



Modesto Fire Department
FIRE PREVENTION DIVISION
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HIGH-PILED COMBUSTIBLE STORAGE GUIDELINES

Listed below are the basic information requirements to complete a plan review.

- 1. Submit three copies of plans drawn to an indicated scale on a minimum sheet size of 24" x 36" with a printed title block.
- 2. Indicate the project name, full street address, Assessors Parcel Number (APN), tract number, and associated building permit number. Show north pointing arrow.
- 3. Provide contractor's name, address, phone number, type of license, license number, and date of expiration. All plans must be "wet" signed.
- 4. Provide date of California Building Code, California Fire Code, and NFPA references.
- 5. Provide a site plan showing fire access lanes, fire hydrants, fire sprinkler riser(s), and FDC's. Show property lines, nearby buildings, adjoining suites, driveways, and streets.
- 6. Describe the scope of work. Cloud or isolate project areas.
- 7. Specify the occupancy group as shown in 2016 California Building Code Chapter 3.
- 8. Provide a floor plan of the building showing locations and dimensions of high-piled storage areas.
- 9. State usable storage height for each storage area. (This is height to the top of commodities being stored not height to the highest shelf.)
- 10. Show number of tiers within each rack, if applicable. Provide elevation views of the racks.
- 11. Describe type of shelving (solid, slatted, wire mesh, etc).
- 12. Indicate commodity clearance between top of storage and the sprinkler deflector for each storage arrangement (the vertical distance between the horizontal plain defined by the top of storage and the horizontal plain defined by the sprinkler deflector).
- 13. Show aisle dimensions between each storage array.
- 14. State maximum pile volume for each storage array.
- 15. Show location and classification of commodities in accordance with Section 3203.
- 16. Provide a detailed description of the products to be stored and a description of all containers, pallets, and packing material. If requested, include Material Safety Data Sheets (MSDS) for products to be stored.
- 17. Show location of commodities which are banded or encapsulated.
- 18. Show location of required fire department access doors.
- 19. Describe type of fire suppression and fire detection systems.
- 20. Specify the fire sprinkler design density as indicated in the 2016 edition of NFPA 13.
- 21. Show location of valves controlling the water supply of ceiling and in-rack sprinklers.
- 22. Describe type, location and specifications of smoke removal and curtain board systems.
- 23. Show dimension and location of transverse and longitudinal flue spaces.
- 24. Additional information regarding required design features, commodities, storage arrangement and fire protection features within the high-piled storage area shall be provided at the time of permit, when required by the fire code official.

All items may not pertain to every project.

Other information may also be required.

Direct specific questions to a plan checker at (209) 551-5516.