



Pallet Rack Starter and Add-On Units

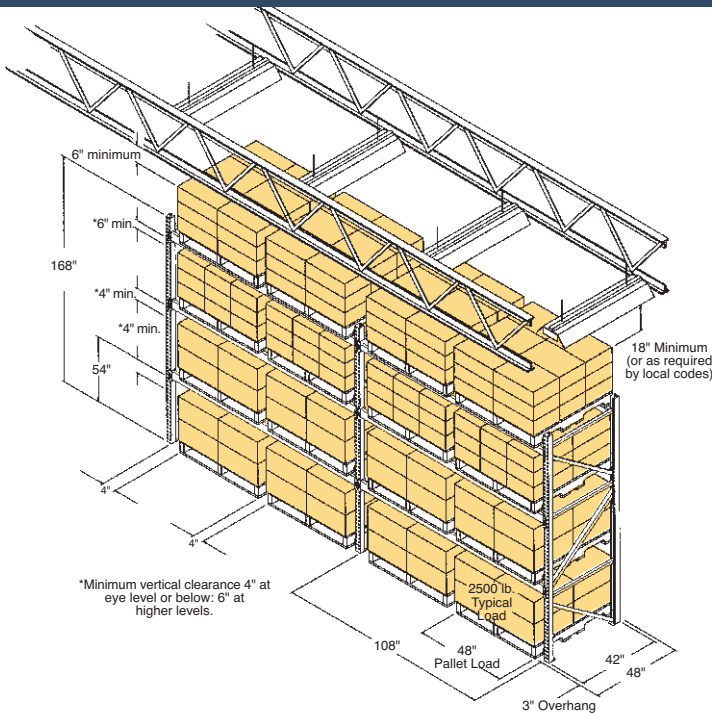
To help take the hassle out of ordering Pallet Rack please select a starter or add-on unit.

Each unit is available as either 96" height or 144" height. 96" height units have two beam levels. 144" height units have three beam levels. Capacities vary based on beam width and largest beam spacing (see page 75). Units are available in 42" or 48" depth.

Level	Height	Depth	Width	Starter	Add-on	Deck Options				
2	96"	42"	96"	SFB096042096	AFB096042096	with F/B Supports				
			108"	SFB108042096	AFB108042096					
			120"	SFB120042096	AFB120042096					
			144"	SFB144042096	AFB144042096					
			96"	SWD096042096	AWD096042096		Wire Deck			
			108"	SWD108042096	AWD108042096					
		48"	120"	SWD120042096	AWD120042096	with F/B Supports				
			144"	SWD144042096	AWD144042096					
			96"	SFB096048096	AFB096048096		Wire Deck			
			108"	SFB108048096	AFB108048096					
			120"	SFB120048096	AFB120048096					
			144"	SFB144048096	AFB144048096					
			3	144"	42"		96"	SFB096042144	AFB096042144	with F/B Supports
							108"	SFB108042144	AFB108042144	
120"	SFB120042144	AFB120042144								
144"	SFB144042144	AFB144042144								
96"	SWD096042144	AWD096042144				Wire Deck				
108"	SWD108042144	AWD108042144								
48"	120"	SWD120042144			AWD120042144	with F/B Supports				
	144"	SWD144042144			AWD144042144					
	96"	SFB096048144			AFB096048144		Wire Deck			
	108"	SFB108048144			AFB108048144					
	120"	SFB120048144			AFB120048144					
	144"	SFB144048144			AFB144048144					
	96"	SWD096048144			AWD096048144		Wire Deck			
	108"	SWD108048144			AWD108048144					
120"	SWD120048144	AWD120048144								
144"	SWD144048144	AWD144048144								

Starters include two uprights, Add-ons include one upright.

Note: For "Big Foot Seismic" – Heavy-Duty Pallet Rack, please contact customer service at 1-800-323-0082



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PALLET RACK SAFETY RECOMMENDATIONS

Determine actual load requirements as accurately as possible and adhere to rated capacities shown in tables on the following pages. Additional precautions should be taken in applications where extraordinary rack abuse is anticipated. For example, when narrow aisles are used for high speed or high inventory turnover operations, Lyon recommends additional rack reinforcement. Impact supports and aisle guidance devices may be advisable – especially at aisle intersections and other vulnerable locations.

Beam Length

Lyon recommends a clearance of 4" between palletized loads – and between loads and uprights. Beams over 120" in length should be tied together with the appropriate front-to-back support to maintain proper spacing at each storage level.

Back-to-back Clearance

Clearance should be sufficient to accommodate minimum pallet overhang and tolerances – where pallet placement may vary. Additional clearances may be required to accommodate building structures or intermediate sprinkler systems (according to local codes).

Installation and Anchoring

To insure minimum stability standards, racks should be level, plumb and properly anchored.

Seismic Zones

Since requirements vary so widely, we advise you to contact Lyon for assistance on rack projects in high risk seismic zones.

Lyon's teardrop design features a roll form welded upright and is totally interchangeable with all major teardrop-style products on the market today.

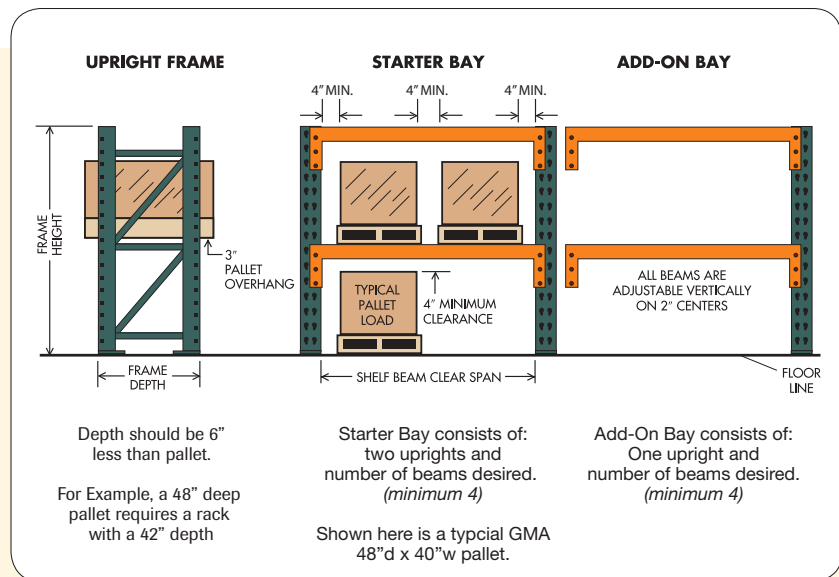
Tough, durable, and smooth finish features our baked-on powder epoxy finish which gives an appliance-like finish that is impact and corrosion resistant.

Available in stock:

Lake Green – Upright Frames/Accessories
Safety Orange – Beams

Special Orders:

Additional capacities and dimensions are available upon request, contact Customer Service at 1-800-323-0082.



HOW TO ORDER PALLET RACKS

Step 1

Select Upright Frames (see page 74)

Add the following figures:

- Height of pallet loads (including pallet)
- + Height of shelf beam
- + 4" Min. 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 even increments.

Step 2

Select Beams (see page 75)

Shelf length equals the distance between uprights. It is determined by adding the widths of pallet loads plus a 4" side clearance between upright and pallet and 4" between pallet loads.

Shelf beam capacities are based on a pair of beams supporting an evenly distributed load.

Beams over 120" in length should be tied together with the appropriate front-to-back support (see page 75) to maintain proper spacing at each storage level.

Step 3

Select Decking (see page 75)

Select Decking based on style needed:

- Solid Panel Decking
- Wire Decking

Step 4

Select Accessories (see page 76)

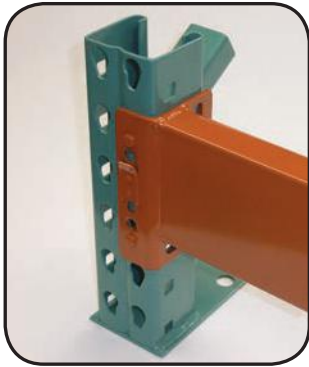


Upright Ordering Information

- Choose uprights to suit your storage requirements:
Medium-Duty - 3" x 2-1/4", 14 gauge
Heavy-Duty - 3" x 3", 13 gauge
- Two frames are required per bay, and any number may be joined together in continuous row applications
- Available in Lake Green



Uprights conform to the latest standards set by Rack Manufacturers' Institute LRFD Specifications.



Unique Design - Roll formed upright provides greater strength-to-weight ratio. Minimum-sized slots mean more steel per upright. Upright's structures are 100% mig-welded with precision K-brace and heavy-duty cross channel reinforcement for increased strength, rigidity and resistance to abuse.

Easy Adjustment - Tapered keyhole slots on 2" centers, provide quick, easy vertical adjustment of beams. There are no "dead spots" or obstructions in upright posts to impede movement of beam along the entire height.

Interchangeable - Lyon pallet rack fits with other traditional teardrop designs. That means you can upgrade damaged, weak, or worn out uprights and beams with our versatile rack. No need to change your whole system.

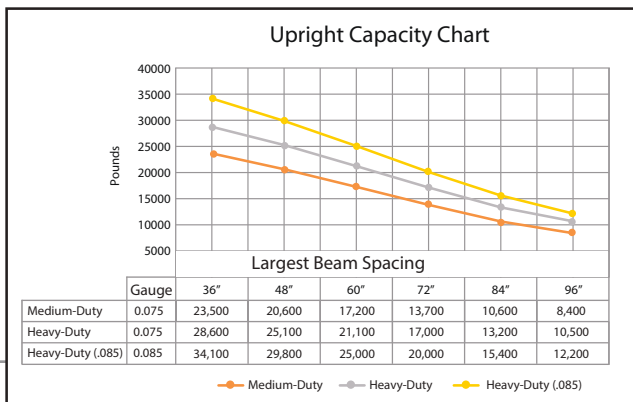
Step 1

Select Upright Frames

1. Compute total frame capacity needed to satisfy your load requirements. *(Weight of heaviest pallet X number of pallets per level) X number of beam levels = total frame capacity*
2. Determine "Largest Beam Spacing". Vertical distance between floor and first beam level or vertical distance between beam spacing; whichever is greater.
3. Refer to the Upright Capacity Chart. Find the "Largest Beam Spacing" number that closest resembles the number determined in Step 2. Move down the table to the desired capacity required. This will identify if the upright is Medium or Heavy-Duty.
4. Using the required depth and height of the upright for the corresponding type identified in Step 3, select the appropriate catalog number from the table.

Largest Beam Spacing has a significant impact on the capacity rating of an upright.

Frame Height	Capacity per pair	36" Deep Cat. No.	42" Deep Cat. No.	48" Deep Cat. No.	Gauge
96"	20,600 lbs.	36M096	42M096	48M096	.075
120"	20,600 lbs.	36M120	42M120	48M120	.075
144"	20,600 lbs.	36M144	42M144	48M144	.075
192"	25,100 lbs.	-	42H192	48H192	.075
240"	29,800 lbs.	-	42H240	48H240	.085



Beam Ordering Information

- Roll-formed beams feature an integrated 1/8" step for decking and are totally enclosed for clean applications
- Heavy-duty rivet-type connectors engage upright wedge slots for increased holding power
- Beams are easy to install, take down and relocate
- Available in Safety Orange



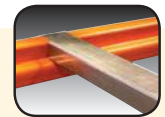
Three-Point Safety Catch – Each beam has 3 rugged studs (4 on heavy-duty) that engage the tapered keyhole slots in the upright with a compression fit. Integral safety lock automatically locks into place when beam is properly seated.

Step 2

Select Beams

1. Determine load weights per pair of beams.
(Two 2,500 lb. pallet loads = 5,000 lb. beam capacity).
2. Determine length of beam required based on load width and minimum clearances.
(Minimum clearance between pallet and upright is 4", or for two 48" pallets, a total of 12". Use 108" beam). (See illustration on page 73)
3. Refer to desired beam length and move across table to rated capacities.
(For 108" beam and 5,000 lb. load, select beam N108).

Clear Span	Capacity per pair	Beam-Face Height	Cat. No.
96"	5,200 lbs.	4.1"	N96
96"	8,330 lbs.	5"	S96
108"	6,320 lbs.	4.65"	N108
108"	9,940 lbs.	6"	S108
120"	6,140 lbs.	5"	N120
120"	8,920 lbs.	6"	S120
144"	6,790 lbs.	6"	N144
144"	9,370 lbs.	6.5"	S144



Beams 120" long and greater should be tied together with at least one front-to-back support except when solid decking panels are used.

Beams conform to the standards set by the latest Rack Manufacturers' Institute LRFID Specifications.

Step 3

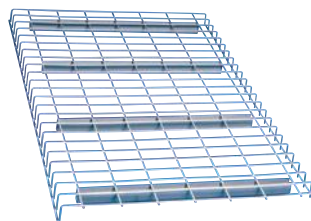
Select Decking



Solid Decking Panels

Heavy, 14-gauge panels feature three 3" x 1 5/8" x 14-gauge hat channels welded to the underside for maximum strength and durability. Panels drop into place to provide a solid deck surface.

W x D	Capacity	Cat. No.
Solid Decking Panels		
48" x 30"	11,865 lbs.	DP4830
60" x 30"	11,865 lbs.	DP6030
48" x 36"	8,247 lbs.	DP4836
60" x 36"	8,247 lbs.	DP6036
48" x 42"	6,057 lbs.	DP4842
60" x 42"	6,057 lbs.	DP6042
48" x 48"	5,198 lbs.	DP4848
60" x 48"	5,198 lbs.	DP6048



Wire Decking

Heavy-duty waterfall decking features a 2 1/2" x 4" 6-gauge wire mesh with 14-gauge steel channels for safe, durable storage and ease of installation. Meets all fire and safety regulations. Available in Frost Gray.

Wire decking sizes necessary to fit Lyon pallet rack

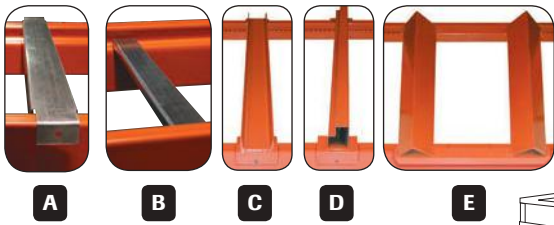
Beam Width	Wire Decking Sizes
90"	(2) 44"W
96"	(2) 46"W
102"	(1) 46"W and (1) 52"W
108"	(2) 52"W
120"	(2) 58"W
144"	(3) 46"W

W x D	# Channels	Capacity	Cat. No.
Wire Decking			
46" x 36"	3	2,750 lbs.	WD4636H
52" x 36"	3	2,500 lbs.	WD5236H
58" x 36"	3	2,500 lbs.	WD5836H
46" x 42"	4	3,500 lbs.	WD4642H
46" x 42"	3	2,000 lbs.	WD4642L
52" x 42"	4	3,500 lbs.	WD5242H
52" x 42"	3	2,500 lbs.	WD5242L
58" x 42"	3	3,000 lbs.	WD5842L
46" x 48"	4	3,000 lbs.	WD4648H
46" x 48"	3	2,500 lbs.	WD4648L
52" x 48"	3	2,800 lbs.	WD5248L
58" x 48"	3	3,000 lbs.	WD5848L



Step 4

Select Accessories



(A) Front-to-Back Support

Reduces the likelihood of inaccurately placed pallets falling through.

(B) Plywood Support Channel

To support plywood or other decking material, or as front-to-back member between beams.

(C) Skid Support

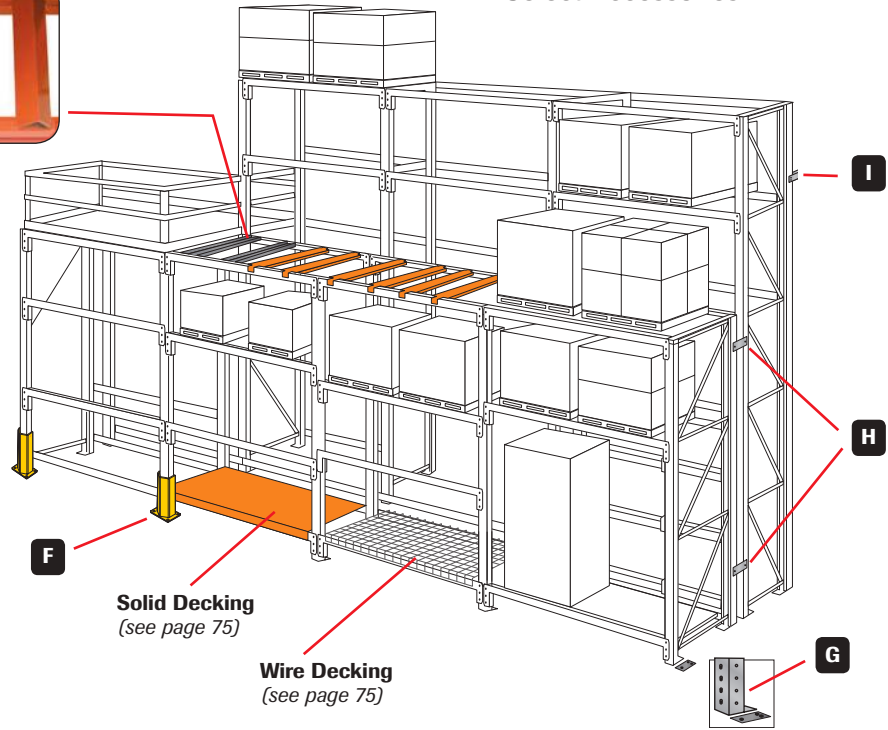
Provides secure, easily adjustable base for skid runners.

(D) Fork Entry Bar

Solid base and proper fork clearance for non-palletized loads.

(E) Drum Cradle

For safe storage of cylindrical items. Welded unit fits securely on beams.



Solid Decking
(see page 75)

Wire Decking
(see page 75)

Dimension	Capacity	Cat. No.
Front-to-Back Support		
36" Deep	1,840 lbs.	FBSUP36
42" Deep	1,540 lbs.	FBSUP42
48" Deep	1,320 lbs.	FBSUP48
Plywood Support Channel		
36" Deep	730 lbs.	PWSUP36
42" Deep	610 lbs.	PWSUP42
48" Deep	530 lbs.	PWSUP48
Skid Support		
36" Deep	650 lbs.	SKSUP36
42" Deep	550 lbs.	SKSUP42
48" Deep	475 lbs.	SKSUP48
Fork Entry Bar		
36" Deep	7000 lbs.	FEBAR36
42" Deep	6000 lbs.	FEBAR42
36" Deep	5000 lbs.	FEBAR48
Drum Cradle		
36" Deep	2170 lbs.	DRCD36
42" Deep	1860 lbs.	DRCD42

(F) Impact Support

Provides extra protection against abuse. Bolt on to floor only. Finish is Safety Yellow.

No. IMSUP12- 12" high
No. IMSUP24- 24" high
No. IMSUP36- 36" high
No. IMSUP48- 48" high



Upright Anchor

Optional wedge-type anchor can be used to secure column posts. 1/2" dia. x 3 3/4" long.

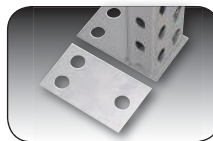
No. 25163



(G) Shim Plate

Nests under footplate. Unpainted.

No. FLSH34



(H), (I) Row Spacers & Wall Ties

Row spacer provides a stabilizing connection for back-to-back rows of racks; wall ties provide stability and consistent spacing from the wall. Galvanized construction resists rust and corrosion. Two spacers recommended for each pair of uprights. Bolts included.

Dimension	Cat. No.
Row Spacer	
4"	RSPC04
6"	RSPC06
8"	RSPC08
10"	RSPC10
12"	RSPC12
18"	RSPC18
Wall Tie	
4"	WSPC04
6"	WSPC06
8"	WSPC08
10"	WSPC10
12"	WSPC12
18"	WSPC18

NOTE: Load-carrying capacities for individual accessories listed are based on evenly distributed loads and are limited by the support capacity of the beams and/or upright assemblies. When skid supports, fork-entry bars and/or front-to-back supports are used to support the load, the weight is not evenly distributed to the beam and, therefore, beam capacities are reduced significantly.