



Plan Review Requirements for Storage Rack Systems

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Storage Rack System Installation or Modification Instructions

1. RELEVANT CODE DATA:

- Code design information
- IBC use designation of building
- IBC building construction classification
- Seismic design category
- Occupancy load

2. EGRESS PLAN

- Location of exits
- Travel distances to exits
- Occupant loads along egress path
- Exit sign locations
- Emergency light locations
- Fire alarm device locations
- Fire extinguisher locations

3. RACK PLANS

- Floor plan of storage rack layout
- Separation distances between racks, walls, other equipment, etc...
- Heights of racks, heights of storage tiers/shelves, clearances to ceilings
- Dimension of all items listed above
- Location of structural columns/components and how structural elements will be protected

4. DESCRIPTION OF MATERIALS/EQUIPMENT/ITEMS TO BE STORED

- Weights
- Hazard classification, combustible, flammable, etc...

5. RACK SPECIFICATIONS:

- Manufacturer specifications of rack system and components
- Installation specifications
- Connection details/anchoring to building construction details

6. ELECTRICAL PLAN

- In addition to the locations of exit/egress/emergency lighting as outlined in item #2, provide electrical panel schedules for same items, wiring diagram, wiring size
- As necessary, if existing fire alarm system will be affected by rack system, submit complete fire alarm shop drawings including battery, voltage drop calculations, and system component manufacturer specifications

7. FIRE/SPRINKLER PLANS:

- A complete plan on the existing sprinkler system and, if applicable, proposed modifications to system
- Sprinkler system analysis based on storage commodity classification, top of storage height, rack separation distances and location of sprinkler heads (in-rack, ceiling only)