

## STEEL SHELVING INSTRUCTION SHEET

## **CAUTION**

IT IS THE RESPONSIBILITY OF THE PERSON ASSEMBLING THE SHELVING TO PROPERLY INSTALL ALL COMPONENTS AND HARDWARE AS SPECIFIED IN THESE INSTRUCTIONS AND ANY ACCOMPANYING DRAWINGS FOR SPECIFIC INSTALLATION.

- INSTALL ALL REQUIRED SIDE AND BACK SWAY BRACES
- INSTALL FOOT PLATES AND SHIMS IF REQUIRED
- INSTALL ALL UNITS PLUMB
- TIGHTEN ALL HARDWARE SECURELY

## GENERAL INSTRUCTIONS

- 1. These instructions are for the person who will actually supervise the assembly of the equipment covered by your order. -- Please see that they get them --
- 2. Check material received against the packing list. First check the number of packages received and then check the contents of each package.
- 3. Check material received for damage. If damaged, secure a "damage notation" from the carrier.
- 4. Identify each part as it is unpacked and pile like parts together and as close as possible to the working area in which they are to be assembled.
- 5. Lay out on the floor the space that each rack of shelving is to occupy and build each rack in its proper location.
- 6. Be careful to use the correct hardware as specified in the assembly instructions.
- 7. Make sure units are plumb before tighting sway braces and/or back panel bolts.

# HI-TECH® BY



## **HARDWARE SCHEDULE**

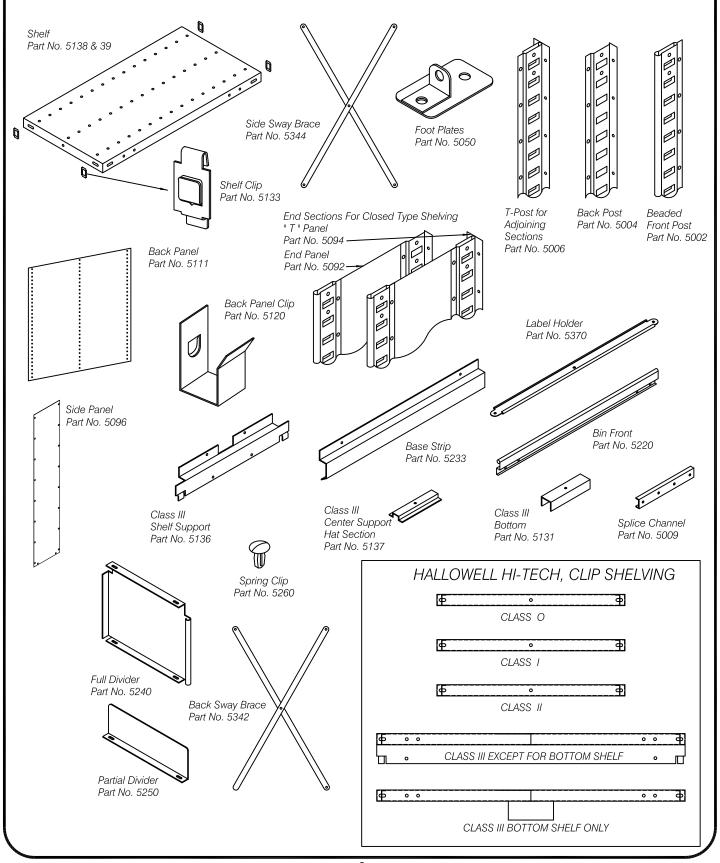
ITEM	Nuts & Bolts 1/4-20 x 1/2" lg.	Nuts & Bolts 1/4-20 x 1 1/4" lg.	Back Panel Clips Part No. 5120	Spring Clips Part No. 5260
Back Panels 3' 3"	6		3	
Back Panels 6' 3"	8		4	
Back Panels 7' 3" and 8' 3"	10		4	
Back Panels 10' 3"	12		5	
Shelf Reinforcing Channels	3			
Bin Fronts		3		
Base Strips	3			
Full Dividers (up to 18" deep)				4
Full Dividers (24" deep)				6
Partial Dividers (up to 18" deep)				2
Partial Dividers (24" deep)				3
Label Holders				3
Back Sway Braces	5			
Side Sway Brace	5			
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NOTE: All bolts are Truss Head type with hex type nuts.

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## **PARTS BREAK-OUT**

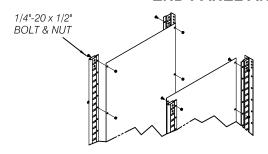


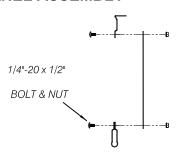
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## **CLOSED TYPE SHELVING**

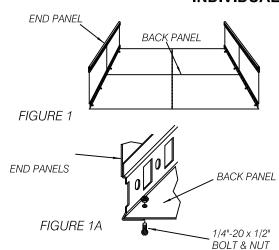
#### **END PANEL AND "T" PANEL ASSEMBLY**







#### INDIVIDUAL UNITS - 3' 3" TO 10' 3" HEIGHTS



#### STEP 1. END PANELS TO BACK PANEL

Use two end panels. Start with assembly in horizontal position, back panel flat on floor, bench or trestles.

Slide inside of back posts on end panel flat on floor, bench or trestles. Slide inside of back post on end panel under back panel and bolt. (Figure 1 & 1A)

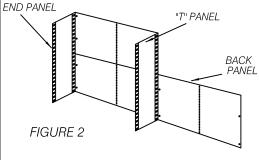
NOTE: Units 3' 3" or greater in height require multiple back panels which overlap.

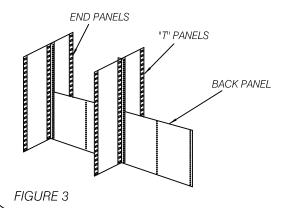
#### **BACK TO BACK UNITS**

Hook shelf clips into indentation at top of front & rear post, and hook back panel clip through top center hole in back panel. Position top shelf with rear flange on back panel clip and hook end flanges of shelf on shelf clips.

Then wedge in lock position.

#### STARTING, ADJOINING and BACK to BACK UNITS





Use one end panel and one "T" panel for starting unit.

Position lower back panel inside back post of end panel and bolt.

#### **BACK TO BACK UNITS**

Use two end panels in an upright position, back to back. Slide lower back panel between rear flanges of end panels and bolt (Figure 3).

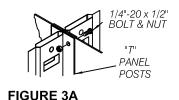
Leave top holes of lower back panel unbolted; add "T" panels and lower back panels until rack of sides and backs are completely assembled.

- a. Add bottom shelves (as in Step 4) and shelf near center of units (as in Step 5).
- b. Add top half of back panels to rack, in same manner as lower half and bolt.
- c. Add top shelves to rack as in Step 2.
- d. Add necessary intermediate shelves as in Step 5.

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## **CLOSED TYPE SHELVING**

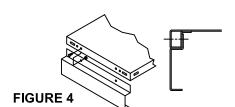


### STEP 2.

TOP SHELF (See Step 2 for Individual Units)

### **STEP 3.** ACCESSORIES

Insert Class III shelf support (if required) in shelves. Add bin are not necessary for the top shelf. Spring clips are normally



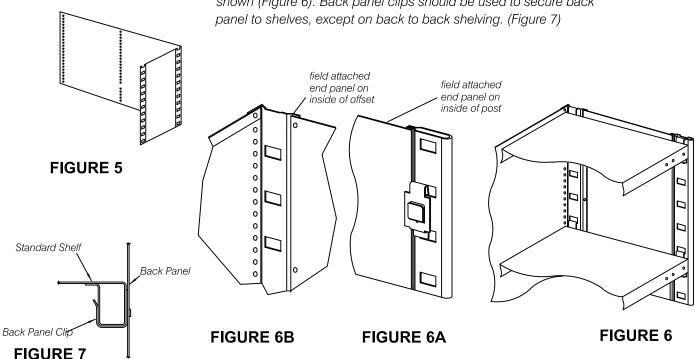
### **STEP 4.** BOTTOM SHELF (All Units)

Bolt base strip to bottom shelf. (Figure 4). Hook shelf clips into second rectangular slots from bottom of post. Hook back panel to back units.

Position bottom shelf over back panel clip with end flanges hooked on shelf clips and wedge down.

# STEP 5. ADDING REMAINING SHELVES

Hook shelf clips to panels (Figure 6A), position shelves with end flanges hooked on shelf clips and wedge shelves down in locked position as shown (Figure 6). Back panel clips should be used to secure back panel to shelves, except on back to back shelving. (Figure 7)



BY

SIDE PANEL SWAY BRACE



## OPEN TYPE SHELVING

				1/4-20 x 1/2 Pan Hd.
POST HEIGHT	SHELF DEPTH	"A"	" <i>B</i> "	Front Post Part No. 5003  Bolts Hex Nuts & Lockwashers (5)
31 - 311	12 15 18 24 30 36	9" 7 1/2" 6" 6" 6" 6"	21" 24" 27" 27" 27" 27"	"A"  Side Sway Brace
6' - 3"	12 15 18 24 30 36	27" 25 1/2" 24" 24" 24" 24"	21" 24" 27" 27" 27" 27"	FIGURE 9  Fasten side sway braces to front and back posts of the open section, maintaining dimension "A" according to the length of the post.
	12	33"	21"	

27"

27"

27"

27"

21"

24"

27"

27"

27"

27"

21"

24"

27"

27"

27"

NOTE: If finished end panels are to be used, be sure to place side sway braces on inside of post with bolt head on outside of post.

#### INDIVIDUAL UNIT

Use two beaded posts for front and two back posts.

#### STARTING UNIT

Use two beaded posts for front, one back post, and one rear "T" post.

#### BACK TO BACK

For individual back to back units use four post assemblies with back posts. For starting back to back units use two post assemblies with back post and two with rear "T" posts.

#### These heights require two pair of sway braces. Hold 'A' from each end of post

15

18

24

30

36

12

15

18

24

30

36

12

15

18

24

30

36

7' - 3"

8' - 3"\*

10' - 3"\*

30"

30"

30"

30"

24"

21"

18"

18"

18"

18" 31 1/2"

28 1/2"

25 1/2"

25 1/2"

25 1/2"

25 1/2"

### TOP AND BOTTOM SHELF

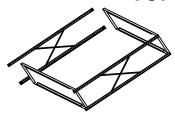


FIGURE 10

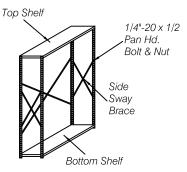


FIGURE 11

FIGURE 12

#### A. HI-TECH SHELVING

Place shelf clips into second rectangular slot from bottom of posts, and into the indentation at top. Now add the top and bottom shelves to post and sway brace assemblies. (Figure 10)

#### LOCATING BACK SWAY BRACES

Back sway braces are the cross strap type. They must be bolted to the back posts at 4 points and where they cross in the center. Use five 1/4"-20 x 1/2" pan hd. bolts and nuts per pair of braces.

#### INDIVIDUAL UNITS

Starting and/or inserting shelves at top and bottom as per step 5. Stand in upright position and add back sway braces as shown in Figure 11.

#### BACK TO BACK UNITS

Assemble unnits as described above. Stand starting sections in an upright position. Place units back to back. Insert back sway braces between rear posts as shown in Figure 13 and bolt through posts, connecting units together as shown in Figure 12.

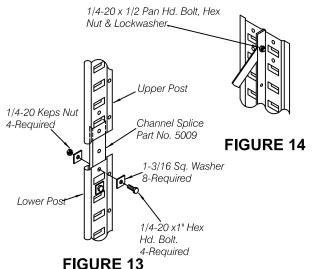
NOTE: For 8'-3" &10'-3" high units, use 2 sets of sway braces.

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## OPEN TYPE SHELVING

### **ADDING ADJOINING UNITS**



Hook shelf clips into second retangular slot from the bottom of the starting unit and into indentation at the top of the post assembly. Preassemble a beaded post-rear "T" post combinaition (two required for an adjoining back to back unit) with shelf clips. Add top and bottom shelves, using them to hold new post combination in place while the sway braces are secured to the back posts.

Add intermediate shelves as required per Step 5.

"Beaded Front Post and Tee Post"

- 1. Insert channel in lower front post and tee post and bolt with, (2) 1/4"-20 x 1" hex head bolts, (4) square washers and (2) 1/4"-20 keps nuts, through oval slots in end of posts. Figure 13.
- 2. Place upper post over extended splice channel and bolt through oval slots as in step 1 above. Figure 13.

#### "Back Post"

1. Place splice channel on outside of post and bolt as above except square washers are not required on exposed splice channel.

### **SWINGING DOOR ASSEMBLY INSTRUCTIONS**

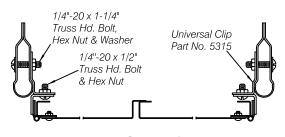
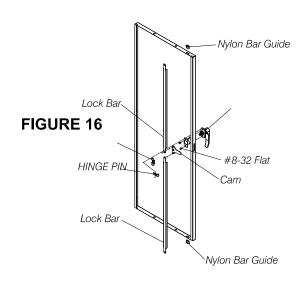


FIGURE 15

- Step 1: Remove three items form carton. Door and frame assembly, lock bars and hardware kit.
- Step 2: Read all information on assembly instruction and famlarize yourself with all component names.
- Step 3: Bolt universal clips to post with 1/4-20 x 1-1/4" truss head bolts and hex nuts. Use four universal clips on 36" and 48" door and frame, and use six universal clips on 73" and 85" door frame. Bolt door and frame to universal clips with two 1/4-20 x 1/2" truss head bolts and hex nuts.
- Step 4: Assemble handle and other locking mechanism to door per handle instructions. Keep door handle on R.H. door.

### HANDLE ASSEMBLY INSTRUCTIONS

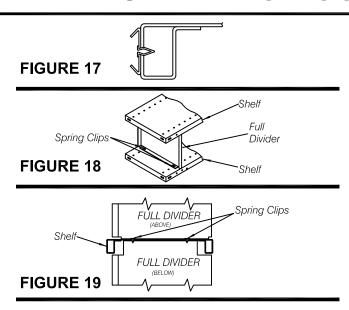


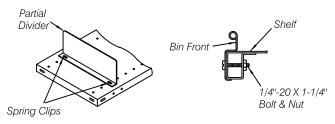
- Step 1: Attach handle to the right hand door with the two screws #8-32 bolts.
- Step 2: Install the nylon bar guides in top and bottom door slots.
- Step 3: With right hand door laying down, place lock cam thru slot in door and over handle with pins out. Insert lock rods into lock rod guides and position holes in lock rods on pins of lock cam. Secure in place with cam keeper using #8-32 flat head screw.

BY



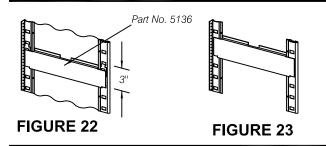
## SHELVING ACCESSORIES

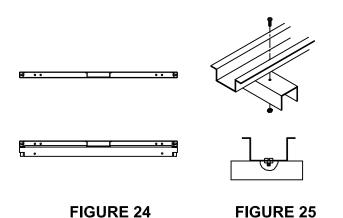




#### FIGURE 20

#### FIGURE 21





#### 1. Label Holders

Label holders are attached to front flange of shelf with spring clips. Place label holder against front flange of shelf and push spring clip thru holes in shelf (Figure 17).

#### 2. Full Dividers

Any shelf opening may be divided into two or more bins by the installation of full dividers. To install dividers, place them in position between the shelves where required and align slots in flanges of the dividers with holes in shelves. Attach dividers to shelves with spring clips as in (Figure 18).

Where dividers are above and below a shelf and in alignment, use common spring clips to attach the two dividers, as in Figure 19.

Dividers may also be bolted to shelves by customer but only spring clips are furnished as hardware.

#### 3. Partial Dividers

Partial dividers are attached to shelves where required as illustrated, with spring clips (Figure 20).

Partial dividers may also be bolted to shelves, but only spring clips are furnished as hardware.

#### 4. Offset Bin Front

Bin fronts are attached to front flange of shelf with 1/4"-20 x 1-1/4 pan hd. bolts and nuts.

Place bin front against front flange of shelf as shown and bolt thru holes in bin front and shelf (Figure 21).

#### 5. Class II Shelf Support

A Class 3 shelf support is used for class 3 shelf classification. Position support into second rectangular slots directly below required shelf position as shown in (Figure 22).

Insert top shelf clip into second rectangular slot above Class 3 shelf support. Now place shelf with reinforcing Hat section positioned in center of shelf, into clips and wedge shelf down in locked position.

### 6. Class III Shelf Support Brace (#5136)

Insert shelf clips in post at desired location, then insert Class Three Shelf supports in slot below shelf clip in front and rear posts as shown in (Figure 24). Insert hat shaped Class II Center Suppport with flanges up against underside of shelf and under return flanges on side of shelf. Align with center of shelf and place on shelf clips. Be sure center tab on 5136 Shelf Support Brace is on outside of shelf and reinforcement is lined up with notch in support brace, then wedge shelf into clips (Figure 24).

#### 7. Bottom Shelf Class III

Bolt Class III Center Support Hat Section to bottom shelf support brace as shown in (Figure 25). Insert this assembly into shelf as described above. Place in unit on shelf clips and wedge shelf into clips. Part No. 5136 shelf support braces are not required.