

High-Piled Storage Requirements



High-Piled Combustible Storage:

Storage of combustible materials in closely packed piles or combustible materials on pallets, in racks or on shelves where the top of storage is greater than 12 feet in height. Where required by the fire code official, high-piled combustible storage also includes certain high-hazard commodities, such as rubber tires, Group A plastics, flammable liquids, idle pallets and similar commodities, where the top of storage is greater than 6 feet in height.

Building Permit Information:

At the time of a building permit application for new structures designed to accommodate high-piled storage or requests for a change of occupancy to add high-piled storage, plans and specifications shall be submitted for review and approval. Plans must be prepared and sealed by a registered design professional.

Plans shall include the following:

1. Floor plan of the building showing locations and dimensions of high-piled storage areas.
2. Usable storage height for each storage area.
3. Number of tiers within each rack, if applicable.
4. Commodity clearance between top of storage and the sprinkler deflector for each storage arrangement.
5. Aisle dimensions between each storage array.
6. Maximum pile volume for each storage array.
7. Location and classification of commodities in accordance with Section 3203.
8. Location of commodities that are banded or encapsulated.
9. Location of required fire department access doors.
10. Type of fire suppression and fire detection systems.
11. Location of valves controlling the water supply of ceiling and in-rack sprinklers.
12. Type, location and specifications of smoke removal and curtain board systems.
13. Dimension and location of transverse and longitudinal flue spaces.
14. 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.
15. Structural information for racking system including but not limited to maximum live loading and securing of rack system to the structure.

Submittal Documents Required:

1. [Building Permit Application](#)
2. [Use Permit Application](#)
3. Sealed Plans

For Staff Only:

High-piled storage plans can be added to an existing building permit as a revision.

For buildings which are adding high-piled storage or have existing non-permitted HPS, a new permit application shall be submitted.