

Loading Trailers



General Guidelines Maximum Overall Dimensions (Un-Permitted)

Width: 96 inches Width: (Designated Highways): 102 inches Height: 13 feet, 6

inches GVW: (Gross Vehicle Weight): 80,000 lbs. Length of Semitrailer: 53 feet

Length of Semitrailer: (Non Designated Highway): 50 Feet Length of Combination

Tractor Trailer: (With or Without Load) No Limitation Units Permitted in Train:(2)

Semitrailers or Truck and Semitrailer

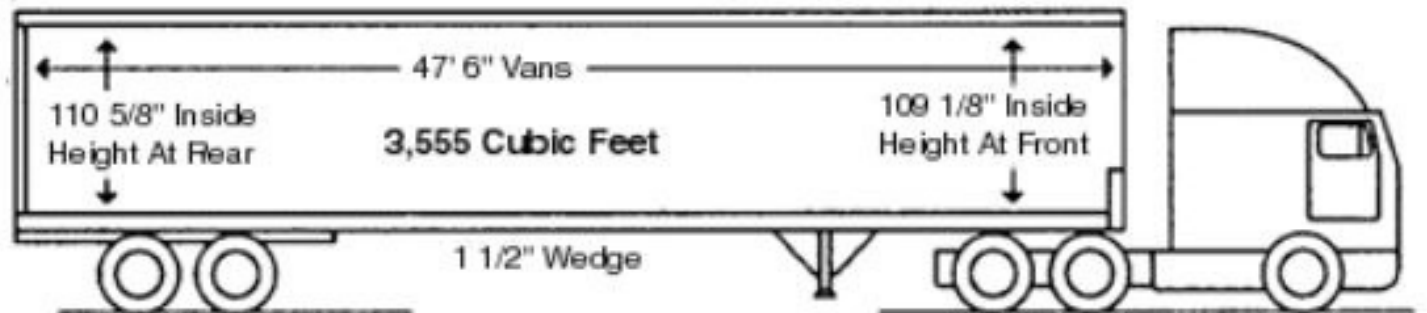
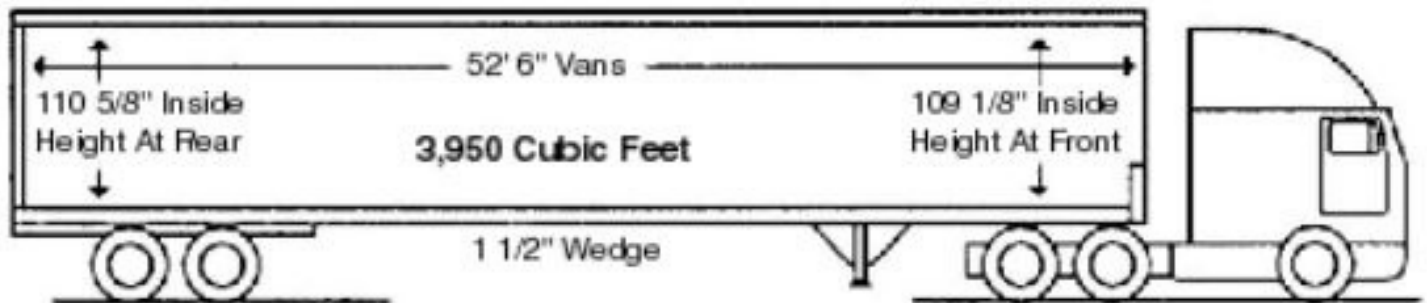
- Truck-Tractor, Semitrailer and Trailer or Tractor and Length of a Combination of Tractor, Semitrailer, and Trailer or Tractor and (2) Semitrailers or truck and semitrailer of trailer with or without load or pickup truck, Semitrailers are designed for recreational living purposes, and additional trailer or Semitrailer: 65 feet.
- The Semitrailers that are longer than 50 feet shall have a wheelbase of 37 feet to 41 feet. This is measured from the kingpin coupling to the center of the axles or to the center of the tandem axle assembly in case it is equipped with (2) axles.
- Semitrailers longer than 50 feet are limited to 3 axles and shall operate only on designated highways.
- The measurement of Semitrailers and Trailers shall be done from the front vertical plane of the foremost transverse load supporting structure to the rearmost transverse load supporting structure. Safety and energy conservation devices are not supposed to be included in the length measurement, but not limited to, impact absorbing bumpers, rear view mirrors, turn signal 22 22 lamps, marker lamps, steps and hand holds for entry and egress, flexible fender extensions, mud flaps or splash and suppressant devices, load induced tire bulge, refrigeration or heating units, or air compressors. However any device that is not designed or intended to be used in the cargo carrying, shall be excluded from the length determination.

Weight/Dimensions

A permit for your freight is typically required if your vehicle dimensions or weight exceed the following:

Dimensions	
Width	8 feet, 6 inches
Height	13 feet, 6 inches
Length -(Single vehicle and load)	40 feet
Length -(Combination of 2 vehicles)	65 feet
Length -(Truck/tractor and semi-trailer)	75/65 feet
Axles	Weight
Any wheels supporting one end of an axle	11,000 Lbs.
Truck tractor steering axle	13,000 Lbs.
Single axle	20,000 Lbs.
Tandem axles	34,000 Lbs.
Maximum gross vehicle weights on all axles	80,000 Lbs.

Trailer Capacity



TRAILER CAPACITIES

1. Maximum weight is 46,500 lbs. per trailer (48' or 53').
2. 22-24 single-stacked standard (48x40") pallets in a 48' trailer.
3. 26-28 single-stacked standard (48x40") pallets in a 53' trailer.
4. Every two single-stacked standard pallets take up 4 linear feet of truck space.

MEASUREMENT CALCULATIONS

1. Compute Cubic Feet = $L \times W \times H \times \# \text{ of Pieces} / 1728$
2. Compute Dimensional Weight = $L \times W \times H \times \# \text{ of Pieces} / \text{DIM Factor}$
3. Convert Kilograms to Pounds = $\# \text{ of Kilograms} \times 2.2046$

Pallets and Configurations

Shipping & Logistics managers all need to know the basics of loading a different trailers and sizes. Whether you have a 48 foot trailer or 53 footer it will make a difference. If you have **40x48** skids you have the choice of running them straight into the trailer, **pin-wheeling**, or turning them all **sideways**

The following scenarios would apply:

48 foot trailer:

- 24 skids loaded straight into the trailer
- 26 skids pin-wheeled
- 28 skids turned sideways

53 foot trailer:

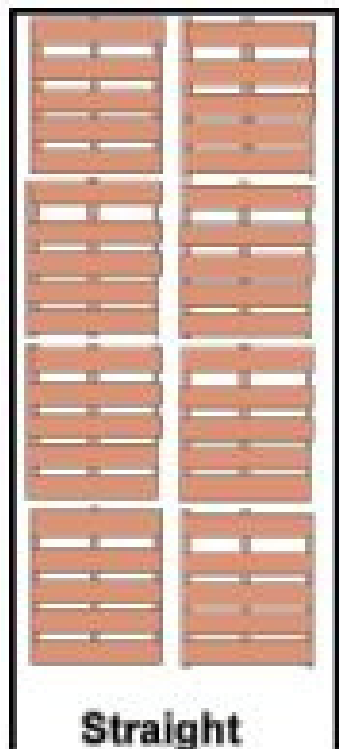
- 26 skids loaded straight into the trailer
- 28 skids pin-wheeled
- 30 skids turned sideways



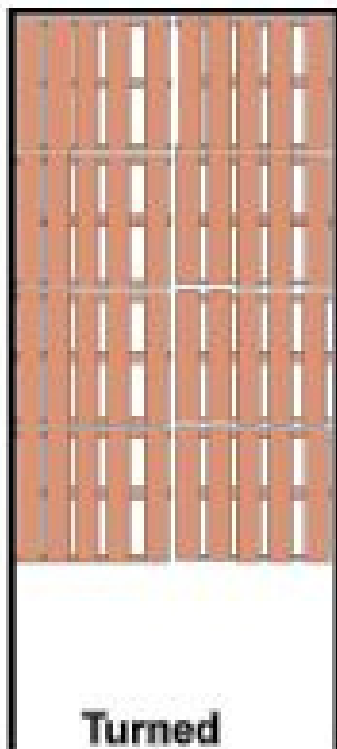
Build this



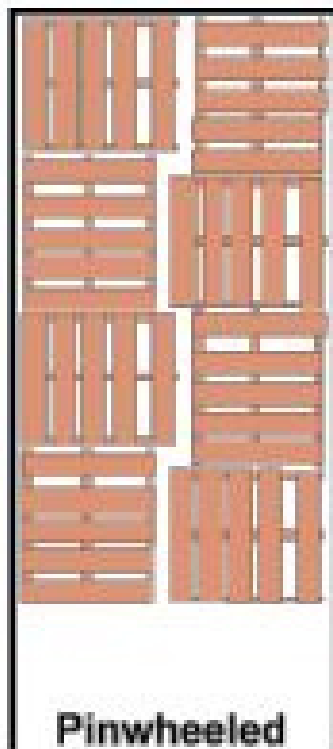
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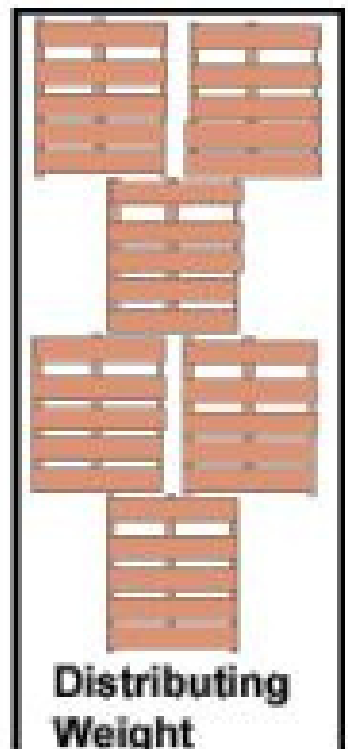
Straight



Turned



Pinwheeled



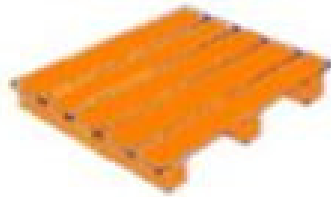
Distributing Weight

Types of Pallets

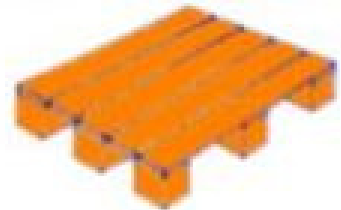
Single two-way slabs



Single two-way slabs



Single four-way board



Double-sided four-way board



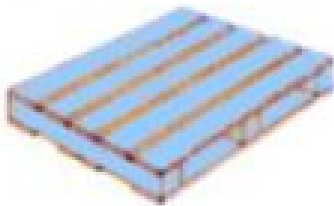
Double-sided two-way slabs



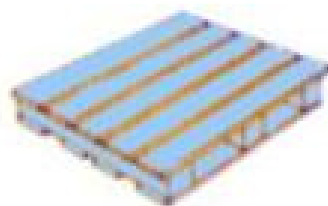
Double-sided two-way slabs



Double-sided Single two-way



Double-sided Single two-way



Double-sided Single-sided board with a four-way

