

## Husky Rack and Wire

When setting up **Invincible**, **Reliable**, or **LYNX** brand pallet rack, please refer to the installation instructions noted below. If you have any questions, please call 1-800-438-5629. Our company will be glad to assist you.

### INSTALLATION

1. Compare the material with the packing slip to make sure you received all the components in good condition.
2. The post that has the diagonal bracing channel welded closest to the floor is the front post of the upright. In either single row or double row (back-to-back) installations, the front post should always face the aisle. In single row installations with an aisle on either side, the front should face the aisle having the most traffic.
3. Using help, engage one end of the beam at the desired height to the front of one upright. Next, engage the other end of the beam to the front of the 2nd upright. Repeat this procedure on the back side.
4. Check the bay for level, plumb and square. The upright frames must be plumb to within  $\frac{1}{2}$ " per 10 foot of height. The beams must be level to within  $\frac{1}{8}$ " per 6 foot of beam length. Shims are available and should be used throughout the installation to maintain these tolerances. In addition to being plumb and level the upright bay should be square. This can be checked by measuring diagonally across the bay. The two diagonal measurements must be within  $\frac{1}{8}$ " of being the same.
5. Subsequent bays should be installed using the same process outlined in steps 3 and 4.
6. Install the next level of beams using the same procedure as in step 3. Continue to check each bay for level, plumb and square. Be sure to allow at least 6" of clearance between the top of the pallet load and the bottom of the beam on next level.

**WARNING:** It is imperative that when installing beams, any existing beams or rack structure is not used to stand or climb upon. Any installation that cannot be done from floor level should be done in accordance with all applicable safety standards. Pallet Storage Racks are not designed for standing on, climbing on, or foot traffic of any kind.

7. Place wall or row spacers at the top and bottom of the uprights and secure with nuts & bolts. When using row spacers, the spacing between row spacers is not to exceed 10'. Install additional row spacers as necessary to maintain this maximum spacing. Installation of all accessories can now be made: pallet crossbars, decking, etc..
8. Complete a final check to ensure all rack is level, plumb, and square and anchor all uprights to the floor. Whenever the height to depth ratio is 6:1 or greater, please consult your supplier for additional bracing requirements.

*Note: Protective devices are not a substitute for regular inspections involving management personnel.*

9. **WARNING** - bolt beams in place if: safety clips are not engaging properly, or when
  - placing beams over aisles
  - unusual conditions such as close load clearances, tight aisle clearance or large bulky loads are present
  - Beams are in positions that are difficult to inspect.

Invincible Rack - Use  $\frac{7}{16}$ " X 4" hex bolts and nuts with  $\frac{7}{16}$ " flat washers to side bolt 3.0", 3.5", 3.92", and 4.3" beams. Use same hardware to top bolt 4.85", 5.5" and 6.0" beams. When side top or side bolting is not possible the beams can be front bolted through the safety clip hole. Use  $\frac{3}{8}$ " X 1" hex bolt and nut with  $\frac{3}{8}$ " flat washers to front bolt beams.

Lateral ties are required for beams over 116" in length. We can provide Standard Waterfall Wire Decking or Flanged Crossbars for your lateral tie needs.

## Inspection Requirements

Start a regular inspection procedure to check for:

- Proper beam connections
- Presence of intact and fully engaged safety clips
- Damage
- Overloaded beams or uprights

We recommend that this be a part of your monthly safety committee's duties. Additionally, notify all forklift operators to alert their supervisor of any rack damage. If rack deficiencies are discovered:

- Immediately unload the affected area
- Replace the damaged items.
- In the case of a safety clip problem—Beams can be safely bolted in place, and replaceable safety clips are available by contacting our Customer Service Department.

## UPRIGHT FRAME CAPACITIES ANSI MH 16.1 2008 INVINCIBLE STYLE RACK

The table below has been calculated in accordance with the 2008 edition of the RMI "Specification for the Design, Testing and Utilization of Industrial Steel Storage Racks" and the 2001 edition of the AISI "Specification for the Design of Cold-Formed Steel Structural Members".

Max. Shelf Spacing*	Capacity (Lbs.)				
	3 X 1 5/8 (P18)	3 X 3 (P24)	3 X 3 (P29)	3 X 3 (P35)	3 X 3 (P38)
36"	19,380	28,800	35,500	40,300	45,100
42"	18,100	27,200	33,600	38,100	42,700
48"	16,700	25,300	31,100	35,300	39,600
54"	15,300	23,200	28,600	32,500	36,300
60"	13,800	21,100	26,000	29,500	33,000
66"	12,300	19,000	23,400	26,600	29,700
72"	10,900	16,900	20,800	23,700	26,400
78"	9,500	14,900	18,200	20,800	23,200
84"	8,300	13,100	16,100	18,300	20,400
90"	7,300	11,600	14,200	16,200	18,100
96"	6,500	10,300	12,700	14,400	16,100

For vertical shelf spacing greater than 96" please contact your distributor.

\*Shelf spacing is measured from the floor to the top of the first beam or the maximum shelf spacing (Whichever is greater).