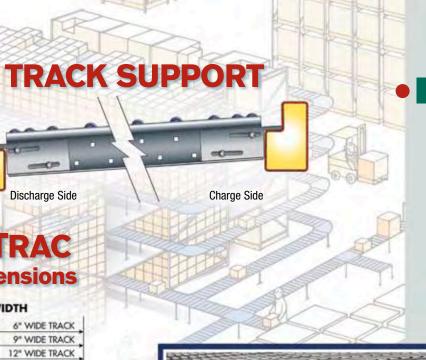
5.375"	6" WIDE TRACK
8.375"	9" WIDE TRACK
11.375"	12" WIDE TRACK
14.375"	1.5" WIDE TRACK
.75" ROLLER	Contraction of the
<u></u>	
7.25"	6" WIDE TRACK
7.25" 10.25"	6" WIDE TRACK 9" WIDE TRACK





Knuckle Shelf

18



pallet rack

gravity flow

drive in/drive thru

cantilever



Carton Flow UPICK MODULAR DESIGN COMPONENTS

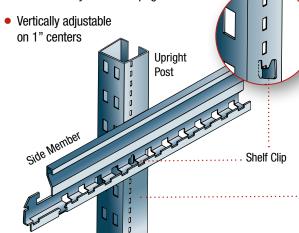


UNARCO's UPICK modular system makes installation of even the most complex modules simple.

- 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

Front/Rear Assembly Modular design makes it simple to add shelves or supports

• Shelves easily attach to uprights





RULE TROVS

Roller Tracks sessions and a session of the session

Shelf Clip



UPICK Side Punching

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









- Side members are not left and right specific

• Front and rear assembly are

interchangeable

Interchangeable parts

make installation and

ordering less confusing

All parts snap together

with minimal hardware

 $\mathbf{\Sigma}$

20

UNARCO



Steel axle track available as an option

Front Tilt Tray tilts cases forward for easier picking and access

gravity flow

drive in/drive thru

cantilever

pallet rack

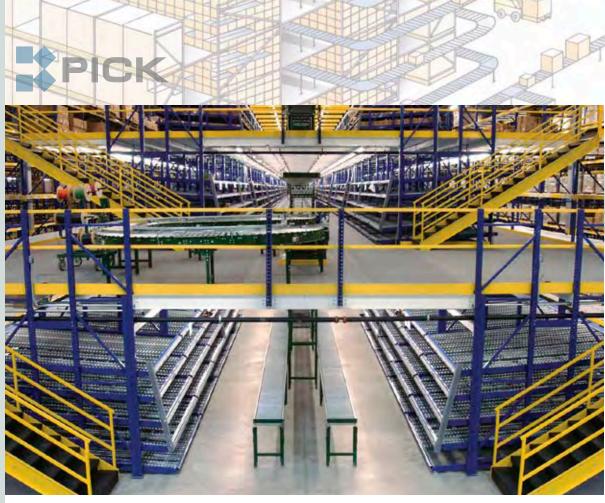
Side Profile - Lay-Back Shelves

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 each customer's needs. Standard bays can combine with overhead storage options or mezzanine capabilities for pick module applications.

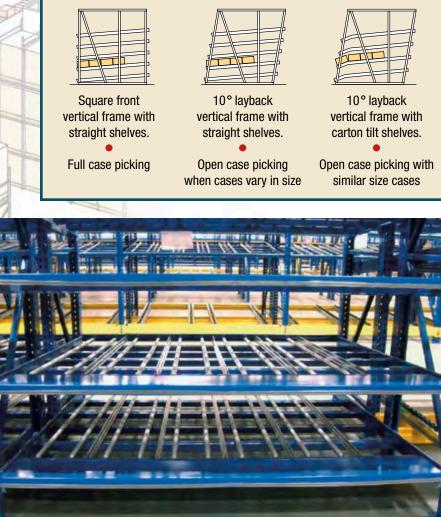
Customization is easy as load requirements and box sizes change. Assembly is logical and requires no special tools.



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



Standard Vertical Frame and Shelf Combinations



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							



Designed for multiple configurations to optimize space.



pallet rack

gravity flow

drive in/drive thru

cantilever

rack safety options



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.

Available Option

Numbered scales on shelf fronts for easy track location and lane profiling





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





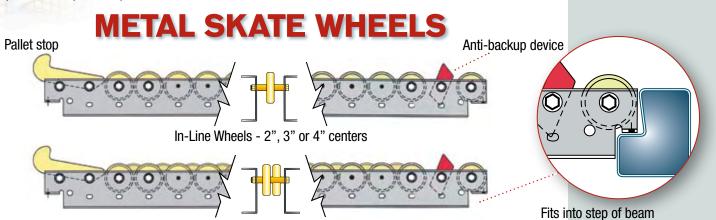


Poly-wheel deep lane pallet flow is available in single or staggered wheel configurations to fit any load. Pneumatic brakes control pallet speed

Pallets rest against nylon pallet stop Optional steel pallet stops available

1

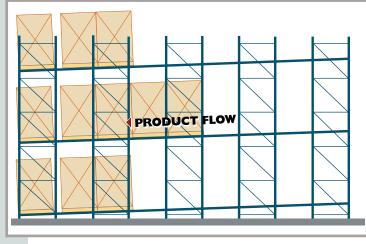
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Staggered Wheels for heavier loads - 11/2" - 2" centers

STAGGER

PALLET FLOW







24

pallet rack

gravity flow

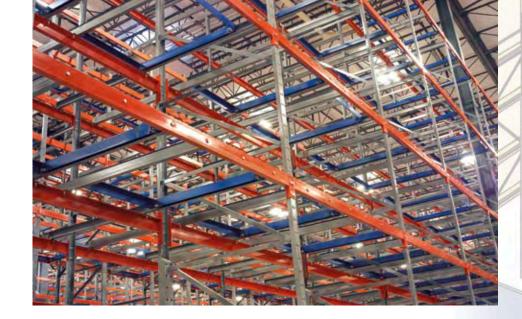
drive in/drive thru

cantilever



Push Back

Push Back systems work by putting pallet loads 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.



Available in Structural Steel or Roll-Formed designs



Product loads flow automatically to front picking position.

- 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

Side view of nesting carts beneath pallet.



The Benefits of a Push Back System

2-deep system



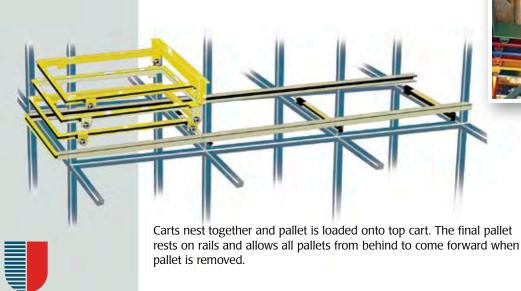
Carts flow automatically on four sealed wheels

Strong structural sides and rails









rests on rails and allows all pallets from behind to come forward when pallet is removed.

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UNARCO

pallet rack

gravity flow

drive in/drive thru

cantilever

rack safety options

• Better floor space utilization

• Front loading only

• Automatic pallet placement to front position

• Versatile - more pick faces



STANDARD PALLET RACK



6-DEEP PUSH BACK SYSTEM

Drive-In

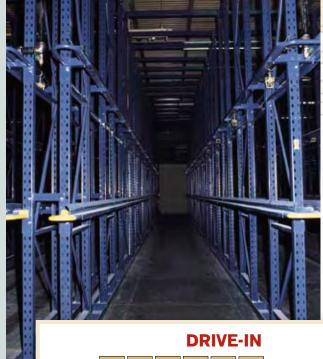
Pallets are placed on rails that run the depth of the rack. Drivers then enter the rack to remove pallets. Drive-in is perfect for high-density storage with minimal space devoted to aisles.

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

Load

Aisle

UNARCO



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

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Load Aisle

Double Entry Drive-In (LIFO)



Z-Rail support system option



Typical entry view

Structural angle rail option

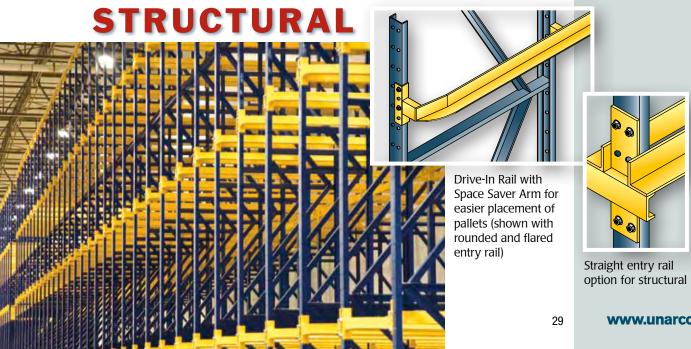
Drive-Thru

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 (FIF0) inventory management.

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







pallet rack

gravity flow

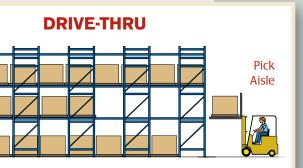
drive in/drive thru

cantilever

rack safety options



Sloped leg structural upright option



Separate load and unload points allow greater flexibility (FIFO)

www.unarcorack.com

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 doublesided 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



Flexible Design

double-sided storage

• Columns up to 48 feet

• 3" vertical adjustability

• Heavy-gauge welded

• Single-sided or

• Tapered arms

brace panels

Full access to stored material with no obstructions

Easy Installation:

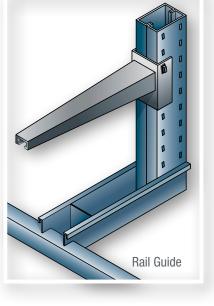
Welded one-piece column and base systems make assembly a snap. Cantilever arms lock nto the down position and are raised into place as a single unit.



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.



SINGLE OR DOUBLE-SIDED STORAGE

• Flexibility

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





Custom Storage Accessories Optional material trays can hold bar and cylindrical stock.

UNARCO



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.



Lumber Yard

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

pallet rack

gravity flow

drive in/drive thru

cantilever

Retail

UNARCO has been supplying retail 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 and space saving to feature your product with maximum room for the stock levels that you need. Inventive designs lead to simple installation and allow for flexibility as your product changes.





V-DIVIDERS

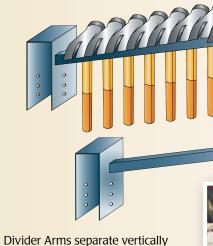
- Hang down to separate tall product
- No additional rear beams required
- Sturdy 1" tubing
- Brackets molded to beam shape to allow for decking above

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



stored product.



VERTICAL POST SYSTEM

Double-Arm tool holders provide support and organization for both

long and short handled tools.

- 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







- any length product
- Customers able to pick product without worry of stacks falling



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TOOL HOLDERS AND DIVIDER ARMS

Single arm

Double arm

• Available with price signage plate

pallet rack

gravity flow

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cantilever

Retail

rack safety options

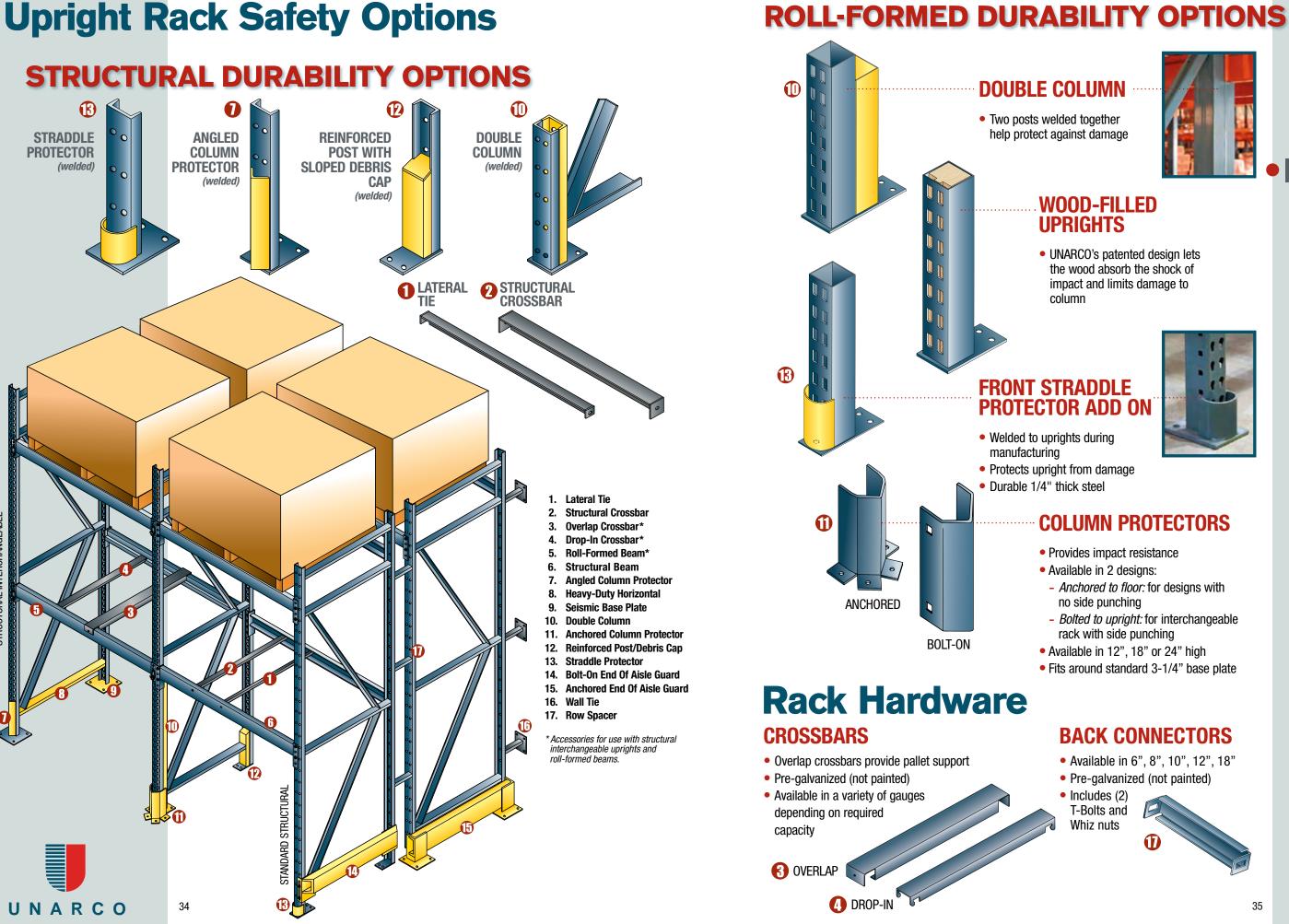
rack repair - safety

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

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

Plywood or other decking surface rests on either side







WOOD-FILLED UPRIGHTS

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



COLUMN PROTECTORS

 Provides impact resistance • Available in 2 designs: - Anchored to floor: for designs with no side punching - *Bolted to upright:* for interchangeable rack with side punching • Available in 12", 18" or 24" high • Fits around standard 3-1/4" base plate

BACK CONNECTORS

• Available in 6", 8", 10", 12", 18" Pre-galvanized (not painted)

 Includes (2) T-Bolts and Whiz nuts



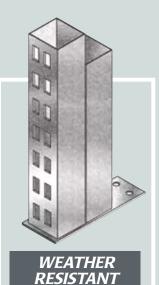
pallet rack

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Hot dipped galvanized finish available on any pallet rack order for freezer or outdoor usage

SHIM PLATES

• All rack on unleveled floors should be leveled with shims

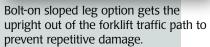


Available in multiple sizes and thickness

www.unarcorack.com

Upright Rack Repair







Roll-formed option on straight leg allows beams to be inserted at lower repaired levels.

RACK SAFETY

Trained technicians can install bolt-on options to fix low-level damage with

specially designed repair kits.

MINIMAL FACILITY INTERRUPTION REDUCE MAINTENANCE COSTS

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

Rack repair kits should only be installed by trained personnel.



Welded option available for uprights with no side holes

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

- IN MOST CASES NO WELDING IS REQUIRED
- INSTALLS EASILY INTO EXISTING RACK OF MOST MANUFACTURERS
- AVAILABLE IN STRUCTURAL CHANNEL OR TUBULAR ROLL-FORMED VERSIONS



