



## Checklist Of Design Parameters

### Operational

- Are bridge or drive through bays acceptable
- Preferred operating forklift aisle width
- Maximum storage height
- Requirement for specific floor areas such as staging or forklift charging
- Extend the end frames of racks to provide fall protection
- Internal or external locations

### Building

- Floor slab point load limitations
- Slab joint and joint expansion
- Post & pre-tensioned slab design and effect of floor fixing
- Location of building columns & doorways
- Location of designated pedestrian walkways
- Variation in slab level
- Floor grating and drainage pits
- Location of ceiling lights

### Fire Services

- Set back dimension of product from the roof sprinklers
- Location of internal fire services, e.g. hydrant and hose reels
- Location of internal electrical and data cabinets
- Requirement for in-rack sprinklers
- Minimum rack flue dimension
- Vertical and/or horizontal bulk heads or baffles required
- Shelving material requirements
- Smoke or fire curtains present
- Fire services dropper pipes required to be supported to racking

### Pedestrian Access, Fire Egress & Escape

- Location of fire exit doors
- Requirement for designated pedestrian walkways
- Requirement for in rack egress aisle ways

### Pedestrian Protection

- Requirement for fall protection barriers
- Requirement for end frame extension
- Requirement for overhead protective mesh in egress aisles
- Requirement for protective guarding in pedestrian access areas



### Rack Protection

- Requirement for upright protection
- Requirement for rack end protection
- Requirement for back stop protection

### Storage Load

- Type and size of pallet
- Product overhang on pallet & which sides
- Height of load including pallet
- Preferred load lift off clearance
- Need for mesh deck support

### Storage Weights

- Design weight of storage load
- Shelf uniformly distributed load
- Maximum bay load limitations

### Storage Data Profile

- Maximum stock on hand by SKU
- Maximum picks per SKU per period
- SKU size & weight

### Materials Handling Equipment

- Type of forklift used
- Minimum turning circle and/or operating aisle width
- Maximum lift height
- Maximum lift capacity at full extension
- Reach truck straddle leg height
- Does reach truck have straddle legs, if so, what is the overall width?

### Racking Specification

- Pregalvanised or painted uprights
- Spliced or one piece uprights
- Box beams or structural beams
- Rack protection