



Community Development Department Building Division

www.visalia.city
315 E. Acequia Avenue
Visalia, CA 93291
Ph: (559) 713-4444

Plan Submittal Checklist for Storage Racks

Purpose

This handout summarizes the requirements for a complete plan review submittal for the installation of storage pallet racks, movable shelf racks and stacker-racks in commercial or industrial buildings. The following guideline shall be reviewed and approval must be obtained before commencing any work.

Permits Required

A building permit is required for the following type of work:

- Storage racks greater than 5-ft 9 inches in height.
- Storage racks greater than 8-ft above ground shall be provided with structural plans, details and calculations. Note: Racks between 5'9" and 8' shall be anchored in accordance with ASCE 7-10 and may require structural calculations at the discretion of the building official.
- Storage racks greater than 12-ft above ground shall be provided with structural calculations and a Fire Department "high-piled" permit and approval.
- Storage racks for certain high-hazard commodities, such as rubber tires, Group A plastics, flammable liquids or similar commodities where the top of storage is greater than 6 feet in height.

High-piled storage can include racks, shelving, solid piled or pallet storage 12-ft or higher. A Fire Department permit is still required regardless whether the rack height is less than 12-ft but the proposed storage will be 12-ft or higher. The overall height for high-piled storage racks is taken from the ground to "top of storage".

Plan Submittal for Construction

Quantity

Four (4) complete and scaled sets of plans prepared by a California licensed professional engineer; at least two sets must be wet-signed and stamped.

Two (2) sets of wet-signed and stamped calculation reports prepared by a California licensed professional engineer (if required).

Completed Building Permit Application form and plan check fee paid.

Fire Department Approval

A separate permit is required for high-piled combustible, flammable or hazardous material storage from the Fire Department. Please contact fire department directly to obtain a permit and inspection. The fire department can be reached at (559) 713-4444.

Information

SIZE

- Minimum 18-in x 24-in plans (24-in x 36-in recommended) drawn to scale, fully dimensioned and legible.

INFORMATION

- Plot plan and/or Cover sheet: job address and suite number; name, address, phone number of business owner/contractor/design professional.
- Complete description of scope of work; type of business; current codes; type of construction; occupancies; type of fire sprinkler system.

ARCHITECTURAL PLANS

- Floor plans identifying location and square footage of all storage areas, racks and shelving; location of exit door, exit access doors and exit signs.



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- Location of and dimensions of smoke vents and curtain boards (if required).
- Provide aisle clearances between racks at **36-**side and **44-in** minimum aisle width when serving both sides of an isle per CBC Chapter 10.

STRUCTURAL PLANS

- Shelf and rack support base anchorage connection details and specifications to reinforced concrete slab and footing foundation and/or elevated wood floor framing system.
- Rack details showing dimensions, number of tiers, if these are single, double or multiple racks.
- Shelving installation method, support and brace framing details; if utilizing drilled and inset expansion or epoxy type anchorage bolt systems, specify on plans "Special Inspection and Testing shall be required.
- Structural design shall comply with requirements based on the following:
 - 2016 California Building Code (CBC)
 - American Society of Civil Engineers (ASCE) 7, Section 15.5.3
 - Rack Manufacturers Institute Specifications for Steel Storage Racks (RMI/ANSI MH 16.1)

FIRE SPRINKLER PLANS

- FIRE SPRINKLER PLANS ARE SUBMITTED TO THE BUILDING DEPARTMENT. CONSTRUCTION REVIEW AND PERMITS FOR FIRE SPRINKLER AND FIRE ALARM SYSTEMS WILL BE ISSUED BY THE BUILDING DEPARTMENT.
- NFPA 13 STANDARD FOR THE INSTALLATION OF FIRE SPRINKLER SYSTEMS, 2016 EDITION.
- NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE, 2016 EDITION.

Fees

Building fees are based on the total value of all construction work (including labor and materials). Consult with a permit technician for details.

Application Forms

Building permit application forms can be obtained in the following link or requested at the Building counter located on the second floor.

Community Development Department

Address: 315 E. Acequia Avenue

Phone: (559) 713-4444

Hours: Monday through Friday

Please call to confirm hours of operation