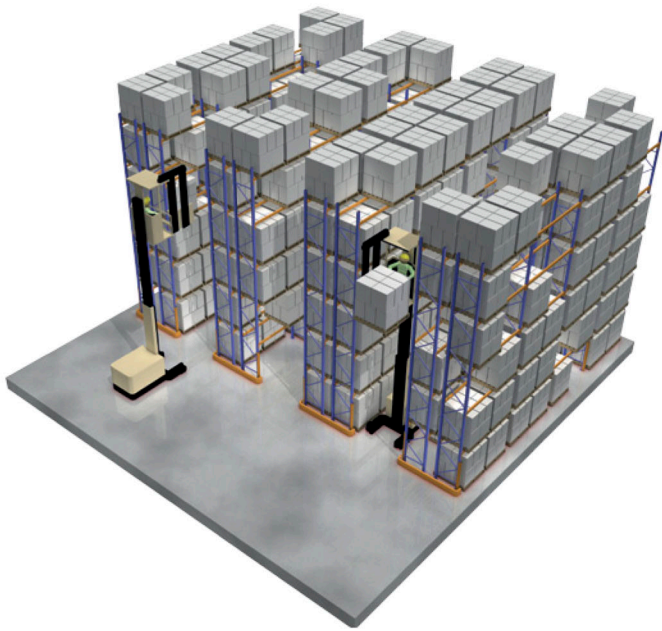


Narrow Aisle Pallet Racking



Introduction

The system is served by a specialised fork lift. The mast of the fork head rotates either left or right as required.

The system can also be serviced by fork lifts with elevating operator cabins where the operator hand picks.

Very flat floors, close tolerance racking, carefully located pallets of uniform size and stock location systems are all prerequisites for successful narrow aisle systems.

Floor guidance in the aisles is mandatory and the design interface between every aspect of their system is needed.

Features

- Floor mounted free roaming trucks are flexible in multi-aisles.
- High speed through put with specialised equipment.
- Controlled materials handling provides safe and damage free environment.
- Fire suppression and seismic need consideration. Hard wearing and very flat floor designed for heavy static/live loads are normal.
- High average locations used 95%, for 100% accessibility, good stock rotation and 50% floor utilisation with high cube available.

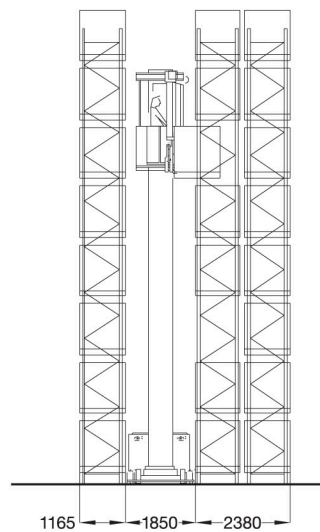
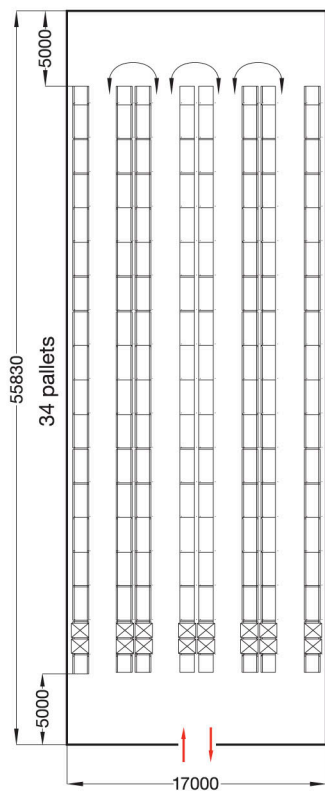
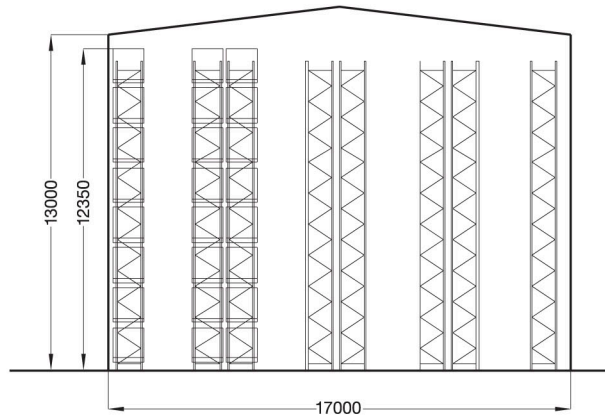
Vital statistics

Average locations used	95%
Immediate accessibility	100%
Stock rotation	Good
Average floor area by pallet position (sqm)	0.45



Narrow Aisle Pallet Racking

Example configuration



Narrow aisle racking example for 2176 pallets

- Pallet and load size:
1165mm (entry) x 1165mm x 1350mm (H)
- Floor area:
 $55.83\text{m} \times 17\text{m} = 950\text{ sqm}$
- Total building volume:
12338 cbm (13m high)
- Average floor area/pallet position:
 $950\text{ sqm} / 2176\text{ pallets} = 0.437\text{ sqm/pallet position}$
- Average building volume/pallet position:
 $12338\text{ cbm} / 2176\text{ pallets} = 5.67\text{ cbm/pallet}$

