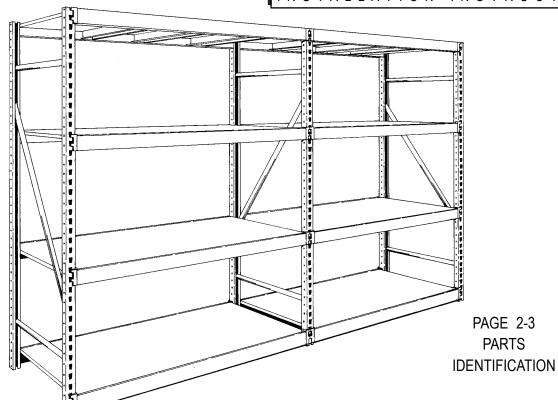
**PAGE 1 OF 10** 

**ASY 061** 

INSTALLATION INSTRUCTIONS

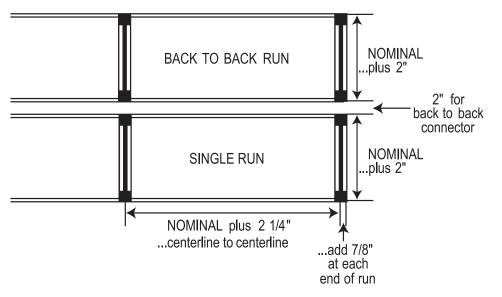


NOTE!

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

PAGE 4-5 BASIC INSTALLATION

PAGE 6-7 INSTALLATION OF EXTRAS



PAGE 8 LOAD CAPACITY

> PAGE 9 SAFETY

PAGE 10 ANCHORING TO FLOOR

madíx"

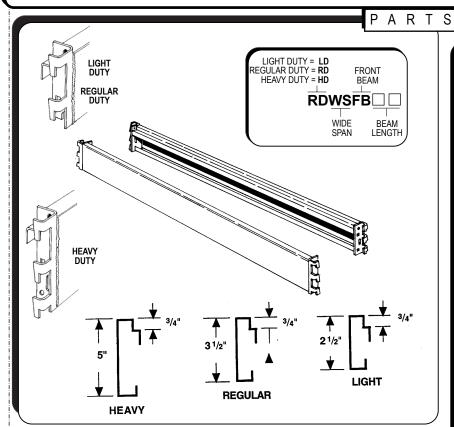
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LIGHT DUTY

**PAGE 2 OF 10** 

IDENTIFICATION

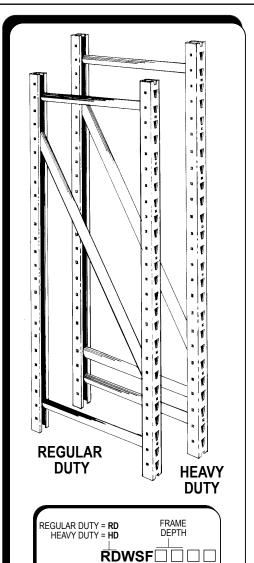


				REGU	GHT DUTY = I LAR DUTY = I AVY DUTY = I	RD	DECK SUPPORT
	DIMEN	ISIONS		1112		_	
Deck Su	upports	Ве	ams		K	DWS	שַשַש
			Actual			WIDE SPAN	FRAME DEPTH
Frame	Actual	Beam	Length				
Depth	Length	Length	Inside of	~			
			Brackets	K /	<b>&gt;</b> \		
18"	20"	48"	48 3/16"	1/			
24"	26"	60"	60 3/16"				
30"	32"	72"	72 3/16"				
36"	38"	84"	84 3/16"			`	
42"	44"	96"	96 3/16"				
48"	50"	_	-				· X
							/s
				_			
	1	-	1		<b>1</b>	<b>₹</b> 1 <sup>3</sup> /4"	
	// \	4"	/\ 2	3/4"	//	٠. ـ ـ ـ ـ ـ	

HEAVY DUTY

REGULAR

DUTY



FRAME DIMENSIONS				
Frame	Actual	Frame	Actual	
Depth	Depth	Height	Height	
18"	20"	48"	48 "	
24"	26"	60"	60"	
30"	32"	72"	72"	
36"	38"	84"	84"	
42"	44"	96"	96"	
48"	50"	108"	108"	
-	-	120"	120"	

WIDE SPAN

FRAME

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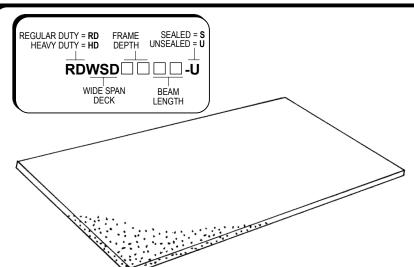


FRAME

HEIGHT

**PAGE 3 OF 10** 

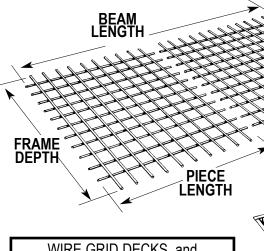
PARTS IDENTIFICATION



PARTICLE BOARD DECKS				
	dime	nsions		
Frame	Actual	Beam	Actual	
Depth	Depth	Length	Length	
18"	18"	48"	47 29/32"	
24"	23 29/32"	60"	60"	
30"	30"	72"	72"	
36"	36"	84"	84"	
42"	42"	96"	96"	
48"	48"	-	-	

NOMINAL FRAME DEPTH

FLOW THROUGH



WIRE GRID DECKS, and
OW THROUGH DECKS

dimensions				
Frame	Actual	Piece	Actual	
Depth	Depth	Length	Length	
18"	17 3/4"	24"	23 3/4"	
24"	23 3/4"	36"	35 3/4"	
30"	29 3/4"	48"	47 3/4"	
36"	35 3/4"	-	-	
42"	41 3/4"	-	-	
48"	47 3/4"	-	-	

WINE ON B	FT <u>W\$D</u> □□□□
	WIDE SPAN NOMINAL PIECE DECK LENGTH
	FLOW THROUGH
Mila	

GRID

SIZE ...**3"**o.c.

□ □ -3

NOMINAL PIECE LENGTH

WIRE GRID and FLOW THROUGH PIECE					
LENGTHS	LENGTHS RUN PARALLEL TO BEAM LENGTHS				
BEAM	COMBINATIONS OF				
LENGTH	PIECE LENGTHS	SUPPORTS			
36"	36"	2			
48"	48"	2			
60"	24" plus 36"	4			
72"	36" plus 36"	4			
84"	36" plus 48"	4			
96"	48" plus 48"	4			

NOMINAL

FRAME DEPTH

**WSWMS**□□

WIRE GRID

DECK

WIRE GRID

SPAN



**PAGE 4 OF 10** 

**ASY 061** 

BASIC INSTALLATION

Snap chalklines on floor as shown for shelving layout. See diagram on page one for dimensions.

Raise first frame to vertical position and install first beam...frame will now stand alone.

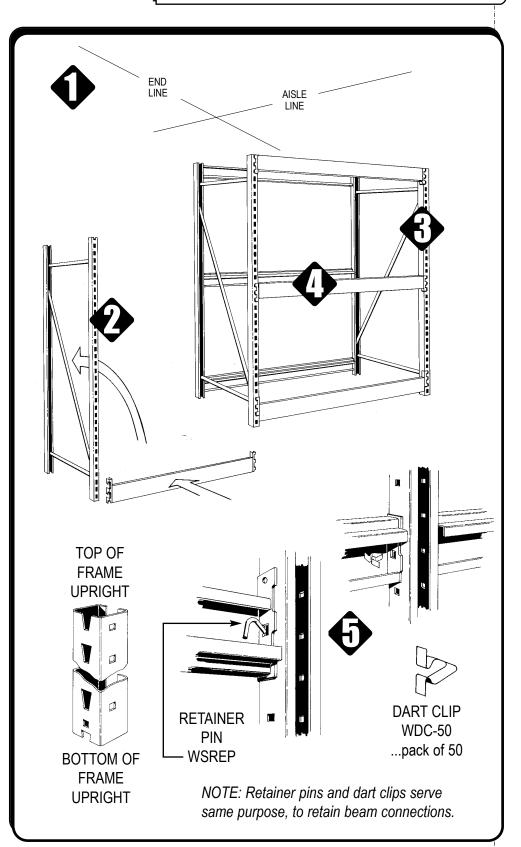
NOTE! If floor anchors or extension frames are to be used, they should be installed prior to raising frames to the vertical position...see pages 5-6.

Raise second frame to vertical and install free end of first beam... install second beam on opposite side.

Install upper beams at designated levels.

### If using Dart Clips:

Press dart clips through beam bracket and upright on under side of beam as shown. Insert one dart clip at each end of all beams. *If using Retainer Pins:* Insert one leg of a retainer pin through beam bracket and upright. Insert one pin at each end of all beams.







**PAGE 5 OF 10** 

ASTUUT

Repeat assembly sequence with remaining frames, beams and dart clips/retainer pins.

NOTE! If back to back runs are being installed, see page 6 for back to back connectors.

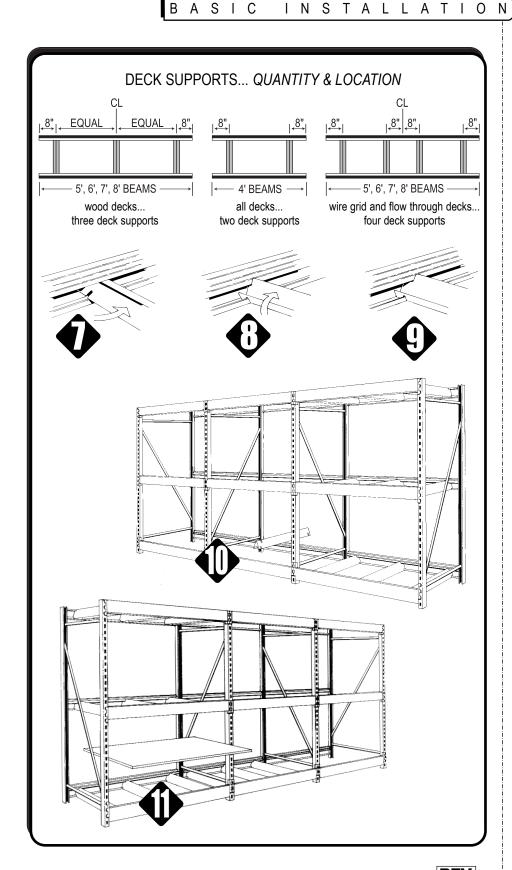
Holding the deck support at an angle to the beam, squeeze the open side and insert into the beam, then swing the free end around to the opposite beam, squeeze the open side and insert into the beam.

Squeeze the open side of the deck support at each end just inside the beam and rotate upwards as shown.

Correct installed position will look like this...see above for quantity of deck supports per beam length.

Repeat with the remaining deck supports in the shelving run.

Install all decks in the shelving run.







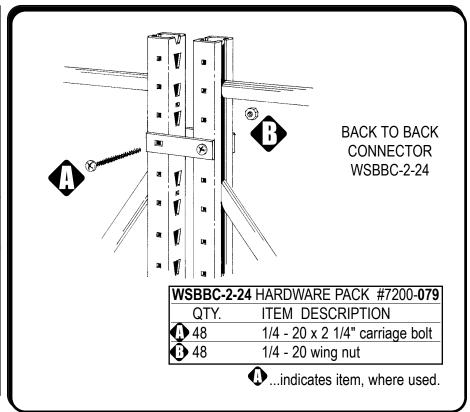
**PAGE 6 OF 10** 

INSTALLATION EXTRAS

The first sections of the back to back run should be erected with beams at top and bottom of the four frames. Locate the connectors just below the top beams and just above the bottom beams. Secure with the fasteners as shown.

Repeat with the remaining sections.

Install all intermediate beams as required, then install a third connector as close as possible to the mid-point of the frames. Complete the shelving run with the deck supports and decks.



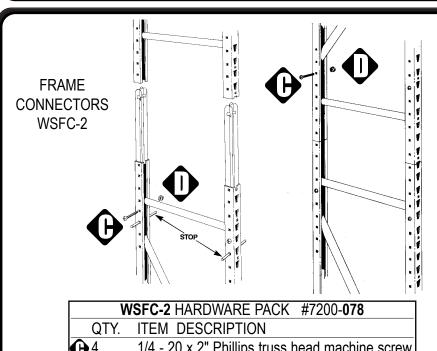
In the sixth square hole from the top of the lower frame, insert a stop to prevent the connector from dropping to the floor.

Insert connector into frame with flat center of connector facing the slotting.

Screw connector to lower frame with provided fasteners...remove the stop.

Repeat above with the 2nd upright of the frame.

Lower upper frame onto connectors and secure through the sixth hole up from the joint.



1/4 - 20 x 2" Phillips truss head machine screw 1/4 - 20 hex nut ...indicates item, where used.





**PAGE 7 OF 10** 

FLOOR ANCHOR WSFA-2

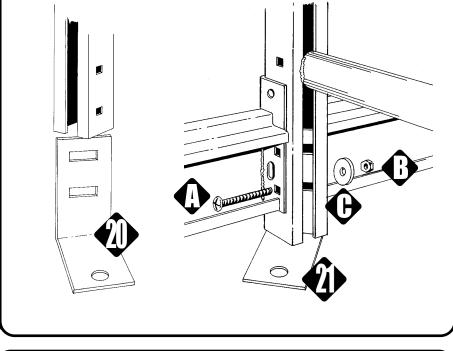
INSTALLATION EXTRAS

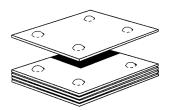
NOTE! IF FRAME HEIGHT, OR TOTAL HEIGHT OF CONNECTED FRAMES, IS MORE THAN SIX TIMES THE FRAME DEPTH ...FRAMES MUST BE SECURED WITH FLOOR ANCHORS.

Insert floor anchors into the bottom of each frame. They will only insert at 45° to the frame. Make sure that anchors are inserted so that they will not project into aisles or cross aisles.

Follow directions on page 4 to step 6, except do not install dart clips on bottom beams. Secure beams to frames through the floor anchor as shown. The screw will go through at one of the two locations, depending on the beam size.

Check run alignment to LEVELING SHIM chalkline prior to drilling floor WSLS-10C for expansion bolts. Due to Ten pack of galvanized varying floor conditions, shims...dimpled expansion bolts must be to fit in bottom of upright and ordered separately. If they maintain were not ordered initially, but stacking interlock.





### WSFA-2 HARDWARE PACK #7200-080 QTY. ITEM DESCRIPTION

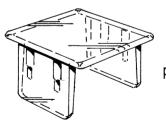
1/4 - 20 x 2 1/2" round head machine screw

1/4 - 20 hex nut 1/4" flat washer

are required, see page 8 to

order from Madix or purchase locally.

..indicates item, where used.



**TOP CAP** WSTC - □ -CL Packs of 4 or 48 clear plastic top caps, two per frame. Tap into top of each frame upright.





## DE SPAN SHELV

**PAGE 8 OF 10** 



0 Α D

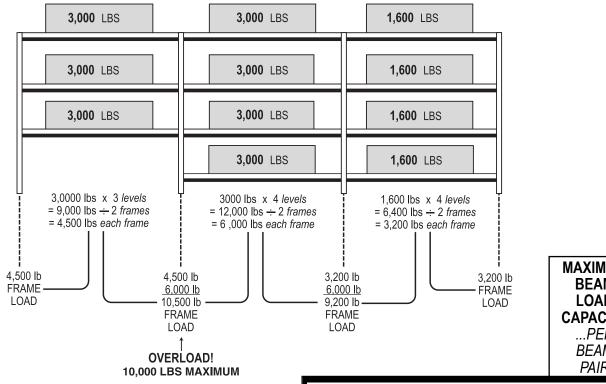
Ε

HAND STACK ONLY! POWERED FORK TRUCKS OR STACKERS ARE NOT RECOMMENDED FOR USE ON WIDE SPAN SHELVING



### FRAME LOADING

Frame loading is the vertical load, measured in pounds, that can be applied on any Wide span frame. Each Wide span frame will bear ONE HALF OF THE LOAD ON EACH BEAM PAIR that it supports. ALL FRAMES HAVE 10,000 POUND LOAD CAPACITY!



MAXIMUM **BEAM** LOAD **CAPACITY** ...PER

**BEAM** PAIR

 Based on evenly distributed loads

· Based on 96" beam length, all frame widths

I	BEAM	LIGHT	REGULAR	HEAVY	# OF DECK
4	LENGTH	DUTY	DUTY	DUTY	SUPPORTS
	48"	1000 #	1600 #	3000 #	2
I	60"	1000 #	1600 #	3000 #	3
I	72"	1000 #	1600 #	3000 #	3
I	84"	1000 #	1600 #	3000 #	3
4	96"	1000 #	1600 #	3000 #	3
	7				



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SAFETY DURING INSTALLATION

### **GENERAL**

- 1. Contact the local building department prior to starting installation to check on any restrictions.
- Only parts and accessories produced or supplied by Madix are covered by Madix warranty.
- 3. Installation sequence must be followed exactly for assembly and leveling.
- 4. Under no circumstances should damaged parts be used.
- 5. Do not use shelving parts or accessories for any purpose other than originally intended.
- 6. Installation instructions with product load ratings are included with each order and must be followed carefully.
- 7. 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.
- 8. Initial installation or relocation of Madix gondola, wall or racking fixtures should be supervised exclusively by qualified personnel.

### RACKING... FRAMES / BEAMS

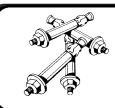
- 9. Observe all prohibitions in the installation instructions on the use of powered lifts.
- 10. A minimum of four people are required to erect frames taller than 8'.
- 11. Be sure all beams or accessories are completely seated and locked or secured in frame slotting.
- 12. Ladders, if used, should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





PAGE 10 OF 10

ANCHORING TO THE FLOOR



### **EXPANSION BOLTS FOR FLOOR ANCHORS**

...50 expansion bolts, 3/8"- 16 x 3 1/2" POWERS/RAWL Rawl-stud or other ICBO approved expansion bolts.

**SFA-EB50:** 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	350 S1
DIVERSIFIED FASTENING SYSTEMS, DFS Wedge anchorER-41	194 S1
GUNNEBO FASTENING CORP., Drop-in and Sup-r-stud concrete anchors	219 S1
HILTI, INC., Kwik-bolt-II concrete anchorsER-46	327 S1
HILTI, INC., HCKB Kwik-bolt concrete anchors	224 S1
ITW RAMSET/RED HEAD, ITW Ramset stud, Trubolt wedge and multi-set II concrete anchors .ER-42	285
ISOMETRIC,LTD., Std, sleeve and drop-in anchor	31 S1
MARKSMAN MANUFACTURING CO., Thunderstud wedge anchor	713 S1
POWERS RAWL, Powers Rawl concrete anchors	225 S1
STAR EXPANSION CO., Wedge anchor Type 1	
WEJ-IT, Wej-it anchor bolt and ANKR-TITE stud anchor	321 S1
YAMASHINA INTERNATIONAL, INC., Con-Lok concrete anchorsER-43	378
*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 fastener	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 Epcon system Ceramic 6 epoxy anchors	.ER-4285
U.S. ANCHOR CORP., Solid bond HS-200, HST-200 and Concresive1420 adhesive fasteners	.ER-4398 S1
U.S.ANCHOR CORP., Ultra bond QC, At, Et and CA epoxy chemical anchors	.ER-4996 S1



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B

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REV#	ECN#	REVISION	BY	DATE	REV#	ECN#	REVISION	BY	DATE
Α	4866	REVISE LAYOUT	ACM	2/24/00					
В	AL3535	ADD WSREP	AJB	12/16/04					