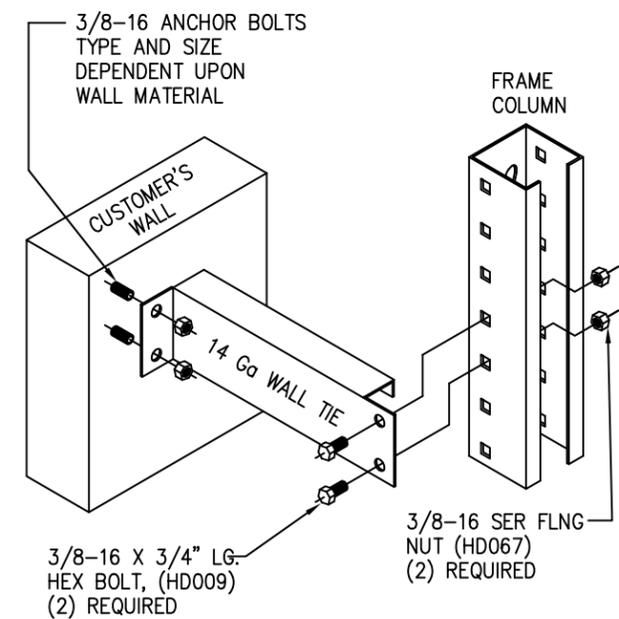
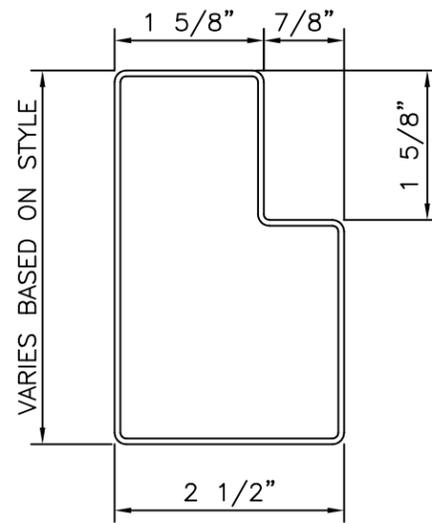


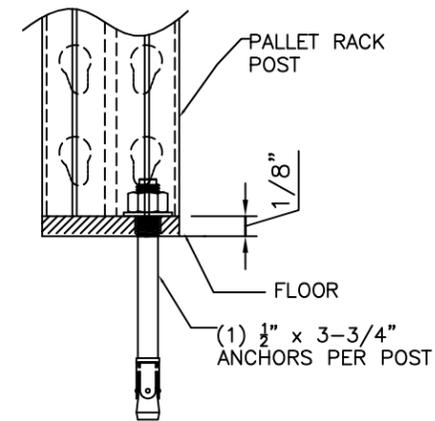
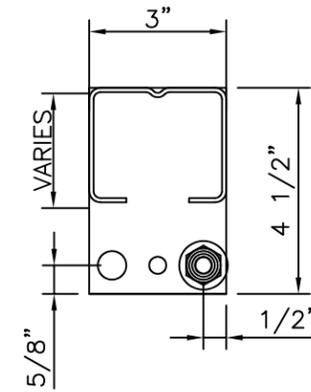
ROW SPACER - OPTIONAL ACCESSORY



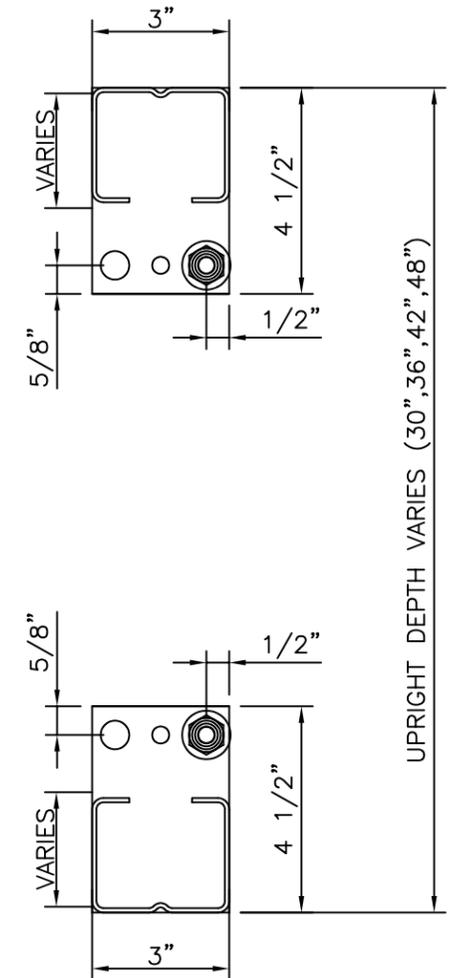
WALL TIE - OPTIONAL ACCESSORY



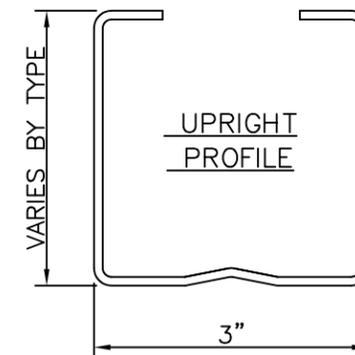
BEAM PROFILE



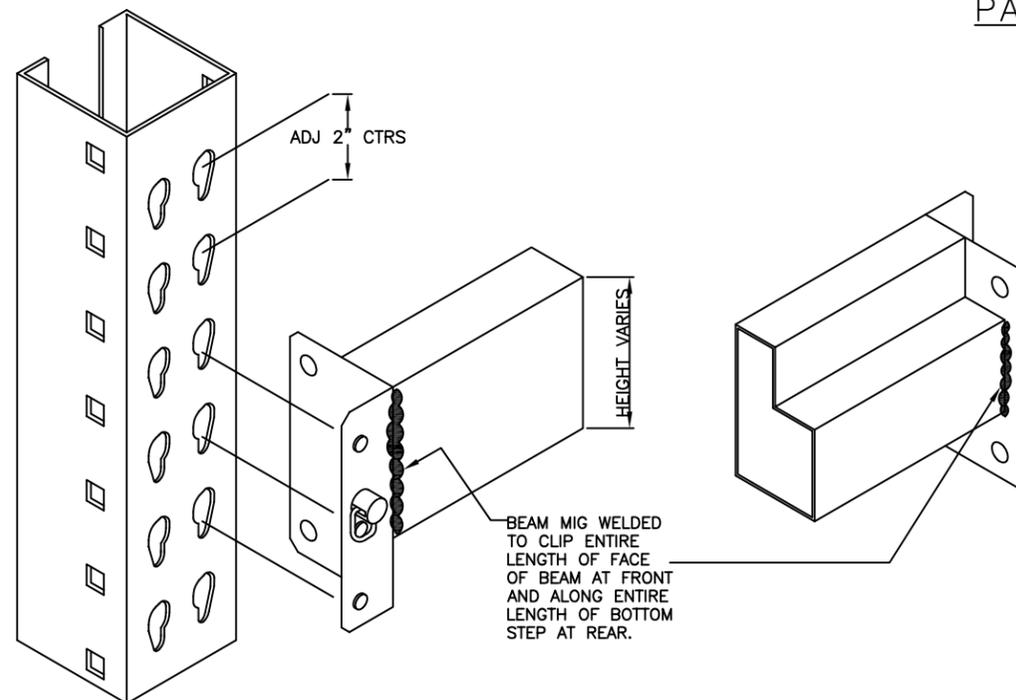
PALLET RACK FOOTPLATE DETAIL



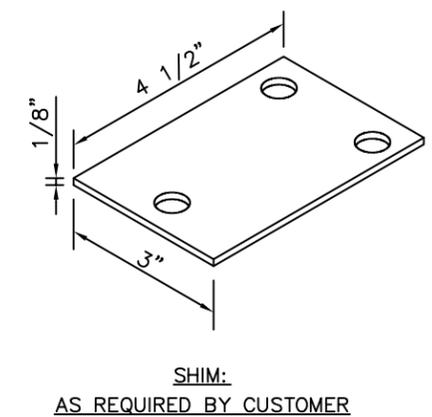
POST PROFILE



UPRIGHT PROFILE



BEAM CONNECTION DETAIL

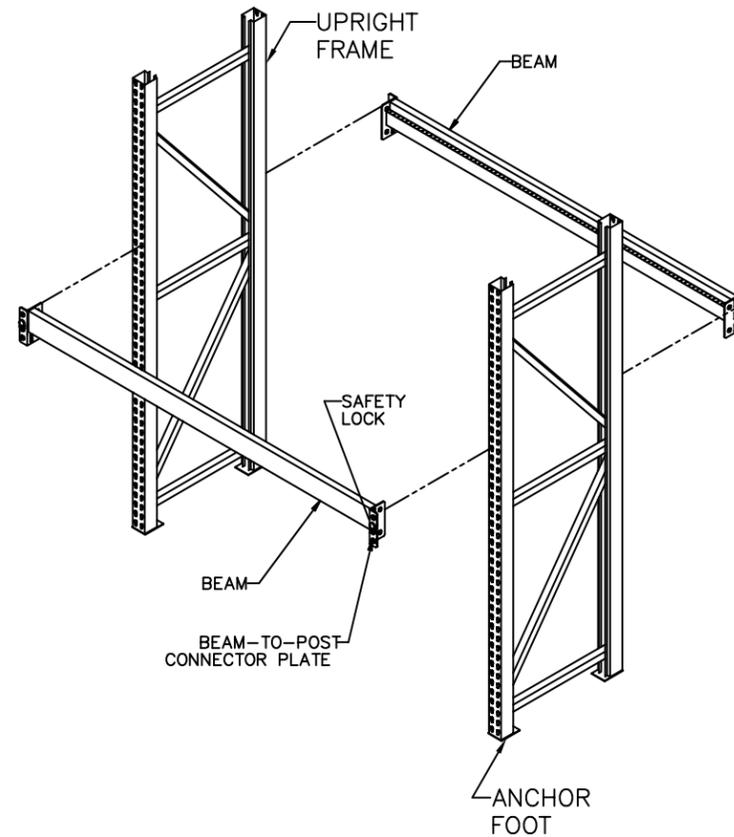


NO	DATE	REV DESCRIPTION	BY
PALLET RACK INSTRUCTION SHEET PAGE 2 DETAILS			
<b>LYON</b>		LYON WORKSPACE PRODUCTS P.O. BOX 671 AURORA, IL 60507 630-892-8941	
DRAWN BY: AM		DATE: 8/23/10	
SCALE: NONE			
DWG NO: 9115-CA			

# PALLET RACK INSTALLATION NOTES.

THESE INSTRUCTION SHEETS TO BE USED AS GENERAL GUIDELINES FOR INSTALLING INTERCHANGE RACK.

1. IT IS RECOMMENDED THAT A PERMANENT PLAQUE BE INSTALLED IN A CONSPICUOUS PLACE SHOWING THE MAXIMUM UNIT LOAD (PALLET LOAD) TO SAFEGUARD AGAINST OVERLOADING THE RACK. FOR RATED LOADS ON ANY RACK CONFIGURATION CONTACT YOUR DEALER.
2. IT IS RECOMMENDED THAT THE OWNER/USER CONSIDER LOCAL, REGIONAL, AND STATE BUILDING OR OTHER APPLICABLE CODES IN SELECTING OR USING PALLET RACK. SPECIAL ATTENTION SHOULD BE GIVEN THAT THE RACK IS DESIGNED TO MEET SEISMIC CONSIDERATIONS.
3. WHEN FRONT CORNER POSTS OF UPRIGHT FRAMES ARE EXPOSED, IT IS RECOMMENDED THAT POST PROTECTORS OR OTHER PROTECTIVE MECHANISMS BE INSTALLED TO PROTECT SAME FROM MOVING EQUIPMENT.
4. ON BEAMS 120" OR WIDER, A FRONT-TO-BACK BAR MUST BE INSTALLED IN THE CENTER OF THE BEAM. THIS IS TO PREVENT BEAM SPREADING AND THE POSSIBILITY OF THE PALLETS FALLING THROUGH THE BEAMS.
5. USER MUST CONSIDER THE EMPLOYMENT OF A RETAINER AT THE BACK AND ENDS OF RACKS ADJACENT TO AISLES SO THAT THE LOADS CANNOT FALL INTO THE AISLE.
6. ALL RACKS MUST BE TIED TOGETHER WITH ROW SPACERS, WALL SPACERS OR ANCHORED TO THE FLOOR, IN A SECURE MANNER, WHEN THE HEIGHT TO DEPTH RATIO OF THE RACK EXCEEDS 6 TO 1. DEPTH IS THE OVERALL DEPTH OF THE RACK AND HEIGHT IS MEASURED FROM THE FLOOR TO THE HIGHEST POINT OF THE TOP LOAD.
7. AISLES MUST BE WIDE ENOUGH TO PERMIT FAST, EASY AND SAFE OPERATION OF THE VEHICLE AND LOAD.
8. PALLETS MUST OVERHANG THE BEAMS BY AT LEAST 2 INCHES AT FRONT AND REAR OF RACK. WHEN THIS IS NOT FEASIBLE FRONT TO BACK SUPPORTS SHOULD BE UTILIZED. IF WIRE DECKING IS USED, FRONT TO BACK SUPPORTS ARE NOT REQUIRED.
9. CLEAR BEAM OPENINGS BETWEEN UPRIGHT FRAMES SHOULD BE ADEQUATE TO PROVIDE 4" BETWEEN PALLET LOADS AND BETWEEN PALLET LOADS AND UPRIGHT FRAMES.
10. RACKS MUST BE LEVEL AND PLUMB. LEVEL IS DEFINED AS 1/8" OR LESS IN 10 FEET. WHERE RACKS EXCEED 1/8" IN 10 FEET, SHIMS SHOULD BE USED TO LEVEL AND PLUMB THE RACK. 1" IN 10 FEET OF HEIGHT IS MAXIMUM ALLOWABLE PLUMB TOLERANCE. RACK CAPACITY RATINGS ARE PREDICATED ON THE ABOVE MINIMUM ALLOWABLE DIMENSIONS.



## STEP 1

STAND 2 UPRIGHT FRAMES IN PLACE FOR STARTING UNIT. TIE THE UPRIGHT FRAMES TOGETHER FIRST WITH THE MIDDLE, OR LOWER, PAIR OF BEAMS.

THE BEAM-TO-POST CONNECTOR PLATE STUDS FIT INTO THE SLOTS ON THE FRONT AND REAR SURFACE OF THE UPRIGHT FRAMES. WHEN THE BEAM STUDS ARE SEATED IN THE UPRIGHT FRAME SLOTS, THE SAFETY LOCK AUTOMATICALLY LOCKS IN PLACE.

### CAUTION

BE SURE BEAM PAIRS ARE AT THE SAME LEVEL, UPRIGHT FRAMES ARE PUNCHED ON 2" CENTERS.

BEAMS LOCKED IN PLACE MAY BE REMOVED BY DISENGAGING LOCK MECHANISM BY PULLING LOCK RING AND LIFTING BEAM UPWARDS. BOTH ENDS OF THE BEAM SHOULD BE DISENGAGED AT THE SAME TIME.

## STEP 2

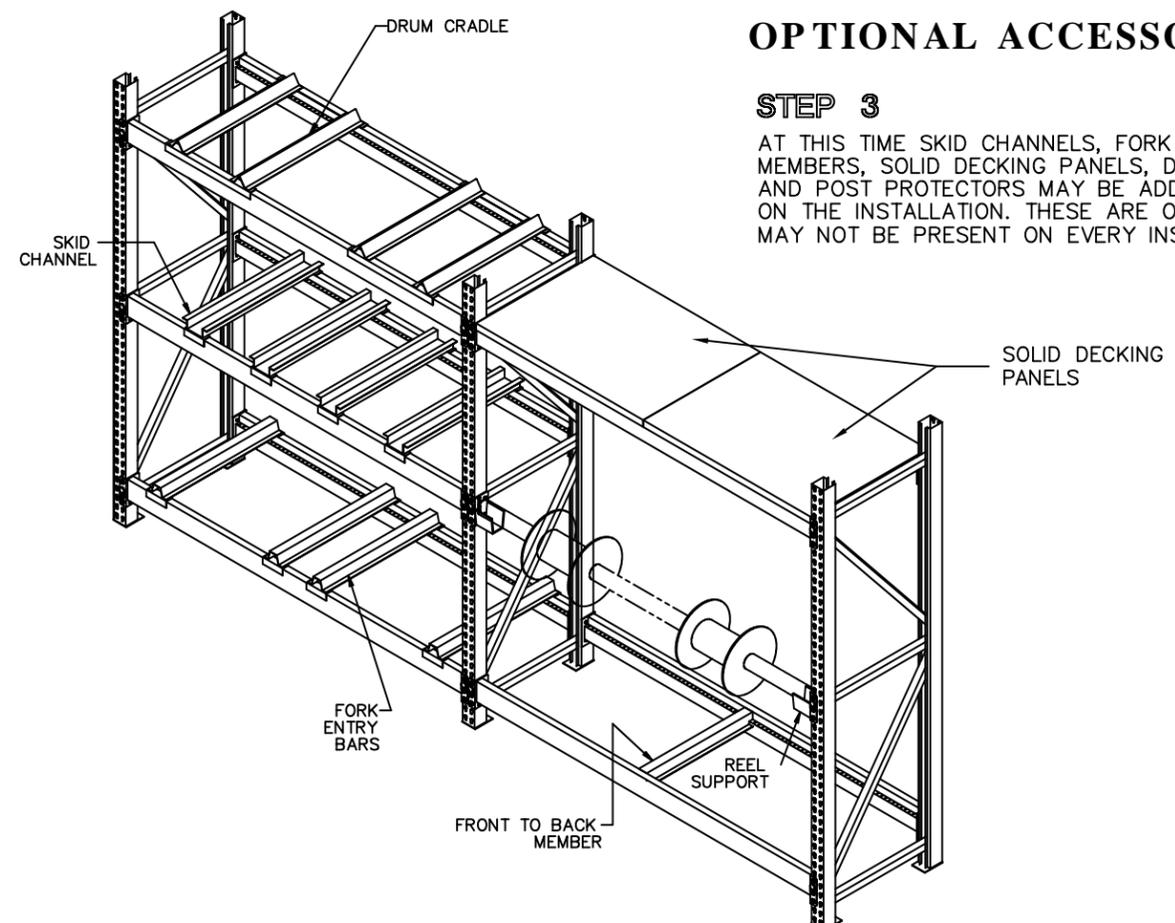
CONTINUE TO ADD UPRIGHT FRAMES AND BEAMS AS REQUIRED BY YOUR RACK PLAN.

WHEN ALL UPRIGHT FRAMES AND BEAMS ARE IN PLACE, PLUMB AND LEVEL THE RACKS AS STATED IN THE MANUFACTURERS RECOMMENDATIONS. ANCHOR SECURELY TO THE FLOOR IF REQUIRED, SEE MANUFACTURERS RECOMMENDATION NO. 6. (1/2" X 3-3/4" EXPANSION TYPE ANCHORS ARE RECOMMENDED)

## OPTIONAL ACCESSORIES

### STEP 3

AT THIS TIME SKID CHANNELS, FORK ENTRY BARS, FRONT TO BACK MEMBERS, SOLID DECKING PANELS, DRUM CRADLES, REEL SUPPORTS AND POST PROTECTORS MAY BE ADDED, IF THEY ARE TO BE USED ON THE INSTALLATION. THESE ARE OPTIONAL ITEMS WHICH MAY NOT BE PRESENT ON EVERY INSTALLATION.



NO	DATE	REV DESCRIPTION	BY
PALLET RACK INSTRUCTION SHEET PAGE 1			
<b>LYON</b> LYON WORKSPACE PRODUCTS P.O. BOX 671 AURORA, IL 60507 630-892-8941			
DRAWN BY: AM		DATE: 8/23/10	
SCALE: NONE			
DWG NO: 9115-CA			



## Selective Pallet Rack Assembly Instructions

1. Verify shipment. Compare the components received with the bill of material and packing lists. If there is a variance note that variance on shipping documents and contact your Dealer or Lyon immediately.
2. Establish the rack layout. Determine the rack position and aisle dimensions. Layout the position of the rack on the floor by snapping chalk lines to locate the aisles and front of the uprights. Upright must be 90 degrees to the aisles. Check for obstructions such as building columns, light fixtures, cooling and heating ducts, compressor and furnace units, electrical units, etc, for rack and load clearance.
3. Erect the first bay while the uprights are on the ground, determine and mark the location of the beam levels. Safely, stand two uprights vertically and attach beams. Engage the lowest level beams into the uprights engaging the pins into the upright columns. Although the safety clips should engage automatically, verify their full engagement. If safety clips are missing or damaged, replace the beam before the rack is put into use. This clip is to prevent accidental disengagement of the beam from the upright column.
4. Locate first bay position of row. Place front of upright on aisle chalk line. Attach the balance of beams starting with the lower beams and working to the top using the method described in step 3. Square this bay by measuring diagonally across the bay making sure the diagonal dimensions are identical. Bays must be square, plumb, and level. Use required shims to plumb the uprights and level the beams. Uprights should be plumb to within  $\frac{1}{2}$  per 10. Beams should be level to within  $\frac{1}{4}$ . Each upright has two (2) footplates with two (2) holes for anchoring. Normal conditions call for one anchor per plate. Check with the dealer or manufacturer for the type, size, specifications and number of anchors to be used. The basic footplate will not accommodate two anchors because of the closeness of the holes. If two anchors are required for a particular job, a special sized footplate will need to be used. When the first bay is square, plumb, level, and on the chalk lines, anchor the bay in place.
5. Installation of remaining bays Follow the same procedures above to install the remaining bays. Square, plumb, and level bays beginning with the bay next to the starting bay, anchoring as you proceed down the aisle.
6. Installation of back-to-back rows of rack. Install row as described in steps 1 through 5 with the exception of anchoring. Anchoring of bays should not be done until row spacers are installed, the rack is squared, plumb, and level. Tighten back-to-back ties after anchoring to floor.
7. Accessories We recommend not tightening the bolts and nuts on all accessories until the rack is square, plumb, level, and anchored.
8. Final check. A final inspection should be made to ensure all anchors, bolts, and nuts are tightened to the proper specification. Check all beam safety clips to ensure their installation and engagement.
9. Loading of rack system. Your rack system is now ready to use. Load all beam levels to system specified loads. If your rack is not installed as quoted contact your Dealer or Lyon to confirm the present configuration.
10. Torque requirements
  - Beam connection 37 to 50 ft-lb
  - Accessories 37 to 50 ft-lb
  - Anchors 45 ft-lb