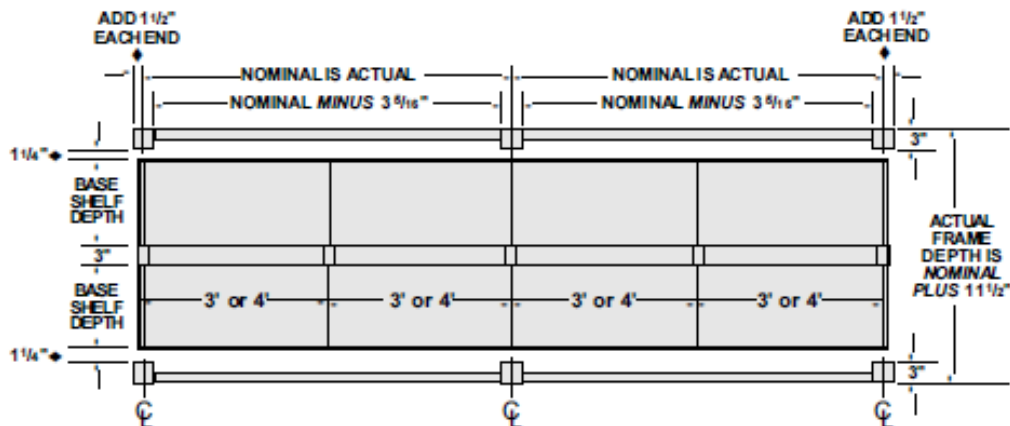


**ALL CARTONS
CONTAINING
MAXISPAN
PARTS ARE
LABELED**



NOTE!
This publication is intended to be a generic installation instruction for Madix Maxispan, and may possibly be subject to change as required by local building codes ...consult the building inspection department at job site.

PAGE 2-4.....PARTS IDENTIFICATION
PAGE 5-6.....BASIC INSTALLATION
PAGE 7.....LOAD CAPACITY
PAGE 8.....SAFETY
PAGE 9.....ANCHORING TO FLOOR



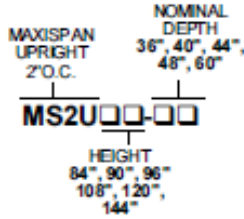
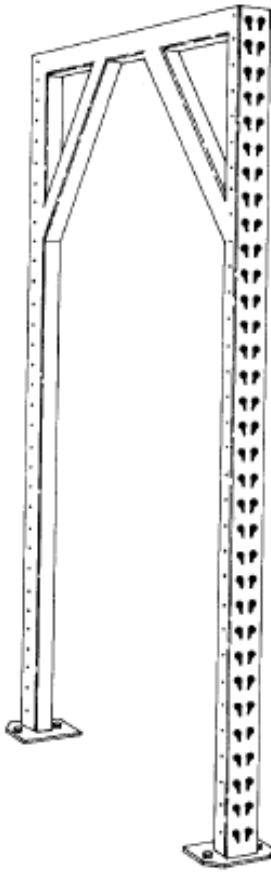
NOMINAL UPRIGHT DEPTH IS THE SUM OF THE BASE SHELVES



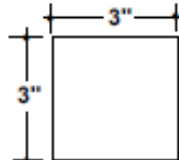
ALABAMA • (800) 633-6282 • (256) 839-6354
TEXAS • (800) 776-2349 • (972) 963-6744

**REV
03**

PARTS IDENTIFICATION



84" = 7'
90" = 7'
96" = 8'
108" = 9'

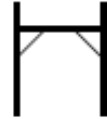


HEAVYDUTY
...20,000 lb. load capacity per frame

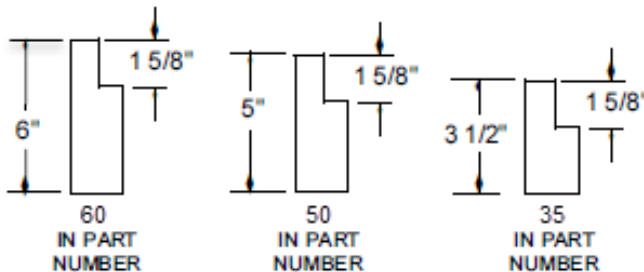
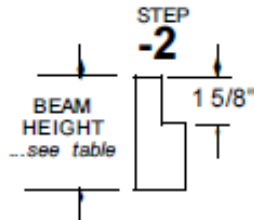
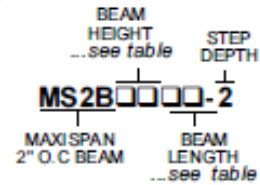
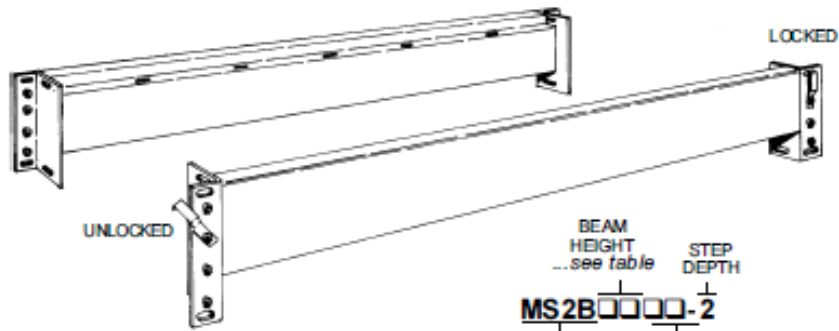
Nominal frame depth	...for gondola base shelves	Actual frame depth
36"	18" x 18"	47 1/2"
40"	20" x 20"	51 1/2"
44"	22" x 22"	55 1/2"
48"	24" x 24"	59 1/2"
60"	30" x 30"	71 1/2"

* Shipping brace length, 2 x 4, is actual frame depth, minus 6".

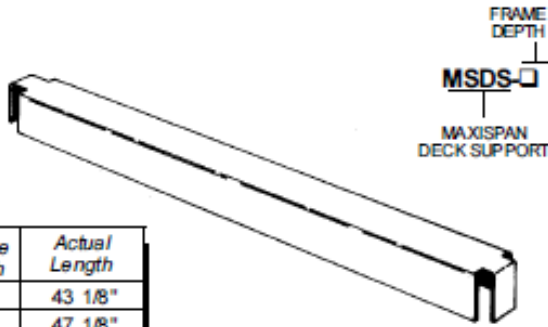
120" = 10'



144" = 12'

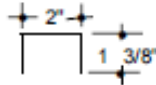


Beam Length x Beam Height	Capacity in pounds/pair	Actual length ...between brackets
36" x 5"	3 1/2" 4,950	32 11/16"
	6" 7,600	
	6" 10,000	
48" x 5"	3 1/2" 4,950	44 11/16"
	6" 7,600	
	6" 10,000	
72" x 5"	3 1/2" 4,950	68 11/16"
	6" 7,600	
	6" 10,000	
84" x 5"	3 1/2" 4,950	80 11/16"
	6" 7,600	
	6" 10,000	
96" x 5"	3 1/2" 4,950	92 11/16"
	6" 7,600	
	6" 10,000	

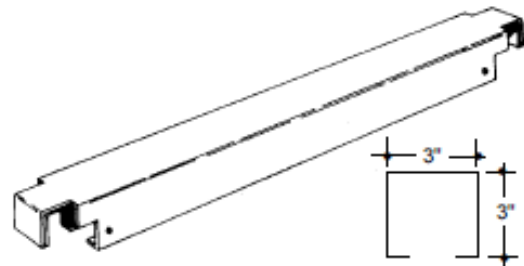


Frame Depth	Actual Length
36"	43 1/8"
40"	47 1/8"
44"	51 1/8"
48"	55 1/8"
60"	67 1/8"

USE WITH
2 X 12 DECK
ONLY



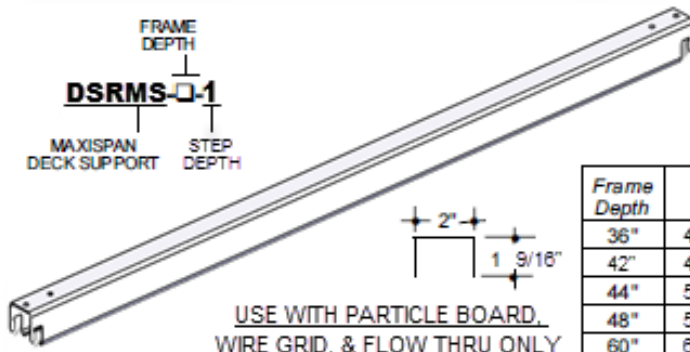
DECK SUPPORTS PER BEAM LENGTH			
Deck Support Type	Deck Type	Beam Length	QTY.
DSRMS	PARTICLE BOARD	36" to 72"	2
		84" to 96"	4
	WIRE GRID, FLOW THROUGH	36" and 48"	2
		72" to 96"	4
MSDS	2 x 12	36" to 96"	2



Frame Depth	Actual Length
36"	48"
40"	52"
44"	56"
48"	60"
60"	72"

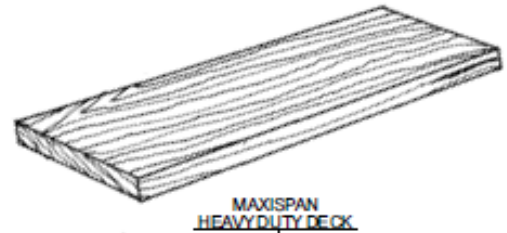
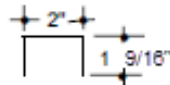
FRAME DEPTH
...see table
MMSDSF-□-2
MAXISPAN FLUSH DECK SUPPORT

PALLETS ONLY
one pair per pallet...no deck
LOAD CAPACITY...5,000 LBS/PAIR



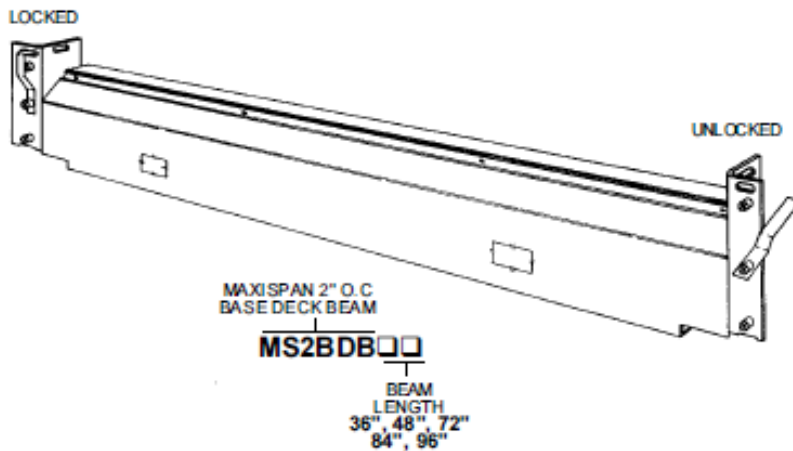
Frame Depth	Actual Length
36"	43 15/16"
42"	49 15/16"
44"	51 15/16"
48"	55 15/16"
60"	67 15/16"

USE WITH PARTICLE BOARD,
WIRE GRID, & FLOW THRU ONLY



FRAME DEPTH
MAXISPAN HEAVY DUTY DECKS
...dimensional 2 x 12

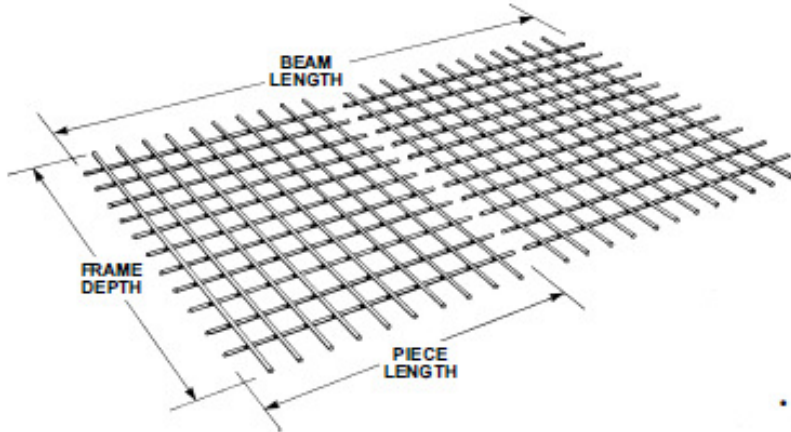
Frame Depth	Actual Length
36"	44 15/16"
40"	48 15/16"
44"	52 15/16"
48"	56 15/16"
60"	58 15/16"



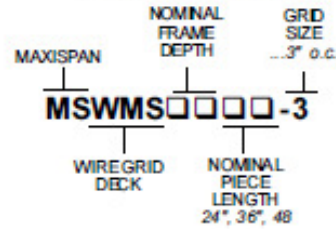
MAXISPAN BASE DECK BEAM
Accessory item, installs at the bottom of the frames.



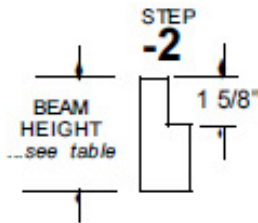
PARTS IDENTIFICATION



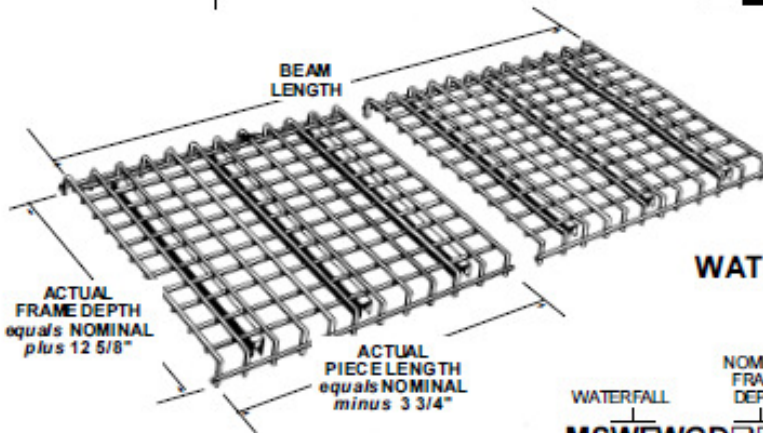
WIRE GRID ...USE WITH DSRMS-(ND)-1 ONLY



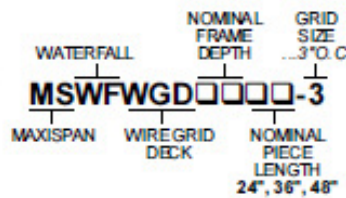
• PIECE LENGTH RUNS PARALLEL TO BEAM LENGTH



	NOMINAL BEAM LENGTH	...combine these PIECE LENGTHS to equal beam length
SINGLE DECK	36"	36"
	48"	48"
TWO PIECE DECKS	72"	36" plus 36"
	84"	36" plus 48"
	96"	48" plus 48"

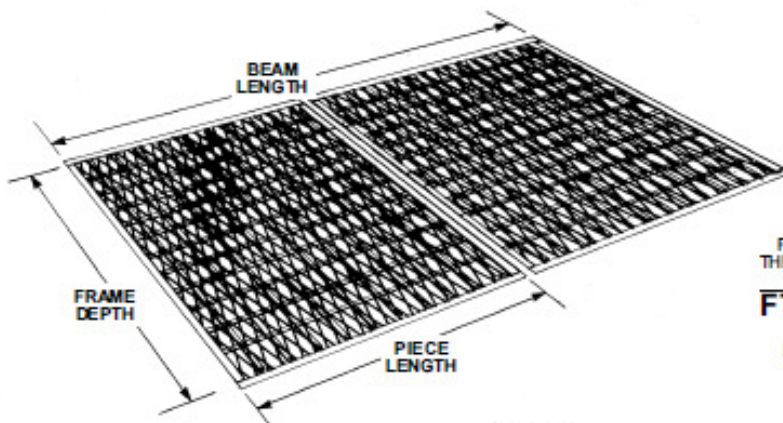


WATER FALL

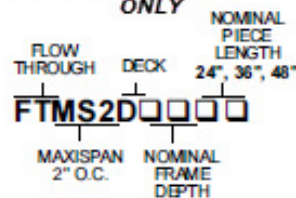


WIRE GRID AND FLOW - THRU DECK DIMENSIONS

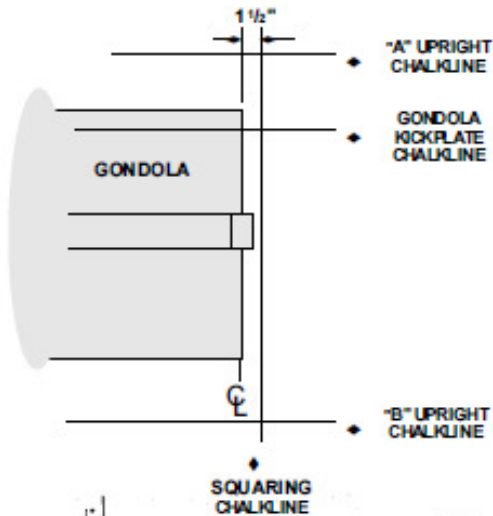
	+	
	NOMINAL	ACTUAL
FRAME DEPTH	36"	32 3/4"
	40"	36 3/4"
	44"	40 3/4"
	48"	44 3/4"
	60"	56 3/4"
PIECE LENGTH	24"	23 3/4"
	36"	35 3/4"
	48"	47 3/4"



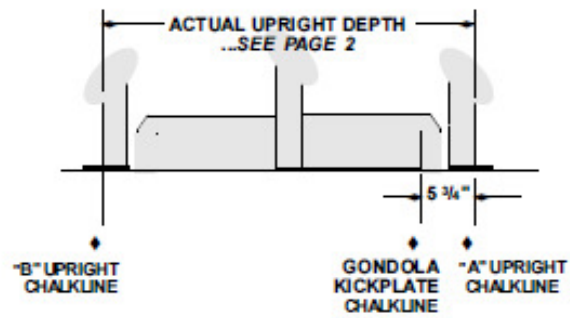
FLOW - THRU ...USE WITH DSRMS-(ND)-1 ONLY



ACTUAL SIZE OF EXPANDED METAL

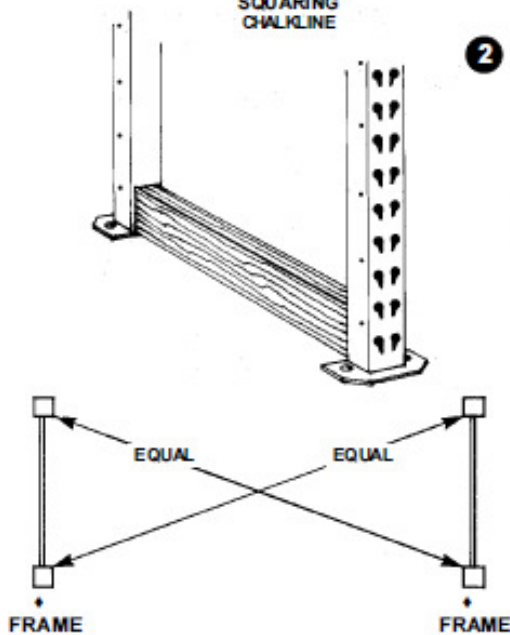


1 Layout chalklines on floor as shown.

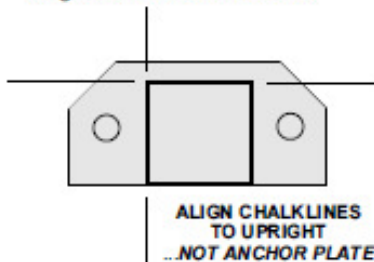


2 Leave the 2 x 4 shipping brace between the uprights of all frames as shown. Should the shipping brace be misplaced, refer to the upright table on page 2 for the proper cut length.

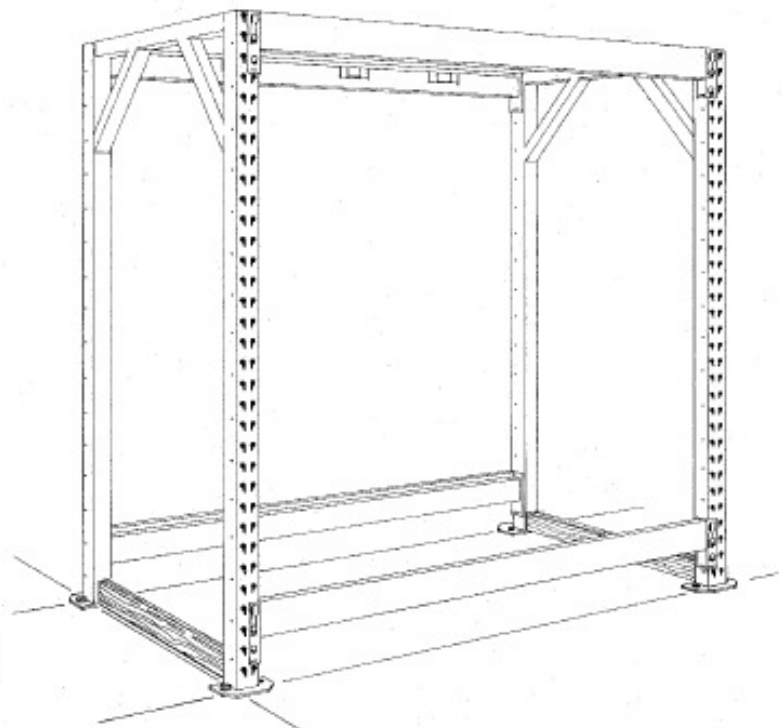
3 Raise both frames for the beginning section to vertical. Two pairs of beams are required for frames to stand alone. The upper pair should be installed at a designated height and a temporary beam pair slightly above the floor with clearance above the floor to allow for heavy duty drill operation for anchoring.



5 Align uprights of the first frame with the chalklines and square the section by equal diagonals as shown above.

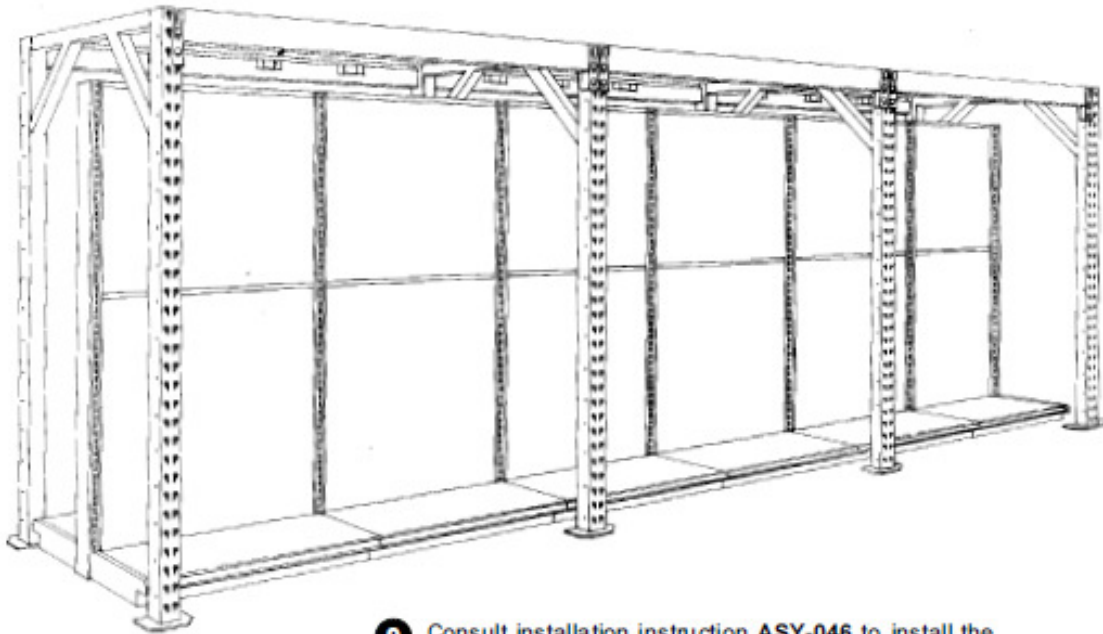
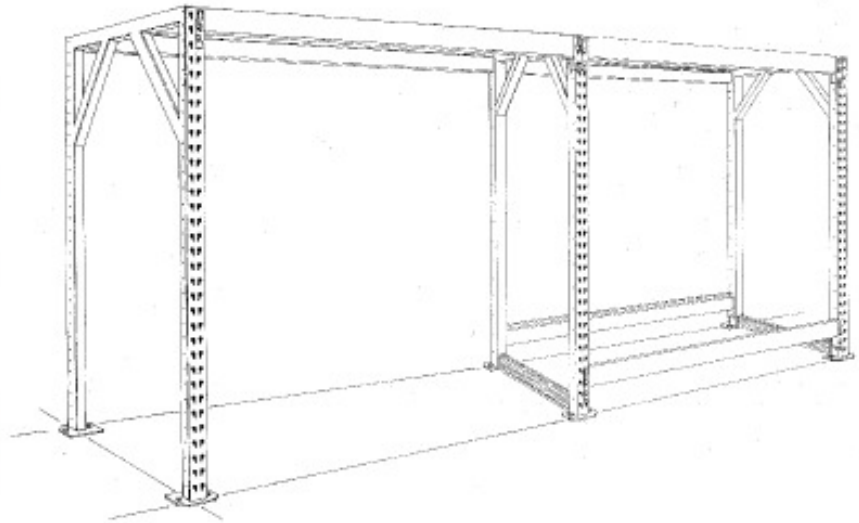


6 When assured section is squared and properly aligned on chalkline, anchor the frames to floor. See page 10 for expansion bolts.



INSTALLATION

- 5 Remove the shipping brace and the temporary beams from the first frame.
- 6 Raise the third frame to vertical and install the designated and temporary beams.
- 7 Align the third frame to chalklines and anchor to floor.
- 8 Repeat steps 5-7 with the remaining sections to the end of the run. The last section to be installed on the job may require temporarily borrowing beams from a completed section to finish the installation.

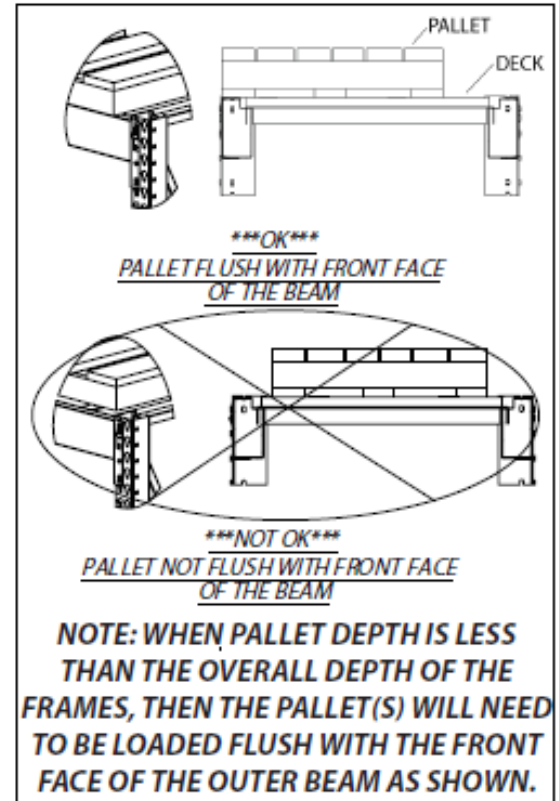
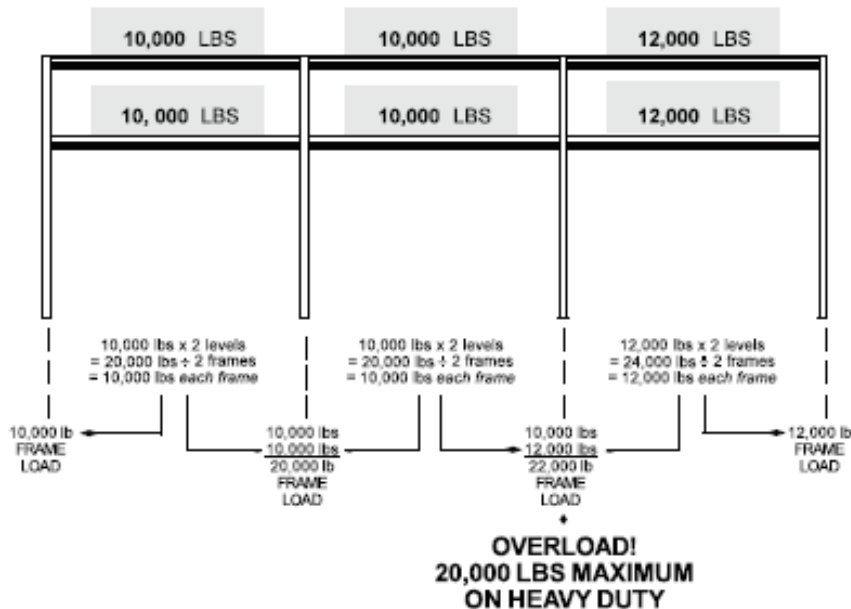


- 9 Consult installation instruction ASY-046 to install the gondola shelving under the Maxispan frames. The gondola back panels will need to be bowed in from the front instead of sliding down from the top. Centerlines of the gondola shelving and Maxispan frame members must align.
- 10 Install all deck supports and decks. Install shelves and accessories in shelving run.

COLUMN LOADING

- Column loading is the vertical load, *measured in pounds*, that can be applied on any frame.
- Each frame bears *ONE HALF OF THE LOAD OF EACH BEAM PAIR THAT IT SUPPORTS*.

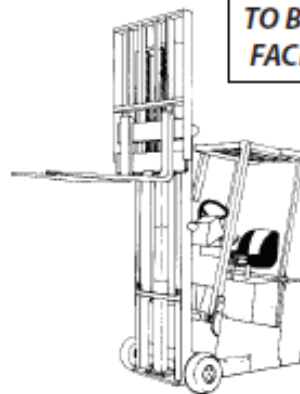
MAXISPAN FRAME, 3" x 3", HAS A 20,000 LB. LOAD CAPACITY.



BEAM SPACING

Spacing over 48" vertically reduces the column load capacity due to lack of support to channel.

Beam Length x Beam Height	Capacity in pounds/pair
36" x 5"	3 1/2" 4,950
	6" 7,600
	6" 10,000
48" x 5"	3 1/2" 4,950
	6" 7,600
	6" 10,000
72" x 5"	3 1/2" 4,950
	6" 7,600
	6" 10,000
84" x 5"	3 1/2" 4,950
	6" 7,600
	6" 10,000
96" x 5"	3 1/2" 4,950
	6" 7,600
	6" 10,000



VERTICAL IMPACT LOAD

Handling of pallets being placed on and removed from Maxispans is responsible for most beam failures. Considering the magnitude of the forces involved, no beam can be designed and guarantee not to fail if a pallet is dropped onto the rack. How the lift truck is operated is the sole responsibility of the owner. The owner must make sure that his drivers are properly trained and responsible, and that no one else can operate the trucks at any time.

Height to Depth Ratio:
Ratio should not exceed 6 to 1 measuring to the top of top most load. If ratio exceeds 6 to 1 the constraint can be overcome with proper anchoring or external bracing of the rack structure. CONSULT YOUR STRUCTURAL ENGINEER FOR SOLUTIONS.



ALL LOAD CAPACITIES ARE BASED ON EVEN WEIGHT DISTRIBUTION!

SAFETY DURING INSTALLATION

GENERAL

- ② Contact the local building department prior to starting installation to check on any restrictions.
- ③ Only parts and accessories produced or supplied by Madix are covered by Madix warranty.
- ④ Installation sequence must be followed exactly for assembly and leveling.
- ⑤ Under no circumstances should damaged parts be used.
- ⑥ Do not use shelving parts or accessories for any purpose other than originally intended.
- ⑦ Installation instructions with product load ratings are included with each order and must be followed carefully.
- ⑧ Merchandisers must be made aware of possible overloading as specified in load ratings. If you do not receive these, please contact your sales or customer service representative.
- ⑨ Initial installation or relocation of Madix gondola, wall or racking fixtures should be supervised exclusively by qualified personnel.

RACKING...FRAMES/ BEAMS

- ⑩ Observe all prohibitions in the installation instructions on the use of powered lifts.
- ① A minimum of four people are required to erect frames taller than 8'.
- ② Be sure all beams or accessories are completely seated and locked or secured in frame slotting.
- ⑩ Ladders, if used, should be at least frame height.
- ① Never stand on lower beams to install upper beams.
- ② Do not walk on decks, *especially wire grid*.
- ③ Never try to move a completed racking run, *especially if merchandised*.



**EXPANSION BOLTS
FOR FLOOR ANCHORS**
...4 expansion bolts, 1/2" - 13 x 4 1/2"
POWERS/RAWL Rawl-stud or other
ICBO approved expansion bolts.

PRFAK

See below for other ICBO approved
expansion bolts which may be used.

NOTE!

The expansion anchors provided by Madix for floor anchoring at this site have been supplied by one of the firms listed below. All the anchors have been tested and approved as stated by the following ICBO report numbers and all are manufactured in the United States or Canada. If the anchors are not provided by Madix and field substitution other than listed be proven, Madix cannot be held responsible. Should verification be required, call Madix Customer Service at

800.776.2349

	ICBO #
COBRA ANCHORS CORP., Parawedge concrete anchors.....	ER-2350 S1
DIVERSIFIED FASTENING SYSTEMS, DFS Wedge anchor.....	ER-4194 S1
GUNNEBO FASTENING CORP., Drop-in and Sup-r-stud concrete anchors.....	ER-3219 S1
HILTI, INC., Kwik-bolt-II concrete anchors.....	ER-4627 S1
HILTI, INC., HCKB Kwik-bolt concrete anchors.....	ER-5224 S1
ITW RAMSET/RED HEAD, ITW Ramset stud, Trubolt wedge and multi-set II concrete anchors.....	ER-4285
ISOMETRIC, LTD., Std, sleeve and drop-in anchor.....	ER-3631 S1
MARKSMAN MANUFACTURING CO., Thunderstud wedge anchor.....	ER-2713 S1
POWERS RAWL, Powers Rawl concrete anchors.....	ER-5225 S1
STAR EXPANSION CO., Wedge anchor Type 1.....	ER-2239
WEJ-IT, Wej-it anchor bolt and ANKR-TITE stud anchor.....	ER-1821 S1
YAMASHINA INTERNATIONAL, INC., Con-Lok concrete anchors.....	ER-4378

** Embedment must be minimum 5x bolt diameter.*

OTHER ICBO APPROVED ANCHORING MATERIALS
...not furnished by Madix

PNEUMATIC OR POWDER-DRIVEN STEEL STUDS AND NAILS

DEBA INTERNATIONAL, Remington low velocity powder actuated fasteners.....	ER-5087
HILTI, INC., Hilti low velocity powder actuated or pneumatically driven fasteners.....	ER-2388
ITW RAMSET/RED HEAD, Ramset powder actuated and power point fasteners.....	ER-16739

ADHESIVE/ EPOXY ANCHORS

GUNNEBO FASTENER CORP., Liquid roc 300 polyester capsule, pump and twin tube anchors.....	ER-4320
HILTI, INC., HVA adhesive and HIT adhesive anchor systems.....	ER-5193
ITW RAMSET/RED HEAD, ITW Ramset Epon system Ceramic 6 epoxy anchors.....	ER-4285
U.S. ANCHOR CORP., Solid bond HS-200, HST-200 and Concrete 1420 adhesive fasteners.....	ER-4398 S1
U.S. ANCHOR CORP., Ultra bond QC, At, Et and CA epoxy chemical anchors.....	ER-4996 S1

