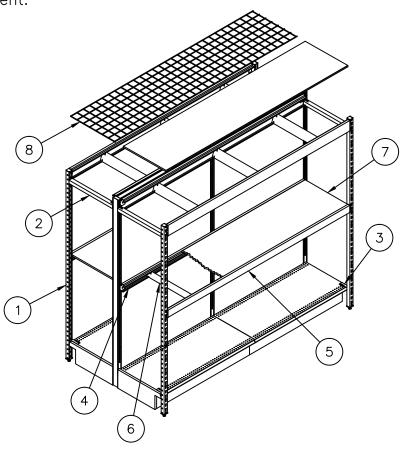
MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)

NOTE: Multi-Function Beams are identified by a MF stamped into the right end of each beam. Multi-Function Shelf Supports are identified by a MF stamped into the end of each Shelf Support.

NOTE: Personnel must be provided with safe access to all elevations of storage equipment or display fixtures via ladders, stairways, or other means in accordance with applicable OSHA regulations. In NO case should anyone be allowed to climb or stand on storage or display equipment.



ITEM NO.	DESCRIPTION	PART NUMBER
1	Multi-Function Uprite	MFU or MFU_RE
2	Multi-Function Uprite Brace	MFUB
3	Multi-Function Uprite Deck Connector	MF1151
4	Multi-Function Back Beam	MFBB or MFBB_HD
5	Multi-Function Front Beam	MFFB or MFFB_HD
6	Multi-Function Shelf Support	MFWSS or MFWSS_HD
7	Multi-Function Wood Shelf	MFS
8	Multi—Function Wiregrid Shelf	MFWG
9	Multi-Function Wood Deck (not shown)	MFD
10	Beam Locking Clip	WS1291
11	Beam Locking Hardware	WS9111

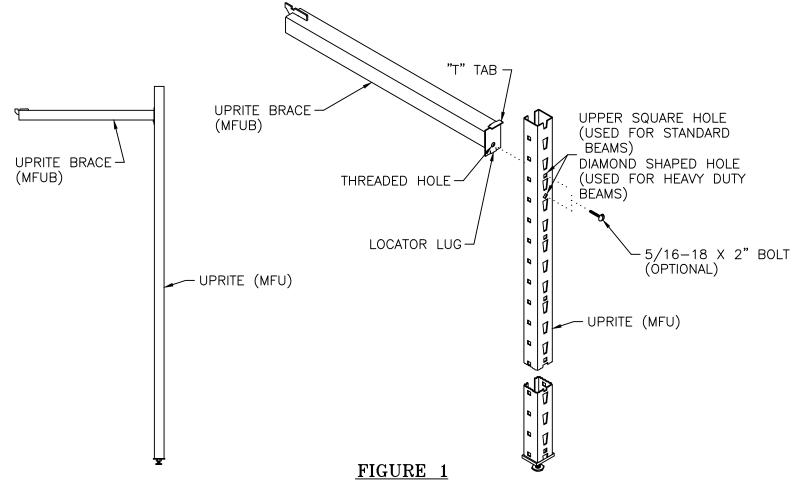
MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)

Install Standard Lozier Shelving in accordance with the installation instructions provided. Do not install shelves at this time.

Assemble the Multi-Function components to the standard shelving as follows:

NOTE: Use of a light valance may require that the MFUB be located differently than shown in the following steps. Review the light valance installation instruction now before proceeding.

- STEP 1: Attach the Multi-Function Uprite Brace (MFUB) to the Multi-Function Uprite Post (MFU or MFU_RE).
 - a) Insert the "T" Tab of the Uprite Brace into the rear opening of the uprite and rotate into a vertical position (SEE FIGURE 1).
 - b) Be sure the Locator Lug is inside the uprite rear opening.
 - c) The 5/16-18 x 2" Bolt is optional and can be used to help hold the Uprite Brace and the Uprite together while installing the assembly into the Display Uprite.
 - -- If Standard Front Beams (MFFB) are to be used, align the hole in the Uprite Brace with the upper square hole in the Uprite and fasten the bolt.
 - -- If Heavy Duty Front Beams (MFFB_HD) are to be used, align the hole in the Uprite Brace with the diamond shaped hole in the Uprite and fasten the bolt.





MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)

STEP 2: Install the assembled Uprite/Uprite Brace in the Display Shelving Uprites.

- a) Tilt Uprite/Uprite Brace and insert the Uprite Brace Hook into the Display Shelving Uprite Slot.
 - -- Use 3rd slot from top if Standard Front Beams (MFFB) are to be used.
 - -- Use 5th slot from top if Heavy Duty Front Beams (MFFB_HD) are to be used.
- b) Rotate Uprite/Uprite Brace as shown to bring the Uprite to a vertical position (SEE FIGURE 2).

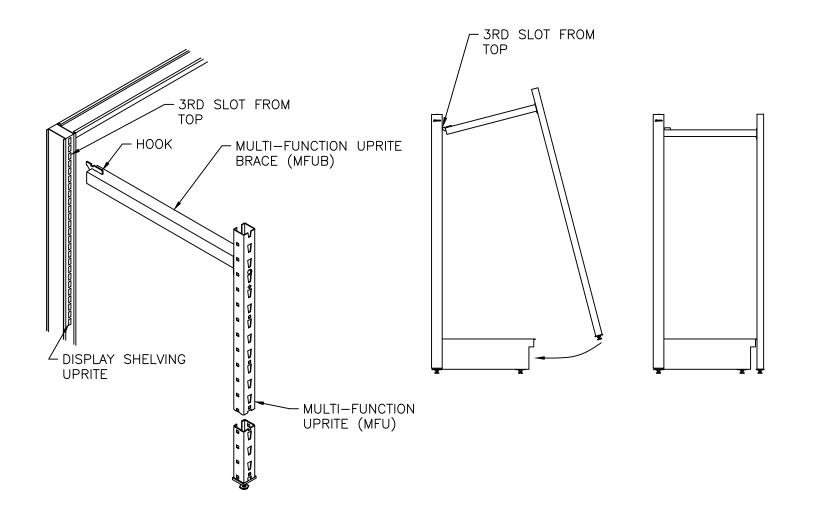
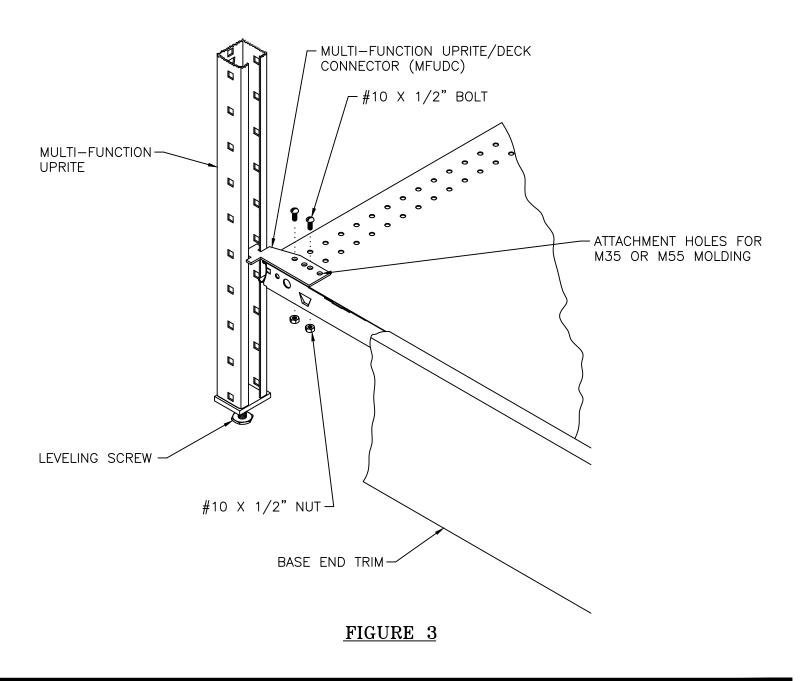


FIGURE 2



MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)

- STEP 3: Insert the Multi-Function Uprite/Deck Connector (MFUDC) into the lower rear of the Mult-Function Uprite Post and rotate it so the slots fit around the rear flanges in the post.
 - a) Attach the Deck Connector using the holes required to provide desired clearance at front of deck. Using two $\#10 \times 1/2$ " bolts and nuts, fasten to the outward pair of holes in the SD Deck (SEE FIGURE 3).
 - b) Adjust the leveling screw at bottom of Uprite until it touches the floor.





MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)

STEP 4a: Installation of beams and shelves without a TOP LEVEL OVERSTOCK SHELF

NOTE: A minimum of one Multi-Function Shelf must be used at the top of the gondola for stability and proper spacing of MF Uprites.

NOTE: MFFB and MFFB_HD are 2" shorter than same nominal size widespan beams.

- a) Install Multi-Function Back Beam (MFBB or MFBB_HD) into top slots of U Uprites.
- b) Install Multi-Function Front Beam (MFFB or MFFB_HD) into top slots in MF Uprite. (NOTE: MFFB has 2 hooks per end; MFFB_HD has 3 hooks per end). Top cap must be removed from the uprite to install beam, then reinsert top cap.
- c) Install Multi-Function Shelf Supports (MFWSS or MFWSS_HD) between the Beams. See FIGURE 4 for load capacities and FIGURE 4A and 4B for locations of shelf supports.

MULTI-FUNCTION SHELF CAPACITY (UNIFORMLY DISTIBUTED LOAD)						
SHELF DEPTH	SECTION WIDTH (BEAM LENGTH)	SHELF SUPPORTS WITH SHELF SUPPORTS V		PORTS WITH		
UP TO 31"DEEP		2	3	4	2	3
	36"	1,600	2,400	3,000	3,000	
	48"	1,600	2,400	3,000	3,000	
	72"	1,600	2,000	2,400		3,000
	84"	1,600	1,800	2,000		3,000
	96"	1,600	1,600	1,600		3,000

FIGURE 4

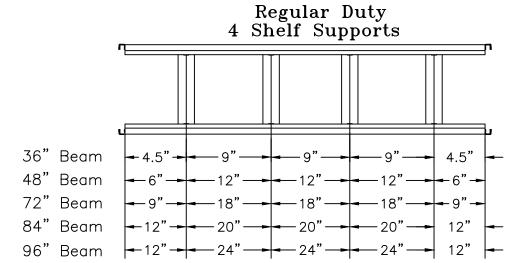
NOM SIZE	ACTUAL LENGTH OF SHELF SUPPORT
16"	18 1/32"
19"	21 1/32"
22"	24 1/32"
25"	27 1/32"
28"	30 1/32"
31"	33 1/32"

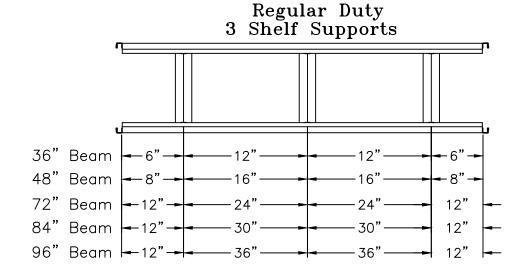


WARNING!



MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)





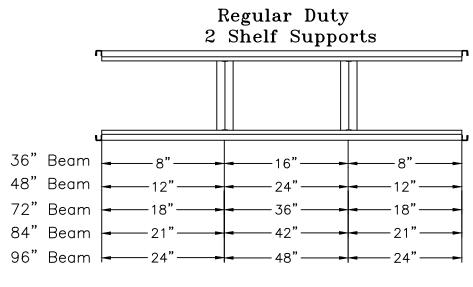
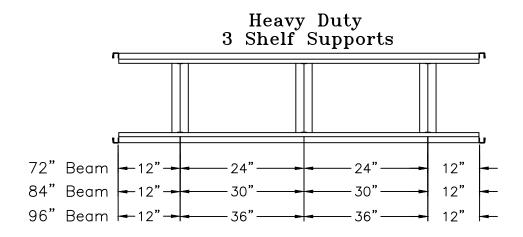


FIGURE 4A



MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)



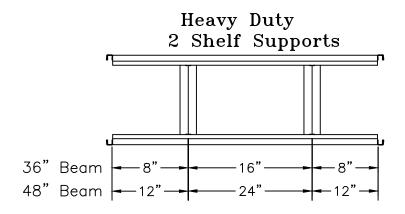
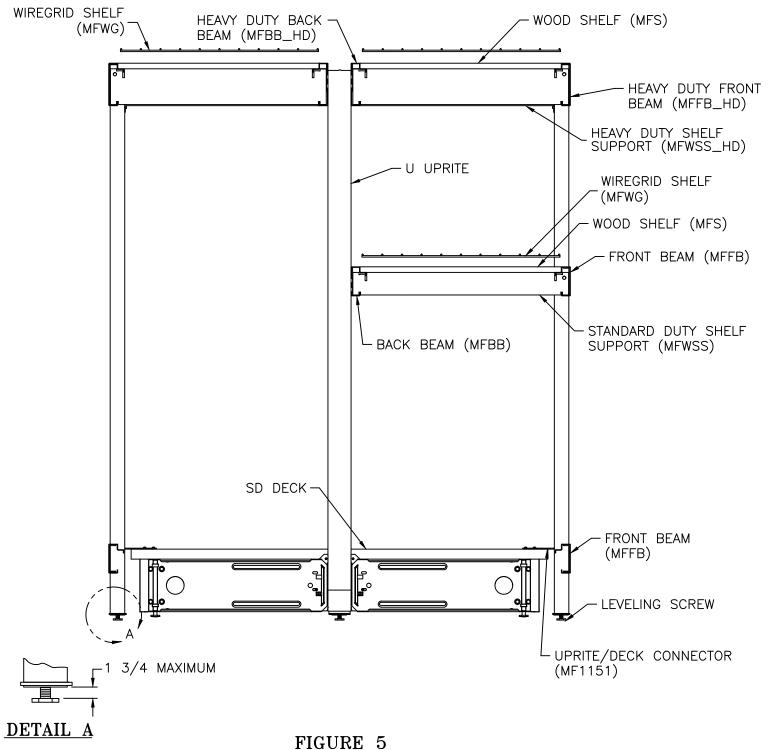


FIGURE 4B



MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)

- d) Place the Multi-Function Wood Shelf (MFS) or Wiregrid Shelf (MFWG) between the Beams. Corner notches on the Wood Shelf fit around the MF Uprite. (SEE FIGURE 5)
- e) Adjust the leveling screws in the MF Uprites so the shelf is level from front to back. Maximum leveling screw extension is 1 3/4". (See DETAIL A)
- f) Add other MF Shelf levels as desired following Steps A through D.



Example Shelf Arrangement

MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)

STEP 4b: Installation of beams and shelves with a TOP LEVEL OVERSTOCK SHELF

CAUTION:

- 1. Heavy-duty beams (MFFB_HD) are <u>required</u> for the Top Level Overstock shelf.
- 2. Only one Top Level Overstock shelf allowed per gondola section.
- 3. The minimum gondola height is 12" less than the MFU height.
- 4. The Top Level shelf does not satisfy the requirement for a MF shelf level at the top of the gondola. A standard MF shelf level <u>must</u> be installed near the top of the gondola uprite.
- a) Install Multi—Function Front Beams (MFBB_HD) into top slots of the MF uprites. Remove top cap from the MF uprite to install beam, then reinsert top cap.
- b) Install Multi-Function Shelf Supports (MFTS_HD) between the beams. These are special length supports for the top level. The actual length is the nominal size plus 3 3/4".
- c) Install shelf surface between the beams
- d) Adjust leveling screws in MF uprites so the shelf is level. Maximum leveling screw extension is $1 \frac{3}{4}$.
- e) See FIGURE 6 for a typical shelf installation.
- f) See FIGURE 4C below for Top Level shelf load capacities and FIGURE 4B for the locations of HD shelf supports.

MULTI-FUNCTION TOP LEVEL OVERSTOCK SHELF CAPACITY (UNIFORMLY DISTIBUTED LOAD)						
SHELF DEPTH	SECTION WIDTH (BEAM LENGTH)	NUMBER OF HEAVY DUTY SHELF SUPPORTS WITH HEAVY DUTY BEAMS				
		2	3			
UP TO	36"	3,000				
47"DEEP	48"	3,000				
(22"/22" DECKS)	72"		3,000			
DECKS)	84"		3,000			
	96"		3,000			

FIGURE 4C



WARNING



MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)

STEP 4b (continued):

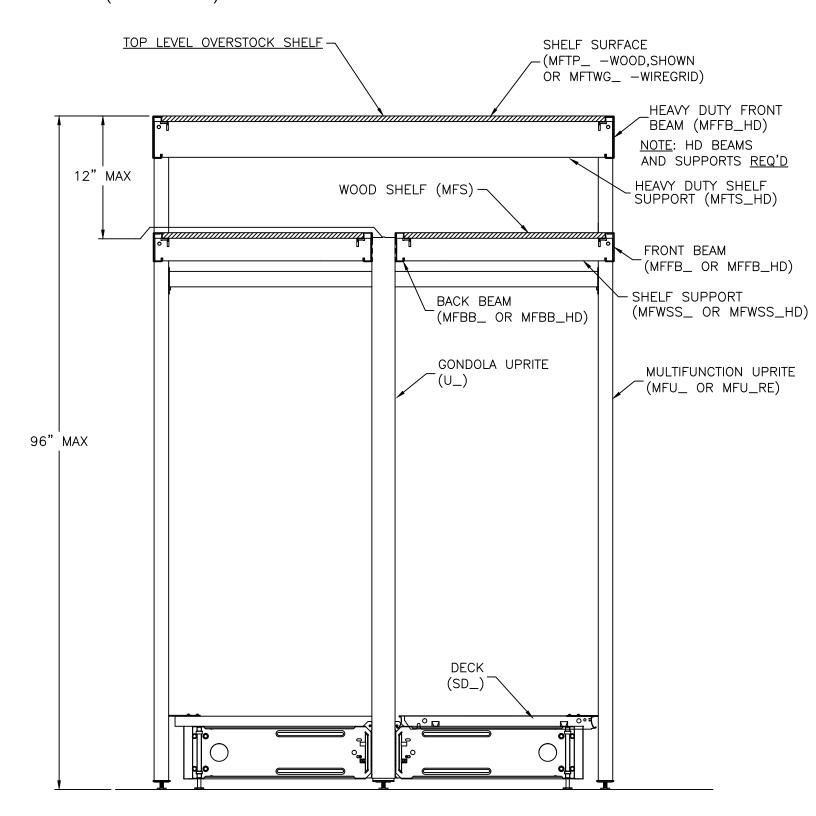


FIGURE 6 Example Top Level Shelf Installation

MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)

STEP 5: If Multi-Function Wood Decks (MFD) are to be used, install a MF Front Beam (MFFB) 1/8" lower than the level of the SD Deck (SEE FIGURE 7).

NOTE: Adjust leveling leg screws on MFU to obtain 1/8" spacing.

Maximum leveling screw extension is 1 3/4".

a) Place a Multi-Function Wood Deck (MFD) on the SD and on the MF Front Beam.

NOTE: MF Wood Decks are 1" longer front to back than MF Wood Shelves.

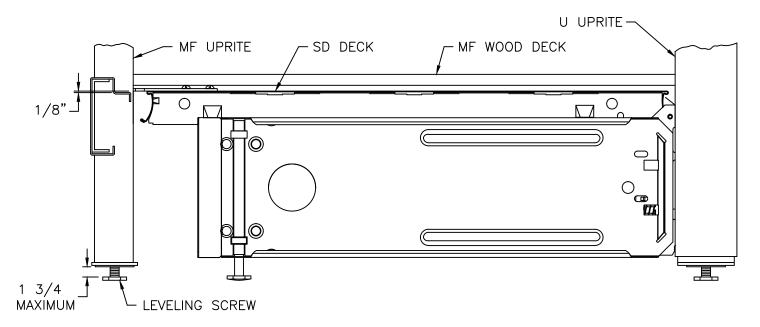


FIGURE 7

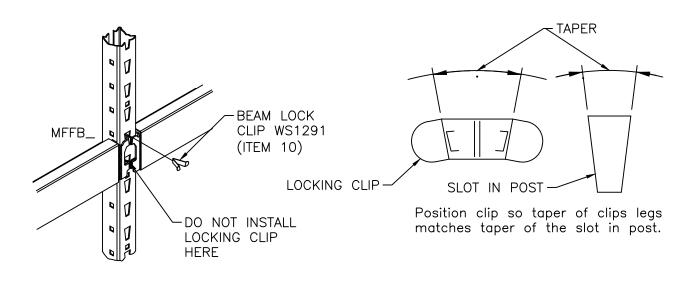
MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)

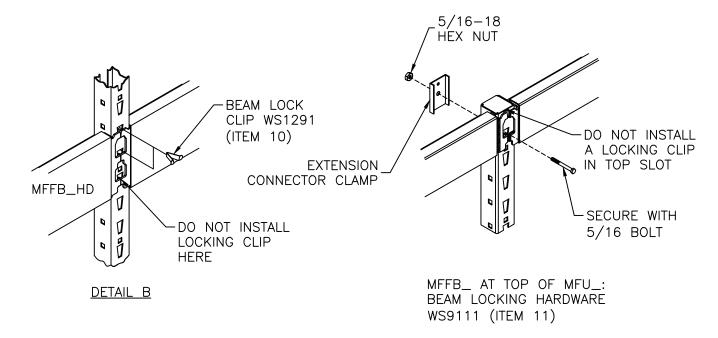
STEP 6: BEAM LOCKING:

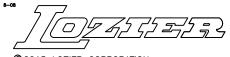
- Beam locking clips (WS1291) or locking hardware (WS9111) <u>must be used</u> when beams are used singly, not as a beam pair with shelf supports connecting them.
- Locking clips must be oriented so that their taper aligns with the tapered sides of the shelf slots in the uprite post. The clips will not function unless they are correctly oriented when installed.
- Insert the beam locking clip into the portion of the uprite slot above the beam connector hook, as shown in Detail B. Always install the clip in the slots shown.



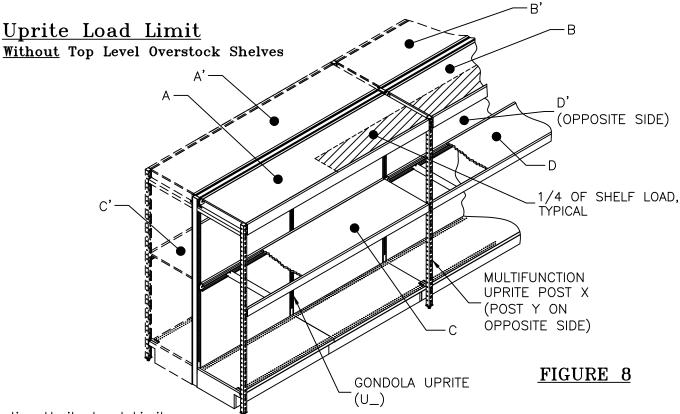
WARNING: DO NOT INSTALL THE LOCKING CLIP IN THE SLOT WITH BOTTOM HOOK OR THE TOP HALF SLOT OF THE UPRITE. THE CLIP <u>WILL NOT LOCK</u> THE BEAM IN THOSE SLOTS.







MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)



Multi Function Uprite Load Limit:

The published Multi-Function Uprite (MFU_ or MFU_RE) rated maximum load is based on the load capacity of the MFU post <u>and</u> the gondola uprite <u>combined</u> (uniformly distributed shelf loads.)

The load on the Multi-Function post is 1/4 of the adjacent Multi-Function shelf loads. For the system shown in Figure 8, the load on Multi-Function Uprite post X is calculated as follows:

$$\frac{\text{Load A} + \text{Load B} + \text{Load C} + \text{Load D}}{4} = \text{Load on post X}$$

The same method can be used for island systems. For the system shown in Figure 8, the load on Multi-Function Uprite post Y is calculated as follows:

$$\frac{\text{Load A'} + \text{Load B'} + \text{Load C'} + \text{Load D'}}{4} = \text{Load on post Y}$$

The MFU post load $\underline{must\ not\ exceed\ 1/2\ of\ the\ rated\ load}$ for the MFU post $\underline{and}\ gondola\ uprite\ \underline{combined}$. Those $\underline{combined}\ rated\ loads\ are\ as\ follows:$

MFU_ and U_ (gondola uprite) <u>combined</u>: **4,000 lbs Max** MFU_RE and U_ (gondola uprite) <u>combined</u>: **5,000 lbs Ma**x

Therefore, the maximum post loads are as follows:

Maximum MFU_ post load = 2,000 lbs Max Maximum MFU_RE post load = 2,500 lbs Max

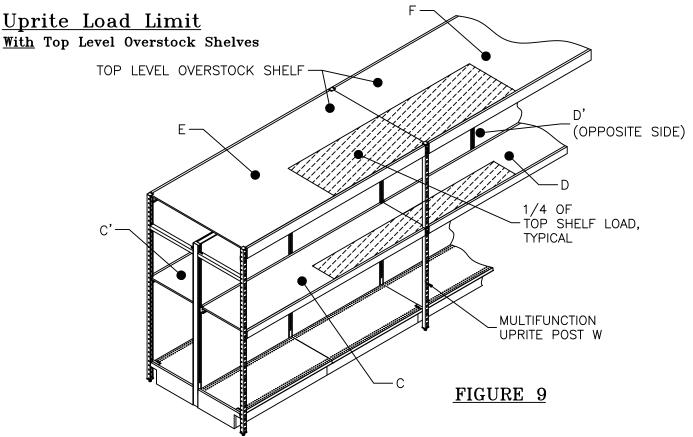
Note: Multi-Function shelves apply a vertical load to the gondola uprite. The applied load is 1/4 of the adjacent Multi-Function shelf loads. The method of calculation is the same as described above. MF shelves on both sides of an island gondola apply a load to the gondola uprite. Combined loads (including display shelving loads) applied to the gondola uprite should not exceed 4,500 lbs.



WARNING!



MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)



<u>Multi Function Uprite Load Limit:</u>

The load on the Multi-Function post is 1/4 of the adjacent Multi-Function shelf loads, including the Top Level shelf loads. For the system shown in Figure 9, the load on Multi-Function Uprite post W is calculated as follows:

$$\frac{\text{Load C} + \text{Load D} + \text{Load E} + \text{Load F}}{4} = \text{Load on post W}$$

The MFU post load $\underline{must\ not}\ exceed\ 1/2$ of the rated load for the MFU post $\underline{and}\ gondola\ uprite\ \underline{combined}$. Those $\underline{combined}\ rated\ loads\ are\ as\ follows:$

MFU_ and U_ (gondola uprite) <u>combined</u>: **4,000 lbs Max** MFU_RE and U_ (gondola uprite) <u>combined</u>: **5,000 lbs Ma**x

Therefore, the maximum post loads are as follows:

Maximum MFU_ post load = 2,000 lbs Max Maximum MFU_RE post load = 2,500 lbs Max

Note: Multi-Function Top Level shelves do not apply a vertical load to the gondola uprite. The combined loads (including display shelving loads) applied to the gondola uprite should not exceed **4,500 lbs.**



WARNING!



MULTI-FUNCTION SHELVING SYSTEM (UP TO 96" TALL)

User Instructions

POST IN CONSPICUOUS PLACE



WARNING: Overloading, misuse, abuse of Multi-Function Shelving can contribute to collapse and personal injury.

PLEASE NOTE: To avoid product damage or personal injury, Personnel must be provided with safe access to all elevations of storage equipment or display fixtures via ladders, stairways, or other means in accordance with applicable OSHA regulations. In NO case should anyone be allowed to climb or stand on storage or display equipment.

Combined rated load, one Multi-Function uprite used with one gondola uprite (wall section)

 $MFU_+ U_- = 4,000 lbs. Max MFU_RE + U_- = 5,000 lbs. Max$

Wood Shelf rated load (with recommended number of shelf supports)

With 8' Standard Beams = 1,600 lbs. Max With 8' Heavy Duty Beams = 3,000 lbs. Max



WARNING:

- 1. Shelf capacities are for evenly distributed loads. If loads are concentrated, reduce these capacities 50%.
- 2. Shelves to be hand loaded only. Do not use mechanical equipment to load shelves.

SAFETY PRECAUTIONS: In order to assure that the Multi-Function Shelving is used in a safe manner, the following safety precautions must be observed.

- 1. This shelving MUST be installed strictly according to the manufacturer's instructions.
- 2. NEVER OVERLOAD the uprites or beams (see loading instructions above).
- 3. Be sure the shelving sections remain aligned.
- 4. If any portion of the shelving or any component is damaged, shelving must be unloaded and the damaged portion replaced immediately.
- 5. If any shelf support or beam becomes partially or completely dislodged, it must be unloaded and corrected immediately.
- 6. Do not lean tall or heavy items against shelving unless shelving is anchored to a suitable building wall, to the floor, or is otherwise braced to prevent overturning. Weight and force of leaning items on unanchored or unbraced shelving may cause shelving to overturn or collapse.
- 7. Shelving (or racks) that are leaning or bending when loaded may indicate a dangerous overload or impending collapse. Loads should be immediately reduced, and the cause for this condition should be corrected, before reloading. Refer to appropriate installation instructions to assure shelving (or racks) are properly assembled, replace any damaged components or parts, and do not exceed recommended maximum loads or engage in any other unsafe use of the shelving (racks).

