



ROLL-FORMED  
**PALLET  
RACK**

SOLUTIONS FOR STORAGE

# TRI-BORO PALLET RACK FEATURES & BENEFITS



Obtain warehouse racking and shelving products on one order from one source - Tri-Boro Storage Products. We manufacture our own pallet rack to the same standards of quality and performance you've come to expect from our other storage products. Tri-Boro now offers the added value and logistical advantage of single source integration for all your warehousing and storage needs.

- One Source for Industrial Steel Shelving and Warehouse Rack
- Quick Ship Program
- 100% USA Made

**Single Rib Column Design:** Adds to strength and rigidity.

**Tapered Keyhole Slots:** Pulls beam against frame for maximum stability.

**Return bends on all open-back design frame members:** No sharp exposed edges - Adds to strength and rigidity.

**Interchangeable product design:** TRI-BORO rack is compatible with most "teardrop" design pallet racks.

**One-piece tube seamed step beams:** No exposed welds, which can cause pallet hang-ups. Safer for retail applications.

**High strength tapered studs on beam connector plates:** Extra safe connection and snug fit. Less stress on components than slot and hook connections.

**Integral beam connector safety locks:** Self-engaging design is secure, easy to use and allows for quick repositioning of beams. Factory installed - replaceable.

**Quick & Easy Assembly:** Saves time and money. No loose hardware.

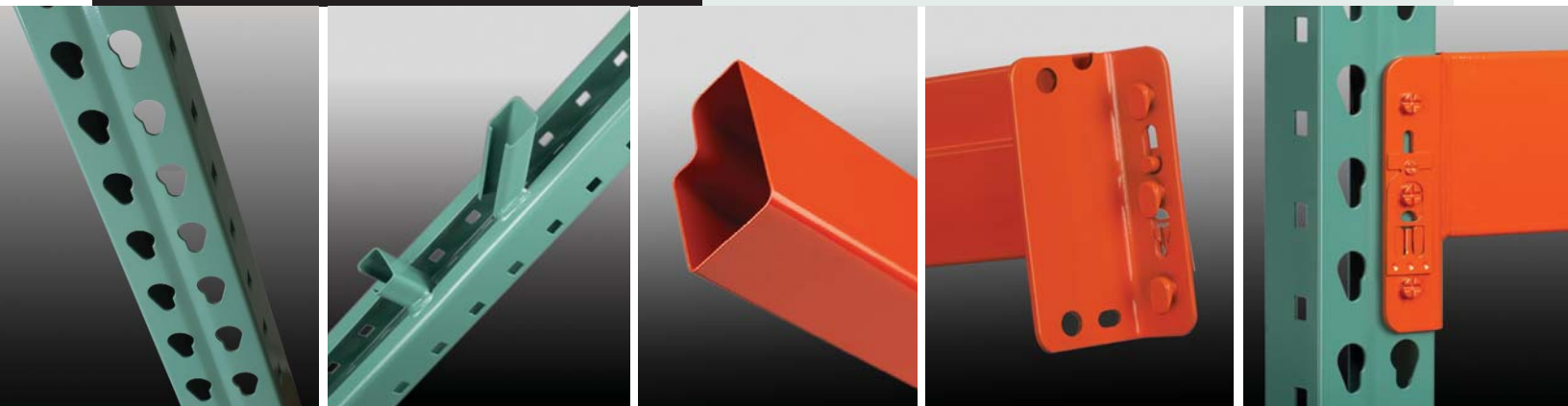


**Powder coat baked finish:** Durable, scratch resistant high gloss finish. Ideal for many food and industrial corrosive applications.

**Full range of capacities and sizes from hand-loaded bulk rack to your heaviest applications:** One source for all your storage needs. Complete turn-key services available through a qualified network of full line material handling distributors.






**Stock rack for immediate requirements:** Warehouses and stocking dealers around the country with a large selection of popular size racks.

**Factory Support:** Large enough to handle any size job. Small enough for the personal services that most companies cannot provide.



# SPECIFICATIONS



FRAME CAPACITIES (LBS.)					
MAXIMUM VERTICAL BEAM SPACING	F14 *	F20	F24	F25	F30
	 3" x 1 <sup>5</sup> / <sub>8</sub> " COL.	 3" x 2 <sup>1</sup> / <sub>2</sub> " COL.	 3" x 2 <sup>1</sup> / <sub>2</sub> " COL.	 3" x 3" COL.	 3" x 3" COL.
36"	17437	23906	28005	27798	31162
42"	16400	22610	26364	26020	29481
48"	15220	21149	24530	23200	27594
54"	13937	19559	22557	21040	25549
60"	12594	17884	20502	19163	23398
66"	11232	16167	18420	17145	21194
72"	9870	14426	16332	15147	18965
78"	8683	12794	14406	13030	16842
84"	7679	11396	12771	11916	15019

 SPECIAL ORDER ITEMS - MINIMUM RUN REQUIREMENTS APPLY. Please contact your Tri-Boro representative for more information.

**Notes:**

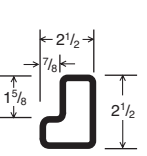
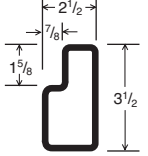
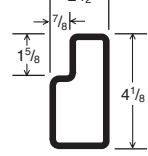
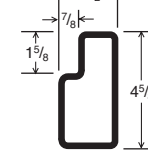
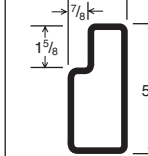
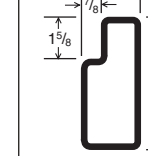
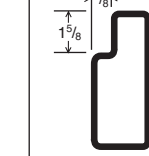
- Based on RMI 2002 Specification for the Design, Testing and Utilization of Industrial Steel Storage Racks.
- "Spacing" is distance from floor to top of first beam level. If maximum opening is not floor level, "Spacing" is distance from top of beam to top of beam + 1'.
- Applicable for non-seismic use only. Building codes may require otherwise.
- Capacities are for frame components only. Overall rack system configuration is the responsibility of others.
- Contact your Tri-Boro representative for design assistance or for applications not covered by above.
- Where the bottom portion of frames are exposed to potential minor impacts from forklift trucks or moving equipment, consideration should be given to purchasing one of the optional impact protection devices. Ask your Tri-Boro representative for a recommendation.
- \*F14 Frame capacity: 4,000 lbs. max per beam level.

**ROLL-FORMED FRAME PART NUMBER**  
(EXAMPLE: 3" x 2<sup>1</sup>/<sub>2</sub>" x 42" x 192")

<b>F</b>	<b>20</b>	<b>42</b>	<b>192</b>
ROLL-FORMED FRAME	CAPACITY MODEL	DEPTH IN INCHES	HEIGHT IN INCHES

**ROLL-FORMED STEP BEAM PART NUMBER**  
(EXAMPLE: 4<sup>1</sup>/<sub>8</sub>" x 96")

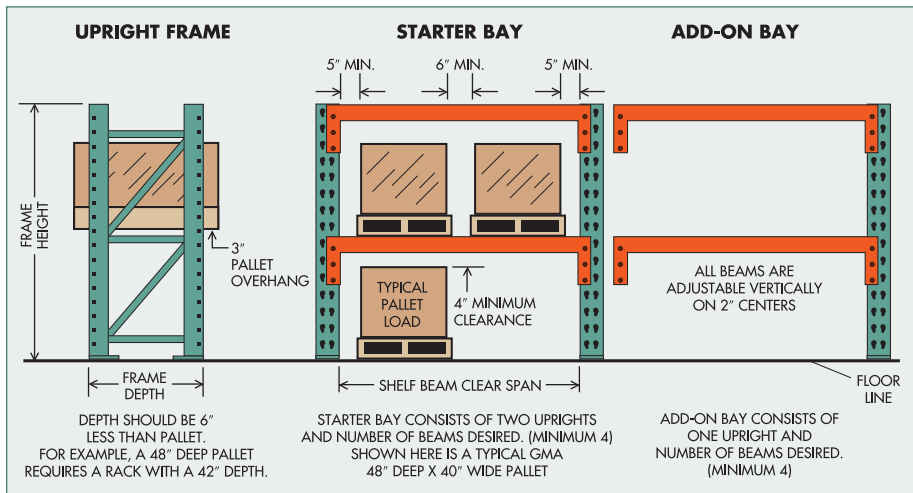
<b>SB</b>	<b>4125</b>	<b>96</b>
ROLL-FORMED STEP BEAM	HEIGHT IN INCHES	LENGTH IN INCHES

ROLL-FORMED STEP BEAM CAPACITIES (LBS. PER PAIR)								
BEAM LENGTH (INCHES)	BEAM PROFILE	SB2500	SB3500	SB4125	SB4625	SB5125	SB6000	SB6500
	MODEL NO.	4" CONNECTOR (2 STUD)	6" CONNECTOR (3 STUD)	6" CONNECTOR (3 STUD)	6" CONNECTOR (3 STUD)	6" CONNECTOR (3 STUD)	6" CONNECTOR (3 STUD)	8" CONNECTOR (4 STUD)
48"		4066	6910	8775	10597	12000	12000	12000
72"		2762	4743	5975	7186	9029	12000	12000
84"		2252	4485	5734	6883	8632	12000	12000
96"		1735	3483	5028	6067	7596	10583	12000
102"		1540	3106	4476	5731	7168	9975	11825
108"		1376	2788	4011	5309	6788	9434	11206
120"		1115	2283	3276	4330	5887	8512	10152
144"				2303	3038	4120	6511	8482

**Notes:**

- Based on MHIA/RMI 2002 Specification for the Design, Testing and Utilization of Industrial Steel Storage Racks.
- Load Capacities are based on uniformly distributed product load per pair of beams.
- Deflection is based on product load only, and is limited to L(span)/180.
- Spans from 48" to 80" designed for 25% impact from placing 1 load per shelf.
- Spans from 82" to 120" designed for 25% impact from placing 1 of 2 loads per shelf.
- Spans from 122" to 144" designed for 25% impact from placing 1 of 3 loads per shelf.
- Applicable for non-seismic use only. Building codes may require otherwise.
- Capacities are for beam components only. Overall rack system configuration is the responsibility of others.
- Contact your Tri-Boro representative for design assistance or for applications not covered by above.





## HOW TO ORDER

**BEAM LENGTH:** SHELF LENGTH EQUALS THE DISTANCE BETWEEN UPRIGHTS. IT IS DETERMINED BY ADDING THE WIDTHS OF PALLET LOADS PLUS A 5" SIDE CLEARANCE BETWEEN UPRIGHT AND PALLET AND 6" BETWEEN PALLET LOADS. SHELF BEAM CAPACITIES ARE BASED ON A PAIR OF BEAMS SUPPORTING AN EVENLY DISTRIBUTED LOAD.

**RACK HEIGHT:** ADD THE FOLLOWING FIGURES:

HEIGHT OF PALLET LOADS (INCLUDING PALLET)

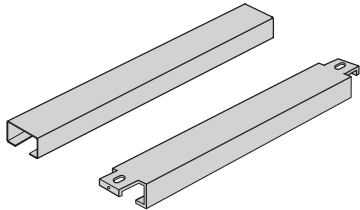
+ HEIGHT OF SHELF BEAM

+ 4" MINIMUM VERTICAL CLEARANCE FOR EACH PALLET LOAD

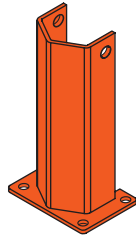
SUM OF ABOVE DIMENSIONS = RACK HEIGHT

FOR UPPERMOST LOAD LEVEL, LOCATION OF SHELF BEAM SHOULD BE 6" LESS THAN FORK TRUCK'S MAXIMUM LIFT HEIGHT. TOP OF BEAMS NEED TO BE AT 2" INCREMENTS.

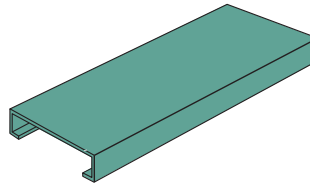
## TRI-BORO PALLET RACK ACCESSORIES



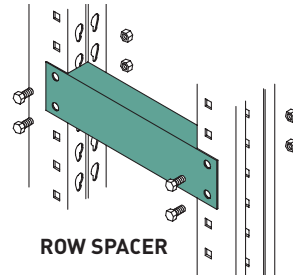
SAFETY BARS



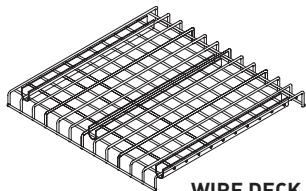
COLUMN PROTECTOR



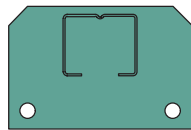
DECK PANEL



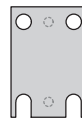
ROW SPACER



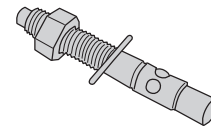
WIRE DECK



SEISMIC FOOTPLATE



SHIM



WEDGE TYPE ANCHOR BOLT



For over 70 years, Tri-Boro has been dedicated to providing companies with innovative solutions, equipment and programs for all their storage requirements.

Review the Full Line of Tri-Boro Storage Products on our expanded web site:

[www.triboroshelving.com](http://www.triboroshelving.com)

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