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Flow-Rail - Project Guide

1 / Track length

Add 2" to the overall pallet depth (product overhang included)
example: 48"D pallets with 1" overhang in a 5 pallet deep Flow-Rail system.
48" + 1" + 2" = 51" x 5 pallets = 255"
If lanes are 6 to 10 deep 1" extra per pallet is fine.


2 / Tracks per lane

For standard size pallets two tracks per lane.
However, certain factors must be considered:
pallet weight / pallet type and overall condition / system depth / # of storage levels / type of lift
(If not sure send me project details & photos)

3 / Racking structure

Must be equal to, or slightly less than the length of Flow-Rail tracks.
If equal, tracks will be flush with front & back beams.
If shorter, rails will extend in back.
Note : back stopper beams must be installed for each storage level
(can be flush, or recessed)
Regardless of pallet weight front upright (frame) can be up to 54'' wide.
If single posts are used must be positioned in-between uprights - not at the end of the structure.
Use row-spacers in-between uprights.


Flow-Rail weight-load capacity : admissible pallet weight in relation to distance in-between uprights (frames)

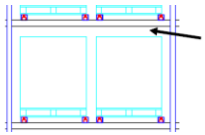
(based on 40 x 48 pallet with no overhang)

60" : 1500lbs 54" : 2000lbs 50" : 2500lbs 44" : 3200lbs 38" : 4000lbs

4 / Floor-level tracks

Tracks cannot be set directly on the floor.
Use 2" beams welded at bottom of connectors.
Other option is to use 1.5" x 1.5" tube anchored to the floor.
(no attachment to upright posts)
In either case, shimming will be required because of base-plates or uneven floor.
Flow-Rail weight-load capacity limits do not apply for floor level tracks.

5 / Storage levels & beam dimensions



Flow-Rail tracks are 3.5"H.
5" lift-off is required, 4" if structure has 3 storage levels or less. *(includes floor-level)*

On any given storage level total capacity of all the beams must equal or exceed total weight of all the pallets.
(example : double bay 1800lb pallets 5 deep = 18,000lbs. Weight-load capacity of the 6 beams combined must exceed 18,000lbs)

6 / Lift-truck

Lift-truck forks must have enough extension to work top level of the racking structure.
Example: top level beam at 174'' + 3.5''H Flow-Rail + **8''** = 185.5''

Calculate required force for the lift truck; Count all the pallets in a lane less one. Multiply total by **3%** *(required force to start moving the pallets)* and then by **2%** *(required force once pallets are in movement)*
Example: 6 pallet deep system with 1800lb pallets: 5 * 1800lbs * 3% = 270lbs 5 * 1800lbs * 2% = 180lbs

7 / Determine total number of Flow-Rail lanes

8 / Validate cost of Flow-Rail material

Use Flow-Rail price list. For labor, lanes 2 to 5 deep full assembly & install 30 min. per individual track. 6 to 10 deep 45 minutes per track.

9 / Freight cost

To obtain freight quote send me following info: total number of lanes / track length(s) / city / state / zip code
closed van or flatbed depending on track length, size of order, etc.