



High Piled Combustible Storage Guidelines

CFC § 105.6.13 & 105.5.24 Requirement:

- A construction document is required for the installation of or modification to a structure with more than 500 square feet, including aisles, of high-piled combustible storage.
- An operational permit is required to use a building or portion thereof with more than 500 square feet, including aisles, of high-piled combustible storage.

Definition:

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

The construction document shall include a minimum of the following:

- Floor plan of the building showing locations and dimensions of high-piled storage areas.
- Usable storage height for each storage area.
- Number of tiers within each rack, if applicable.
- Commodity clearance between top of storage and the sprinkler deflector for each storage arrangement.
- Aisle dimensions between each storage array.
- Maximum pile volume for each storage array.
- Location and classification of commodities in accordance with CFC Section 3203.
- Location of commodities that are banded or encapsulated.
- Location of required fire department access doors.
- Type of fire protection systems.
- Location of valves controlling the water supply of ceiling and in-rack sprinklers.
- Type, location and specifications of smoke removal and curtain board systems.
- Dimension and location of transverse and longitudinal flue spaces.
- 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, where required by the fire code official.