

## ✓ Load & Safety Guidelines

(For All Storage Racking & Mezzanine Systems)

### 🔒 General Load Guidelines

#### 1. Never Exceed Specified Load Limits

Each racking or mezzanine system is engineered for a defined **UDL (Uniformly Distributed Load)**.

**Do not exceed the specified load per level, per arm, or per bay** as mentioned in technical drawings or load labels.

Overloading may lead to **permanent deformation, instability, or structural collapse**.

#### 2. Ensure Uniform Load Distribution

Loads must be **evenly distributed** across beams, arms, shelves, or decks.

##### **Avoid:**

Point loading

Partial loading on one side

Stacking material beyond the arm or beam length

Uneven loading can cause **beam deflection, joint failure, or rack tilting**.

#### 3. Personnel Access Restrictions

Racks and mezzanine decks are **not designed for walking or climbing** unless explicitly designed as **working platforms**.

Do not walk, climb, or sit on racks

Do not operate trolleys on rack beams or shelves

Mezzanine floors used for personnel must include **handrails, stairs, and safety gates**

#### 4. Dynamic Load Limitation

Racking systems are designed for **static loads only**.

##### **Avoid:**

Dropping loads

Impact from forklifts

Dragging material across beams or arms

Dynamic forces can exceed design limits and weaken the structure.

## 🚧 Safety Guidelines

1. Always follow the **mentioned load capacity** displayed on rack load labels.
2. Never overload racks, mezzanine floors, or cantilever arms.
3. Do not climb, stand, or walk on racks or shelving units.
4. Only **trained forklift operators** should work near racking systems.
5. Maintain **safe forklift aisle clearances** as per rack design.
6. Mezzanine floors must be equipped with:
  - Hand railings
  - Toe guards
  - Safety gates
  - Proper staircases
7. Inspect racks **periodically** for:
  - Bent uprights or arms
  - Loose bolts
  - Damaged beams or bracing
8. Do not modify, cut, weld, or relocate racks without expert approval.
9. Use only **good-quality pallets** suitable for the racking system.
10. Immediately report and isolate any **damaged rack or component**.

## 🔧 Operational Best Practices (Added Value Section)

- Install **rack protection guards** at column bases.
- Clearly display **load rating plates** on every aisle.
- Maintain proper **anchoring to the floor**.
- Replace damaged components immediately – **do not attempt repairs on site**.
- Keep racks clean and free from debris or oil spills.

## ⚠️ Mandatory Warning Statements (Recommended for Signage)

“**DO NOT OVERLOAD. Follow specified UDL limits. Avoid point loading. Walking or climbing on racks is strictly prohibited.**”

“**Maximum Load: \_\_\_ kg per level | \_\_\_ kg per bay. Uneven or excessive loading may result in structural damage or collapse.**”