



Structural Upright Frames

- Structural Upright Frames are available in 3" and 4" channel.
- All components are designed and manufactured to meet or exceed Rack Manufacturers Institute (RMI) and the American Institute of Steel Construction (AISC) specifications.
- All frames are made of 50,000 PSI structural channel and fully welded.
- Horizontal and diagonal bracings are made from structural angle.
- Frames are punched on 4" centers with 2" of adjustability.
- Three-inch frames utilize a 1/2" bolt at the connector; 4" frames utilize a 5/8" bolt at the connector. Foot plates are two-hole type for 1/2" anchors.

When determining frame heights, you need to consider: ceiling height; maximum forklift availability; and sprinkler systems. Frame depth should be 6" less than pallet depth. Structural beams should be at least 12" longer than the width of 2 pallets or 16" longer than width of 3 pallets to allow 4" working space between pallets.

Our bolted pallet racks maximize your storable space and are ideal for most types of pallet applications.

Depth of Frame	Height of Frame	3" Channel 32,000 LBS Capacity per Frame*		4" Channel 45,000 LBS Capacity per Frame*	
		Model #	Weight	Model #	Weight
36"	8'	F3-96-36	88	F4-96-36	109
	10'	F3-120-36	104	F4-120-36	131
	12'	F3-144-36	129	F4-144-36	163
	14'	F3-168-36	146	F4-168-36	182
	15'	F3-180-36	158	F4-180-36	197
	16'	F3-192-36	171	F4-192-36	213
	18'	F3-216-36	192	F4-216-36	243
	20'	F3-240-36	210	F4-240-36	267
	22'	F3-264-36	233	F4-264-36	290
42"	8'	F3-96-42	92	F4-96-42	112
	10'	F3-120-42	107	F4-120-42	134
	12'	F3-144-42	133	F4-144-42	167
	14'	F3-168-42	149	F4-168-42	185
	15'	F3-180-42	162	F4-180-42	201
	16'	F3-192-42	176	F4-192-42	213
	18'	F3-216-42	199	F4-216-42	248
	20'	F3-240-42	215	F4-240-42	273
	22'	F3-264-42	239	F4-264-42	300
48"	8'	F3-96-48	95	F4-96-48	114
	10'	F3-120-48	112	F4-120-48	136
	12'	F3-144-48	137	F4-144-48	170
	14'	F3-168-48	153	F4-168-48	190
	15'	F3-180-48	167	F4-180-48	206
	16'	F3-192-48	181	F4-192-48	223
	18'	F3-216-48	200	F4-216-48	258
	20'	F3-240-48	224	F4-240-48	284
	22'	F3-264-48	247	F4-264-48	315
24'	F3-288-48	270	F4-288-48	345	

*Maximum Vertical Beam Spacing of 72"

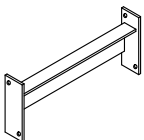
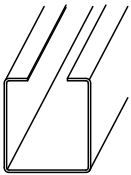
Structural Channel Columns & Load Beams

Structural channel columns are your best defense against forklift strikes. Structural load beams are strongest in the corners and sides where more steel is concentrated.



Roll-Form Column

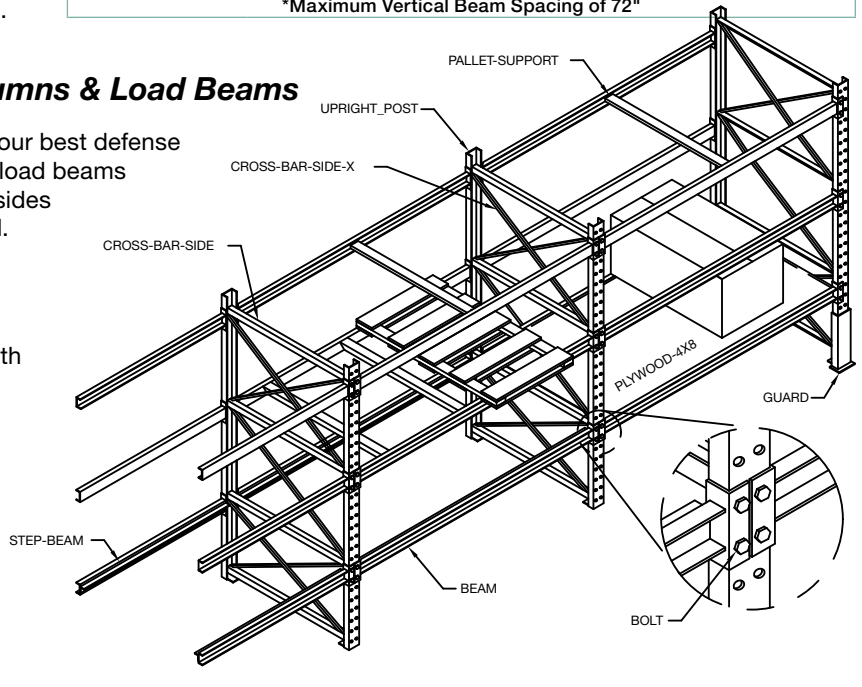
Roll-form columns provide strength and economy when used as planned but are vulnerable to flexing, twisting or buckling when excessive force is applied.



Wall ties and row spacers permit linking a row or racks to either the wall or a back-to-back row of racks. Maintain spacing while providing additional stability to the system.

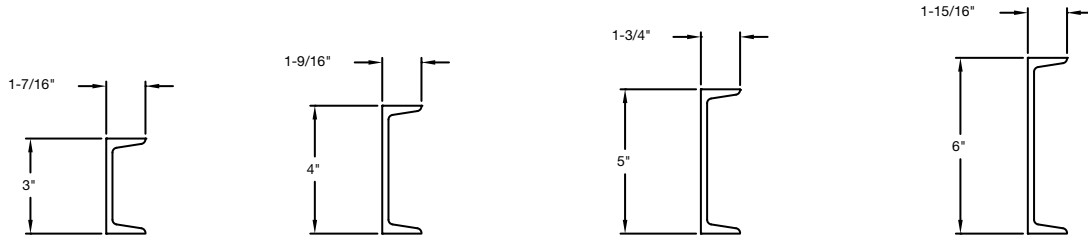


Structural post protectors provide extra protection from forklift abuse in the lower frame areas.





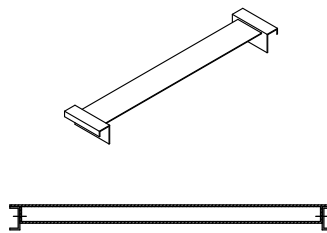
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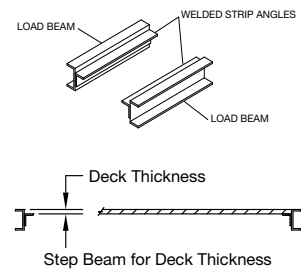
Length of Beams	3" Channel (Sold individually)				4" Channel (Sold individually)				5" Channel (Sold individually)				6" Channel (Sold individually)						
	No. of Beam Braces	Beam Brace Length	Model #	Wgt.	No. of Beam Braces	Beam Brace Length	Model #	Wgt.	No. of Beam Braces	Beam Brace Length	Model #	Wgt.	No. of Beam Braces	Beam Brace Length	Model #	Wgt.			
48"	0	-	PB3-48	19	0	-	PB4-48	25	0	-	PB5-48	30	0	-	PB6-48	36			
54"			PB3-54	22			PB4-54	27			PB5-54	34			PB6-54	40			
60"			PB3-60	24			PB4-60	30			PB5-60	37			PB6-60	45			
66"			PB3-66	26			PB4-66	30			PB5-66	40			PB6-66	49			
72"			PB3-72	28			PB4-72	35			PB5-72	44			PB6-72	53			
84"	0	-	PB3-84	32	1	36"	PB4-84-36	43	1	36"	PB5-84-36	53	1	36"	PB6-84-36	64			
96"						42"	PB4-84-42	43		42"	PB5-84-42	53		42"	PB6-84-42	64			
						48"	PB4-84-48	43		48"	PB5-84-48	53		48"	PB6-84-48	64			
108"	1	-	PB3-96	36	1	36"	PB4-96-36	49	1	36"	PB5-96-36	60	1	36"	PB6-96-36	72			
						42"	PB4-96-42	49		42"	PB5-96-42	60		42"	PB6-96-42	72			
						48"	PB4-96-48	49		48"	PB5-96-48	60		48"	PB6-96-48	72			
						36"	PB4-108-36	54		36"	PB5-108-36	66		36"	PB6-108-36	80			
120"	1	-	PB3-108-42	43	1	42"	PB4-108-42	54	1	42"	PB5-108-42	66	1	42"	PB6-108-42	80			
						48"	PB4-108-48	54		48"	PB5-108-48	67		48"	PB6-108-48	80			
						36"	PB3-120-36	47		36"	PB4-120-36	61		36"	PB5-120-36	75	36"	PB6-120-36	91
132"	2	-	PB3-120-42	47	2	42"	PB4-120-42	62	2	42"	PB5-120-42	75	2	42"	PB6-120-42	91			
						48"	PB3-120-48	47		48"	PB4-120-48	62		48"	PB5-120-48	76	48"	PB6-120-48	91
144"	2	-	PB3-132-36	54	2	36"	PB4-132-36	67	2	36"	PB5-132-36	82	2	36"	PB6-132-36	99			
						42"	PB3-132-42	54		42"	PB4-132-42	68		42"	PB5-132-42	82	42"	PB6-132-42	99
						48"	PB3-132-48	54		48"	PB4-132-48	68		48"	PB5-132-48	83	48"	PB6-132-48	99
						36"	PB3-144-36	58		36"	PB4-144-36	72		36"	PB5-144-36	88	36"	PB6-144-36	107
144"	2	-	PB3-144-42	58	2	42"	PB4-144-42	73	2	42"	PB5-144-42	89	2	42"	PB6-144-42	107			
						48"	PB3-144-48	58		48"	PB4-144-48	73		48"	PB5-144-48	89	48"	PB6-144-48	107

Length of Beams	3" Channel (Part No.)	4" Channel (Part No.)	5" Channel (Part No.)	6" Channel (Part No.)
48"	10,000	17,500	26,000	—
54"	8,500	15,500	23,000	—
60"	8,000	14,000	20,000	—
66"	7,250	12,500	18,000	—
72"	6,750	11,500	16,750	26,000
84"	5,500	10,000	15,550	22,500
96"	5,300	8,750	13,500	19,500
108"	4,600	7,750	12,250	17,500
120"	4,200	7,000	11,000	15,500
132"	3,600	6,800	10,000	14,000
144"	3,100	5,500	9,000	13,000

*Capacities are based on a uniformly distributed load over a pair of beams



Pallet supports prevent undersized loads from falling through the beams, support weak pallets or serve as a deck support. Both drop-in and bolted models are available.



Load beams with step angle permit custom decks to be placed in the pallet rack system. Factory welded to the inside of the load beam at custom heights, step angle provides versatility to address almost any need.



Beam braces (sold individually) attach to web of beam with two bolts.

Structural beams are made of 50,000 PSI structural channel. Beam to upright connection shear strength exceeds 100,000# per beam. Beams should be at least 12" longer than the width of 2 pallets or 16" longer than the width of 3 pallets. This allows 4" of working space between pallets.