

# 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

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

Interchangeable

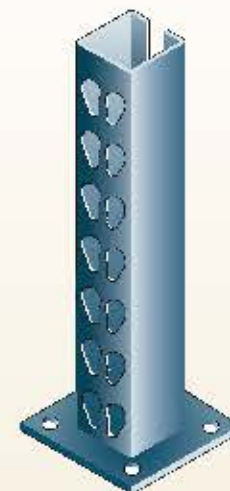
T-Bolt

## SUPERPOST CLOSED TUBE

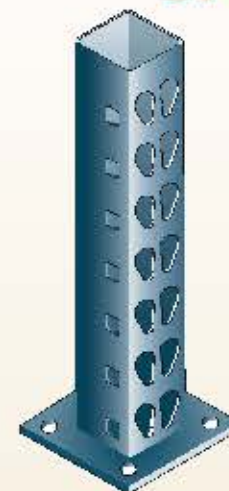
- 30% - 40% greater load capacities than same gauge open back design uprights
- Over 200 times more resistant to torsional forces
- Cleaner - no areas to trap dust and debris
- Resists frontal impact five times more than structural column



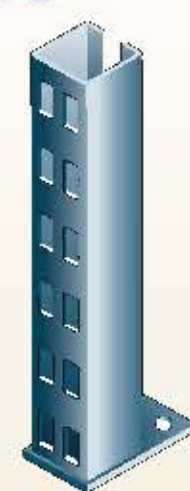
## UPRIGHTS



Shown with optional seismic base plate



Shown with optional side punching



Shown with optional UPICK side punching

### 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

### T-BOLT Bolted Connection

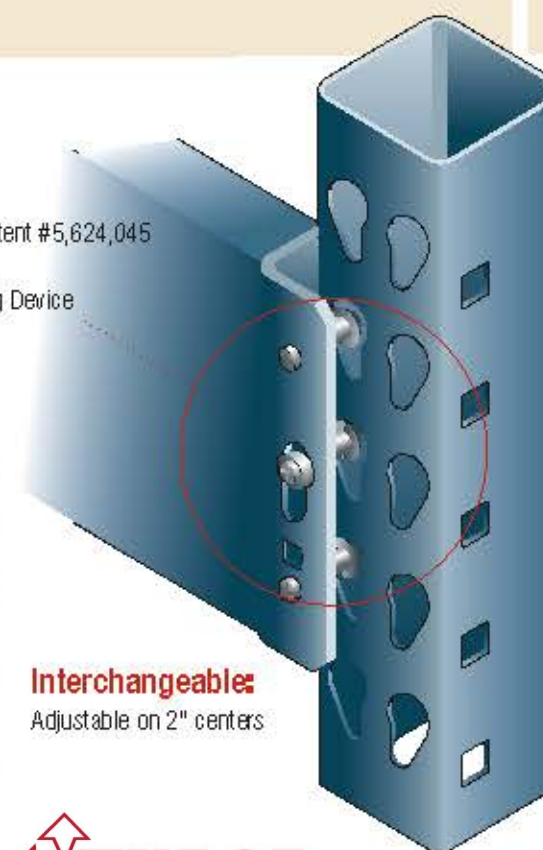
T-Bolt upright columns front-end-only connection allows for easy installation because you never need to reach into the column

• Extra rigid connection

• Available in open or closed tube sections

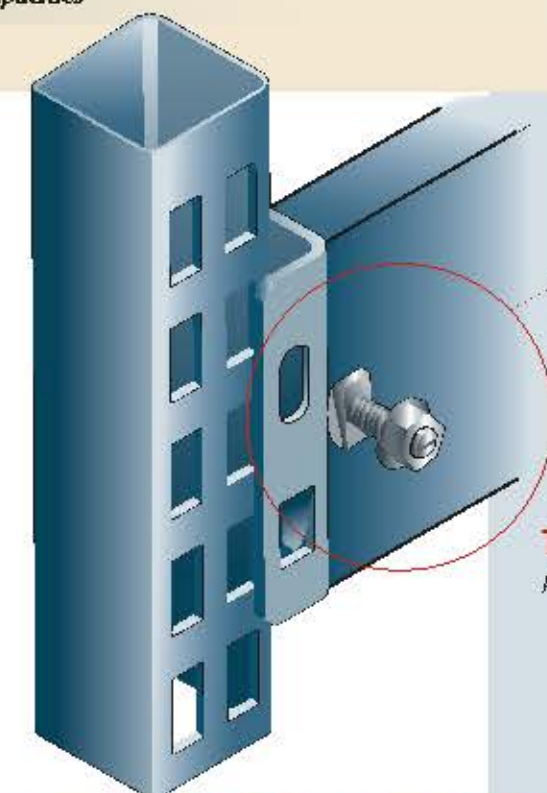
Pallet Rack: See pages 8-9 for available column sizes and capacities

U.S. Patent #5,624,045  
Gravity  
Locking Device



Interchangeables  
Adjustable on 2" centers

U.S. Patent #4,496,061  
T-Bolt  
Locking Device



T-Bolt:  
Adjustable on 3" centers

## BEAM CONNECTIONS





Selective Pallet Rack COMPONENTS

ROLL-FORMED UPRIGHTS

GENERAL UPRIGHT CAPACITY GUIDELINES FOR T-BOLT UPRIGHTS

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"	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-BOLT

COLUMN SIZE	3x1 5/8	3x1 5/8	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.

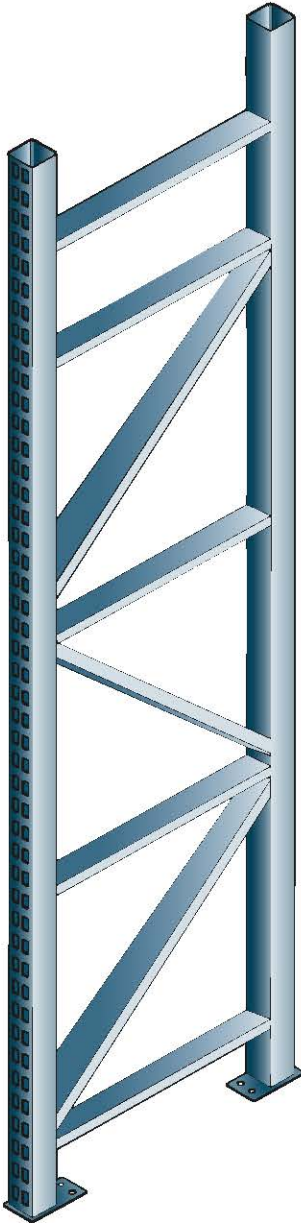
Refer to [unarcorack.com](http://unarcorack.com) for latest updates to installation instructions and user manuals.

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

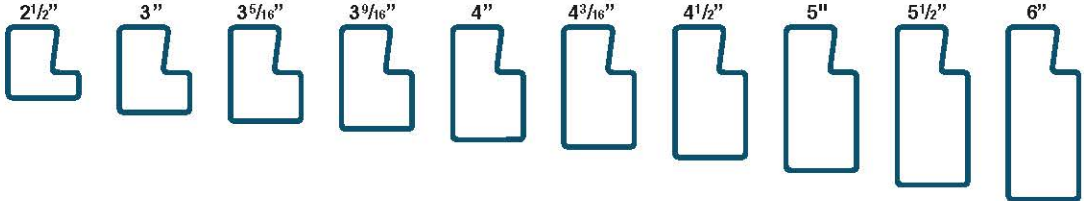
- Any application where the frame load exceeds 31,000 lbs. (23,600 lbs for 3 x 1.625 columns or 28,700 lbs. for 3x2 column). These frames may need larger base plates or heavier bracing.
- Any application that requires seismic design where the design ground acceleration Ss exceeds 25%g in IBC areas.
- 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](http://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



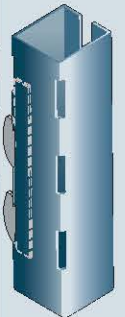
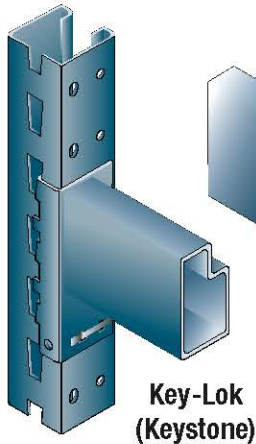
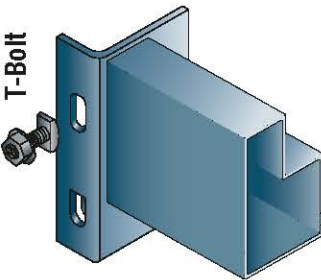
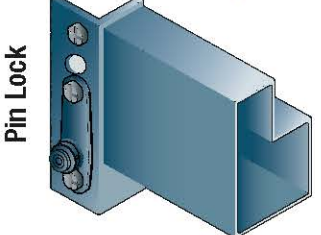
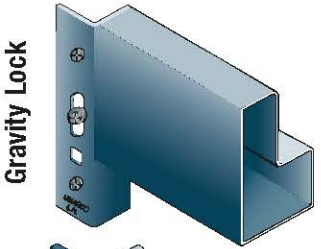
BEAM CAPACITIES FOR T-BOLT - GRAVITY LOCK - PIN LOCK

BEAM SPAN	PART NUMBER	RMI CAPACITY
48"	F2 6356 04800SS000	7991# 3.56" x 48"L... 16 ga.
60"	F2 6356 06000SS000	6544# 3.56" x 60"L... 16 ga.
72"	F2 6356 07200SS000	5573# 3.56" x 72"L... 16 ga.
84"	F2 6356 08400SS000	4876# 3.56" x 84"L... 16 ga.
	F2 6250 09600SS000	2126# 2.50" x 96"L... 16 ga.
	F2 6331 09600SS000	3452# 3.31" x 96"L... 16 ga.
	F2 6356 09600SS000	3972# 3.56" x 96"L... 16 ga.
96"	F2 6400 09600SS000	5009# 4.00" x 96"L... 16 ga.
	F2 6418 09600SS000	5296# 4.18" x 96"L... 16 ga.
	F2 6450 09600SS000	5832# 4.50" x 96"L... 16 ga.
	F2 6500 09600SS000	6730# 5.00" x 96"L... 16 ga.
	F2 6550 09600SS000	7701# 5.50" x 96"L... 16 ga.
	F2 6600 09600SS000	8742# 6.00" x 96"L... 16 ga.
	F2 4600 09600SS000	9897# 6.00" x 96"L... 14 ga.
	F2 6356 10800SS000	3206# 3.56" x 108"L... 16 ga.
	F2 6400 10800SS000	4044# 4.00" x 108"L... 16 ga.
108"	F2 6418 10800SS000	4431# 4.18" x 108"L... 16 ga.
	F2 6450 10800SS000	5184# 4.50" x 108"L... 16 ga.
	F2 6500 10800SS000	6038# 5.00" x 108"L... 16 ga.
	F2 4500 10800SS000	6800# 5.00" x 108"L... 14 ga.
	F2 4600 10800SS000	8842# 6.00" x 108"L... 14 ga.
	F2 6356 12000SS000	2649# 3.56" x 120"L... 16 ga.
	F2 6400 12000SS000	3329# 4.00" x 120"L... 16 ga.
120"	F2 6418 12000SS000	3643# 4.18" x 120"L... 16 ga.
	F2 6450 12000SS000	4254# 4.50" x 120"L... 16 ga.
	F2 6500 12000SS000	5353# 5.00" x 120"L... 16 ga.
	F2 4500 12000SS000	5943# 5.00" x 120"L... 14 ga.
	F2 4600 12000SS000	7997# 6.00" x 120"L... 14 ga.
	F2 6356 14400SS000	1902# 3.56" x 144"L... 16 ga.
	F2 6400 14400SS000	2377# 4.00" x 144"L... 16 ga.
	F2 6418 14400SS000	2596# 4.18" x 144"L... 16 ga.
144"	F2 6450 14400SS000	3021# 4.50" x 144"L... 16 ga.
	F2 6500 14400SS000	3785# 5.00" x 144"L... 16 ga.
	F2 4500 14400SS000	4192# 5.00" x 144"L... 14 ga.
	F2 4600 14400SS000	6369# 6.00" x 144"L... 14 ga.
	F2 3600 14400SS000	7653# 6.00" x 144"L... 13 ga.
	F2 2600 14400SS000	8979# 6.00" x 144"L... 12 ga.

- 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



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

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

