MODERN EQUIPMENT COMPANY, INC.

DRIVE-IN/DRIVE-THRU STRUCTURAL PALLET RACK

THE MOST EFFICIENT METHOD TO STORE LARGE QUANTITIES OF SIMILAR PALLET LOADS

MECO OMAHA Drive-in Rack installation. Custom-designed for high density storage and efficient handling.

Satisfy your high density bulk storage requirements with a drive-in/drive-thru system from **MECO OMAHA**. Drive-in systems allow forklift entry from one direction only—ideal for a first in/last out inventory system. Drive-thru systems allow the forklift to enter the rack from either the front or rear and move pallets completely through the structure. This system works best in a first in/first out system. Both drive-in and drive-thru racks reduce the need for conventional aisle space and maximize warehouse utilization.

MECO OMAHA drive-in/drive-thru racks are custom designed to fit your specific storage application. Upright frames, pallet support beams and cross ties are fabricated from structural channel providing optimum strength and durability. Upright frames are punched on 4"

centers, special bracket allows 2" vertical adjustability of rail supports. Structural angle load rails are mounted to rail supports by a special bracket eliminating screws or bolts on the rail surface—pallets cannot be damaged by obstructions. All connections are accomplished with plated, heavy duty bolts and nuts—cannot be dislodged by forklift impact; installation is fast and easy with no special tools required.

Contact your **MECO OMAHA** representative for custom-designed drive-in or drive-thru rack systems.

**MECO OMAHA** sells drive-in/drive-thru structural pallet rack to approved dealers only.

Similar pallet loads are stored neatly and efficiently in a three-high, five deep system.

MODERN EQUIPMENT COMPANY, INC.

OMAHA

SELECTIVE STRUCTURAL PALLET RACK

- **BUILT FOR LONG-LASTING PERFORMANCE**

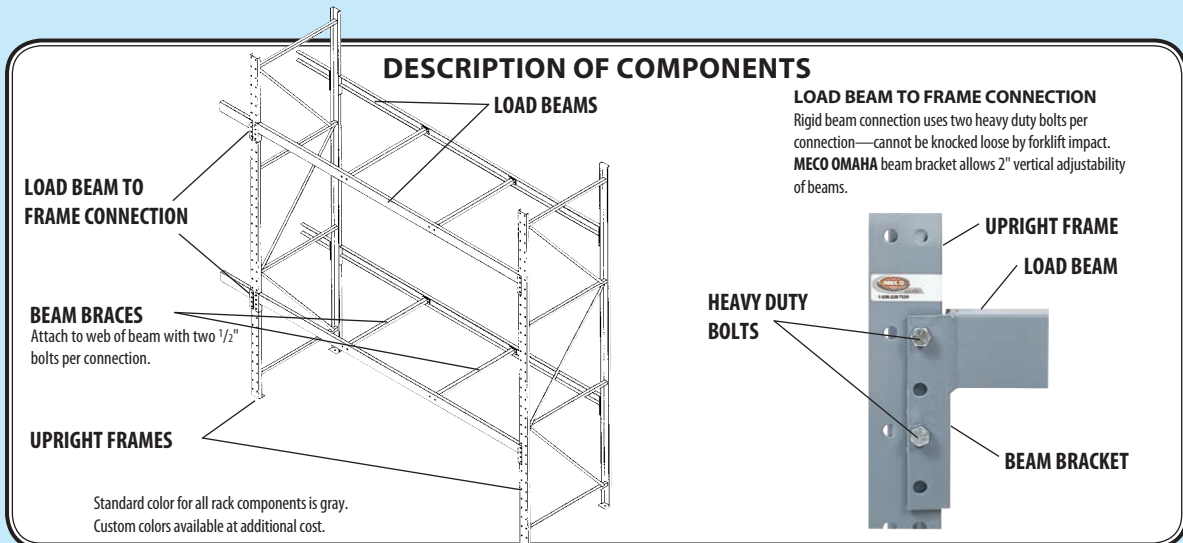- **INCREASED RESISTANCE TO FORKLIFT DAMAGE DUE TO THICKER CROSS-SECTION OF STRUCTURAL MEMBERS**
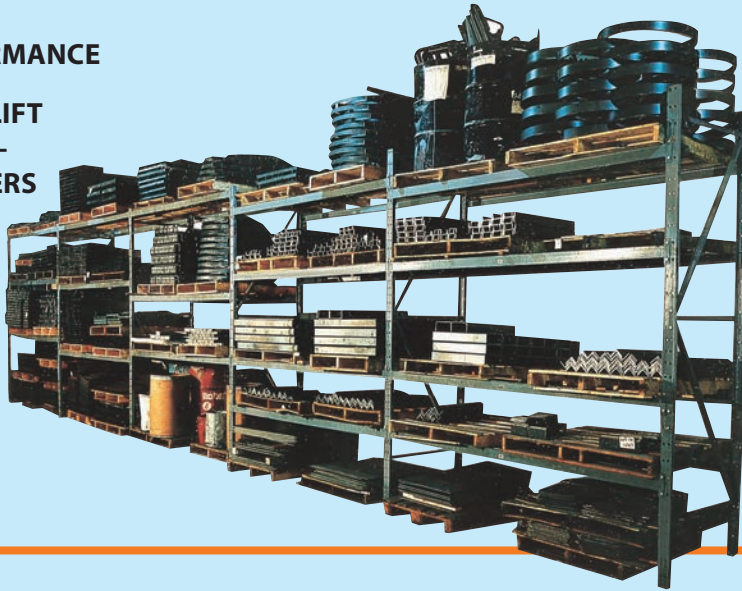
MECO OMAHA Structural Pallet Rack is designed in accordance with AISC and RMI Standards. Upright frames and load beams are fabricated from structural channel with a minimum yield of 36,000 PSI. Beams are secured to the upright frames with plated, heavy duty bolts and nuts—cannot be dislodged by forklift impact; installation is fast and easy with no special tools required.

A wide range of frame heights, depths, beam lengths and load capacities is available to meet the most demanding storage requirements. Custom pallet rack is designed by a dedicated engineering staff using state-of-the-art CAD technology and years of experience.

UPRIGHT FRAMES • Rigid, all-welded uprights provide storage capacity up to 52,200 lbs. per frame. Select the height of upright frames according to existing ceiling heights, sprinkler systems, and forklift limitations. Frame depth is determined by the length of the pallet: Standard pallet overhang is 3" front and back. The stated capacity of upright frames is based on a maximum vertical beam spacing of 60". A vertical beam spacing of less than 60" will result in the same stated capacity. The vertical beam spacing includes the distance from the floor to the top of the lowest pair of load beams. If a vertical beam spacing greater than 60" is required, contact your **MECO OMAHA** representative to determine upright frame capacity. Frames are punched on 4" centers for maximum beam adjustability.

LOAD BEAMS • Special bracket allows 2" adjustability up and down the frame. When selecting the appropriate beam length, add a minimum of 10" to two pallet widths or 14" to three pallet widths. Additional spacing may be required for pallets with excessive load overhang. Using the Load Beam Table of Capacity, select the pair of beams of the proper length and capacity making sure not to overload the beams. **NOTE**: Capacities are based on a uniformly distributed load over a pair of beams and are in accordance with AISC and RMI Standards. Deflection does not exceed 1/180 of the beam length. Load beams and related beam braces are sold as an integral unit.

DESCRIPTION OF COMPONENTS

LOAD BEAMS

LOAD BEAM TO FRAME CONNECTION

BEAM BRACES
Attach to web of beam with two $1/2$" bolts per connection.

UPRIGHT FRAMES

Standard color for all rack components is gray.
Custom colors available at additional cost.

LOAD BEAM TO FRAME CONNECTION
Rigid beam connection uses two heavy duty bolts per connection—cannot be knocked loose by forklift impact. **MECO OMAHA** beam bracket allows 2" vertical adjustability of beams.

UPRIGHT FRAME

LOAD BEAM

HEAVY DUTY BOLTS

BEAM BRACKET

SELECTIVE STRUCTU

UPRIGHT FRAMES

• STRUCTURAL CHANNEL UPRIGHT FRAMES

DEPTH OF FRAME	HEIGHT OF FRAME	3" CHANNEL • 34,800 LBS CAPACITY PER FRAME*		4" CHANNEL • 52,200 LBS CAPACITY PER FRAME*	
		MODEL NO.	WEIGHT (LBS)	MODEL NO.	WEIGHT (LBS)
36"	8'	SF3-3608	70	SF4-3608	104
	10'	SF3-3610	92	SF4-3610	134
	12'	SF3-3612	124	SF4-3612	161
	14'	SF3-3614	144	SF4-3614	187
	15'	SF3-3615	152	SF4-3615	197
	16'	SF3-3616	165	SF4-3616	214
	18'	SF3-3618	184	SF4-3618	239
	20'	SF3-3620	208	SF4-3620	270
	22'	SF3-3622	224	SF4-3622	291
	24'	SF3-3624	248	SF4-3624	322
42"	8'	SF3-4208	72	SF4-4208	106
	10'	SF3-4210	95	SF4-4210	137
	12'	SF3-4212	127	SF4-4212	165
	14'	SF3-4214	148	SF4-4214	191
	15'	SF3-4215	155	SF4-4215	201
	16'	SF3-4216	169	SF4-4216	219
	18'	SF3-4218	188	SF4-4218	244
	20'	SF3-4220	213	SF4-4220	275
	22'	SF3-4222	229	SF4-4222	297
	24'	SF3-4224	254	SF4-4224	328
48"	8'	SF3-4808	74	SF4-4808	108
	10'	SF3-4810	97	SF4-4810	141
	12'	SF3-4812	130	SF4-4812	169
	14'	SF3-4814	151	SF4-4814	195
	15'	SF3-4815	159	SF4-4815	206
	16'	SF3-4816	172	SF4-4816	222
	18'	SF3-4818	193	SF4-4818	249
	20'	SF3-4820	218	SF4-4820	282
	22'	SF3-4822	234	SF4-4822	304
	24'	SF3-4824	260	SF4-4824	336

* BASED ON A MAXIMUM VERTICAL BEAM SPACING OF 60"

STRUCTURAL RACK ACCESSORIES

WELDED STEP ANGLE

LOAD BEAMS
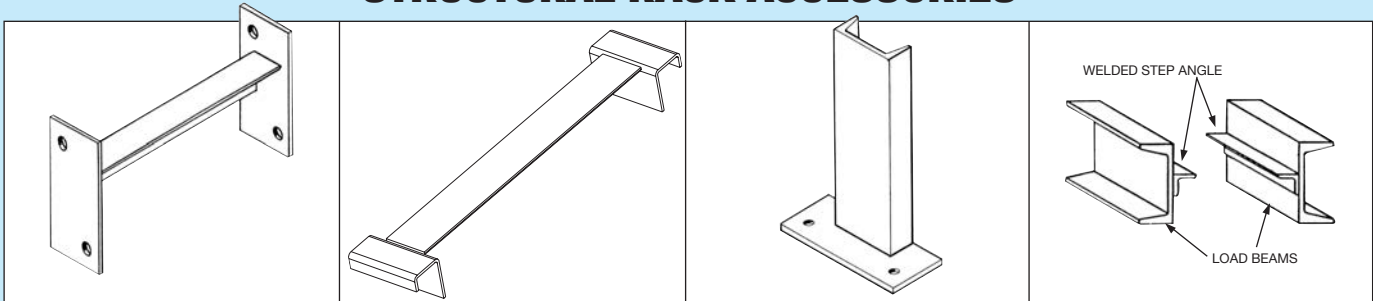
WALL TIES AND ROW SPACERS
permit linking a row of racks to either the wall or a back-to-back row of racks. Maintain spacing while providing additional stability to the system.

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.

STRUCTURAL POST PROTECTORS
provide extra protection from forklift abuse in the lower frame areas.

LOAD BEAMS WITH STEP ANGLE
permit a custom deck to be placed in the pallet rack system for added versatility. Step angle is factory welded to the inside of the load beam at custom heights to meet individual requirements.

Other popular accessories such as fork clearance bars, skid channels, steel decks and drum cradles are available.
Contact your MECO OMAHA representative.

MODERN EQUIPMENT COMPANY, INC.

LOAD BEAMS

• STRUCTURAL CHANNEL LOAD BEAMS (LOAD BEAMS AND RELATED BEAM BRACES ARE SOLD AS AN INTEGRAL UNIT)

LENGTH OF BEAMS	3" CHANNEL (PER PAIR)				4" CHANNEL (PER PAIR)				5" CHANNEL (PER PAIR)			
	NO. OF BEAM BRACES	BEAM BRACE LENGTH	MODEL NO.	WEIGHT (LBS)	NO. OF BEAM BRACES	BEAM BRACE LENGTH	MODEL NO.	WEIGHT (LBS)	NO. OF BEAM BRACES	BEAM BRACE LENGTH	MODEL NO.	WEIGHT (LBS)
48" 54" 60" 66" 72"	0	-	2SB3-48 2SB3-54 2SB3-60 2SB3-66 2SB3-72	38 42 46 50 54	0	-	2SB4-48 2SB4-54 2SB4-60 2SB4-66 2SB4-72	48 54 60 64 70	0	-	2SB5-48 2SB5-54 2SB5-60 2SB5-66 2SB5-72	58 66 72 78 86
84"	0	-	2SB3-84	62	1	36" 42" 48"	2SB4-84-36 2SB4-84-42 2SB4-84-48	87 88 89	1	36" 42" 48"	2SB5-84-36 2SB5-84-42 2SB5-84-48	107 108 109
96"		-	2SB3-96	70		36" 42" 48"	2SB4-96-36 2SB4-96-42 2SB4-96-48	99 100 101		36" 42" 48"	2SB5-96-36 2SB5-96-42 2SB5-96-48	119 120 121
108"	1	36" 42" 48"	2SB3-108-36 2SB3-108-42 2SB3-108-48	87 88 89		36" 42" 48"	2SB4-108-36 2SB4-108-42 2SB4-108-48	109 110 111		36" 42" 48"	2SB5-108-36 2SB5-108-42 2SB5-108-48	133 134 135
120"		36" 42" 48"	2SB3-120-36 2SB3-120-42 2SB3-120-48	95 96 97		36" 42" 48"	2SB4-120-236 2SB4-120-242 2SB4-120-248	128 130 132		36" 42" 48"	2SB5-120-236 2SB5-120-242 2SB5-120-248	154 156 158
132"	2	36" 42" 48"	2SB3-132-236 2SB3-132-242 2SB3-132-248	110 112 114	2	36" 42" 48"	2SB4-132-236 2SB4-132-242 2SB4-132-248	138 140 142	2	36" 42" 48"	2SB5-132-236 2SB5-132-242 2SB5-132-248	166 168 170
144"		36" 42" 48"	2SB3-144-236 2SB3-144-242 2SB3-144-248	118 120 122		36" 42" 48""	2SB4-144-236 2SB4-144-242 2SB4-144-248	150 152 154		36" 42" 48"	2SB5-144-236 2SB5-144-242 2SB5-144-248	190 192 194

LOAD BEAMS • TABLE OF CAPACITY

• CAPACITIES ARE BASED ON A UNIFORMLY DISTRIBUTED LOAD OVER A PAIR OF BEAMS

LENGTH OF BEAMS	CAPACITY PER PAIR OF BEAMS (LBS)		
	3" CHANNEL (2SB3)	4" CHANNEL (2SB4)	5" CHANNEL (2SB5)
48"	10,000	17,500	26,000
54"	8,800	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
84"	5,750	10,000	15,750
96"	5,000	8,750	13,750
108"	4,300	7,750	12,250
120"	3,850	7,000	11,000
132"	3,350	6,100	10,000
144"	3,000	5,600	9,000

Special label requirements can be met at additional cost.