

# Selective Pallet Rack Assembly Instructions

## 1 Before starting to install

Check carefully for any damaged components as materials are received. Report any deficiencies and or damage to the carrier immediately upon receipt of materials. Check to ensure all hardware is included with the shipment.

***An installation drawing may be available from Arpac as a reference regarding product layout and beam elevations.***

## 2

Ensure that the area the materials are to be located is clear of all obstructions. Note the position of any building columns, heaters, lights, sprinkler pipes that may interfere with the pallet rack system. If an installation drawing is provided, note the correct distance off the wall to start the first row of pallet racking and use chalk lines to establish both down aisle and cross aisle start points. Do not stop with the first chalk line but extend across the room marking the appropriate locations to verify that all planned rows of pallet racking will fit. Check to ensure that the pallet rack system does not block any exits required by applicable fire codes.

## 3

***Steps 3 to 8 of these installation instructions based on an installation drawing prepared by Arpac being referenced.***

It is recommended that a professional pallet racking installation crew be responsible for the erection of the pallet racking system. Personnel installing pallet racking should be competent in reading and following the instructions on the installation drawing.

***Product warranty coverage will be voided if the material is not installed as per the installation drawing and or the installation instructions as outlined in this document.***

## 4

Stand two upright frames with their lowest diagonal facing the operating aisle (Ref. #A) and attach beams to the upright frames as per the elevation noted on the installation drawing.

***Refer to the installation drawing for the beam elevations which are measured from the floor surface level to the top of the beam (Ref. #B).***

Always use the locking pins provided with beams. Install a locking pin at each end of the beam, securing the beam to the upright frame (Ref. #C).

## 5

***It is recommended to anchor all upright frames to the floor and mandatory for upright frames that are higher than eight feet tall.***

Before anchoring the frames shim the pallet racking if the floor is not level. Allowable out of plumb should never exceed one inch in twenty feet of height. Use full base plate sized shims to properly transfer the weight to the floor. Before anchoring square the base of the first bay by measuring diagonally across from post to post (Ref. #D) to ensure the row will be assembled straight and all components will fit together correctly. Use only the anchors shown on the installation drawing and never mix manufacturer anchors and bits. Use of different drill bits can result in a pullout failure of the anchor. When installing anchors drill the hole ½ inch deeper than required. Refer to the anchor manufacture's recommended torque requirements to ensure proper anchor performance.

## 6

Dependant on the height of the pallet racking system a scissor lift should be used to install the upper beam levels to comply with WorkSafe regulations.

***At no time during the installation and subsequent use of the pallet racking system are personnel to climb or walk on any components of the pallet racking system including wire mesh safety decks.***

## 7

If the pallet racking system is designed with back to back rows of pallet racking, the rows should be fastened together with row spacers sized to meet applicable fire code requirements as well adequate spacing for building columns. Refer to the installation drawing for these dimensions and use a row spacer at a minimum of eight feet of elevation. Rows spacers should be bolted in place four times as per the installation drawing (Ref. #E). Single rows should be checked to ensure that the pallet racking does not exceed a 6 to 1 ratio of height to depth.

## 8

The use of safety bars or wire mesh decks are recommended.

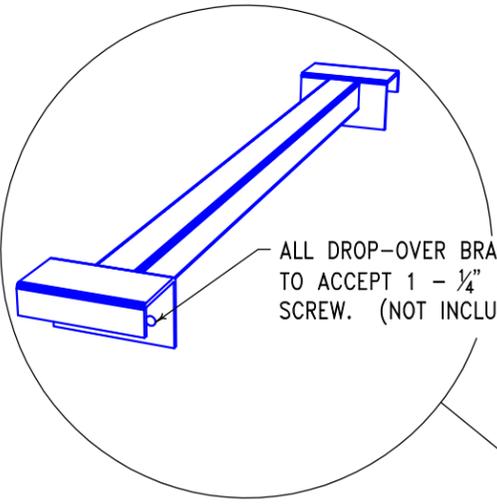
***If safety bars are used, they must be attached to the beam in such a manner that the safety bar cannot be accidentally dislodged (Ref. #F).***

Appropriate sized pallets should be used so that the pallet rests on the beams and not the safety bars and or wire mesh decks. Wire decks should be used in all tunnel applications where personnel and or lift truck traffic travel underneath.

**ARPAC**  
**www.arpac.ca**

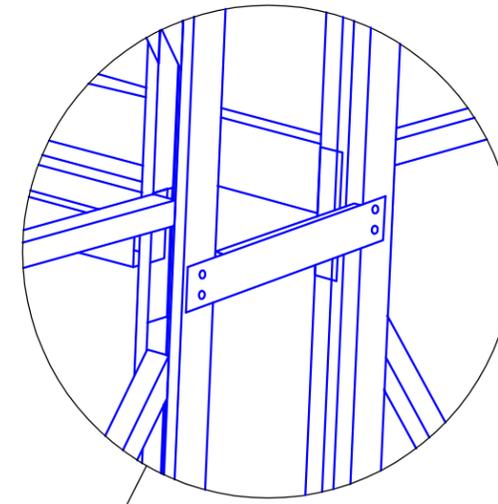
**Selective Pallet Rack  
Assembly Instructions**

REF. F



ALL DROP-OVER BRACKETS ARE PUNCHED TO ACCEPT 1 - 1/4" x 1" HEX HEAD TEK SCREW. (NOT INCLUDED)

REF. E



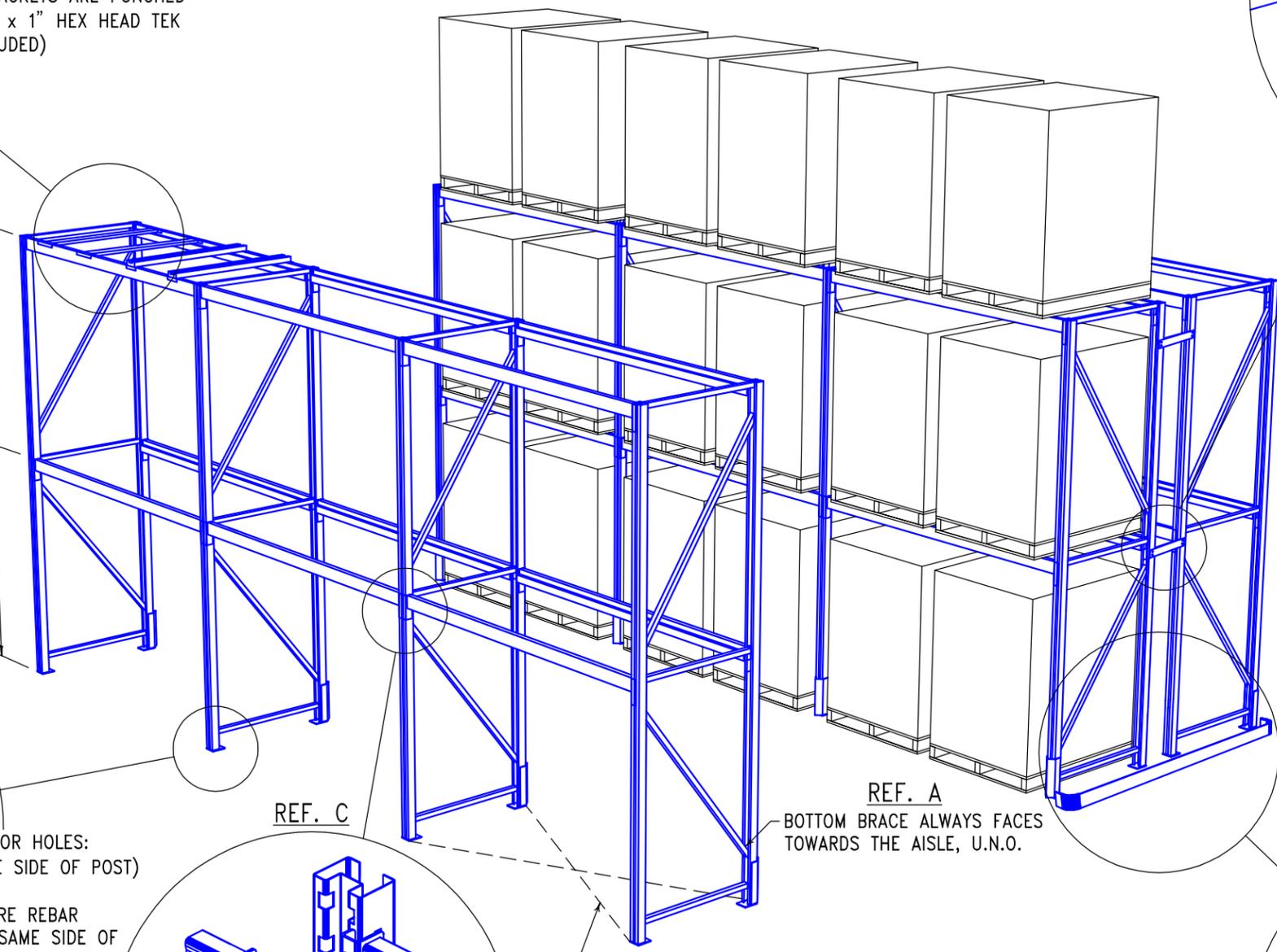
EACH ROW SPACER c/w 4 - 5/16" UNC GR.5 x 3/4" HEX HEAD CAP SCREW AND WHIZ NUT. ROW SPACERS SHOULD BE INSTALLED BETWEEN BACK TO BACK ROWS, TOP, BOTTOM AND AT INTERMEDIATE LOCATIONS NOT EXCEEDING 96". ROW SPACERS NEAR FLOOR MAY BE ELIMINATED IF RACKS ARE SUITABLY ANCHORED.

ROW SPACER

**DROP-OVER SAFETY BAR**  
CAPACITIES ARE BASED ON A POINT LOAD APPLIED 4 1/2" FROM THE END OF THE SAFETY BAR.

REF. B  
BEAM ELEVATIONS

FLOOR TO TOP OF BEAM  
TOP OF BEAM TO TOP OF BEAM



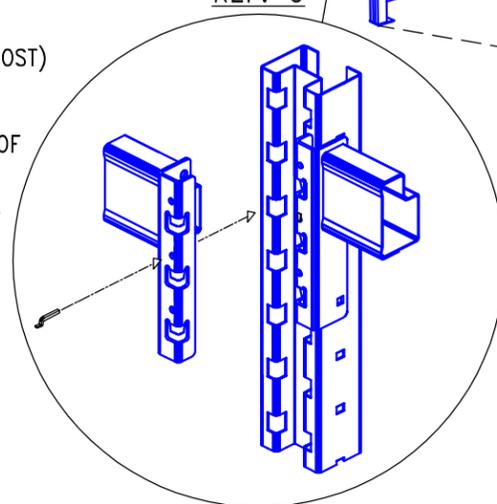
REF. A

BOTTOM BRACE ALWAYS FACES TOWARDS THE AISLE, U.N.O.

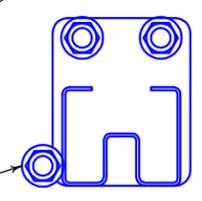
REF. D

SQUARE THE BASE OF THE STARTER BAY BY MEASURING DIAGONALLY FROM POST TO POST.

REF. C

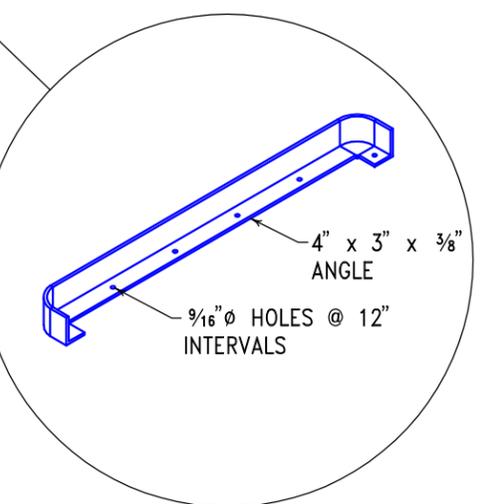


**BEAM CONNECTION**  
REQUIRES 1 LOCK PIN PER BRACKET



IF REBAR IS ENCOUNTERED WHEN DRILLING ANCHOR HOLES:  
1) USE ALTERNATE HOLE (IF AVAILABLE ON SAME SIDE OF POST) OR  
2) INSTALL A SHORT ANCHOR IN THE HOLE WHERE REBAR OCCURS AND INSTALL A STANDARD ANCHOR ON SAME SIDE OF THE FOOTPLATE, (AS FAR FROM THE ORIGINAL HOLE AS POSSIBLE) WELDING THE NUT & WASHER TO THE FOOTPLATE.

**ANCHOR INSTALLATION**  
SEE "JOB SPECIFIC" DRAWING FOR ANCHOR SIZE, QUANTITY, TORQUE AND EMBEDMENT DEPTH.



**ROW END PROTECTOR**  
REQUIRES 1/2" x 4 1/2" ANCHORS: 2 + 1 ANCHOR PER FOOT. (NOT INCLUDED)

DATE: Jan. 19/11  
DRAWN BY: KO  
SHEET: 1/1  
PLOTTER:  
DRAWING NO.: 98-112-1  
SCALE: 1/8" = 1'-0"  
REVISION: 00

ARPAC STORAGE SYSTEMS CORP.  
SELECTIVE RACKING-GENERAL INSTALLATION DETAILS

